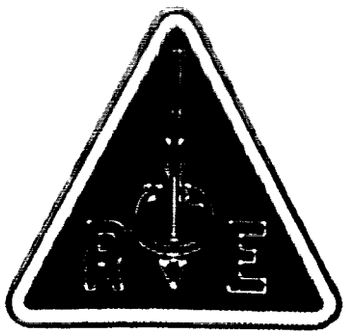
1952

IRE DIRECTORY



A YEARBOOK CONTAINING

- A RADIO ENGINEERS' DIRECTORY
- A LIST OF FIRMS AND PRODUCTS

The Institute of Radio Engineers, Inc.

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Use

Aptitude-Tested MIKE CABLE *Now!*

•Now, you can be sure of your installations with Belden Microphone Cables. They are *Aptitude-Tested* and rated to give you safe and complete knowledge of their characteristics. Furthermore, Belden Mike Cables are built for maximum service. Put them to work for you now—and be sure... specify Belden.

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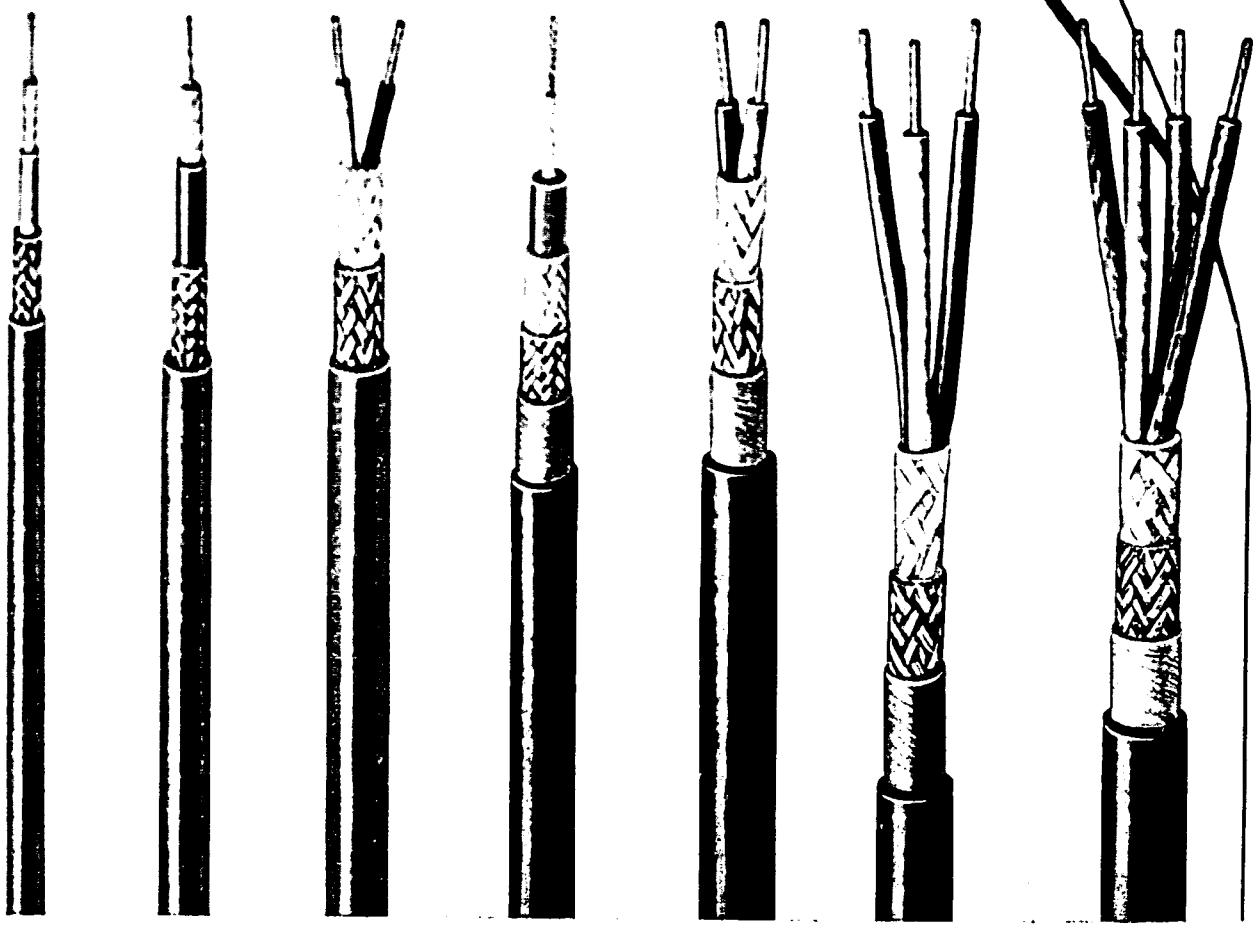
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No. 8401
Nominal Capacitance 25 mmf per ft. For crystal, ribbon, carbon microphones.

No. 8422
Nominal Capacitance 32 mmf per ft. Use specially for carbon microphones.

No. 8410
Nominal Capacitance 33 mmf per ft. For crystal, ribbon, carbon microphones.

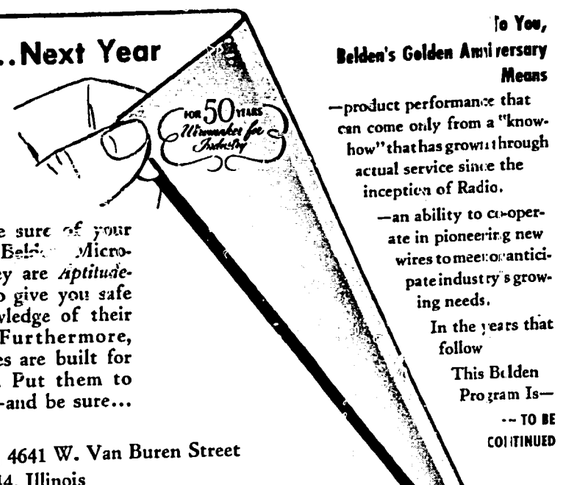
No. 8412
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No. 8423
Nominal Capacitance 54 mmf per ft. Use particularly for carbon microphones.

No. 8424
Use for interconnecting power cable for all electronic uses. Also microphone cable.

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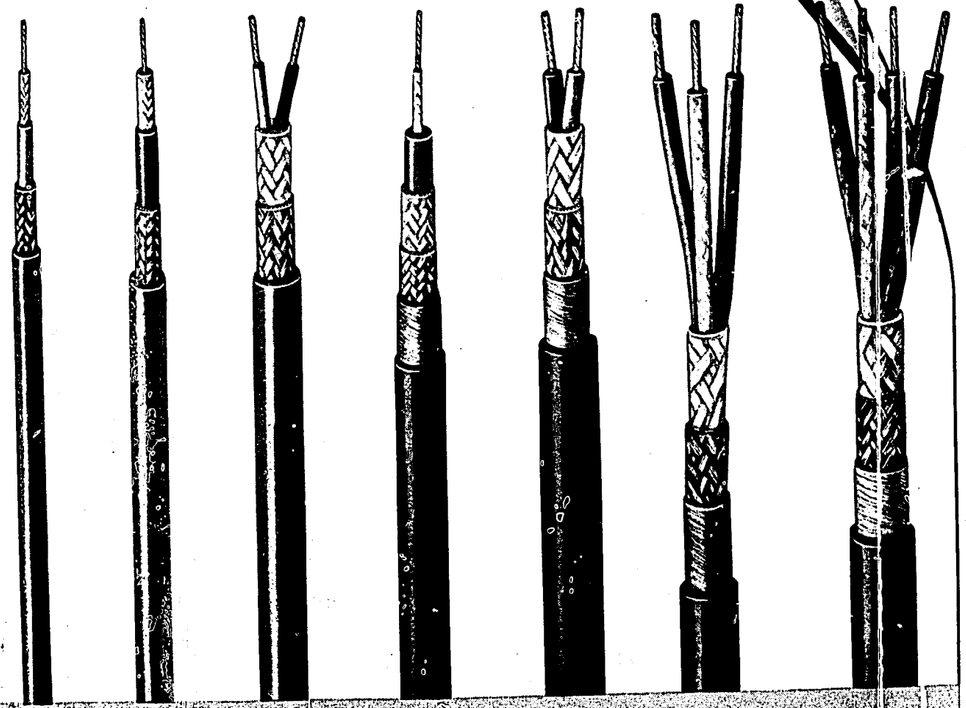
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Belden *Radio* WIRE

1952

IRE DIRECTORY

A YEARBOOK CONTAINING

- A RADIO ENGINEERS' DIRECTORY
- A LIST OF FIRMS AND PRODUCTS

Published by

THE INSTITUTE OF RADIO ENGINEERS, INC.

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NEW YORK, N.Y.

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1952

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CONTENTS

IRE OFFICERS 2
- Board of Directors 2
- Executive Committee 2
- Administrative Staff 2

OFFICERS AND DIRECTORS, 1912-1952 4

THE INSTITUTE 5
- General 5
- Publications of The Institute 6
- Standards 6
- Awards 7
- Medal of Honor 7
- Morris Liebmann Memorial Prize 8
- Browder J. Thompson Memorial Prize 8
- Harry Diamond Memorial Award 8
- Editor's Award 8
- Zworykin Television Prize 8
- IRE Headquarters Building 9
- Membership Requirements and Dues 9

CONSTITUTION OF THE INSTITUTE 10
- Bylaws 12

MEMBERSHIP LISTS 18
- Note 18
- Biographies of Fellows 19
- Membership Roster 45

ADVERTISING SECTION

GUIDE TO ADVERTISING INDEX i
ALPHABETICAL DIRECTORY OF MANUFACTURING FIRMS 3
PRODUCT INDEX 73
INDEX TO ADVERTISERS ..... 295 & Inside Back Cover
CATALOGUE SECTION 297

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Armstrong, E. H.	Bd. of Dir., 1916-22; 1936-38.
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Bailey, S. L.	Bd. of Dir., 1943-1952; Pres., 1949; Treas., 1948.
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*Ballantine, Stuart	Bd. of Dir., 1935-37; Pres., 1935.
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*Bullard, W. H. G.	Bd. of Dir., 1920-21.
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Chamberlain, A. B.	Bd. of Dir., 1941-44.
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Clark, T. H.	Bd. of Dir., 1950.
Clayton, J. M.	Bd. of Dir., 1928-29; Secty., 1928-29.
Clement, L. M.	Bd. of Dir., 1945.
Coggeshall, I. S.	Bd. of Dir., 1941-44; 1951-52; Pres, 1951.
Coleman, J. B.	Bd. of Dir., 1948-49.
*Colpitts, E. H.	Bd. of Dir., 1921-23.
*Conrad, Frank	Bd. of Dir., 1927; V. Pres., 1927.
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Cunningham, F. W.	Bd. of Dir., 1938-40.
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Deloraine, E. M.	Bd. of Dir., 1946; V. Pres., 1946.
Doherty, W. H.	Bd. of Dir., 1951-52.
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Eastman, A. V.	Bd. of Dir., 1950-51.
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Fisk, E. T.	Bd. of Dir., 1938; V. Pres., 1938.
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Friis, H. T.	Bd. of Dir., 1941-43.
Fuller, L. F.	Bd. of Dir., 1928.
Goldsmith, Alfred N.	Bd. of Dir., 1912-1952; Pres., 1928; Secty. 1918-27; Editor, 1912-28; 1930-52.
Graf, A. W.	Bd. of Dir., 1952.
Graham, Virgil M.	Bd. of Dir., 1935-41; 1946-48.
*Grebe, A. H.	Bd. of Dir., 1924-26; 1928.
Gustafson, G. E.	Bd. of Dir., 1943.
Guy, R. F.	Bd. of Dir., 1944-48; 1950-52; Pres., 1950; Treas., 1947.
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Hamburger, F., Jr.	Bd. of Dir., 1950-51.
Hammond, J. H., Jr.	Bd. of Dir., 1912-17; Treas., 1913-14.
Hanson, O. B.	Bd. of Dir., 1938-43.
Hazeltine, Alan	Bd. of Dir., 1923-28; 1936-39; Pres., 1936.
Heising, R. A.	Bd. of Dir., 1927-31; 1933-35; 1939-41; 1943-45; 1947-49; Pres., 1939; Treas., 1943-45.
Henney, Keith	Bd. of Dir., 1945-48.
Hewlett, W. R.	Bd. of Dir., 1950-52.
*Hill, Guy	Bd. of Dir., 1914-16; 1918-20.
Hogan, J. V. L.	Bd. of Dir., 1912-36; 1948-50; Pres., 1920; V. Pres., 1916-19.
Hoover, P. L.	Bd. of Dir., 1951-52.
*Horle, L. C. F.	Bd. of Dir., 1934; 1936-42; 1944-46; Pres., 1940.
Horn, C. W.	Bd. of Dir., 1933-34.
Houck, H. W.	Bd. of Dir., 1931-32.
Howes, F. S.	Bd. of Dir., 1948.
*Hubley, Warren	Bd. of Dir., 1915-27; Treas., 1915-16; 1918-27.
Hull, L. M.	Bd. of Dir., 1929-35; Pres., 1933.
Hunter, T. A.	Bd. of Dir., 1948-50.
Hutcheson, J. A.	Bd. of Dir., 1948.
Jansky, C. M., Jr.	Bd. of Dir., 1929-42; Pres., 1934.
Jett, E. K.	Bd. of Dir., 1938.
Johnson, J. K.	Bd. of Dir., 1942.
Jolliffe, C. B.	Bd. of Dir., 1936-37; 1944.
Kaar, I. J.	Bd. of Dir., 1939; 1948.
*Kennelly, A. E.	Bd. of Dir., 1916-18; Pres., 1916.
Kirke, Harold L.	Bd. of Dir., 1952; V. Pres., 1952
*Kolster, F. A.	Bd. of Dir., 1933-35.
Kranz, H. E.	Bd. of Dir., 1949-50.
Krumm, L. R.	Bd. of Dir., 1917; 1921; Treas., 1917.
Lack, F. R.	Bd. of Dir., 1940; 1946-47.
Langmuir, Irving	Bd. of Dir., 1923-25; Pres., 1923.
Lee, A. G.	Bd. of Dir., 1930; V. Pres., 1930.
Lewis, G. H.	Bd. of Dir., 1918-19; 1923-26; 1935.
Llewellyn, F. B.	Bd. of Dir., 1939-48; Pres., 1946.
Loughren, A. V.	Bd. of Dir., 1952.
*Lowenstein, Fritz	Bd. of Dir., 1912; V. Pres., 1912.
Manson, R. H.	Bd. of Dir., 1927-33; Pres., 1931.
*Marriott, R. H.	Bd. of Dir., 1912-16; 1920-22; 1926-32; Pres., 1912; V. Pres., 1913.
McDonald, A. S.	Bd. of Dir., 1949; V. Pres., 1949.

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Name	Office held
McNicol, Donald	Bd. of Dir., 1919-28; Pres., 1926; V. Pres., 1925.
McRae, J. W.	Bd. of Dir., 1949-52.
Meissner, Alexander	Bd. of Dir., 1929; V. Pres., 1929.
*Morecroft, J. H.	Bd. of Dir., 1922-26; Pres., 1924; V. Pres., 1923.
Murray, A. F.	Bd. of Dir., 1936-39.
Nelson, E. L.	Bd. of Dir., 1932-36.
Nichols, H. W.	Bd. of Dir., 1924-25.
Oxley, A. B.	Bd. of Dir., 1951-52.
*Pedersen, P. O.	Bd. of Dir., 1939; V. Pres., 1939.
Pickard, G. W.	Bd. of Dir., 1912-15; Pres., 1913.
Pierce, G. W.	Bd. of Dir., 1915; 1918-21; Pres., 1918-19; V. Pres., 1915.
Piore, E. R.	Bd. of Dir., 1951.
Poppele, J. R.	Bd. of Dir., 1947.
*Poulsen, Valdemar	Bd. of Dir., 1936; V. Pres., 1936.
Pounsett, F. H. R.	Bd. of Dir., 1949-50.
Pratt, Haraden	Bd. of Dir., 1935-52; Pres., 1938; Treas., 1941-42; Secty., 1943-52.
*Pupin, M. I.	Bd. of Dir., 1917-19; Pres., 1917.
Reich, H. J.	Bd. of Dir., 1944; 1948-51.
Reid, J. D.	Bd. of Dir., 1950-51.
Reoch, A. E.	Bd. of Dir., 1924-27.
Royden, G. T.	Bd. of Dir., 1946.
Rush, W. A.	Bd. of Dir., 1942; V. Pres., 1942.
Rust, W. M.	Bd. of Dir., 1951-52.
Rybner, Jorgen	Bd. of Dir., 1951 V. Pres., 1951.
Ryder, J. D.	Bd. of Dir., 1952.
Sarnoff, David	Bd. of Dir., 1915-20; Secty., 1915-17.
Shackelford, B. E.	Bd. of Dir., 1945-50; Pres., 1948.
Shepherd, J. E.	Bd. of Dir., 1948-50.
Shute, E. R.	Bd. of Dir., 1933-34
Simon, E. J.	Bd. of Dir., 1912-15; Secty., 1912-14.
Sinclair, D. B.	Bd. of Dir., 1945-52; Pres., 1952; Treas., 1949-50.
Sink, R. L.	Bd. of Dir., 1952.
Smith, D. B.	Bd. of Dir., 1947.
Smith-Rose, R. L.	Bd. of Dir., 1948; V. Pres., 1948.
*Squier, G. O.	Bd. of Dir., 1918-22.
*Stone, J. S.	Bd. of Dir., 1912-19; Pres., 1915; V. Pres., 1914.
Stratton, J. A.	Bd. of Dir., 1948-51.
Swinyard, W. O.	Bd. of Dir., 1945-46.
Taylor, A. H.	Bd. of Dir., 1929-31; Pres., 1929.
Terman, F. E.	Bd. of Dir., 1940-43; 1948-49; Pres., 1941; V. Pres., 1940.
*Thompson, B. J.	Bd. of Dir., 1937-44.
Town, G. R.	Bd. of Dir., 1949; 1951-52.
Turner, H. M.	Bd. of Dir., 1933-46; Pres., 1944.
*van der Bijl, H. J.	Bd. of Dir., 1945; V. Pres., 1945.
van der Pol, Balth	Bd. of Dir., 1934; V. Pres., 1934.
Van Dyck, A. F.	Bd. of Dir., 1930-35; 1939-44; Pres., 1942.
Watson-Watt, R. A.	Bd. of Dir., 1950; V. Pres., 1950.
*Weagant, R. A.	Bd. of Dir., 1913-17.
Weber, Ernst	Bd. of Dir., 1952.
Webb, W. L.	Bd. of Dir., 1946.
Webster, E. M.	Bd. of Dir., 1946.
Westman, H. P.	Bd. of Dir., 1930-42; Secty., 1930-42.
Wheeler, H. A.	Bd. of Dir., 1934; 1940-45.
Wheeler, L. P.	Bd. of Dir., 1940-45; Pres., 1943.
White, W. C.	Bd. of Dir., 1943-47; Treas., 1946.
Whittemore, L. E.	Bd. of Dir., 1926-29; 1935-37; V. Pres., 1928.
*Wilson, William	Bd. of Dir., 1932-36.
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Zahl, H. A.	Bd. of Dir., 1949.
Zenneck, Jonathan	Bd. of Dir., 1933; V. Pres., 1933.

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THE INSTITUTE

GENERAL

THOUSANDS of persons today are engaged in furthering the art of radio, television, and the many fields ancillary thereto. Yet, of all important technical developments, few have as good a case as radio in tracing its origin to one individual. It is true that Clerk Maxwell, in the middle of the nineteenth century, drew upon the experiences of Faraday and Oersted; but the conception of electromagnetic waves was distinctly new and was due solely to that first director of the now celebrated Cavendish Laboratory. It remained for Heinrich Hertz, at Karlsruhe, to demonstrate experimentally for the first time the transmission and reception of electromagnetic waves generated by an oscillating circuit.

Alert to the significance of this phenomenon, Marconi, Poulsen, Alexanderson, Fessenden, and other engineers at home and abroad developed equipment by which messages in code could be transmitted without wires and over long distances. With the advent of the vacuum tube, wireless telegraphy gave way to wireless telephony and, later, to radio broadcasting. Today radio in all its ramifications stands as a superb tribute to the combined developmental genius of many thousands of engineers skilled in electricity, acoustics, and electronics.

In May, 1912, a small group of far-seeing engineers recognized in wireless of that day an infant industry which, through scientific research and engineering development, could be brought to magnificent fruition for the benefit of mankind. The growth and success of radio development were then clearly seen to rest not alone upon international co-operation, but also upon collaboration in allied fields of science and engineering. It was against this background that A. N. Goldsmith, J. V. L. Hogan, and R. H. Marriott founded, through the merger of two small professional societies, The Institute of Radio Engineers. Starting with fewer than fifty members in 1912, the Institute today embraces some 30,000 members from every corner of the earth.

Today, The Institute of Radio Engineers, located at 1 East 79th Street, is an incorporated, nonprofit organization having as its object the advancement of the theory and practice of radio and electronics, including allied branches of engineering and all related arts and sciences. To this end, the Institute prepares technical papers, reports, and general information of interest to radio engineers. It holds meeting and discussions throughout the United States and Canada. It maintains committees for collating and standardizing the results of technical research and development. Among the fields covered in these activities are radio communication, sound broadcasting, television, marine and aerial guidance, electron tubes, radio-frequency measurements, engineering education, electron optics, sound and picture electrical recording and reproduction, power and manufacturing applications of radio-and-electronic technique, industrial electronic control and processes, and medical electrical research and applications.

Membership in the Institute is distributed among various grades representative of experience and achievement in radio engineering and allied fields. The grade of Fellow is one of distinction, and appointment thereto by the Board of Directors is made on the basis of eminence and distinguished service. The grade of Special Member similarly is conferred by invitation only. Other grades—Senior Member, Member, Associate, and Student—are filled from applicants whose age, experience, and attainments conform to the respective requirements set forth in the Constitution.

To promote the arts and techniques incident to radio development, the Institute has established some 23 technical committees covering fields of current activity in radio engineering and composed of persons of demonstrated ability in their respective fields. Through the Institute, these committees publish standards whose object is to set forth, partly in collaboration with technical committees of other engineering societies, accepted definitions of terms, and methods of measurements of physical quantities used in radio engineering practices. These committees are listed in the June and October issues of PROCEEDING OF THE I.R.E.

The Institute holds, at least once a year, a technical meeting for its entire membership. At this annual meeting, manufacturers exhibit equipment of recent design and interest to radio engineers. It is believed that by this means mutual benefit accrues to both engineer and manufacturer through first-hand acquaintance with the activities of one another. To facilitate interim meetings, Sections have been established throughout the United States, Canada, Territory of Hawaii, and Argentina, to hold meetings under the aegis of the Institute.

To serve special fields of interest, Professional Groups have been formed in each of several technical fields on an Institute-wide basis. These Groups organize meetings and conferences on subjects of special interest to their members, and may publish technical material for distribution to their memberships. In addition, the Groups provide a means for ensuring proper coverage of their fields in the publications of the Institute and for promoting recognition of their leaders among the Institute membership at large. A list of sections and professional groups appears bimonthly in the PROCEEDINGS OF THE I.R.E.

The management of The Institute of Radio Engineers resides in a Board of Directors, selected from the body of Fellows and Senior Members, acting through an Executive Committee and the officers of the Institute. The Sections of the Institute are grouped into eight Regions, and each Region is represented on the Board of Directors by a Regional Director elected bi-annually from, and by, the membership of the respective Region. The President and Vice-President are elected annually from the body of Fellows and Senior Members.

PUBLICATIONS OF THE INSTITUTE

PROCEEDINGS OF THE I.R.E.

Perhaps the most important single activity of the Institute is the publication of a technical journal. The first issue of the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS appeared in 1913. Established first as a quarterly and later a bimonthly, the PROCEEDINGS for the last 25 years has been published in twelve numbers annually. In 1939, the name of this technical organ of the Institute was shortened to PROCEEDINGS OF THE I.R.E.

The PROCEEDINGS OF THE I.R.E. is the official publication of The Institute of Radio Engineers, and in it are published technical papers, discussions, and communications approved by the Papers Review Committee, Board of Editors, and Administrative Committee of the Board of Editors of the Institute, as well as IRE Standards prepared by Institute technical committees. Over 4,900 papers have been published in the PROCEEDINGS dealing with advanced research topics, mathematico-physical analyses of engineering problems, current engineering developments of equipment and methods, commercial applications of engineering methods and products, historical papers, and tutorial papers covering specific aspects of radio and electronic engineering. In addition, space is devoted to organizational and membership news, book reviews, announcements of new products, and abstracts of papers published in technical publications the world over. Of late years an increasing volume of nontechnical material in its pages has proved of interest to members. The PROCEEDINGS OF THE I.R.E. is mailed without charge to all members; subscription price to nonmembers is $18.00 per year, $19.00 if sent to foreign destinations.

STANDARDS

Standardization reports have been issued since 1913. The early reports were confined to the definition of technical terms and presentation of standard graphical symbols. The more recent reports include methods of testing certain items of equipment and measuring quantities associated with the radio art, and letter symbols and mathematical notation. Starting in 1949, IRE Standards have been published in the PROCEEDINGS, rather than as separate reports, in order that they might be available to all members at no extra charge. They are also available in reprint form as follows:

CIRCUITS:

Definitions of Terms in Network Topology, 1950.

ELECTROACOUSTICS:

Definitions of Terms, Letter and Graphical Symbols, Methods of Testing Loud Speakers, 1938.
Definitions of Terms, 1951.

ELECTRON TUBES:

Definition of Terms, 1950.
Methods of Testing, 1950.
Standards on Magnetrons: Definitions of Terms, 1952.

ELECTRONIC COMPUTERS:

Definitions of Terms, 1950.

TRANSMITTERS AND ANTENNAS:

Antennas, Modulation Systems, and Transmitters: Definitions of Terms, 1948.
Standards on Antennas: Methods of Testing, 1948.

PULSES:

Definitions of Terms, Part I, 1951.
Definitions of Terms, Part II, 1952.

RADIO RECEIVERS:

Methods of Testing Frequency-Modulation Broadcast Receivers, 1947.
Methods of Testing Amplitude-Modulation Broadcast Receivers, 1948.
Tests for Effects of Mistuning and for Downward Modulation, 1949.
Open Field Method of Measurement of Spurious Radiation from Frequency Modulation and Television Broadcast Receivers, 1951.

WAVE PROPAGATION:

Definitions of Terms Relating to Guided Waves, 1945.
Definitions of Terms, 1950.

TELEVISION:

Methods of Testing Television Transmitters, 1947.
Methods of Testing Television Receivers, 1948.
Definitions of Terms, 1948.
Methods of Measurement of Television Signal Levels, Resolution, and Timing of Video Switching Systems, 1950.
Methods of Measurement of Time of Rise, Pulse Width, and Pulse Timing of Video Pulses in Television, 1950.
Methods of Measurement of Electronically Regulated Power Supplies, 1950.

FACSIMILE:

Definitions of Terms, 1942.
Temporary Test Standards, 1943.

PIEZOELECTRIC CRYSTALS:

Recommended Terminology, 1945.
Standards on Piezoelectric Crystals, 1949.

TRANSDUCERS:

Definitions of Terms, 1951.

SYMBOLS:

Abbreviations, Graphical Symbols, Letter Symbols, and Mathematical Signs, 1948.
Designations for Electrical, Electronic, and Mechanical Parts and their Symbols, 1949.
Abbreviations of Radio-Electronic Terms, 1951.

RADIO AIDS TO NAVIGATION:

Definitions of Terms, 1949.

RAILROAD AND VEHICULAR COMMUNICATIONS:

Methods of Testing, 1949.

The Institute of Radio Engineers sponsored the publication of two standards of the American Standards Association, as follows:

AMERICAN STANDARDS:

Loudspeaker Testing. (ASA C16.4–1942.)
Volume Measurements of Electrical Speech and Program Waves. (ASA C16.5–1942.)

YEARBOOKS AND DIRECTORIES

The first YEARBOOK was published in 1914, the second in 1916 and then annually between 1926 and 1932. Yearbooks were then published in 1937, 1942, and 1946. With the 1948 Yearbook, annual publication was resumed. In 1950 its name was changed to "Directory."

AWARDS

The Institute annually bestows six awards in recognition of outstanding achievements in the theory, practice, or applications in the field of radio communication.

MEDAL OF HONOR

The Institute Medal of Honor is awarded for distinguished service rendered through substantial and important advancement in the science and art of radio communication. Recipient is named by the Board of Directors upon recommendation by the Awards Committee.

RECIPIENTS OF THE MEDAL OF HONOR

E. H. Armstrong	1917	Balth. van der Pol	1935
E. F. W. Alexanderson	1919	G. A. Campbell	1936
Guglielmo Marconi	1920	Melville Eastham	1937
R. A. Fessenden	1921	J. H. Dellinger	1938
Lee de Forest	1922	A. G. Lee	1939
John Stone Stone	1923	Lloyd Espenschied	1940
M. I. Pupin	1924	A. N. Goldsmith	1941
G. W. Pickard	1926	A. H. Taylor	1942
L. W. Austin	1927	William Wilson	1943
Jonathan Zenneck	1928	Haraden Pratt	1944
G. W. Pierce	1929	H. H. Beverage	1945
P. O. Pedersen	1930	R. V. L. Hartley	1946
G. A. Ferrié	1931	L. C. F. Horle	1948
A. E. Kennelly	1932	Ralph Bown	1949
J. A. Fleming	1933	F. E. Terman	1950
S. C. Hooper	1934	V. K. Zworykin	1951
W. R. G. Baker	1952		

Morris Liebmann Memorial Prize

The Morris Liebmann Memorial Prize carries a monetary award of varying amount, derived from the income of a $10,000 endowment fund. The fund was donated by E. J. Simon to preserve the memory of Colonel Morris N. Liebmann, who gave his life in the first World War. This prize is given annually to a member of the Institute who, in the opinion of the Board of Directors, upon the recommendation of the Awards Committee, shall have made an important contribution to the radio art.

RECIPIENTS OF THE MORRIS LIEBMANN MEMORIAL PRIZE

L. F. Fuller	1919	B. J. Thompson	1936
R. A. Weagant	1920	W. H. Doherty	1937
R. A. Heising	1921	G. C. Southworth	1938
C. S. Franklin	1922	H. T. Friis	1939
H. H. Beverage	1923	H. A. Wheeler	1940
J. R. Carson	1924	P. T. Farnsworth	1941
Frank Conrad	1925	S. A. Schelkunoff	1942
Ralph Bown	1926	W. L. Barrow	1943
A. H. Taylor	1927	W. H. Hansen	1944
W. G. Cady	1928	P. C. Goldmark	1945
E. V. Appleton	1929	Albert Rose	1946
A. W. Hull	1930	J. R. Pierce	1947
Stuart Ballantine	1931	S. W. Seeley	1948
Edmond Bruce	1932	C. E. Shannon	1949
Heinrich Barkhausen	1933	O. H. Schade	1950
V. K. Zworykin	1934	R. B. Dome	1951
F. B. Llewellyn	1935	William Shockley	1952

Browder J. Thompson Memorial Prize

The Browder J. Thompson Memorial Prize, established in 1945, is given annually to the author or joint authors under thirty years of age at date of submission of original manuscript for that paper of sound merit recently published in the technical publications of The Institute of Radio Engineers, and which, in the opinion of the Board of Directors, upon the recommendation of the Awards Committee, constitutes the best combination of technical contribution to the field of radio and electronics and presentation of the subject.

The award comprises the income from a fund established by voluntary contributions to preserve the memory of Browder J. Thompson, a Director of the Institute killed in action in World War II while on a special mission for the Secretary of War.

RECIPIENTS OF THE BROWDER J. THOMPSON MEMORIAL PRIZE

G. M. Lee	1946
C. L. Dolph	1947
W. H. Huggins	1948
R. V. Pound	1949
J. F. Hull and A. W. Randalls	1951
A. B. Macnee	1951
H. W. Welch, Jr.	1952

Harry Diamond Memorial Award

The Harry Diamond Memorial Award, established in 1949, is given annually to a person or persons in the Government service for outstanding contributions in the field of radio or electronics, as evidenced by publication in professional society journals such as the Proceedings of the I.R.E., or journals of similar standing. The award consists of a certificate provided for from the proceeds of a fund established by friends of Harry Diamond, a Fellow of the Institute, who felt that his professional life exemplified the highest type of scientific effort in government service. The recipient of the award is named by the Board of Directors upon recommendation of the Awards Committee.

RECIPIENTS OF THE HARRY DIAMOND MEMORIAL AWARD

A. W. Haeff	1950
M. J. E. Golay	1951
Newbern Smith	1952

Editor's Award

The Editor's Award, established in 1948 by the Board of Directors to stimulate the use of good English in technical writing, recognizes that author who, in the opinion of the Editor of the Proceedings, and upon the recommendation of the Awards Committee and the Board of Directors, submitted an outstanding paper from the standpoint of good presentation in general. It is administered by a subcommittee of the Awards Committee which functions as an advisory group to the Editor.

RECIPIENTS OF THE EDITOR'S AWARD

E. J. Barlow	1950
W. W. Harman	1951
Jerome Freedman	1952

Vladimir K. Zworykin Television Prize

The Vladimir K. Zworkykin Television Prize will be awarded annually for twenty (20) times beginning in 1952 to that member who shall have made either the most important technical contribution to electronic television during the preceding calendar year, or the importance of whose contribution to electronic television shall have been realized during the preceding calendar year.

The award consists of a citation and a check for $500 drawn from a fund of $10,000 donated to the Institute by Vladimir K. Zworykin to encourage outstanding technical developments in fully electronic television. The recipient of this award is named by the Board of Directors upon the recommendation of the Awards Committee.

B. D. Loughlin	1952

IRE HEADQUARTERS BUILDING

During the recent war, directors of the Institute were convinced The Institute of Radio Engineers was destined to remain one of the great engineering societies of the world. Pressed by the need for adequate headquarters space, a Building Fund campaign was launched to provide the Institute with a permanent home, expand the Institute facilities, and, thereby, create a closer union between radio engineers and their industry.

Over $600,000 was donated by Institute members and by the radio-electronic industry. The Institute purchased, in 1945, the building at the corner of 79 Street and Fifth Avenue in New York City as a permanent home.

The establishment, a showplace, provides offices for the headquarters staff, facilities for Institute activities and a dignified and impressive meeting place for members. Members of the Institute are always welcome to utilize these facilities, and to avail themselves of the services of the headquarters staff.

MEMBERSHIP REQUIREMENTS AND DUES

GRADE	AGE	EXPERIENCE* AND REFERENCES	ENTRANCE FEE	ANNUAL DUES
Fellow	32	Awarded only. No application permitted.	$3.00	$15.00
Senior Member	28	a. Radio engineer or scientist—eight years of active practice and important technical radio or allied work and shall have performed or taken responsibility for important engineering or scientific work in these fields for at least three of these years. b. College teacher for eight years and in responsible charge of radio or allied subjects for at least three years. c. Eight years of active practice, with contributions to radio or allied engineering fields. d. Executive for eight years with direct supervision of important radio engineering or allied work. e. A person regularly employed in radio or allied technical work for at least sixteen years, who, by experience and education, has attained a standing equivalent to that required for Senior Member under paragraph "a" and shall have performed or taken responsibility for important technical work in these fields for at least six years. References: Five Fellows, Senior Members, or other responsible individuals.	3.00	15.00
Special Member	32	Conferred only by invitation of the Board of Directors.	3.00	15.00
Member	24	a. Radio engineer or scientist—professionally competent and in active practice for three years. b. College teacher of radio or allied subjects for three years. c. A person regularly employed in radio or allied work for at least three years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Member under paragraph "a," or d. An executive who, for at least six years, has had under his direction important technical, engineering, or research work in radio or allied fields, or e. A person regularly employed in radio or allied technical work for at least six years, who, by experience and education, has attained a standing equivalent to that required for Member under paragraph "a." References: Four Fellows, Senior Members, Members, or other responsible individuals.	3.00	15.00
Associate	18	Interest in radio engineering or allied field. References: Three Fellows, Senior Members, Members, Associates, or other responsible individuals.	3.00	15.00 and 10.00[1]
Student[2]	—	College student pursuing regular 4-year engineering or science course leading to degree, or student enrolled in an approved technical institute. Reference: College Faculty Member.	—	5.00

* For more detailed information, see Bylaws, Sec. 1-5, p. 12.

[1] $10.00 for each year that is within the first five years of Associate membership, starting January 1, 1948. After five years the dues shall automatically be increased from $10.00 to $15.00. The five years are retroactive from January 1, 1948, and are based on either consecutive or intermittent membership.

[2] A special application blank is required for this grade. Upon the expiration of student status no entrance fee is required if immediate transfer is made to Associate grade.

THE INSTITUTE OF RADIO ENGINEERS

(Incorporated, August 23, 1913)

CONSTITUTION

Adopted at the First Meeting of The Institute of Radio Engineers, May 13, 1912.
Amended, November 2, 1914; December 5, 1915; October 7, 1931; March 1, 1939;
November 5, 1941; September 8, 1943; November 29, 1944; May 5, 1945;
December 15, 1945; June 27, 1946; July 30, 1946; and August 15, 1947.

ARTICLE I

NAME AND OBJECT

SEC. 1.—The name of this organization shall be The Institute of Radio Engineers, Incorporated.

SEC. 2—Its objects shall be scientific, literary, and educational. Its aims shall include the advancement of the theory and practice of radio, and allied branches of engineering and of the related arts and sciences, their application to human needs, and the maintenance of a high professional standing among its members. Among the means to this end shall be the holding of meetings for the reading and discussion of professional papers and the publication of papers, discussions, communications, and such other matters as may be appropriate for the fulfillments of its objects.

ARTICLE II

MEMBERSHIP

SEC. 1—The membership of the Institute shall consist of:

a. Fellows, who shall be entitled to all rights and privileges of the Institute.

b. Senior Members, who shall be entitled to all rights and privileges of the Institute.

c. Special Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President and Vice President.

d. Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President, Vice President, and Director.

e. Associates, who shall have such rights and privileges as are provided by the Bylaws. However, Associates who have maintained a continuous membership in this grade since March 1, 1939, shall have the right to vote and shall be entitled to all rights and privileges of the Institute except the right to hold any corporate office, the office of Director, and the chairmanships of standing Committees and of Sections.

f. Students, who shall have such rights and privileges as are provided by the Bylaws.

SEC. 2—The qualifications for the various grades of membership shall be specified in the Bylaws in accordance with the following principles:

a. Fellow is a grade of unusual professional distinction and shall be conferred only by invitation of the Board of Directors.

b. Senior Member is the highest professional grade for which application may be made and shall require experience or attainment reflecting professional maturity.

c. Special Member is a grade limited to those who have shown an interest in furthering the radio or allied arts and sciences and who have attained such position or prestige that by membership they shall advance the objectives of the Institute. This grade shall be conferred only by invitation of the Board of Directors.

d. Member is a professional grade limited to those who have demonstrated professional competence in radio or allied fields.

e. Associate grade shall be open to those interested in the theory or practice of radio engineering or the allied arts and sciences.

f. Student grade shall be open to those devoting a major part of their time as registered students in a regular course of study in engineering or science in a school of appropriate standing. Membership in this grade may extend a limited time after termination of student status.

SEC. 3—The requirements for admission, transfers, and severance of members shall be specified in the Bylaws.

SEC. 4—The term "allied" as used in this Constitution and Bylaws refers to electrical communication, electronics, and such other technical fields as are directly contributory to, or derived from radio.

SEC. 5—The terms "member" and "membership" when printed without an initial capital where used in this Constitution and Bylaws include all grades.

SEC. 6—The term "voting member" where used in this Constitution and Bylaws means a member entitled to vote on Institute matters.

ARTICLE III

DUES AND FEES

SEC. 1—Dues and fees shall be specified in the Bylaws.

SEC. 2—Under exceptional circumstances, the payment of fees and dues may be deferred or waived in whole or in part by the Board of Directors.

ARTICLE IV

OFFICERS AND DIRECTORS

SEC. 1—The governing body of the Institute shall be the Board of Directors and shall consist of the President, Vice President, Secretary, Treasurer, Editor, six Directors elected-at-large, three appointed Directors, one Regional Director elected by each Region, and the two most recent past Presidents.

SEC. 2—The Corporate Officers of the Institute shall be the President, Vice President, Secretary, Treasurer, and Editor.

SEC. 3—The terms of office for Directors elected-at-large shall be for three years; for appointed Directors, one year; for Regional Directors, two years; and for all Corporate Officers, one year, except as provided in Article VI, Section 1.

SEC. 4—Each year of a term of office established in Article IV shall begin with the assembly of the Board of Directors at its annual meeting and terminate with the assembly of the Board of Directors at its following annual meeting.

SEC. 5—No Corporate Officer or Director shall receive, directly or indirectly, any salary, traveling expenses, compensation, or emolument from the Institute, unless authorized by the Board of Directors or by the Bylaws.

SEC. 6—The United States and Canada, and other areas at the discretion of the Board of Directors, shall be divided into Regions, which shall be specified in the Bylaws. The Board of Directors shall delineate the Regions, make changes in the number of Regions, as it deems desirable, and number the Regions with consecutive numbers. The voting members of each Region shall elect one representative who shall thereby become a member of the Board of Directors and be designated a Regional Director.

ARTICLE V

MANAGEMENT

SEC. 1—The President shall be the regular presiding officer at meetings of the Board of Directors and at meetings of the Institute. He shall be an ex-officio member of each committee.

The Vice President shall assume the duties of the President in the absence or incapacity of the President.

In the event that neither the President nor the Vice President can personally act, the Board of Directors may elect a chairman from its membership who is authorized to perform the presidential duties during the period of the incapacity of the President and Vice President. The tenure of such temporary chairman shall be at the discretion of the Board of Directors.

SEC. 2—The Board of Directors shall manage the affairs of the Institute. An annual report on the activities and finances of the Institute shall be made to the members.

Eight members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefore shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two-thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation.

SEC. 4—The Secretary shall be responsible for the preparation for all meetings of the Board of Directors and all principal meetings of the Institute and the recording of the minutes of such meetings. He shall be responsible for the correspondence of the Institute and the keeping of full records thereof, and shall be responsible for the provision of such information from them as is requested by the Board of Directors.

SEC. 5—The Treasurer, under the control of the Board of Directors, shall have general supervision of the fiscal affairs of the Institute and shall be responsible for the keeping of the books of account. An annual audit of the affairs of the Institute shall be made by certified public accountants and submitted to the Board.

SEC. 6—All funds received by the Institute shall be deposited in an account requiring the signatures of at least two of the following for withdrawal: President, Vice President, Secretary, Treasurer, and Editor. Funds from this account may be deposited in other accounts authorized and limited in size by the Board of Directors. Funds from these accounts shall be withdrawable on the signatures of authorized bonded individuals for current disbursements. Before additional funds are transferred from the first-mentioned account to another account, the individuals responsible for such other accounts shall submit a statement of the disposition of the previously expended funds to the Treasurer.

SEC. 7—All committees shall be appointed by the Board of Directors or in such manner as the Board may designate.

SEC. 8—The fiscal year of the Institute shall end with the thirty-first day of December.

ARTICLE VI

NOMINATION, ELECTION, AND APPOINTMENT OF OFFICERS AND DIRECTORS

SEC. 1—On or before July first of each year, the Board of Directors shall submit to qualified voters a list of nominations containing at least one name each for the offices of President and Vice President, at least four names for the office of Director elected-at-large, the names of all nominees for the office of Regional Director, and shall entertain nominations by petition for all of the offices specified.

Nominations by petition may be made by letter to the Board of Directors setting forth the name of the proposed candidate and the office for which it is desired he be nominated. For acceptance a letter of petition must reach the Institute office before twelve o'clock noon on the last weekday prior to August fifteenth of any year and shall be signed by at least one hundred voting members qualified to vote for the office of the candidate nominated.

Each proposed nominee shall be consulted and if he so requests his name shall be withdrawn. The names of proposed nominees who are not eligible under the Constitution shall be withdrawn by the Board.

On or before September first, the Board of Directors shall submit to all voting members as of August fifteenth, a list of nominees for the offices of President, Vice President, and Director elected-at-large, and shall submit to all such voting members of each Region a list of their nominees for the office of Regional Director, the names of the nominees for each office being arranged in alphabetical order. The ballots shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Voting members shall vote for the candidates whose names appear on the list of nominees, by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. No ballots within unsigned outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office before twelve o'clock noon on the last weekday prior to October twenty-fifth shall be counted. Ballots shall be checked, opened, and counted under the supervision of the Tellers Committee between October twenty-fifth and the first Wednesday in November. The result of the count shall be reported to the Board of Directors at its next succeeding meeting and the nominees for President and Vice President, the two nominees for Director elected-at-large, and the nominees for each office of Regional Director receiving the greatest number of qualified votes shall be declared elected. In the event of a tie vote the Board shall choose between the nominees involved.

Nominees for the office of Regional Director shall be members of and live in the Regions which nominate them. They shall be elected by the voting members of the Institute in the Region. The Regional Directors from even- and odd-numbered Regions shall be chosen by the Regions in even- and odd-numbered years, respectively. In placing the Regional Representation Plan into operation, or when new Regions are established, or when changes are made in Regions, candidates for the office of Regional Director may be nominated and elected for one-year terms as required to ensure representation during the period preceding their normal election years. No Regional Director shall have his term shortened by changes in Regions. Each Region shall have a Regional Committee whose duties shall include making at least one nomination for Regional Director from its Region during election years. In the event a Regional Director dies, is unable to serve, or is disqualified by removal from the Region, the Regional Committee shall appoint a Regional Director for the unexpired portion of the term. The organization and procedure of the Regional Committees for nominating candidates for Regional Director shall be specified in the Bylaws.

SEC. 2—The Secretary, Treasurer, Editor, and three appointed Directors shall be appointed by the Board of Directors at its annual meeting to serve until the next annual meeting or until their successors are appointed and accept.

SEC. 3—The Board of Directors is authorized to fill a vacancy other than Regional Director occurring in the governing body.

ARTICLE VII

MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors during January of each year at which newly elected officers shall begin their terms of service, and the Board shall make necessary appointments.

SEC. 2—There shall be an annual meeting of the Institute as soon as practicable after the annual meeting of the Board of Directors at which reports of the Secretary and Treasurer shall be presented.

SEC. 3—Meetings of the Board may be held at such times as are necessary to carry out the provisions of this Constitution and shall be held at such other times as any five members of the Board may determine, but only on notice to all members of the Board. The method of calling such special meeting shall be specified in the Bylaws.

ARTICLE VIII

SECTIONS AND OTHER GROUPS

SEC. 1—The Board of Directors may authorize the establishment of Sections and other groups of members for the purpose of promoting the interests of the Institute. The Board of Directors may, at its discretion, terminate the existence of any such group.

ARTICLE IX

AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a resolution adopted by the Board of Directors or by means of a petition signed by at least one hundred voting members. Such proposed amendment or amendments shall be submitted to legal counsel by the Board of Directors, and if, in the opinion of such counsel, they are in accordance with the laws under which the Institute is organized, a copy shall be mailed with a ballot to each voting member.

SEC. 2—Constitutional amendment ballots shall be mailed to the voting members at least sixty days before the date appointed for counting the ballots and the ballots shall carry a statement of the time limit for their return to the Institute office. The ballots after marking shall be placed in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. Only ballots within signed outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office prior to the stated time limit shall be counted. The Tellers Committee shall count such votes and report to the Board of Directors at its next meeting. If the total vote be at least twenty per cent of the total voting membership and if at least sixty-seven per cent of all votes cast shall be favorable, the proposed amendment or amendments shall be immediately declared by the Tellers Committee to be adopted.

SEC. 3—Amendments shall take effect thirty days after their adoption but officers and officers-elect of the Institute at the time any amendment becomes effective shall continue in office until the end of the terms for which they were elected.

SEC. 4—Copies of the amendments shall be distributed to the members as soon as practicable after adoption.

SEC. 5—A complete history of amendments shall be kept in the files of the Institute.

BYLAWS

(As of May 7, 1952)

Article V, Section 3, of the Institute Constitution provides for Bylaws as follows:

"The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two-thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation."

MEMBERSHIP QUALIFICATIONS

SEC. 1—Fellow: The grade of Fellow shall be conferred only upon a person who is at least thirty-two years of age and who is:

a. An engineer or scientist in radio or allied fields. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio or allied work. He shall have been in the active practice of his profession for at least ten years, and shall have had responsible charge of important radio or allied work for at least three years, or

b. A professor of engineering or of physical science. As such he shall have attained special distinction as an expounder of the principles of engineering or of science in radio or allied fields. He shall have had at least ten years' experience as a teacher of electrical or physical subjects and shall have had responsible charge, or at least three years, of a course in radio or allied subjects in a school of recognized standing, or

c. A person who has done notable original work contributing to the advancement of engineering or science in radio or allied fields, which has given him a recognized standing at least equivalent to that required for Fellow under paragraph "a" or "b," or

d. A person regularly engaged in radio or allied work for at least ten years, who, by invention or contribution to the advancement of engineering or science in radio or allied field, or to the technical literature thereof, has attained a standing at least equivalent to that required for Fellow under paragraph "a" or "b."

SEC. 2—Senior Member: For admission or transfer to the grade of Senior Member, a candidate shall be at least twenty-eight years of age and shall be:

a. An engineer or scientist in radio or allied fields. As such he shall have been in the active practice of his profession for at least eight years, and shall have performed or taken responsibility for important engineering or scientific work in these fields for at least three of these years, or

b. A teacher of radio or allied subjects for at least eight years in a school of recognized standing. As such he shall have been in responsible charge of a major course in such subjects for at least three years, or

c. A person regularly employed in radio or allied fields for at least eight years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Senior Member under paragraph "a," or

d. An executive who, for at least eight years, has had under his direction important engineering or research work in radio or allied fields and who is qualified for direct supervision of the technical or scientific features of such activities, or

e. A person regularly employed in radio or allied technical work for at least sixteen years, who, by experience and education, has attained a standing equivalent to that required for Senior Member under paragraph "a" and shall have performed or taken responsibility for important technical work in these fields for at least six years.

SEC. 2-A—Special Member: The grade of Special Member shall be conferred only upon a person who is at least thirty-two years of age and who meets the requirements of the grade set forth in the Constitution. Proposals for election to the grade, together with supporting information, may be presented by a member of the Board of Directors at any meeting of the Board. After full consideration at a Board meeting, the proposal, unless withdrawn, shall be placed on the agenda for action at the next Board meeting. A favorable vote of at least two-thirds of the members of the Board present shall be required for election.

SEC. 3—Member: For admission or transfer to the grade of Member, a candidate shall be at least twenty-four years of age and shall be either:

a. An engineer or scientist in radio or allied fields. As such he shall have demonstrated competence in engineering or scientific work of a professional character and shall have been in active practice of his profession for at least three years, or

b. A teacher of radio or allied subjects for at least three years. As such he shall have attained a professional standing equivalent to that required for Member under paragraph "a," or

c. A person regularly employed in radio or allied work for at least three years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Member under paragraph "a," or

d. An executive who, for at least six years, has had under his direction important technical, engineering, or research work in radio or allied fields, or

e. A person regularly employed in radio or allied technical work for at least six years, who, by experience and education, has attained a standing equivalent to that required for Member under paragraph "a."

SEC. 4—Associate: For admission or transfer to the grade of Associate, a candidate shall be at least eighteen years of age and shall be interested in the theory or practice of radio engineering or of the allied arts and sciences.

SEC. 5—Student: For admission to the grade of Student, a candidate shall be

a. devoting a major portion of his time as a registered student in a regular course of study in engineering or science in a school of recognized standing, or

b. devoting a major portion of his time as a resident and registered student in a regular course of study in radio and electronics in a technical institute approved by the Board of Directors for Student membership purposes only.

Membership in this grade shall not extend more than six months beyond the termination of his student status as described above.

SEC. 6—The expression, "school of recognized standing," includes only schools which provide an engineering or scientific curriculum of not less than four years leading to a degree and which are designated as such by the Board of Directors.

SEC. 7—Graduation from a radio or allied curriculum in an accredited professional school shall be accepted as equivalent to two years' experience in radio or allied fields.

Graduation from a radio, arts and sciences or equivalent curriculum in an accredited non-professional school may be accepted as equivalent to two years' experience in radio or allied fields.

Graduation from an unaccredited radio or allied curriculum in a professional accredited school may be accepted as equivalent to one year's experience in radio or allied fields.

Full-time graduate work or part-time graduate work with teaching, in a radio or allied course in a school of recognized standing may be accepted as equivalent to professional experience.

SEC. 8—The time requirements for admission or transfer to any grade of membership may be satisfied by applying pro rata the experience of the candidate under the various alternative requirements for that grade.

SEC. 9—Members are authorized to assert Institute affiliation. In doing so, they should indicate their grade of membership and, if necessary, use the following abbreviations:

Fellow—Fellow I. R. E.
Senior Member—Sen. Mem. I. R. E.
Special Member—Spec. Mem. I. R. E.
Member—Mem. I. R. E.
Associate—Assoc. I. R. E.

SEC. 10—The emblem of the Institute is copyrighted and shall be reproduced only in connection with official business of the Institute.

MEMBERSHIP APPLICATIONS

SEC. 11—Applicants for membership shall furnish names of references as follows:

For Senior Member—Five Fellows or Senior Members.
For Member—Four Fellows, Senior Members, or Members.
For Associate—Three Fellows, Senior Members, Members, Associates, or other responsible individuals.
For Student—A member of the faculty of his school.

SEC. 12—When an applicant for Senior Member or Member shows that his work or location is such as to make impracticable compliance with Section 11, the names of persons who are familiar with his professional work may be substituted. The Admissions Committee shall exercise discretion in determining suitability of substitute references and waiving Section 11.

SEC. 13—Applications for admission or transfer to any grade of membership, except Fellow or Special Member, shall be addressed to the Board of Directors and submitted to the Institute office. Election or transfer of an applicant to any grade, except Fellow or Special Member, shall be made by two-thirds affirmative vote of the Board membership voting, or a two-thirds affirmative vote of a committee of Board members duly authorized in the Bylaws to act for the Board in electing members or transferring their membership grades.

SEC. 14—The Executive Committee is authorized to act for the Board of Directors in electing members or transferring their membership grades in the case of all except Fellow and Special Member grades, and may waive age, application, and reference requirements in the transfer of members in grade from Student to Associate. The Executive Committee shall handle readmissions on the basis of policies established by the Board of Directors.

SEC. 15—A reapplication for admission or transfer to a particular grade may be made by the applicant after the expiration of one year from the date of a rejection.

MEMBERSHIP PROPOSALS

SEC. 16—Admission or transfer to Fellow or Special Member grade shall be by invitation by the Board of Directors only.

SEC. 17—Each year, the Awards Committee shall recommend to the Board of Directors nominees for Fellow Grade not exceeding in number one-fifth of one per cent of the membership, excepting Students, as of December 31 of the year preceding. A citation summarizing the accomplishments of the nominee shall be a part of each recommendation.

SEC. 18—Diplomas shall be presented to the newly-elected Fellows. If practicable, this presentation shall be made by the President at the next annual Convention.

SEC. 19—Before the election of any candidate to the grade of Special Member, the Board of Directors shall refer the proposal to the Public Relations Committee for study. The Public Relations Committee shall make its recommendations, with respect to each name so referred, directly to the Board of Directors.

SEC. 20—Admission or transfer to any grade except Fellow or Special Member may be proposed by any member acting as sponsor, or by the Membership Committee, by supplying to the Admissions Committee sufficient information and testimonials from the required number of references to satisfy the Admissions Committee as to qualifications. Such proposals shall be acted upon by the Admissions Committee, and if approved, transmitted to the Executive Committee for their action. If approved by the Executive Committee, an invitation blank shall be sent to the proposed member inviting him to accept the grade of membership proposed, which membership grade shall become effective automatically and immediately upon his supplying the biographical and professional information required, and paying the necessary dues and fees. The name of an invitee shall be placed on the mailing list for the PROCEEDINGS OF THE I.R.E. immediately upon receipt of dues and fees. The proposal and invitation blanks shall be drawn up by the Membership Committee so as to avoid unconstitutional action due to the sponsor supplying incorrect information.

SEC. 21—The Membership Committee may recommend for transfer to higher grade those members who they think are qualified.

ADMISSIONS AND TRANSFERS

SEC. 22—The entrance fee for all grades shall be three dollars ($3) except that there shall be no entrance fee for Student grades.

SEC. 22A—No entrance fee shall be charged any non-I.R.E. member of a Joint Student Branch, who is a student member of another national engineering society which is a sponsor of the Joint Student Branch, and who applies for admission to membership in the Institute within six months of the termination of his student status.

SEC. 23—There shall be no transfer fees. A member whose grade of membership is changed during his annual dues period shall be billed pro rata for the remainder of that period.

SEC. 24—The name of every newly-admitted or transferred Senior Member, Special Member, Member, or Associate shall be published in the PROCEEDINGS OF THE I.R.E.

SEC. 25—When an applicant for membership is elected, the membership period shall be dated as of the first day of the month following election.

SEC. 26—The entrance fee and dues are payable on notification of election, and, if not received within six months from notification, the election shall be considered void.

SEC. 27—A notice of his election shall be sent to every newly admitted member together with a bill for his entrance fee and dues. If not previously paid, dues will be computed for the annual period beginning with the first day of the month following his election. His entrance fee or dues remaining unpaid, additional bills shall be sent the newly-elected member 60 days and 120 days

after notification of his election, in the last instance accompanied by a warning that his election will be considered void if his entrance fee and dues are not received within six months of his notification of election.

The names of all individuals elected to membership who fail to pay entrance fees or dues within six months of notification of election, shall be turned over to the Membership Committee.

ANNUAL DUES

SEC. 28—Every member's annual dues period and the period during which he shall receive publications of the Institute shall run concurrently with his membership period. The annual dues shall be payable in advance at the beginning of the annual dues period.

SEC. 29—For annual dues periods beginning January 1, 1951, or thereafter, the annual dues for all grades shall be fifteen dollars ($15), except for Student which shall be five dollars ($5), and except for Associate which shall be ten dollars ($10) for each year which is within the first five years of membership in any grade or grades other than Student. Beginning with the Sixth such year, the annual Associate dues shall be fifteen dollars ($15).

SEC. 30—The Board, by this Bylaw, waives the dues of each and every member of the Institute who has attained the age of 65 years and has been a member of the Institute for 35 years.

BILLING

SEC. 31—A bill covering his dues for the following year shall be mailed to every member not later than one month prior to the beginning of his annual dues period. A second bill shall be mailed after a lapse of two months to every member whose dues remain unpaid. There shall be mailed with the second bill a notice that, if the member's dues remain unpaid for four months, it shall be the duty of the Executive Secretary, in accordance with the Bylaws of the Institute, to notify the member that his membership has terminated.

After a member has been in arrears four months, his membership shall terminate and his name shall be removed from the roll of membership. Every such member shall be mailed a notice to the effect that, according to the Bylaws of the Institute, his membership in the Institute has in fact terminated. Accompanying the notice of termination shall be a final bill, with the suggestion that the member pay the bill and resume his membership. A list of terminated membership shall be turned over each month to the Membership Committee.

Membership so terminated may be resumed on payment of all dues in arrears, or on payment of a new entrance fee and current dues.

SEC. 32—For purposes of Article II, Section 1-e, of the Constitution, resumption of membership as provided under Bylaws Sections 31 and 36, shall not constitute maintenance of continuous membership.

SEC. 33—The mailing of bills or statements to the last known address of a member shall be considered a valid notice of indebtedness.

SEC. 34—On resuming membership and paying dues in arrears, a member may receive available copies of the PROCEEDINGS OF THE I.R.E. during the period covered by the back dues. A rebate of 25 cents per copy will be made in lieu of copies of the PROCEEDINGS OF THE I.R.E. not available.

SEVERANCES

SEC. 35—A member in good standing may resign by submitting a written resignation to the Secretary.

SEC. 36—Subject to the approval of the Board of Directors, a resigned member may resume his membership upon payment of current dues.

SEC. 37—To initiate action toward expulsion of a member, a written complaint must be submitted to the Board of Directors, which, if it deems the reason sufficient, shall notify the accused by letter of the charges against him and of the place and date of the hearing, which shall be at least twenty days away. The accused may present his defense in person, in writing, or by an authorized representative. There shall be a majority of the members of the Board of Directors present at the hearing and the votes cast must be unanimous in order to expel. The action of the Board of Directors shall be final and conclusive.

SEC. 38—The Secretary shall, as soon as possible after the end of each year, present to the Board of Directors a report giving the number of members of each grade at the close of the year, and the gains and losses in each grade of membership during the year as a result of elections, transfers, reinstatements, debts, resignations, failure to pay dues, and all other causes. This report shall also give the number of newly-elected members whose elections become void during the year through the failure to pay entrance fee and initial dues, and the number of newly-elected members who at the end of the year have not yet paid entrance fee and initial dues but whose election is still effective as of that date.

BOARD OF DIRECTORS

SEC. 39—The annual meeting of the Board of Directors required by the Constitution to be held during January of each year, shall be held in the office of the Institute in New York, N.Y. Scheduled meetings of the Board shall be held on the first Wednesday of May and of November, the place to be determined by the Board at the annual meeting in January, subject to change as provided for in Sec. 40 of the Bylaws. At the annual meeting, the Board shall determine the time and place of other scheduled meetings to be held throughout the year, subject to change as provided in Sec. 40 of the Bylaws.

SEC. 40—The time or place of any scheduled Board meeting may be altered or the meeting cancelled only by consent of a majority of all Board members not less than twenty days before the original date or the new date set for the meeting, whichever is the earlier. Notice of such approved change shall be given all Board members by mailing notice not less than ten days before the original or the new date, whichever is the earlier.

SEC. 41—As provided in the Constitution, special meetings of the Board of Directors may be called by any five members of the Board on notice to all other members. Notice of such special meeting, giving the time and place of meeting, the purpose of the meeting, and the names of the Board members calling the meeting shall be mailed to all Board members not less than twenty days before the date set for the special meeting. The place of such special meetings may be only the Institute office in New York, N.Y., unless otherwise authorized by a majority vote of all Board members.

EXECUTIVE COMMITTEE

SEC. 42—The Board of Directors, in managing the affairs of the Institute according to the Constitution, shall appoint a committee of Officers and members of the Board of Directors called the Executive Committee, to exercise powers and assume duties of executive management, to the extent that the Board of Directors directs, and as outlined in Bylaws, subject to the following limitations: that the Board may, by a majority vote of those present at any meeting, overrule any act or decision of the Executive Committee, except insofar as any act has in fact been carried out, or suspend at any meeting any power conferred upon the Executive Committee, such suspension to remain in effect pending repeal of the Bylaw conferring such power, or direct any action or plan of the Executive Committee.

SEC. 43—The President, the Secretary, the Treasurer, the Editor, and at least two other members of the Board of Directors shall comprise the Executive Committee. The President shall be Chairman, the Treasurer shall be Vice Chairman, and the Secretary shall be Secretary of the Executive Committee. The terms of appointments of all members of the Executive Committee, except the President, shall start with the first meeting of the Committee after appointment and shall continue notwithstanding any change in status on the Board until the first meeting of the succeeding Executive Committee.

SEC. 44—The Executive Committee shall appoint, direct and co-ordinate the work of all standing committees except the Appointments, Awards, Constitution and Laws, Executive, Nominations, Policy Advisory, and Tellers Committees.

SEC. 45—The Executive Committee shall prepare, and present an annual budget to the Board of Directors for approval.

SEC. 46—The Executive Committee shall be responsible for the management of the office of the Institute, which shall include special activities, technical activities, office operations, accounting, advertising, and publications, and the setting of salaries (with the exception of Officers' salaries) in all instances in the limits of the budget. Such activities as the Executive Committee shall direct shall be administered by the Executive Secretary. The salary of the Executive Secretary shall be determined by the Executive Committee.

SEC. 47—The Executive Committee shall set dates and locations of conventions, conferences, and meetings of the Institute and shall manage them.

SEC. 48—The Executive Committee shall supervise the formation and operation of Sections, Professional Groups, and other groups of members and propose their approval to the Board of Directors.

SEC. 49—The Executive Committee shall direct and manage Institute standardization activities including relations with other organizations.

SEC. 50—The Executive Committee may divide its duties and responsibilities among its members as it sees fit and conduct its business as it finds necessary, and shall formulate a "Code of Administrative Practice."

SEC. 51—Minutes of the meetings of the Executive Committee shall be mailed to the members of the Board of Directors.

SEC. 52—In addition to its other duties, the Executive Committee is charged with broadly considering Institute policies, and making appropriate recommendations to the Board of Directors on its own initiative.

NOMINATIONS

SEC. 53—The Secretary shall circularize all Section chairmen and secretaries before March first of each year requesting the submission of suitable names to be considered by the Nominations Committee for the various elective offices.

SEC. 54—The Nominations Committee shall submit more than one name for each elective office.

SEC. 55—The Nominations Committee shall transmit its list of proposed nominees to members of the Board of Directors at least one week before the date at which the Board is expected to act upon them.

SEC. 56—When the Board of Directors has not scheduled a meeting to be held between August 14 and September 1 of each year, the Executive Committee is authorized to take any necessary actions on any petitions and to approve the ballot.

REGIONS

SEC. 57—The United States and Canada shall be divided into Regions, as follows: (1) North Atlantic, (2) North Central Atlantic, (3) Central Atlantic, (4) East Central, (5) Central, (6) Southern, (7) Pacific, (8) Canadian.

Regions which fail to maintain reasonable activity may, at the discretion of the Board of Directors, be dissolved and the Sections may be absorbed into other Regions.

SEC. 58—The Regional Committee of each Region normally shall consist of the Regional Director, the junior past Regional Director, and the chairman and junior past chairman of each Section in the Region. In addition to the duties specified in the Constitution, the Regional Committee shall be expected to participate in the development of the Institute by means of suggestions, on national matters, to the Board of Directors, and on Regional and Sectional matters, to the Sections comprising the Region. Each member of the Regional Committee shall be, ex-officio, a member of the Executive Committee of his own Section.

SEC. 59—Pending installation of the first Regional Director of each Region, the chairman of the largest Section numerically in the Region shall act as chairman pro tem, and the chairman pro tem shall appoint a secretary-treasurer pro tem who shall act until the secretary-treasurer of the Regional Committee is appointed.

The Regional Director shall be chairman of the Regional Committee and shall appoint a vice chairman from the membership of the committee. The chairman of the Regional Committee shall appoint a secretary-treasurer from members of the Region for a two year term concurrent with that of the chairman. The duties of the secretary-treasurer shall include correspondence, the keeping of the minutes of the committee meetings, mailing notices, handling of funds, the keeping of financial records and the submission of a report at the end of each year, and such other duties as are assigned to him by the chairman. The secretary-treasurer shall not be a voting member of the committee.

SEC. 60—Each Regional Committee shall submit to the Board of Directors by May first of the Regional election year, the names of at least one qualified nominee for the office of Regional Director. To qualify, each candidate shall indicate to the Regional Committee his acceptance of the nomination.

SEC. 61—Each member of the Regional Committee shall be of Member, Special Member, Senior Member, or Fellow grade in the Institute. Vacancies, except for Regional Director, shall be filled by appointment by the Executive Committee of the Section in which the vacancy exists. The term of office shall be one year concurrent with the term of office of the Section officers.

SEC. 62—The Regional Committee shall hold at least one meeting per year at which a quorum shall be necessary for the transaction of business of the Committee. A quorum shall consist of at least one-third of the members of the Committee and shall include representatives from at least half the Sections in the Region. The Chairman, or in the event of his unavailability, the vice chairman of the Regional Committee, shall be responsible for calling the necessary number of Regional Committee meetings.

SECTIONS

SEC. 63—A petition for the formation of a Section shall be signed by not fewer than twenty-five (25) members, other than Students, with mailing addresses within the territorial limits proposed in the petition.

SEC. 64—The Executive Committee, upon receipt of a petition to form a Section, and after arranging for the territory to be encompassed by the new Section, may authorize its formation. After the Section is organized and a Constitution adopted, the Executive Committee may give tentative approval to its establishment pending submission to the Board of Directors for final approval.

SEC. 65—Each Section authorized by the Executive Committee, shall within not more than six months thereafter accept and conform to a Constitution provided by the Executive Committee.

SEC. 66—No Section or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 67—Section Secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Section and its Subsections for the presentation or discussion of papers, and at the end of each fiscal year, a financial statement for that fiscal year.

SEC. 68—Local non-compulsory financial contributions may be accepted by Sections.

SEC. 69—All Sections shall be exclusively those of the Institute. No joint Section shall be recognized. However, Sections of the Institute may cooperate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to their meetings.

SEC. 70—Failure of a Section to maintain the required activities which shall include the holding of at least five meetings each year and also the maintenance of a minimum membership of twenty-five (25) members, other than Students, shall place the Section on probation. All members of the Section shall be informed of the probation by the Secretary of the Institute, who shall also call to their attention the requirements for maintaining the Section.

If the delinquency continues for a second year, a second notification to the Section membership shall be made by the Institute Secretary, and the Board of Directors shall be informed of the probationary status of the Section.

If the delinquency continues for a third year, the Section shall,

thereupon, automatically be dissolved. The Secretary shall so report to the Board of Directors and so inform the Section membership.

The Board of Directors is authorized to waive, in whole or in part, the application of this Bylaw for the duration of war and six months thereafter.

SEC. 70-1—For section maintenance, the Institute shall pay to each Section for each calendar year the following sums:

One dollar and ten cents ($1.10) for each member, except Students, up to and including seven hundred, and one dollar and twenty-five cents ($1.25) for each member, except Students, over seven hundred, with mailing addresses within the territory of the Section, on December 31st of the calendar year for which payment is made, plus ten dollars ($10) per meeting for not more than ten meetings of the Section within the calendar year.

SUBSECTIONS

SEC. 70-2—In conformance with the Constitution for Sections, Sections may establish Subsections, which shall be geographical subdivisions of such Sections, subject to the same limitations and control as the Section itself.

SEC. 70-3—For each Subsection which meets the following requirements, the Institute shall pay to the Section a meeting allowance of ten dollars ($10) per meeting up to a maximum of five (5) meetings per year, during the time the Subsection remains in good standing according to the Constitution for Sections:

(a) Submission to Parent Section Executive Committee of a petition signed by twenty (20) or more members other than Students, with mailing addresses within the proposed territory;

(b) Approval of the petition by the Parent Section Executive Committee;

(c) Notification of Institute Headquarters of these actions by Parent Section and its Executive Committee with a copy of the petition;

(d) Approval by the Executive Committee of the Institute.

PROFESSIONAL GROUPS

SEC. 70-A—A petition for the formation of a Professional Group shall be signed by not fewer than twenty-five (25) members, other than Students, and shall state the proposed field of interest.

SEC. 70-B—The Executive Committee, upon receipt of a petition to form a Professional Group, may authorize its formation. After the Group is organized and a Constitution approved by the Executive Committee, the Executive Committee may give tentative approval to its establishment pending submission to the Board of Directors for final approval.

SEC. 70-C—Each Professional Group authorized by the Executive Committee shall within not more than six months thereafter adopt and conform to a Constitution which shall have been submitted to and approved by the Executive Committee. A Group Constitution may be amended by the Group subject to the approval of the Executive Committee.

SEC. 70-D—All Professional Groups shall consist exclusively of members of the Institute. No joint Professional Groups shall be recognized. However, Professional Groups of the Institute may co-operate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to their meetings.

SEC. 70-E—No Professional Group or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 70-F—A Professional Group may not charge dues. A Group may hold or join in holding conventions or conferences and may charge for registration; but a Group may not charge for registration at a meeting, conference, or convention which it operates as part of an Institute, Section, Regional, or National meeting, conference, or convention. A Group may, but only after approval of the Executive Committee, make a charge for sending out notices to non-Group members to cover the extra expenses involved. A Group may raise revenues by other means approved by the Executive Committee.

SEC. 70-G—All members of the Institute may become members of Professional Groups in conformance with the respective Group Constitutions.

SEC. 70-H—All Professional Group meetings shall be open to all members of the Institute on an equal basis with Group members. Any member of the Institute, upon payment of charges judged to be equitable by the Executive Committee, shall receive any notices of meetings of any Group.

SEC. 70-I—All publications of Professional Groups, other than programs, notices, and the like, shall be subject to prior authorization of the Executive Committee, and shall be made available to all Institute members on an equitable basis approved by the Executive Committee.

SEC. 70-J—The Secretary-Treasurer of each Professional Group shall forward to the Secretary of the Institute a copy of each meeting notice of the Group, an annual report, and at the end of each Institute fiscal year a financial statement for that fiscal year.

SEC. 70-K—The Board of Directors may dissolve a Professional Group for any reason deemed sufficient by the Board of Directors.

STUDENT BRANCHES

SEC. 71—Upon receipt of a petition signed by a representative ot the faculty and by fifteen (15) or more IRE members who are students in a school of recognized standing, the Executive Committee may authorize the establishment of an IRE Student Branch in that school.

SEC. 72—Each IRE Student Branch shall adopt and conform to a Constitution which shall have been submitted to, and approved by, the Executive Committee.

SEC. 73—Upon receipt of a petition signed by a representative of the faculty and by ten (10) or more IRE members who are students in a school of recognized standing, the Executive Committee may join with one or more other national engineering or technical societies to co-sponsor a Joint Student Branch in that school.

SEC. 73-A—Each Joint Student Branch shall adopt and conform to a constitution which shall have been submitted to, and approved by, both the IRE Executive Committee and the other co-sponsoring societies. A Joint Student Branch shall have among its officers at least a corresponding secretary who shall be a member of the IRE.

SEC. 74—No IRE Student Branch or Joint Student Branch or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 75—Each IRE Student Branch and Joint Student Branch corresponding secretary shall forward to the Secretary of the Institute a report of each meeting held by the Branch for the presentation or discussion of papers, and during June of each year, a financial statement for the preceding year.

SEC. 76—An IRE Student Branch or Joint Student Branch may collect dues from its members as provided in its constitution and, in addition, may accept local noncompulsory financial contributions.

SEC. 77—Failure of an IRE Student Branch or Joint Student Branch to maintain a minimum of ten (10) IRE members and to hold at least three (3) meetings each year shall place the Branch on probation. All officers and Institute representatives of the Branch shall be informed of the probation by the Secretary of the Institute, who shall also call to their attention the requirements for maintaining the Branch. If the delinquency continues for a second year, the IRE sponsorship shall automatically be withdrawn. The Secretary shall so report to the Board of Directors and so inform the officers of the Branch and Institute representative.

SEC. 78—For maintenance of an IRE or Joint Student Branch upon certification by the Institute Representative, or, in the event one has not been appointed, by a representative of the faculty, expenses of the Branch up to and including a maximum of twenty-five dollars ($25) for any one school year shall be defrayed by the Institute.

SEC. 79—The Board of Directors may dissolve an IRE Student Branch, or withdraw its sponsorship and support of a Joint Student Branch, for any reason deemed sufficient by the Board of Directors.

COMMITTEES AND REPRESENTATIVES

SEC. 80—The standing committees, each of which shall normally consist of five or more persons, shall include the following:

Administrative Committee of the Board of Editors
Admissions
Appointments
Awards
Board of Editors
Constitution and Laws
Education
Executive Committee of the Board of Directors
Finance
Membership
Nominations
Papers Review
Policy Advisory
Professional Groups
Public Relations
Sections
Tellers
Annual Review
Antennas and Wave Guides
Audio Techniques
Circuits
Electroacoustics
Electron Devices
Electronic Computers
Facsimile
Industrial Electronics
Information Theory and Modulation Systems
Measurements and Instrumentation
Mobile Communications Systems
Navigation Aids
Piezoelectric Crystals
Radio Transmitters
Receivers
Research
Servo-systems
Sound Recording and Reproducing
Standards
Symbols
Television Systems
Video Techniques
Wave Propagation

On matters which are reasonably described by the committee names, these committees or boards shall be advisory to the Board of Directors, or the Executive Committee, whichever appoints them and directs their activities. Each committee or board shall have the power to create subcommittees of its own selection.

SEC. 81—The terms of appointments to the Administrative Committee of the Board of Editors, Admissions, Awards, Board of Editors, Constitution and Laws, Education, Finance, Membership, Nominations, Papers Review, Policy Advisory, Professional Groups, Public Relations, Sections, and Tellers Committees shall start with the first day of the month following appointment and continue until the date the succeeding terms of appointments take effect. Appointments shall be made to the following committees: Annual Review, Antennas and Wave Guides, Audio Techniques, Circuits, Electroacoustics, Electron Devices, Electronic Computers, Facsimile, Industrial Electronics, Information Theory and Modulation Systems, Measurements and Instrumentation, Mobile Communications Systems, Navigation Aids, Piezoelectric Crystals, Radio Transmitters, Receivers, Research, Servo-systems, Sound Recording and Reproducing, Standards, Symbols, Television Systems, Video Techniques and Wave Propagation, each year between January first and May first, and the terms of appointment shall be from May first of the year when the appointments are made until April thirtieth of the following year; additional appointments may be made to fill vacancies or to care for special cases as the need arises, with the term of the appointment expiring April thirtieth.

SEC. 82—The Membership Committee shall include each Regional Director and the Chairman of the Membership Committee of each Section, ex-officio.

SEC. 83—The Sections Committee shall include the Chairman of each Section, ex-officio.

SEC. 83-A—The Committee on Professional Groups shall include the Chairman of each Professional Group, ex-officio.

SEC. 83-B—The Chairman of the Finance Committee shall be chosen from among the members of the Executive Committee.

SEC. 83-C—The Public Relations Committee shall include the Chairman of each Section Publicity Committee, ex-officio.

SEC. 83-D—The Policy Advisory Committee shall consist of eight (8) members, appointed annually, all of whom shall be present or former members of the Board of Directors. At least half of the members, including the Chairman, shall be members of the then present Board of Directors. Each year, at least four (4) of the members shall be re-appointed.

SEC. 84—The Appointments Committee shall be appointed by the Board of Directors at its regular November meeting. Its membership shall be chosen from those members of the Board of Directors whose terms continue through the following year and from the new Directors-elect, and shall include the President-elect. At least fourteen days before the next annual meeting of the Board of Directors, the Appointments Committee shall mail to the members of the new Board of Directors, a list of candidates for the offices of Secretary, Treasurer, Editor, and Appointed Directors, and a list of candidates to fill vacancies that exist among the Chairmen and members of the Awards, Constitution and Laws, Executive, Nominations, Policy Advisory, and Tellers Committees.

SEC. 85—The Treasurer shall make a report to the Executive Committee semi-annually at the September and March Executive Committee meetings concerning the status of the Institute's investments. The Treasurer, before making changes in the Institute's portfolios, shall report the proposed changes to the Executive Committee and obtain its approval.

SEC. 85-A—The Building Fund established by action of the Board of Directors on January 10, 1945, shall be maintained as an entity on the books of the Institute. All income derived from the Building Fund shall be transferred quarter-annually to the account of the Institute for general purposes. The principal of the Building Fund in whole or in part from time to time may be appropriated by the Board of Directors for the purpose of providing for the housing of the general activities of the Institute, and for no other purpose unless authorized by affirmative vote of two-thirds of all the members of the Board of Directors at a stipulated meeting and unless the proposal of authorization and reasons therefor shall have been mailed to all members of the Board at least thirty days before the stipulated meeting at which the vote shall be taken.

SEC. 86—The President is authorized to appoint teachers of science or engineering who are Institute members as Institute Representatives. Each such Institute Representative is charged with promoting the welfare of the Institute at his school particularly in matters relating to Student membership.

SEC. 87—The Board of Directors may appoint or direct the appointment of representatives of the Institute on joint committees, boards, and other local, national, and international bodies.

PUBLICATIONS

SEC. 88—The Institute shall publish a periodical under the title, PROCEEDINGS OF THE I.R.E. The Board of Directors may establish additional publications either periodical or otherwise in character.

SEC. 89—The Executive Secretary is authorized to accept orders received after April 1, 1948, for annual subscriptions to, or individual copies of, the PROCEEDINGS OF THE I.R.E., at the following rates, including postage:

Annual Subscriptions

	U. S. and Canada	*Other Countries*
Individual non-members	$18.00	$19.00
Public Libraries	13.50	14.50
Colleges	13.50	14.50
Subscription Agencies	13.50	14.50
Institute members, additional subscriptions	9.00	10.00

Individual Copies

Individual non-members	$ 2.25	$ 2.35
Public Libraries	1.65	1.75
Colleges	1.65	1.75
Subscription Agencies	1.65	1.75
Institute members, additional copies	1.00	1.10

SEC. 90—The price of a single annual subscription to the PROCEEDINGS OF THE I.R.E. for a Fellow, Senior Member, Special Member, Member, or Associate shall be $9.00, to be included in his annual dues.

MEMBERSHIP LISTS

Including

BIOGRAPHIES OF FELLOWS

AND

AN ALPHABETICAL LISTING (ROSTER)

NOTE

In the following pages are set forth the names of the members of The Institute of Radio Engineers. These have been disposed under two headings, as follows:

Biographies of Fellows; a list of all Fellows, with a short biographical note on each.

Membership Roster; a complete listing of all members (not including Students) on record as of May 15, 1952; giving membership grades, business affiliations, and home addresses.

All listings include appointments and elections up to May 15, 1952.

In the Roster the following symbols indicative of grade are used, along with numerals indicating the year of admission to that grade:

(F) *Fellow*
(SM) *Senior Member*
(M) *Member*
(A) *Associate*
(VA) *Voting Associate.* Those who were Associates on or before March 1, 1939, automatically became Voting Associates as of that time.
(S) *Student*
(J) *Junior.* This grade no longer exists.

The Board of Directors waives the dues of all members who have attained the age of 65 years and who have been members of the Institute for 35 years. The following symbol is used to indicate this status:

(L) *Life Member*

BIOGRAPHIES OF FELLOWS*

(As of May 15, 1952)

ACHESON, Marcus A. (A'36—M'37—F'41), Staff Engineer, Sylvania Electric Products, Inc., 83-30 Kew Gardens Rd., Kew Gardens 18, L.I., N.Y.
Born: January 18, 1903, Denison, Tex. B.S.(E.E.), 1924, Rice Institute, Houston, Tex. Committees: Papers, 1937; Papers Review, 1951-52.

ADAIR, George P. (A'42—SM'44—F'47), Consulting Radio Engineer, 1833 M St., N.W., Washington 6, D.C.
Born: December 8, 1903, Rancho, Tex. B.S.(E.E.), 1926, Agricultural and Mechanical College of Texas. Sections: Washington, *secretary, 1946; vice-chairman, 1947; chairman, 1948.* Mid-Atlantic Regional, *vice-chairman, 1948.* Life Honorary Member, International Municipal Signal Association, 1944; Tau Beta Pi, 1949.

ADLER, Robert (A'42—SM'47—F'51), Research Engineer, Zenith Radio Corporation, 6001 W. Dickens Ave., Chicago, Ill.
Born: December 4, 1913, Vienna, Austria. Ph.D., 1937, University of Vienna. Committees: Modulation Systems, 1948-50.

AFFEL, Herman A. (A'14—M'40—SM'43—F'49), Vice-President, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August, 1893, Brooklyn, N.Y. S.B., 1914, Massachusetts Institute of Technology. Committees: Meetings and Papers, 1930; New York Program, 1939, *chairman, 1940,* 1941; Papers, 1931-45; Papers Review, 1946-52. Modern Pioneers Award, National Association of Manufacturers, 1940.

ALBERT, Arthur L. (A'31—SM'47—F'50), Professor of Communication Engineering, Department of Electrical Engineering, Oregon State College, Corvallis, Ore.
Born: March 13, 1899, Forest Grove, Ore. B.S., 1923, M.S., 1926, E.E., 1938, Oregon State College, Corvallis, Ore. Committees: Membership, 1947-48. Institute Representative: Oregon State College, 1942-52. Fellow, AIEE, 1941.

ALEXANDERSON, Ernest F. W. (A'13—M'13—F'15) (L'49), Consulting Engineer, General Electric Company, 1 River Rd., Schenectady, N.Y.
Born: January 25, 1878, Uppsala, Sweden. E.E., 1900, Royal Technical University, Stockholm, Sweden; Sc.D., 1926, Union College, Schenectady, N.Y.; Ph.D., 1938, Uppsala University, Uppsala, Sweden. President, 1921; Vice-President, 1920; Manager 1917-19; Director, 1920-23. Committees: Meetings and Papers, 1928; Standardization, 1916-23; Wave Length Regulation, 1916-19. John Ericsson Gold Medal, American Society of Swedish Engineers, 1944; Edison Medal, American Institute of Electrical Engineers, 1944; Cedergren Gold Medal, Royal Swedish Technical University, 1944; Valdemar Poulsen Gold Medal, Royal Danish Technical University, 1947.

ALFORD, Andrew (A'35—M'40—F'42), Consulting Engineer, 299 Atlantic Ave., Boston 10, Mass.
Born: August 5, 1904, Samara, Russia. A.B., 1924, University of California, Berkeley, Calif. Committees: Annual Review, 1944-45; Antennas, *chairman, 1944-45,* 1946-49; Papers Procurement, 1947-50; Radio Transmitters, 1944-45; Standards, 1944-45, Transmitters and Antennas, 1943-44. President Certificate of Merit, 1948.

ANDERSON, Clifford N. (A'19—F'34), Technical Staff, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: September 22, 1895, Scandinavia, Wis. Ph.B., 1919, M.S., 1920, University of Wisconsin, Madison, Wis. Committees: Admissions, 1930-31; New York Program, 1932; Sections, 1941-44; Tellers, 1932-33.

APPLETON, Edward V. (A'26—F'31), Principal and Vice-Chancellor, The University of Edinburgh, Edinburgh, Scotland.
M.A., D.Sc., LL.D., F.R.S. Morris Liebmann Memorial Prize, 1929. Vice-President, 1932; Director, 1932. Committees: Meetings and Papers, 1929; Wave Propagation, 1937-38.

ARMSTRONG, Edwin H. (A'14—F'27), Professor of Electrical Engineering, Columbia University, 206 Philosophy Hall, New York 27, N.Y.
Born: December 18, 1890, New York, N.Y. E.E., 1913, D.Sc., 1929, Columbia University, New York, N.Y.; D.Sc., 1941, Muhlenberg College; D.Sc., 1948, Laval University. Medal of Honor, 1917. Manager, 1916-22; Director, 1936-38. Committees: Admissions, 1926; Awards, *chairman, 1936;* Frequency Modulation, 1941; Nominations, 1940; Radio Receivers, 1936-41; Receiving Sets, 1927; Standardization, 1917-21, 1924-26; Tellers, *chairman, 1937;* Wave Length Regulation, 1916-19. Washington Award, 1951, Washington Award Commission, Western Society of Engineers.

ASHBRIDGE, Sir Noel (F'38), Director of Technical Services, British Broadcasting Corporation, Broadcasting House, London, W. 1, England.
Born: December 10, 1889, Wanstead, Essex, England. B.Sc. (Engineering), 1911, King's College, London University. Vice-President, 1947. Fellow of King's College, London; Knight of Royal Order of Dannebrog (Danish), 1934; Knighted, 1935; James Watt Medal, The Institution of Civil Engineers, 1937; President, The Institution of Electrical Engineers, 1941-42; President, Junior Institution of Engineers, 1949-50; Faraday Medal, 1949. MICE; MIEE.

AUSTIN, Arthur O. (F'30), Manufacturing Engineer, Box 109, Barberton, O.
Born: December 28, 1879. Stockton, Calif. A.B., 1903, Stanford University, Stanford, Calif.

BAILEY, Austin (A'25—M'25—F'36), Telephone Engineer, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y.
Born: June 9, 1893, Lawrence, Kan. A.B., 1915, University of Kansas, Lawrence, Kan.. Ph.D., 1920, Cornell University, Ithaca, N.Y. Director, 1940-42. Committees: Admissions, 1934, *chairman, 1935;* Awards, 1945, 1949; Constitution and Laws, 1932-34, 1936-42, *chairman, 1942,* 1944-45; Convention Policy, 1947-50; Membership, 1941; National Convention, 1947-51; New York Program, 1930, *chairman, 1931,* 1932-34, 1937, *chairman, 1938,* 1939-40. Sections, 1929, *chairman, 1930, 1931-33;* Tellers, *chairman, 1939,* 1940; Winter Technical Meeting, *chairman, 1945,* 1946; Professional Group on Vehicular Communications, Adminstrative Committee, 1949, *chairman, 1950-52;* Professional Groups, *vice-chairman, 1952.* Institute Representative: ASA Sectional Committee on Graphic Symbols and Abbreviations for Use on Drawings, 1940-51; Sectional Committee on Standards for Drawings and Drafting Room Practices, 1940-51.

BAILEY, Stuart L. (A'28—M'36—SM'43—F'43), Partner, Jansky and Bailey, 1339 Wisconsin Ave., N.W., Washington 7, D.C.
Born: October 7, 1905, Minneapolis, Minn. B.S. (E.E.), 1927, M.S. 1928, University of Minnesota, Minneapolis, Minn. President, 1949; Treasurer, 1948; Director, 1943-52. Committees: Admissions, 1943-44; Appointments, 1948; Awards, 1950-52; Broadcasting, *alternate, 1931-32,* 1934; Constitution and Laws, 1944, 1948, 1951; Executive, 1945-47, *vice-chairman, 1948, chairman, 1949,* 1950-51; Finance, 1948, 1950-51; Nominations, *chairman, 1946,* 1947-52; National Convention, 1947-48; Office Practices, 1947; Planning, 1947; Policy Development, 1948, 1951; Professional

*In listing membership on committees, years during which members served as chairmen or as other officers are indicated by italics.

Groups, 1950; Public Relations, *alternate, 1945-46,* 1950; Radio Wave Propagation, 1942-45; Radio Wave Propagation and Utilization, 1945-47; Sections, 1946-47; Special Publication Fund, 1947; Wave Propagation, 1937-41, 1948-52; Winter Technical Meeting, 1946. Institute Representative: IRE-RMA Co-ordination Committee, 1949; U.S.A. National Committee, URSI, 1949-51; Executive Council, Central Radio Propagation Laboratory, 1949-51; Joint AIEE-IRE Co-ordination Councillor, 1950, 1951; Joint Technical Advisory Committee, 1949-51.

BAKER, W. R. G. (A'19—F'28), Vice-President in Charge of Electronics, General Electric Company, Electronics Park, Syracuse 1, N.Y.
Born: November 30, 1892, Lockport, N.Y. B.E., 1916, M.E.E., 1918, D.S. (Honorary), 1935, Union College, Schenectady, N.Y.; Dr. Engineering (Honorary) 1951, Syracuse University. President, 1947; Director, 1940; 1946-52, Standards Co-ordinator; 1948-50, Treasurer; 1951-52. Committees: Admissions, 1941; Annual Review, 1948; Appointments, 1948; Awards, 1940; Broadcasting, 1935; Executive, *chairman, 1947,* 1948-52, *vice-chairman, 1951,* 1952. Finance, *chairman, 1948-52;* Meetings and Papers, 1926, *alternate, 1928,* 1929; Membership, 1928; Nominations, 1930, 1948; Nuclear Studies, *chairman, 1948,* 1949; Policy Development, 1948; Preparedness, 1940-41; Professional Groups, *chairman, 1950-52;* Public Relations, 1950; Sections, 1931-32; Standardization, 1925; Sub-committee on Power Supply, 1928; Standards, 1938-40, 1948-49; Sections, Connecticut Valley, *secretary, 1938-40;* Philadelphia, *chairman, 1930-31;* Institute Representative, ASME Review Board, 1948-51.

BALDWIN, Millard W., Jr. (A'40—SM'45—F'48), Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December 1902, Port Ewen, N.Y. E.E., 1925, Cornell University, Ithaca, N.Y.; M.A., 1928, Columbia University, New York, N.Y. Committees: Special Television Test Methods, 1940; Facsimile, 1941; Methods of Testing Television Transmitters, 1945-47; Standards, 1949-50; *vice-chairman, 1951, 1952;* Television, 1948; Television Definitions, 1945-48; Television Systems, 1949-51; Television Co-ordination Subcommittee, *chairman, 1949;* Video Techniques, 1949-51.

BARNES, John L. (A'27—SM'44—F'52), Associate Director, Electro-Mechanical Engineering Dept., North American Aviation, Inc., Downey, Calif.
Born: October 16, 1906, Haddonfield, N.J. B.S., and S.M., in E.E., 1929, Massachusetts Institute of Technology, Cambridge, Mass.; A.M., Ph.D., 1934, Princeton University, Princeton, N.J. Committees: Technical on Wave Propagation, 1942-52, Papers, 1948-49.

BARROW, Wilmer L. (A'28—VA'39—M'40—F'41), Chief Engineer, Sperry Gyroscope Company, Division of the Sperry Corporation, Great Neck, L.I., N.Y.
Born: October, 1903, Baton Rouge, La. M.S., 1929, Massachusetts Institute of Technology, Cambridge, Mass.; Sc.D., 1931, Technische Hochschule, Munich, Germany. Morris Liebmann Memorial Prize, 1943. Director, 1943-45. Committees: Antennas, 1945-47; Awards, 1944-45, 1948, 1949; Board of Editors, 1946-52; Constitution and Laws, 1943-44; Executive, 1945; Nominations, 1943, 1949; Papers, 1941-45; Papers Procurement, 1942-43; Professional Groups, 1948; Regular Papers, 1941; RMA-IRE Coordinating, 1948; Research, 1946-47, 1949; Standards, 1938-41; Wave Guides, 1943-44; Wave Propagation, 1941. Sections: Boston, *chairman, 1939-41.* Institute Representative: Radio Technical Planning Board, *alternate, 1944-45,* 1945-46.

BARTON, F. Sherbrooke (F'35), Principal Director of Electronics Research and Development, Ministry of Supply, Castlewood House, 77-91, New Oxford Street, London, W. C. 1, England.
Born: May 13, 1895, Nottingham, England. Scholar, 1914, St. John's College, Cambridge; M.A., 1920, University of Cambridge; B.Sc., 1920, University of London. Member of Institution of Electrical Engineers; Fellow of the Institute of Physics. Vice-President, 1943; Director, 1943. Committees: International Liaison, 1947.

BATCHER, Ralph R. (J'16—A'18—M'22—SM'43—F'50), Chief Engineer, Radio Television Manufacturers Association, 240-02 42 Ave., Douglaston, L.I., N.Y.
Born: June, 1897, Dysart, Iowa. B.S., (E.E.), 1920, Iowa State College, Ames, Iowa. Committees: Annual Review, *chairman, 1949-52;* Board of Editors, 1928-52; Meetings and Papers, 1927-29; Public Relations, *chairman, 1950-51,* Standards, 1949-52, Symbols, 1940-47, Television, 1939-42, Television and Facsimile, 1937-38. Member, Tau Beta Pi. Institute Representative: ASA Sectional Committee (C 16) on Radio, *Secretary, 1951.*

BATSEL, Max C. (A'21—F'27), Chief Engineer, Engineering Products Department, RCA Victor Division, Radio Corp. of America, Cooper St., Camden, N.J.
Born: June 16, 1894, Fulton, Ky. B.M.E., 1915, University of Kentucky. Director, 1933. Committees: Bibliography, 1930-32, Meetings and Papers, 1928-29, Membership, 1926-27, New York Program, 1931-33, Receiving Sets, 1927-28, Standardization, 1925, 1927-30, Use of the Transmission Unit, 1928.

BAYLY, Benjamin de F. (M'34—SM'34—F'47), President Bayly Engineering Ltd., Ajax, Ont., Canada. Consulting Engineer and Director of Development, Radio Engineering Products, Montreal, P.Q., Canada.
Born: June, 1903, London, Ont., Canada. B.A.Sc., 1930, University of Toronto, Toronto, Canada. Committees: Papers Review, 1947-49. Sections: Toronto, *chairman, 1936-37.* Institute Representative: University of Toronto, 1941-42. O.B.E., Canadian Government, 1946.

BEDFORD, Alda V. (A'31—SM'46—F'50), Television Research Engineer, RCA Laboratories, Radio Corporation of America, Princeton, N.J.
Born: January, 1904, Winters, Tex. B.S.(E.E.), 1925, University of Texas, Austin, Tex.; M.S. (E.E.), 1929, Union College, Schenectady, N.Y. Sections: Princeton, *secretary-treasurer, 1946, vice-chairman, 1947, chairman, 1948-49.* Modern Pioneer Award, National Association of Manufacturers, 1940; Incentive Awards, RCA Laboratories, 1949 and 1950.

BEDFORD, Leslie H. (S'34—SM'43—F'48), Chief Television Engineer, Marconi's Wireless Telegraph Company, Ltd., Chelmsford, Essex, England.
Born: June 23, 1900, London, England. B.Sc., 1919, B.Sc.(Engineering), 1921, University of London, London, England; M.A., 1924, Cambridge University. IEE Premium, Institution of Electrical Engineers, London, 1934; Order of the British Empire, 1943.

BEERS, George L. (A'27—M'29—SM'43—F'47), Assistant Director of Engineering, RCA Victor Division, Radio Corporation of America, Camden, N.J.
Born: May 13, 1899, Indiana, Pa. B.S.(E.E.), 1921, Sc.D. (Honorary), 1947, Gettysburg College, Gettysburg, Pa. Committees: Papers Procurement, 1946; Radio Receivers, 1942-49; Receivers, 1949-51. Modern Pioneer Award, National Association of Manufacturers, 1940. Fellow, Society of Motion Picture and Television Engineers.

BEGUN, S. J. (S'46—F'52), Vice-President and Chief Engineer, The Brush Development Company, 3311 Perkins Ave., Cleveland 14, O.
Born: December 2, 1905, Free City of Danzig. M.S., 1929, Ph.D. in E., 1933, Institute of Technology, Berlin, Germany. Committees: Sound Recording and Reproducing Techniques, *chairman, 1949-50,* 1952; Audio and Video Techniques, 1948-49; Electroacoustics, 1941-52.

BENNETT, Ralph D. (S'44—F'52), Technical Director, Quarters B, Naval Ordnance Laboratory, White Oak, Silver Spring, Md.
Born: June 30, 1900, Williamson, N.Y. B.S., 1921, M.S., 1923, Union College, Schenectady, N.Y.; Ph.D.-Physics, 1925, University of Chicago, Chicago, Ill.; Sc.D. (Hon.), 1945, Union College, Schenectady, N.Y.

BENNETT, Rawson (A'36—M'43—SM'43—F'50), Captain, United States Navy, Bureau of Ships, Navy Dept., Washington 25, D.C.
Born: June, 1905, Chicago, Ill. B.S., 1927, United States Naval Academy, Annapolis, Md.; M.S., 1937, University of California, Berkeley, Calif. Sections: San Diego, *chairman, 1947.* Fellow, Acoustical Society of America, 1947.

BERANEK, Leo L. (S'36—A'41—SM'48—F'52), Associate Prof. of Communication Engineering and Technical Director of Acoustics Laboratory, Massachusetts Institute of Technology, Cambridge, Mass.
Born: September 15, 1914, Solon, Iowa. B.A., 1936, (Hon) D.Sc., 1946, Cornell College, Ithaca, N.Y., D.Sc., 1940, M.S., 1937, Harvard University, Cambridge, Mass. Professional Groups: Audio. Committees: PGA, 1949-52, PGA, *chairman, 1949-51.*

BERKNER, Lloyd V. (A'26—M'34—SM'43—F'47), President, Associated Universities, Inc., 350 5th Ave., New York 11, N.Y.
Born: February 1, 1905, Milwaukee, Wis. B.S.(E.E.), 1927, University of Minnesota, Minneapolis, Minn., attended George Washington University, St. Louis, Mo. Committees: Board of Editors, 1941, Papers, 1941, Wave Propagation, 1937-41. Special Gold Medal of Congress, 1930, Silver Medal of Aeronautical Institute, Gold Medal of the City of New York for Work on the Byrd Antarctic Expedition, Science Award, Washington Academy of Science, 1941, Legion of Merit, 1946, Honorary Officer of the Order of the British Empire, Member, National Academy of Sciences.

BEVERAGE, H. H. (A'15—M'26—F'28), Director, Radio Systems Research Laboratory, RCA Laboratories Division, Radio Corporation of America, 66 Broad St., New York 4, N.Y.
Born: October 14, 1893, North Haven, Me. B.S., 1915, D.E., 1938, University of Maine. Morris Liebmann Memorial Prize, 1923. Medal of Honor 1945. President, 1937; Director, 1936-1939. Committees: Admissions, 1936, 1939, 1941-1947; Awards, *chairman, 1938,* 1939; Board of Editors, 1932-1937; High-Frequency Receivers, 1930-1931; New York Program, 1932-1935; Nominations, *chairman, 1942,* 1943; Standards, 1934. Armstrong Medal, 1938, Radio Club of America; Signal Corps Certificate of Appreciation, 1944; President's Certificate of Merit, 1948.

BINGLEY, Frank James (A'34—M'36—SM'43—F'50), Chief Television Research Engineer, Philco Corporation, C and Tioga Sts., Philadelphia, Pa.
Born: November 13, 1906, Bedford, Bedfordshire, England. B.Sc. (Mathematics), 1926, B.Sc. (Physics), 1927, University of London. Committees: Admissions, 1940, 1943; Papers Review, 1946-52. Gold Medal, Television Broadcasters' Association.

BISHOP, Harold (F'38), Chief Engineer, British Broadcasting Corp., Broadcasting House, London, W.1. England.
Born: October 29, 1900, London, England. City and Guilds College (Imperial College of Science and Technology), 1917-20, B.Sc.(Engineering), University of London, 1920. Institution Premium, Institution of Electrical Engineers, 1935; Commander of the (Order of the) British Empire, 1938; Vice-President, Institution of Electrical Engineers, 1948; Member, Institution of Mechanical Engineers; Fellow, The City and Guilds Institute, 1947.

BLACK, Harold S. (M'42—SM'43—F'48), Research Engineer, Bell Telephone Laboratories Inc., Murray Hill, N.J.
Born: April 14, 1898, Leominster, Mass. B.S., 1921, Worcester Polytechnic Institute, Worcester, Mass. Committees: Administrative of the Board of Editors, 1952; Annual Review, 1948-49; Awards, 1948; Board of Editors, 1949, 1952; Editorial Administrative, 1948-51; Education, 1948; Frequency Modulation, 1946; Modulation Systems, 1947, *chairman, 1948-50;* Papers Review, 1947-48; Standards, 1948-50. Best Paper Prize, AIEE, 1934; Modern Pioneer Award, National Association of Manufacturers, 1940; John Price Wetherill Medal, The Franklin Institute, 1941.

BLACK, Knox Charlton (M'29—SM'43—F'49), Technical Advisor to the Commander, Naval Air Development Center, Johnsville, Pa.
Born: April 23, 1905, Cambridge, Mass. A.B., 1924, A.M., 1926, Ph.D., 1927, Harvard University, Cambridge, Mass. Director, 1952. Committees: Awards, 1951, *chairman, 1952;* Technical Committee, No. 4, Electro-Acoustic Devices, 1930; Policy Development, 1949-50. President's Certificate of Merit, 1948.

BLACKWELL, Otto B. (M'20—F'28), Retired. 15 North Dr., Plandome, N.Y.
Born: August 21, 1884, Bourne, Mass. S.B., 1906, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Standardization, 1920-23.

BLOMBERG, Knut Hugo (M'45—F'50), President, Svenska Radioaktiebolaget, 12 Alstromergatan, Stockholm, Sweden.
Born: October 25, 1897, Stockholm, Sweden. E.E., 1920, Royal Technical University of Stockholm.

BODE, H. W. (M'41—SM'43—F'52), Director of Mathematical Research, Bell Telephone Laboratories, Inc., Mountain Ave., Murray Hill, N.J.
Born: December 24, 1905, Madison, Wis. A.B., 1924, M.A., 1926, Ohio State University, Columbus, O.; Ph.D., 1935, Columbia University, New York, N.Y. Committees: Circuits, 1944-47.

BOWIE, Robert M. (A'34—M'37—SM'43—F'48), Director of Engineering, Sylvania Electric Products, Inc., 1740 Broadway, New York, N.Y.
Born: August 24, 1906, Table Rock, Neb. B.S., 1929, M.S.(Physics), 1931, Ph.D.(Physics), 1933, Iowa State College, Ames, Iowa. Committees: Administrative of the Board of Editors, 1952; Admissions, 1945-48, Board of Editors, 1947-52; National Convention, 1950; Nuclear Studies, 1948-50; Papers Procurement, 1945-50; Research, 1946-47; Television Committee, 1948-49; Television Systems, 1949-52, *vice-chairman, 1951-52.*

BOWLES, Edward L. (A'22—M'28—SM'43—F'47), Consulting Professor of Electrical Communications, Massachusetts Institute of Technology; Consulting Engineer, Special Consultant, Secretary of the Army.
Born: December 9, 1897, Westphalia, Mo. B.S., 1920, Washington University, Seattle, Wash. M.S., 1922, Massachusetts Institute of Technology; D.Sc. (Hon.), 1945, Norwich University, Northfield, Vt. Committees: Membership, 1937-40, Papers Procurement, 1942-43; Regular Papers, 1941, Standardization, 1929-31, Standards, 1932. Sections: Boston, *chairman, 1935-37.* Distinguished Service Medal, 1945; Honorary Commander, Civil Division of Most Excellent Order of British Empire, February, 1948; Presidential Medal for Merit, June, 1948.

BOWN, Ralph (M'22—F'25), Vice-President, Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: February 22, 1891, Fairport, N.Y. M.E., 1913, M.M.E., 1915, PhD., 1917, Cornell University, Ithaca, N.Y. Morris Liebmann Memorial Prize, 1926; Medal of Honor, 1949; President, 1927; Vice-President, 1926; Director, 1926-29, 1937-39. Committees: Admissions, *chairman, 1926,* 1939-40, Awards, 1928-31, 1938-41, 1946, *chairman, 1942,* Board of Editors, 1946-52; Constitution and Laws, 1929, 1937-40; Convention Policies, 1940; Finance, *chairman, 1926,* International Liaison, *chairman, 1947, 1949;* Meetings and Papers, 1929; Nominations, 1937, 1940-43, *chairman, 1944,* 1949-51; Receiving Sets, 1927-28; Standards, 1941; Standardization, *chairman, 1925,* 1926; Research, 1949-50; IRE-RMA Joint Technical Advisory Committee, 1948-52.

BRAINERD, John G. (F'51), Professor, Moore School of Electrical Engineering, University of Pennsylvania, 200 S. 33 Street, Philadelphia, Pa.
Born: August 7, 1904, Philadelphia, Pa. B.S.(E.E.), 1925, D.Sc., 1934, University of Pennsylvania, Philadelphia, Pa. Committees: Annual Review, 1948-51, Circuits, 1947, *chairman, 1948-49,* 1949-52; Standards, 1948-49, *chairman, 1949-51,* 1951-52; Institute Representative: ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1949-52; ASA Sectional Committee (C16) on Radio, 1950-51; ASA Standards Council, 1950, ASA Subcommittee on General Terms, 1948. Professional Groups: Circuit Theory, *chairman, 1950-52.*

BREIT, Gregory (SM'45—F'45), Professor, Department of Physics, Sloane Physics Laboratory, Yale University, New Haven 11, Conn.
Born July 14, 1898, Russia. A.B., 1918, A.M., 1920, Ph.D., 1921, The Johns Hopkins University, Baltimore, Md. Committee: Research, 1949-50.

BRENNECKE, Cornelius G. (F'51), Professor and Head, Department of Electrical Engineering, North Carolina State College, Raleigh, N.C.
Born: August 29, 1906, New York, N.Y. B.A., 1926, B.S., 1927, E.E., 1928, Columbia University, New York, N.Y.; Ph.D., 1936, New York University, New York, N.Y. Committees: Education, 1951-52. Sections: North Carolina-Virginia, *vice-chairman* and *program chairman, 1946-48, chairman, 1948-49.* Institute Representative: Lehigh University, 1943-45.

BRILLOUIN, Leon N. (SM'44—F'52), Dir., of Electrical Engineering Education, I.B.M., Watson Laboratory, 612 W. 116th St., New York, N.Y.
Born: August 7, 1889, Sevres, France. Ph.D., 1921, University of Paris, France.

BROWN, George H. (A'30—VA'39—F'41), Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: October 14, 1908, North Milwaukee, Wis. B.S., 1930, M.S., 1931, Ph.D., 1933, E.E.(Professional), 1942, University of Wisconsin, Madison, Wis. Committees: Annual Review, 1947, Antennas, 1944-49, Papers Procurement, 1948-50, Fellow, AIEE.

BROWN, Jesse E. (A'24—M'28—SM'43—F'49), Assistant Vice-President and Chief Engineer, Zenith Radio Corporation, 6001 W. Dickens, St., Chicago 39, Ill.
Born: September, 1902, Greenport, N.Y. Attended Cornell University, 1920-24. Director, 1938, 1947. Committees: Admissions, 1940; Awards, 1940; Frequency Modulation, 1940-46; Industrial Electronics, 1947-49; Membership, 1949-50; Modulation Systems, 1947; Nominations, 1947; Papers Procurement, 1942-45; Public Relations, 1949; Radio Receivers, 1941, 1945-49; Receivers, 1949-51; Regular Papers, 1941; Sections, 1937; Special Publications Fund, 1947, Television, 1940-48, Televisions Systems, 1949-52. Sections: Chicago, *secretary, 1936, chairman, 1938-39.* Institute Representative: Army Signal Association, 1947.

BRUNETTI, Cledo (A'37—SM'46—F'49), Associate Director, Stanford Research Institute, Stanford, Calif.
Born: April, 1910, Virginia, Minn. B.E.E. (with High Distinction), 1932, Ph.D., 1937, University of Minnesota, Minneapolis, Minn. Committees: Circuits, 1944-51, *vice-chairman, 1949,* 1950; Radio Transmitters, 1946-49, Papers Procurement, 1948-50. National Scholarship Key, National I. A. Civic League, 1937, "America's Outstanding Young Electrical Engineer," Eta Kappa Nu, 1941, The Material and Methods Achievement Grand Award, Materials and Methods Magazine, 1947, Naval Ordnance Development Award for Exceptional Service, United States Navy, 1945, Certificate for Outstanding Service, War Department, 1945, Certificate of Appreciation of Services, Office of Scientific Research and Development, 1945, Army-Navy Certificate of Appreciation for Outstanding Services during World War II, War and Navy Department, 1947.

BUILDER, Geoffrey (A'32—F'41), Department of Physics, University of Sydney, Sydney, N.S.W., Australia.
Born: June 21, 1906, Cue, Western Australia. B.Sc., 1928, University of Western Australia, Ph.D., 1933, King's College, London, England. Fellow, Institute of Physics, London, England.

BURKE, Charles T. (A'25—M'27—F'37), Director of Planning, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: August 4, 1902, Watertown, Mass. S.B., 1924, S.M., 1924, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Handbook, 1945-47; Papers Procurement, 1946; Power Supply, 1928; Receiving Sets, 1927; Standards, 1941-43.

BURNAP, Robert S. (A'30—F'47), Manager, Commercial Engineering, Tube Department, Radio Corporation of America, 5 and Sussex Streets, Harrison, N.J.
Born: July 12, 1894, Monterey, Mass. S.B., 1916, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Annual Review, 1943-48; Awards, 1948; Board of Editors, 1944-52; Editorial Administrative, 1946-52; Electronics, 1936-41, *chairman, 1942-45;* Subcommittee on Small High-Vacuum Tubes, 1936-38, *chairman, 1939-41;* Electron Tubes, *chairman, 1946-48;* Electron Tubes and Solid-State Devices, 1949-52; Handbook, 1945-47; Papers Procurement, 1942-44; Regular Papers, 1941; Standards, 1942-49; Symbols, 1940-41, 1943-47; Tellers, 1942; Administrative of the Board of Editors, 1952. Institute Representative: ASA Subcommittee (C42.14) on Electronics, 1947-51.

BURROWS, Charles R. (A'24—M'38—SM'43—F'43), Professor of Electrical Engineering and Director, School of Electrical Engineering, Cornell University, Ithaca, N.Y.
Born: June 21, 1902, Detroit, Mich. B.S.E.(E.E.), 1924, University of Michigan, Ann Arbor, Mich. A.M., 1927, Columbia University, New York, N.Y.; E.E., 1935, University of Michigan; Ph.D., 1938, Columbia University, New York, N.Y. Committees: Annual Review, 1943-45; Circuits, 1945-50; National Convention, 1948; Radio Wave Propagation, 1942, *chairman, 1943-45;* Radio Wave Propagation and Utilization, 1945-47; Standards, 1943-45, 1949-50; Symbols, 1940-52; Wave Propagation, 1937-41, *vice-chairman, 1948, chairman, 1949,* 1950-52.

BUSIGNIES, Henri G. (M'42—SM'43—F'45), Technical Director, Federal Telecommunication Laboratories, Inc., 500 Washington Avenue, Nutley, N.J.
Born: December 29, 1905, Sceaux, Paris, France. E.E., 1926, Institut Normal Electro-technique, Paris, France. Committees: Annual Review, 1948; Navigation Aids, 1946, 1947, *vice-chairman, 1948, chairman, 1949,* 1950-51; Standards, 1948-50. Presidential Certificate of Merit, 1948.

BUTTNER, Harold H. (M'27—SM'43—F'44), Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y.
Born: November 3, 1892, Porta Costa, Calif. B.S.(E.E.), 1915, University of California, Berkeley, Calif. Committees: Electronics, 1940; Meetings and Papers, 1929; Standards, 1938-39.

BYRNE, John F. (SM'45—F'50), Director of Engineering, Communications and Electronics Div., Motorola, Inc., 4501 Augusta Blvd., Chicago 51, Ill.
Born: October 26, 1905, Cincinnati, O. B.S., 1927, M.S.(E.E.), 1928, Ohio State University, Columbus, O. Committees: Tellers, 1949. United States Navy Certificate of Commendation, February, 1947; Presidential Certificate of Merit, September, 1948; Panel on Electronic Countermeasures Research and Development Board, Chairman, 1949-51.

CADY, Walter G. (A'14—F'27) (L'50), Research Associate, Department of Physics, Norman Bridge Laboratory, California Institute of Technology, Pasadena, Calif.
Born: December 10, 1874, Providence, R.I. Ph.B., 1895, M.A., 1896, Brown University, Providence, R.I.; Ph.D., 1900, University of Berlin, Berlin, Germany; D.Sc., 1938, Brown University, Providence, R.I. Morris Liebmann Memorial Prize, 1928. President, 1932; Editor, 1929; Director, 1928-29, 1932-34. Committees: Annual Review, 1942-49; Awards, 1928-29, *chairman, 1930,* 1933; Bibliography, 1930-31; Board of Editors, 1928, *chairman, 1929,* 1945; Institute Sections, 1928; Meetings and Papers, 1928-29; Nominations, 1930, *chairman, 1933-34,* 1939; Papers, 1931; Piezoelectric Crystals, 1941, *chairman, 1942-49,* 1951-52; Standards, 1943-51. Sections: Connecticut Valley, *chairman, 1927-28.* Duddell Medal, Physical Society of London, 1936.

CALDWELL, Orestes H. (M'28—SM'43—F'44), Treasurer, Caldwell-Clements, Inc.; Editor, *Tele-Tech,* 480 Lexington Ave., New York 17, N.Y.
Born: March 8, 1888, Lexington, Ky. B.S.(E.E.), 1908, E.E., 1931, D.E., 1933, Purdue University, Lafayette, Ind. Manager, 1932; Director, 1932-35. Committees: Admissions, 1933; Annual Review, 1942-43; Board of Editors, 1946-52; Constitution and Laws, 1932-33, 1935; Nominations, 1934; Public Relations, *chairman, 1942,* 1943-46, 1949-50; Publicity, 1931-33, *chairman, 1934-36,* 1937, 1939; Tellers, 1932-33.

CAMPBELL, Richard D. (F'51), Engineer, 195 Broadway, New York, N.Y.
Born: May 26, 1899, St. Louis, Mo. B.S.(E.E.), 1922, George Washington University, Washington, D.C. Committees: Industrial Electronics, 1947; National Convention, 1947; Registration, *chairman, 1946.*

CAMRAS, Marvin (S'41—A'40—SM'44—F'52), Senior Physicist, Armour Research Foundation, 35 W. 33rd St., Chicago, Ill.
Born: January 1, 1916, Chicago, Ill. B.S. in E.E., 1944, Armour Institute of Technology; M.S. in E.E., 1942, Illinois Institute of Technology, Chicago, Ill. Committees: Professional Group on Audio, *secretary-treasurer, 1951-52.* Fellow, Acoustical Society of America, 1951. Illinois Institute of Technology Alumni Association Distinguished Service Award, 1948. Eta Kappa Nu Award (Hon. Ment.) 1948; U.S. Camera Award for Contribution to Motion Picture Photography, 1949.

CARLSON, Wendell L. (A'36—SM'47—F'49), Research Engineer, RCA Laboratories Division, Princeton, N.J.
Born: January, 1897, Jamestown, N.Y. Committees: Radio Receivers, 1946-47.

CARNAHAN, C. Wesley (A'34—SM'45—F'52), Manager, Electronics Dept., Sandia Base, Albuquerque, N.Mex.
Born: July 4, 1907, Berkeley, Calif. B.A., 1927, M.A., 1931, Stanford University, Stanford, Calif. Committees: Board of Editors, 1947-52; Papers Review, 1945-47. Sections: New Mexico, *chairman, 1948-49.*

CARTER, E. Finley (A'23—F'36), Vice-President, Engineering, Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y.
Born: July 1, 1901, Elgin Tex. B.S., 1922, Rice Institute, Houston, Tex. Director, 1943-45. Committees: Admissions, 1944; Constitution and Laws, 1945-48; Executive, 1944-45; National Convention, 1947-48; Professional Recognition, 1947; Editorial Administrative, 1949-50.

CARTER, Philip S. (A'29—M'38—SM'43—F'49), Research Engineer, RCA Laboratories Division, Rocky Point, L.I., N.Y.
Born: July, 1896, Glastonbury, Conn. A.B.(Mechanical Engineering), 1918, Stanford University, Stanford, Calif. Committees: Annual Review, 1945-48; Antennas, *chairman, 1945-48;* Antennas and Waveguides, 1949-52; Board of Editors, 1937-48; Standards, 1945-52; Professional Group on Antennas and Propagation, 1949-52; Technical Program Committee, National Convention, 1949, 1952. Modern Pioneer Award, National Association of Manufacturers, 1940; Citation for Overseas Work on Countermeasures "V" 2 Rocket, Secretary of War, 1947; Army-Navy Certificate of Appreciation, 1948.

CHAFFEE, E. Leon (M'17—F'21), Gordon McKay Professor of Applied Physics; Rumford Professor of Physics; Director of Laboratories of Engineering Sciences and Applied Physics, Harvard University, Cambridge 38, Mass.
S.B., 1907, Massachusetts Institute of Technology; A.M., 1908, Ph.D., 1911, S.D.(Honorary), 1944, Harvard University, Cambridge, Mass. Vice-President, 1922; Director, 1922. Committees: Electron Tubes, 1946; Electronics, 1936-45; Membership, 1925; Papers, 1918-19; Papers Procurement, 1942-43; Regular Papers, 1941; Research, 1949-50; Standardization, 1927-31; Symbols, 1940-43; Technical Committee, No. 3, Vacuum Tubes, 1930; Vacuum Tubes, 1945. Sections: Boston, *chairman, 1932-35.* Institute Representative: Harvard University, 1941-51. Longstreth Medal of Merit, Franklin Institute, 1912.

CHAMBERLAIN, Adolph B. (A'27—M'30—F'41), Chief Engineer, Engineering Department, Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y.
Born: February 3, 1901, Franklin, Mass. Director, 1941-44. Committees: Admissions, 1940-41; Annual Review, 1947-48; Awards, 1942; Broadcast, *alternate, 1932;* Constitution and Laws, 1947; Frequency Modulation, 1940-41; Membership, 1949-50; National Convention, 1947; New York Program, 1938-39, *chairman, 1940,* 1941-42; Papers, 1942; Professional Groups, 1948-49, Public Relations 1946; Regular Papers, 1941; Standardization, Subcommittee on the Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, 1930; Technical Committee No. 2 on Radio Transmitters and Antennas, 1929-30; Standards, 1946, *chairman, 1947-49,* 1950; Tellers, *chairman, 1942;* Transmitters and Antennas, 1936. Sections: Buffalo-Niagara, *chairman, 1930-31;* Rochester, *chairman, 1928-29.* Institute Representative: ASA Standard Council, 1948-49; ASA Section Committee on Definitions of Electrical Terms, 1948-49.

CHAMBERS, Dudley E. (M'41—SM'43—F'48), Executive Engineer, Research Laboratory, General Electric Company, The Knolls, Schenectady, N.Y.
Born: November 27, 1905, Kansas City, Mo. A.B., 1927, E.E. Stanford University, Stanford, Calif. Committees: Awards, 1948-51; Research, *chairman, 1949;* Standards, 1949-50. Fellow, AIEE, 1948.

CHINN, Howard A. (A'42—SM'45—F'45), Chief Audio-Video Engineer, Columbia Broadcasting System, Inc., 485 Madison Ave., New York, N.Y.
Born: January 5, 1906, New York, N.Y. S.B., 1927, S.M., 1929, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Admissions, 1945-48, Audio and Video Techniques, *chairman, 1948;* Constitution and Laws, 1952; Education, 1945; Membership, 1934, 1936-38; Papers, 1935-40, 1944-45; Papers Review, 1946-52; Professional Groups, 1948; Standards, 1948; Tellers, 1946, *chairman, 1947.*

CHRISTALDI, P. Samuel (S'35—A'40—SM'44—F'52), Assistant Manager, Instrument Division, Allen B. DuMont Laboratories, Inc., 1500 Main Ave., Clifton, N.J.
Born: November 26, 1914, Philadelphia, Pa. E.E., 1935, Ph.D., (Physics) 1938, Rensselaer Polytechnic Institute, Troy, N.Y. Committees: Admissions, 1949-52, *chairman, 1950-51;* Measurements and Instrumentation, 1950-52, *vice-chairman, 1951-52;* Subcommittee on Oscillography, *chairman, 1950-52.* Subsection, *secretary, 1951-52.* Member, Sigma Xi; Fellow; Radio Club of America.

CHU, Lan J. (A'39—VA'39—S'48—F'52), Associate Professor of Electrical Engineering, 77 Massachusetts Ave., Cambridge, Mass.
Born: August 24, 1913, Hweiying, Kiangsu, China. B.S., 1934, Chiao Tung University; M.S., 1935, Sc.D., 1938, Mass. Institute of Technology. Committees: Antennas, 1948; Antennas and Waveguides, *vice-chairman, 1949-50,* 1950-51; Technical Program, 1949-50.

CLAPP, James K. (A'24—M'28—F'33), Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: December 30, 1897, Denver, Colo. B.S., 1923, S.M., 1926, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Papers, 1931-45; Papers Review, 1946-52; Piezoelectric Crystals, 1940-52; Standards, 1934-35.

CLAVIER, Andre G. (M'30—F'39), Technical Assistant to the President, Federal Telecommunication Laboratories, Inc., 500 Washington Ave., Nutley 10, N.J.
Born: February 15, 1894, Cambrai, France. Licencie-es-sciences physiques et mathematiques, 1918, Paris; Ingenieur de l'Ecole Superieure d'Electricite, 1920, Paris, France. Committees: Admissions, 1951-52; Standards, 1952; Symbols, 1949-50, *vice-chairman, 1950-51, chairman, 1951-52.* President, Fifth Section, Societe des Radioelectriciens, Paris 1945-47. Member IEE (Great Britain).

CLEMENT, Lewis M. (A'14—M'17—F'26), Technical Advisor to the General Manager, Crosley Division, Avco Manufacturing Corp., 1329 Arlington St., Cincinnati 25, O.
Born: January 25, 1892, Oakland, Calif. B.S.(E.E.), 1914, University of California, Berkeley, Calif. Director, 1945. Committees: Board of Editors, 1941-52; Electro-Acoustic Devices, 1930-31; Meetings and Papers, 1929; Papers Procurement, 1948-50; Receiving Sets, 1927-28; Regular Papers, 1941; Standardization, 1929-30; Vacuum Tubes, 1929-30. Sections: Cincinnati, *chairman, 1945.*

COGGESHALL, Ivan S. (A'26—M'29—F'42), General Traffic Manager, Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: September 30, 1896, Newport, R.I. President, 1951, Director, 1941-44, 1951-52. Committees: Admissions, 1934-35, 1941-42; Annual Review, 1944-47; Building Fund, *vice-chairman, 1945;* Constitution and Laws, 1942, 1945-47, *chairman, 1948,* 1949, *chairman, 1950;* Executive, 1942, *chairman, 1951,* 1952; Finance, 1948-52; Membership, 1928, *chairman, 1929-30,* 1931, *chairman, 1934-35,* 1936-40, *chairman, 1941;* National Convention, *vice-chairman, 1948,* New York Program, 1938, *chairman, 1939,* 1940; Nominations, 1944; Papers, 1942-45; Papers Procurement, *group chairman, 1945,* 1946; Papers Review, 1946-47; Professional Groups, 1950; Public Relations, *chairman, 1943-45,* 1946; Sections, 1933-35, 1938-42; Standards, 1945-46. Institute Representative: Joint IRE-RTMA Coordination Committee, 1951; Joint Technical Advisory Committee, 1951. Fellow AIEE.

COLEMAN, John B. (A'25—M'29—SM'43—F'48), Assistant Director of Engineering, RCA Victor Division, Radio Corporation of America, Front and Cooper Sts., Camden, N.J.
Born: August 1899, Indiana County, Pa. B.S.(E.E.), 1923, Carnegie Institute of Technology, Pittsburgh, Pa. Director, 1948-49. Committees: Broadcast, 1933; Constitution and Laws, 1952; Membership, 1949-51. Sections: Philadelphia, *chairman, 1942-43.*

COOK, Ellsworth D. (A'21—VA'39—F'41), Division Engineer, High-Frequency Division, General Engineering Laboratory, General Electric Company, 1 River Rd., Schenectady, N.Y.
Born: June 17, 1898, Schenectady, N.Y. B.S.(E.E.), 1920, M.S. (E.E.), 1921, Ph.D.(E.E.), 1923, Union College, Schenectady, N.Y. Committees: Admissions, 1944-48; Membership, 1936-39, *chairman, 1940,* 1942-43, *chairman, 1944-45,* 1946-48; Sections, 1935, 1937, *chairman, 1938-39,* 1940-48; Standards, 1932-33. Sections: Philadelphia, *chairman, 1934, 1935.* Institute Representative: ASA Sectional Committee on Acoustical Measurements and Terminology, 1936-37, 1939-46.

CORWITH, Howard P. (M'26—SM'43—F'52), Vice-President, Development and Research, The Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: December 3, 1892, Water Mill, L.I., N.Y. M.E., 1916, Cornell University, Ithaca, N.Y. Committees: Electronics, 1938-45, Admissions, 1949-51, *chairman, 1952.* Fellow, AIEE, 1951; President, New York Electrical Society, 1949-50.

COSTENTINO, Adolfo T. (A'37—VA'39—F'40), Operations and Communications Superintendent (Argentina), Pan American-Grace Airways, Inc., Avenida Pte. R. Saenz Pena 788, Buenos Aires, Argentina.
Born: November 18, 1898, Buenos Aires, Argentina. Attended National School, Buenos Aires. Vice-President, 1941; Director, 1941. Committees: Sections, ex-officio, 1940-41, 1947-48. Sections: Buenos Aires, *chairman, 1940-41, 1947-48.*

CRAVEN, Tunis A. M. (F'29), Partner, Craven, Lohnes and Culver, Consulting Radio Engineers, 1242-53 Munsey Bldg., Washington 4, D.C. Mail: Langley, McLean, P.O., Va.
Born: January 31, 1893, Philadelphia, Pa. Graduate, 1913, United States Naval Academy, Annapolis, Md. Director, 1937. Committees: Broadcast, 1934; Meetings and Papers, 1930; Papers, 1932-41; Radio Transmitters and Antennas, 1930-31; Standardization, 1929-30; Subcommittee on Establishment of Provisions for Safety of Operating and Other Personnel in Relations to Radio Transmitting Equipment, 1929-30; Sub-committee on Nomenclature, Symbols and Definitions, *chairman, 1929-30.*

CRAWFORD, Arthur B. (A'29—SM'46—F'52), Radio Research Engineer, Bell Telephone Laboratories, Box 107, Red Bank, N.J.
Born: February 26, 1907, Graysville, O. B.S. in E.E., 1928, Ohio State University, Columbus, O. Committees: Wave Propagation, 1949-52.

CROSBY, Murray G. (A'25—M'38—SM'43—F'43), Radio-Electronic Consultant; President, Crosby Laboratories, Inc., 126 Herrick Rd., Mineola, L.I., N.Y.
Born: September, 1903, Elroy, Wis. B.S., 1927, E.E., 1943, University of Wisconsin, Madison, Wis. Director, 1947-49. Committees: Admissions, 1945-46; Annual Review, 1946-47; Appointments, 1947, *chairman, 1948;* Awards, 1950-52, *chairman, 1950;* Board of Editors, 1946-52; Editorial Administrative, 1946-49; Executive, 1949; Frequency Modulation, 1940-45, *chairman, 1946;* Modulation Systems, *chairman, 1947,* 1948-50; National Convention, 1948; Papers, 1944-45; Papers Procurement, 1945; Papers Review, *chairman, 1946-48,* 1949-51; Policy Development, 1948-49; Professional Groups, 1948; Standards, 1946-48. Institute Representative; IRE-RTMA, Problem No. 2, *chairman, 1951;* Modern Pioneer Award, National Association of Manufacturers, 1940.

CULLUM, A. Earl, Jr. (J'28—A'31—SM'45—F'48), Consulting Radio Engineer, Highland Park Village, Dallas 5, Texas.
Born: September 1909, Abilene, Texas. B.S. (Communications Engineering), 1931, Massachusetts Institute of Technology, Cambridge, Mass. Director, 1948. Committees: Annual Review, 1948; Education, 1945; Radio Wave Propagation and Utilization, 1946-47; Standards, 1948; Wave Propagation, *chairman, 1948, 1949-52;* Policy Development, 1949-50; Nominations, 1949-50. Presidential Certificate of Merit, 1948.

CUTTING, Fulton (M'15—F'21) (L'51), Professor of Physics and Assistant to the President for Research, Stevens Institute of Technology, Hoboken, N.J.
Born: December 27, 1886, New York, N.Y. President, 1922, Vice-President, 1921, Manager, 1920; Director, 1921-24. Committees: Education, 1944, Investments, 1944-46.

DEARDORFF, Ralph W. (F'51), Transmission and Protection Engineer, The Pacific Telephone and Telegraph Company, 509 South West Oak St., Portland, Ore.
Born: August 9, 1894, Portland, Ore. Sections: Portland, *chairman, 1942-43, vice-chairman, 1946-47.*

deFOREST, Lee (M'14—F'18) (L'49), United Engineering Labs., 1027 No. Highland Ave., Los Angeles, Calif.
Born: August 26, 1873, Council Bluffs, Iowa. Ph.B., 1896, Ph.D., 1899, Yale University; Sc.D., 1919, Syracuse University; D.Sc., 1926, Yale University; D.Eng., 1937, Lewis Institute; LLD., Talladega College, Beloit College, Wis.; DsC., College of Osteopathic Surgery, 1951. IRE Medal of Honor, 1922; Edison Medal, 1947; President, Society of Wireless Telegraph Engineers, 1909-10. President, 1930; Director, 1930-32. Committees: Specifications for Steamship Radio Equipment, 1914; Wave Length Regulations, 1916.

DELLINGER, John Howard (F'23), Radio Consultant and Adviser, 3900 Connecticut Ave., Washington 8, D.C.
Born: July 3, 1886, Cleveland, O. A.B., 1908, George Washington University; Ph.D., 1913, Princeton University; D.Sc., 1932, George Washington University. Medal of Honor, 1938. President, 1925; Vice-President, 1924; Director, 1924-27, Manager, 1928-31. Committees: Annual Review, 1938-43; Awards, 1934, 1936; Bibliography, 1930, *chairman, 1931,* 1932, 1934; Meetings and Papers, 1926, *chairman, 1928;* Nominations, 1928, *chairman, 1931,* 1935; Radio Wave Propagation, *chairman, 1942,* 1945; Receiving Sets, 1927; Revision of the Constitution, *chairman, 1927;* Standardization, 1920-25, 1927-28, *chairman, 1929-30,* 1931; Standards, 1932, 1934-41, 1943; Symbols, 1940-41, 1943-48; Use of the Transmission Unit, 1928; Wave Propagation, *chairman, 1937-41.* Sections: Washington, D.C., *chairman, 1932-33.* Institute Representative: American Documentation Institute, 1944-52; ASA Sectional Committee on Electric and Magnetic Magnitudes and Units, 1936-37, 1939-48.

DELORAINE, Edmond M. (M'25—F'41), General Technical Director, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y.
Born: May 16, 1898, Clichy, Seine, France. B.S., 1920, Ecole de Physique et Chimie, Branch of Paris University. Vice-President, 1946; Director, 1946. Committees: Board of Editors, 1944-45; International Liaison, 1947; Membership, 1927.

deROSA, Louis A. (A'45—SM'51—F'52), Division Head, Electronics Warfare Division, 500 Washington Ave., Nutley 9, N.J.
Born: September 10, 1910, Tenafly, N.J., B.S. in E.E., 1932, Polytechnic Institute, Brooklyn, N.Y. Committees: Modulation Systems, 1951-52.

DEVORE, Lloyd T. (A'42—SM'44—F'52), Manager, General Electric Company, Electronics Laboratory, Electronics Park, Syracuse, N.Y.
Born: November 14, 1909, Monongahela, Pa. B.S., 1930, M.S., 1931, Ph.D., 1933, The Pennsylvania State College, State College, Pa.; Committees: Awards, 1952. Papers Review, 1951-52, Program, 1948-49. Exceptional Civilian Service Award, 1947, War Department.

DeWITT, John H. (A'31—M'38—SM'43—F'51), President, WSM Incorporated, 7th and Union Sts., Nashville, Tenn.
Born: February 20, 1906, Nashville, Tenn. Professional Groups: 1948. Sigma Xi, 1949.

d'HUMY, Fernand E. (A'41—SM'45—F'49), Director, Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: August 1873, London, England.

DIEHL, William F. (A'19—M'29—F'36), Assistant Vice-President, Airplane and Marine Instruments, Inc., Clearfield, Pa.
Born: December 18, 1896, New York, N.Y. Committees: Building Fund, 1945; Radio Transmitters and Antennas, 1929-30, Subcommittee, Receiving Sets, 1928. Sections: Philadelphia, *chairman, 1933-34; convention chairman, 1934.* United States Navy Certificate Commendation.

DOHERTY, William H. (A'29—M'36—SM'43—F'44), Director of Electronic & Television Research, Research in Electrical Communications, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August 21, 1907, Cambridge, Mass. S.B., 1927, S.M., 1928, Harvard University, Cambridge, Mass. Sc.D., 1950, Catholic University of America, Washington, D.C. Morris Liebmann Memorial Prize, 1937. Director, 1951-52. Committees: Membership, 1943-46; Nominations, 1952; Policy Advisory, 1952; Policy Development, 1951; Professional Groups, 1948-51.

DOME, Robert B. (A'27—M'38—SM'43—F'48), Electrical Consultant and Section Engineer, Receiver Department, Electronics Division, General Electric Company, P.O. Box 1122, Electronics Park, Syracuse, N.Y.
Born: October 12, 1905, Tell City, Ind. B.S.(E.E.), 1926, Purdue University, Lafayette, Ind.; M.S.(E.E.), 1929, Union University, Schenectady, N.Y. Committees: Board of Editors, 1946-52; Papers, 1940-45. Sigma Xi, 1926; Coffin Awards, 1936, 1948.

DORSEY, Herbert Grove (M'19—F'34), Instructor in Physics, Capitol Radio Engineering Institute, 3224 16 St., N.W., Washington, D.C.
Born: April 24, 1876, Kirkersville, O. B.S., 1897, M.S., 1898, Sc.D. (Honorary), 1937, Denison University Granville O.; Ph.D., 1908, Cornell University, Ithaca, N.Y. Sections: Washington, D.C., *secretary, 1930-32, chairman, 1933.* Washington Academy of Sciences, Section Representative, *Vice-President, 1941-51.* First Annual Award, Washington Society of Engineers, 1941. Fellow, American Physical Society; Acoustical Society of America; AIEE.

DOW, Jennings B. (M'26—F'42), Executive Vice-President, Hazeltine Electronics Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y.
Born: January 2, 1897, Bowling Green, O. B.S., 1919, United States Naval Academy, Annapolis, Md.; M.S., 1926, Graduate School of Engineering, Harvard University.

DOW, William G. (M'39—SM'43—F'50), Professor, Department of Electrical Engineering, University of Michigan, Ann Arbor, Mich.
Born: September 30, 1895, Faribault, Minn. B.S.(E.E), 1916, E.E., 1917, University of Minnesota, Minneapolis, Minn.; M.S.E. (E.E.), 1929, University of Michigan. Committees: Board of Editors, 1944-52; Electronics, 1939-45; Electron Tubes, 1946-47; Electron Tubes and Solid State Devices, 1949-52; Papers, 1941-44, Research, 1949-50; Vacuum Tubes, 1945-46. Fellow, AIEE.

DUBILIER, William (A'14—M'18—F'29), Vice-President and Technical Director, Cornell-Dubilier Electric Corporation, President, Radio Patents Corporation; President, Patents Research Corp.; President, Koldweld Corporation, 10 E. 40 St., New York 16, N.Y.
Born: July 25, 1888, New York, N.Y. Attended Cooper Institute, New York, N.Y. Fellow, AIEE, 1925. Recipient French Legion of Honor and made Officer of the French Academy, July, 1949.

DUMONT, Allen B. (M'30—F'31), President, Allen B. DuMont Laboratories, Inc., 750 Bloomfield Ave., Clifton, N.J.
Born: January 29, 1901, Brooklyn, N.Y. E.E., 1924, D.Eng., 1944, Rensselaer Polytechnic Institute, Troy, N.Y. Committees: Standardization 1929-31; Standards, 1932-33; Television, 1939-45. Westinghouse Award, 1927; American Television Society Award, 1943; Television Broadcasters Award, 1944; Marconi Memorial Medal of Achievement, 1945; AAAA Gold Medal Award, 1947; American Schools and Colleges Award; Member, National Television Systems Committee, 1940-44.

DUNN, Gano (F'15) (L'50), President, The J. G. White Engineering Corp., 80 Broad St., New York, N.Y. Chairman of the Trustees, Cooper Union for the Advancement of Science and Art, New York, N.Y.
Born: October 18, 1870. B.S., 1889, M.S., 1897, College of the City of New York, New York, N.Y.; E.E., 1891, Columbia University, New York, N.Y.; D.Sc. (Honorary), 1938, Columbia University; D.Sc. (Honorary), Rutgers University, New Brunswick, N.J.; D.Sc. (Honorary), 1941, New York University, New York, N.Y; D.Eng. (Honorary), 1942, Lehigh University, Bethlehem, Pa.; D.Sc. (Honorary), 1947, College of the City of New York, N.Y.; LL.D. (Honorary), 1947, Bowdoin College, Brunswick, Me. Honorary Members, Association of Iron and Steel Engineers, 1930; Honorary Member, ASME, 1944; Honorary Member, AIEE, 1945; Honorary Member, ASCE, 1948; Townsend Harris Medal, College of the City of New York, 1933; Edison Medal, 1937; Hoover Medal, 1939; Egleston Medal, Columbia University, 1939; Modern Pioneer Award, National Association of Manufacturers, 1940; Peter Cooper Medal, 1950; Secretary (Honorary) in the W.S.A., Institution of Electrical Engineers of Great Britain.

DYER, John N. (J'30—A'32—SM'45—F'49), Vice-President, Research and Engineering, Airborne Instruments Laboratory, 160 Old Country Rd., Mineola, L.I., N.Y.
Born: July, 1910, Haverhill, Mass. B.S., 1931, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Navigation Aids, 1949-50. Sections: Long Island Subsection, *vice-chairman, 1949, chairman, 1950.*

EASTHAM, Melville (A'13—M'13—F'25) (L'50), 8 Graygardens East, Cambridge, Mass.
Born: June 26, 1885, Oregon City, Ore. Dr.Eng., 1946 (Honorary), Oregon State College, Corvallis, Ore. Medal of Honor, 1937. Treasurer, 1927-40, Manager, 1922-26; Director, 1927-41; Administrator, Building Fund, 1947-48. Committees: Admissions, 1937-39, 1941-42; Awards, *chairman, 1929, 1931, 1935, 1939, chairman, 1941, 1942;* Bibliography, 1930-31, *chairman, 1932, 1934;* Constitution and Laws, 1930-31; 1931; Education, 1944-48; Nominations, *chairman, 1929, 1930, 1932, chairman, 1935, 1936, 1938-39, 1941, 1949-50;* Papers, 1916-19; Revision of the Constitution, 1925; Sections, 1925; Standardization, 1925, 1927-28, 1930; Subcommittee on Electro-Acoustic Devices, 1927-28; Subcommittee on Circuit Elements, 1928; Technical Committee No. 4, on Electro-Acoustic Devices, 1929-30; Standards, 1936-38; Wave Length Regulation, 1916. Sections: Boston, *secretary, 1914-15; secretary-treasurer, 1916-29; secretary, 1930-32.* Institute Representative: Engineering Index National Committee, 1926, 1939-43; Radio Broadcasting Committee, American Engineering Council, 1930, 1936, 1939, 1940; United States National Committee. Advisers on Electrical Measuring Instruments, 1936, 1939-51. New England Engineering Award, 1948; Medal for Merit, 1948.

EASTMAN, Austin V. (A'23—M'32—F'41), Professor and Head of Department of Electrical Engineering, University of Washington Seattle 5, Wash.
Born: May 16, 1902, Seattle, Wash. B.S.(E.E.), 1922, M.S. (E.E.), 1929, University of Washington, Seattle, Wash. Director,

1950-51. Committees: Awards, 1951; Membership, 1941-48; Papers Procurement, 1942-43; Policy Development, 1949-51; Regular Papers, 1941. Sections: Seattle, *chairman, 1929-30.* Institute Representative: University of Washington, 1941-47.

ECKERSLEY, Peter Pendleton (F'25), Telephone Manufacturing Company, St. Mary Cray, Kent, England.
Born: January, 1892, La Puebla, Mexico. Certificate of Technology, 1915, Manchester School of Technology, North Manchester, Ind. Higher Certificate, 1910, Bedales School. Vice-President, 1937; Director, 1937. Premium Prize Award, Institution of Electrical Engineers, 1928, 1930.

ECKERSLEY, Thomas L. (F'44), Retired. Formerly, Chief Scientific Advisor to Marconi Wireless Telegraph Company, Ltd. "Weatheroak," Danbury, Nr. Chelmsford, Essex, England.
Born: December 27, 1886, London, England. B.Sc., University College, London; B.A., Cambridge University. Committees: Wave Propagation, 1937-1939. Fellow Award, 1944; Faraday Medal, 1951.

EHRET, Cornelius D. (F'16) (L'51), Retired, 6911 Clearview St., Philadelphia 19, Pa. Practiced Patent Law, Land Title Bldg., Philadelphia, Pa. from 1902 to July 1, 1948.
Born: January 28, 1874, Erie, Pa. E.E., 1896, Cornell University, Ithaca, N.Y. L.L.B., 1901, National Law School, Washington, D.C.

ELLEFSON, Bennett S. (A'38—M'44—F'48), Director of Central Engineering Laboratories, Sylvania Electric Products, Inc., 208-20 Willets Point Blvd., Bayside, L.I., N.Y.
Born: January 10, 1911, Canby, Minn. B.A., 1932, St. Olaf College; M.S., 1933, University of Minnesota; Ph.D., 1937, Pennsylvania State College. Committees: Annual Review, 1946-47.

ELLIOTT, Harold F. (M'25—SM'43—F'51), Consulting Engineer, 1216 Webster St., Palo Alto, Calif.
Born: June 17, 1892, Durango, Colo. A.B., 1916, Engineer, 1925, Stanford University, Stanford, Calif.

ELWELL, Cyril F. (M'14—F'18) (L'50), Consulting Engineer, Hewlett-Packard Company, 395 Page Mill Rd., Palo Alto, Calif.
Born: August 20, 1884, Melbourne, Victoria, Australia. A.B., 1907, E.E., 1908, Stanford University, Stanford, Calif. Committees: Increase of Membership, 1913-14.

ENGLUND, Carl R. (A'17—F'28), Retired. Formerly, Technical Staff, Bell Telephone Laboratories, Inc.
Born: November 13, 1884, Sioux City, Iowa. B.S., 1909, University of South Dakota, Vermillion, S.D. Committees: Fundamental Units and Measurements, 1933.

ENGSTROM, Elmer W. (A'25—M'38—F'40), Vice-President in Charge of RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: August 25, 1901, Minneapolis, Minn. B.S.(E.E.), 1923, University of Minnesota, Minneapolis, Minn. Sc.D. (Honorary), 1949, New York University, New York, N.Y. Director, 1949. Committees: Awards, 1945, *chairman, 1946,* 1947-49; Board of Editors, 1940-52; Nominations, 1947; Public Relations, 1940; Regular Papers, 1941; Research, 1946-47, 1950; Television and Facsimile, 1936-38; Television, 1939-40.

EPSTEIN, David W. (A'34—SM'43—F'52), Research Engineer, Princeton, N.J.
Born: January 11, 1908, Russia. B.S. in Physics, 1930, Lehigh University, Bethlehem, Pa., M.S. in E.E., 1934, DSc. in E.E., 1937, University of Pennsylvania, Philadelphia, Pa.

ESPENCHIED, Lloyd (M'12—F'24), Research Consultant, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: April 27, 1889, St. Louis, Mo. Pratt Institute, 1909, Brooklyn, N.Y. Medal of Honor, 1940. Manager, 1912-13, 1915-26, 1931. Committees: Admissions, 1942-47; Awards, 1919; Editing, 1914; Increase of Membership, 1917-18; Radio Telephone and Receiver Terminology, *chairman, 1924-25;* Revision of the Constitution, 1925; Standardization, 1924-25; Wave Length Regulation, 1916, 1919. Sections: New York, *chairman, 1944-45.* Institute Representative: National Advisory Council on Radio in Education, 1936-37, 1939-40; Committee on Engineering Developments, 1941-43. AIEE Award (co-receiver), 1945; Medal Award, Television Broadcasters Association, 1944.

EVANS, Porter H. (M'23—F'31), Engineer, Western Electric Company, 120 Broadway, New York 5, N.Y.
Born: January 11, 1891, Erie, Pa. B.S.(E.E.), 1914, M.S., 1920, University of Michigan, Ann Arbor, Mich. Committees: Standardization, 1930-31.

EVANS, Walter C. (M'26—SM'43—F'45), Vice-President, Westinghouse Electric Corporation; President, Westinghouse Radio Stations, Inc., Box 416, Baltimore 3, Md.
Born: August 27, 1898, Columbus, O. Committees: Awards, 1948; Public Relations, 1947-48.

EVERITT, William L. (A'25—M'29—F'38), Dean of the College of Engineering, University of Illinois, Urbana, Ill.
Born: April 14, 1900, Baltimore, Md. E.E., 1922, Cornell University, Ithaca, N.Y. M.S., 1926, University of Michigan, Ann Arbor, Mich.; Ph.D., 1933, Ohio State University, Columbus, O. President, 1945; Director, 1942-47, 1949-51. Committees: Awards, 1943, *chairman, 1944,* 1948, 1949; Board of Editors, 1941-52; Circuits, 1944-51; Education, *chairman, 1944,* 1950; Executive, *chairman, 1945;* Frequency Modulation, 1941-45; Investments, 1945; Membership, 1942-43; Nominations, 1942, 1946, *chairman, 1948,* 1949-50, 1952; Papers, 1941-42; Papers Procurement, *vice-chairman, 1943-45;* Policy Development, 1948-51; Professional Groups, *chairman, 1947-49,* 1950-52; Public Relations, 1950-51; Regular Papers, *vice-chairman, 1941;* Research, 1946-47; Institute Representative: Ohio State University, 1941-42; AIEE-IRE Coordinating Committee, 1950-51.

FARNSWORTH, Philo T. (A'28—M'34—F'39), Director and Vice-President in Charge of Research and Advanced Development Engineering, Capehart-Farnsworth Corporation, 3700 E. Pontiac St., Fort Wayne, Ind.
Born: August 19, 1906, Beaver, Utah. D.S. (Honorary), 1951, Indiana Technical College, Fort Wayne, Ind. Morris Liebmann Memorial Prize, 1941. Committees: Television, 1939-41; Television and Facsimile, 1936-38. Honorable Mention Citation for Outstanding Young Electrical Engineers, Eta Kappa Nu, 1937; Distinguished Alumni Award, Brigham Young University, 1937; Durward Howes' list of ten most distinguished young men for "America's Young Men," 1940; Fellow, Society of Motion Picture and Television Engineers, American Association for the Advancement of Science; Sigma Xi.

FARRAND, Clair L. (A'14—M'23—F'31), President, Farrand Optical Co., Bronx Blvd. and E. 238 St., New York 70, N.Y.
Born: October 22, 1895, Newark, N.J.

FARRELL, John J. (A'43—SM'47—F'48), Manager-Engineering, Government Equipment, Commercial and Government Equipment Dept., Electronics Department, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: March, 1897, Watervliet, N.Y. Committees: RMA-IRE Co-ordination, 1945-47; Nominating, 1947. Institute Representative: ASA Sectional Committee (C16) on Radio, 1949-50.

FARRINGTON, John F. (A'19—M'29—F'31), Engineer, Raytheon Manufacturing Company, Waltham, Mass.
Born: January 11, 1895, New York, N.Y. Licensed Professional Engineer, New York State Education Department, 1931. Committees: Admissions, 1938-39; New York Program, 1939.

FELDMAN, Carl B. H. (A'26—VA'39—F'43), Transmission Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: March 26, 1902, St. Peter, Minn. B.S.(E.E.), 1926, M.S. (E.E.), 1928, University of Minnesota, Minneapolis, Minn.

FICK, Clifford G. (F'51), Head, Communications Research Section, and Assistant Manager, Electron Physics Research Department, Research Laboratory, General Electric Company, Schenectady, N.Y.

Born: December 13, 1904, Ida Grove, Iowa. B.Sc.(E.E.), 1925, Iowa State College, Ames, Iowa. Committees: Annual Review, 1949-50; Television Systems, 1948-52.

FIELD, Lester M. (M'48—F'52), Professor, Stanford University, Stanford, Calif.
Born: February 9, 1918, Chicago, Ill. B.S., 1939, Purdue University, Lafayette, Ind.; Ph.D., 1941, Stanford University, Stanford, Calif. Committees: Papers Review 1950-52. Outstanding Young Electrical Engineer, 1949. Eta Kappa Nu.

FIELD, Robert F. (A'18—M'20—SM'43—F'47), Retired, Formerly, Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: July 10, 1885, Tuftonboro, N.H. A.B., 1906, A.M., 1906, Brown University, Providence, R.I. A.M., 1916, Harvard University, Cambridge, Mass. Committees: Meetings and Papers, 1930. Sections: Boston, *chairman, 1942-44.*

FINK, Donald G. (A'35—SM'45—F'47), Co-Director of Research Operations, Philco Corporation, Tioga and C. Sts., Philadelphia, Pa.
Born: November 8, 1911, Englewood, N.J. B.Sc., 1933, Massachusetts Institute of Technology, Cambridge, Mass. M.S., 1942, Columbia University, New York, N.Y. Director, 1949-51. Committees: Annual Review, 1946-48; Appointments, 1948-49; Awards, 1947; Board of Editors, 1946-52; Handbook, 1945-47; Joint Technical Advisory, *vice-chairman, 1948, chairman, 1948-1949,* 1950-52; Membership, 1942-45, *chairman, 1946,* 1947-48; Navigation Aids, *chairman, 1946-47,* 1948-51; Papers, 1943-45; Preparedness, 1940-41; Public Relations, 1940-42; Research, 1946-47; Standards, 1946-48; Television, 1946-47, *chairman, 1948;* Television Systems, 1949-52; Tellers, 1949. Medal of Freedom, War Department, 1946; Presidential Certificate of Merit, 1948.

FISK, Sir Ernest T. (M'15—F'26) (L'51), Managing Director, Electric and Musical Industries, Ltd., Blyth Rd., Hayes, Middlesex, England.
Born: August 8, 1886, Sunburyon-Thames, Middlesex, England. Vice-President, 1938; Director, 1938. Fellow, IRE, Australia; President, 1932-37, 1939-43. Honorary Member, Institution of Electrical Engineers, London; Honorary Member, British Institution of Radio Engineers.

FORBES, Henry C. (A'20—M'29—SM'43—F'48), President, Forbes and Wagner, Inc., 339 Central Ave., Silver Creek, N.Y.
Born: February 27, 1899, Rockland, Mass. B.S., 1922, E.E., 1923, University of Minnesota Minneapolis, Minn. Director, 1940. Committees: Board of Editors, 1946-52; Membership, 1950-51; Public Relations, 1947; Receivers, 1941-47.

FOSTER, Dudley E. (A'26—M'37—SM'43—F'50), Vice-President, Hazeltine Research, Inc., of California, 3320 Burbank Blvd., Burbank, Calif.
Born: December, 1900, Newark, N.J. E.E., 1922, Cornell University, Ithaca, N.Y. Committees: Annual Review, 1938-41, 1945-46; New York Program, 1937; Papers Procurement, 1941-43; Radio Receivers, 1936-37, *chairman, 1938-41, 1942-45, chairman, 1945-46, 1947;* Regular Papers, 1941; Standards, 1938-41, 1945-46; Television, 1939-46; Television and Facsimile, 1938. Modern Pioneer Award, National Association of Manufacturers, 1940.

FRIIS, Harald T. (A'18—M'26—F'29), Director of Research in High Frequency and Electronics, Bell Telephone Laboratories, Inc., Box 107, Red Bank, N.J.
Born: February 22, 1893, Neastved, Denmark, E.E., 1916, Dr., Eng., 1938, Royal Technical College, Copenhagen, Denmark. Morris Liebmann Memorial Prize, 1939. Director, 1941-43. Committees: Admissions, 1941; Papers, 1941; Research, 1946-47.

FULLER, Leonard F. (A'14—M'14—F'25), Acting Professor of Electrical Engineering and Co-ordinator of Government Research Contracts, Stanford University, Stanford, Calif.
Born: August 21, 1890, Portland, Ore. M.E., 1912, Cornell University, Ithaca, N.Y. Ph.D., 1919, Stanford, University, Stanford, Calif. Morris Liebmann Memorial Prize, 1919. Manager, 1928. Committees: Admissions, 1928-29; Sections, 1926-28; Specifications for Steamship Radio Equipment, 1914; Standardization, 1916-19, 1930; Technical Committee No. 2, Radio Transmitters and Antennas, 1930-31; Subcommittee on the Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, 1930-31; Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials used in Radio Transmitters and Antennas, 1930-31; Transmitters and Antennas, 1929-30; Wave Length Regulation, 1916, 1919. Sections: San Francisco, *chairman, 1928-29.*

GEBHARD, Louis August (A'20—M'42—SM'43—F'49), Superintendent, Radio Div. II, United States Naval Research Laboratory, Washington, D.C.
Born: June, 1896, Buffalo, N.Y. B.S.(E.E.), George Washington University, Washington, D.C. LL.B., Georgetown University. Presidential Certificate of Merit, 1946; Fellow, American Physics Society.

GILL, Archibald J. (M'20—F'40), Engineer-in-Chief, General Post Office, London, E.C.1, England.
Born: May 13, 1889, Stoke-Sub-Hamdon, Somerset, England. B.Sc. (E.E.), 1909, University of London, London, England.

GILLETT, Glenn D. (A'22—M'27—F'34), Senior Partner, Gillett and Bergquist, Consulting Radio Engineers, 982 National Press Bldg., Washington 4, D.C.
Born: April 14, 1898, Sterling, Colo. A.B., 1919, Harvard University, Cambridge, Mass. S.B.(E.E.), 1921 Harvard Engineering School. Committees: Broadcast, 1935, 1937; Radio Wave Propagation 1942-45; Wave Propagation, 1937-41.

GILMAN, George W. (A'29—SM'47—F'50), Director of Systems, Engineering, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: August, 1901, Salmon River, Nova Scotia, Canada. M.S., 1923, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Board of Editors, 1945-48; Frequency Modulation, 1940-42; Public Relations, 1940-41; Publicity, 1941.

GINZTON, Edward L. (F'51), Professor of Applied Physics and Electrical Engineering; Director, Microwave Laboratory, Stanford, University, Stanford, Calif.
Born: December 27, 1915, Ekaterinoslavsk, Russia. B.S., 1936, M.S., 1937, University of California, Berkeley, Calif. E.E., 1938, Ph.D., 1940, Stanford University, Stanford, Calif.

GOLDMARK, Peter G. (A'36—M'38—F'42), Vice-President, Engineering Research and Development, Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y.
Born: December 2, 1906, Budapest, Hungary. B.Sc., 1930, Ph.D., 1931, Vienna Technical College, Vienna, Austria. Morris Liebmann Memorial Prize, 1945. Committees: Board of Editors, 1941-50; Television and Facsimile, 1938; Television Systems, 1949-52; Television, 1939-48. Technical Progress Medal, Television Broadcasters Association, 1944.

GOLDSMITH, Alfred N. (M'12—F'15), Consulting Engineer, 597 Fifth Ave., New York 17, N.Y.
Born: September, 1889, New York, N.Y. B.S., 1907, College of the City of New York; Ph.D., 1911, Columbia University; Sc.D., 1935, Lawrence College, Appleton, Wis. Medal of Honor, 1941. President, 1928; Secretary, 1918-27; Editor, 1912-28, 1930-52; Director, 1912-52. Committees: Administrative Committee of the Board of Editors, *chairman, 1951-52;* Admissions, 1925; Awards, 1919, 1931, *chairman, 1930,* 1932-33, 1935, 1938; Bibliography, 1934; Board of Editors, *chairman, 1928,* 1930-52; Constitution and Laws, *chairman, 1935,* 1936-40; Convention Policies, 1940; Editorial Administrative, *chairman, 1946-50;* Executive, 1942-52; Finance, 1914, *chairman, 1915;* Fiscal, 1947-48; Meetings and Papers, 1925-26; Nominations, 1929, *chairman, 1930,* 1931, 1936, *chairman, 1940;* Office Quarters, 1947; Papers, *chairman, 1913-19;* Planning, 1947; Special Papers, 1940-41; Membership Solicitation Policy, 1945; Standardization, *secretary, 1913, chairman, 1915,* 1916-31; Sub-Committee, Circuit Elements, 1928; Standards, 1932-36; Television and Facsimile, 1936-38; Tellers, *chairman, 1932;* Wave Length Regulation, 1916, 1919. Institute Representative: ASA Standards Council, 1936, 1939-46; ASA Sectional Committee on

Radio, 1936, 1939-40, *chairman, 1942-48;* ASA Subcommittee on Insulating Material Specifications for the Military Services, *chairman, 1943-48;* ASA War Committee on Radio, 1943-48; National Advisory Council on Radio in Education, 1936, 1939-40; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941-43; National Television Systems, 1940-43, 1950-51; Panel 2, *chairman, 1942-43, 1950-51;* Joint Coordination Committee, IRE-AIEE, 1951. Modern Pioneer Award, National Association of Manufacturers, 1940; Townsend Harris Medal, College of the City of New York, 1942; Medal Award, Television Broadcasters Association, 1945; and other awards.

GOLDSMITH, Thomas T., Jr. (A'38—SM'46—F'49), Director of Research, Allen B. DuMont Laboratories, Inc., 2 Main Ave., Passaic, N.J.
Born: January, 1910, Greenville, S.C. B.S., 1931, Furman University, Greenville, S.C. Ph.D., 1936, Cornell University, Ithaca, N.Y. Committees: Admissions, 1944-47; Electronics, 1942-45; Electron Tubes, 1946; Professional Groups, 1948; Regular Papers, 1941; Television, 1939-46; Tellers, 1944, Vacuum Tubes, 1945-46. Fellow, Society of Motion Picture Engineers.

GOODALL, William McH. (A'29—M'37—SM'43—F'51), Technical Staff, Bell Telephone Laboratories, Inc., Box 107, Red Bank, N.J.
Born: September 7, 1907, Washington, D.C. B.Sc., 1928, California Institute of Technology, Pasadena, Calif. Committees: New York Program, 1939-41; Papers Review, 1946-52; Tellers, *chairman, 1939, 1941.* Sections: Monmouth, N.J. Subsection, *secretary-treasurer, 1950.*

GRAHAM, Virgil M. (A'24—M'27—F'35), Director of Technical Relations, Sylvania Electric Products, Inc., 208-20 Willets Point Blvd., Bayside, L.I., N.Y.
Born: January 22, 1902, Rochester, N.Y. Attended University of Rochester, Rochester, N.Y. Director, 1935-41, 1946-48. Committees: Appointments, 1948; Awards, 1940, 1947-49; Constitution and Laws, 1940, 1944; Executive, 1948; Meetings and Papers, 1928-29; Membership, 1949, 1950; National Convention, 1947-50; Nominations, 1940; Papers Procurement, 1942-43, 1946; Professional Groups, 1948-49; Public Relations, *chairman, 1947-48;* Publicity, 1935-36; Radio Receivers, 1936-40, Regular Papers, 1941; RMA-IRE Co-ordinating, *chairman, 1947-49;* Sections, 1930-34, *chairman, 1936-37,* 1938-45, 1948; Standardization, 1925, 1929-30; Subcommittee, Aircraft Receivers, *chairman, 1929-30;* Subcommittee Power Supply, 1928; Technical Committee No. 1 Radio Receivers and Parts, 1929-30; Standards, 1932, 1935-43, 1945-47. Sections: Rochester, *chairman, 1926-27.* Institute Representative: ASA Sectional Committee on National Electrical Safety Code, Radio Broadcast Reception Equipment (Alternate, 1939-48); ASA Sectional Committee on Radio (C16) *chairman, 1949-52.* Professional Groups: Broadcast and Television Receivers, 1949-52, *chairman, 1949-51.*

GROVER, Frederick W. (M'17—SM'43—F'49) (L'52), Professor (Emeritus) of Electrical Engineering, Union College, Schenectady, N.Y.
Born: September 3, 1876, Lynn, Mass. S.B., 1899, Massachusetts Institute of Technology, Cambridge, Mass. M.S., 1901, Wesleyan University, Middletown, Conn. Ph.D., 1907, George Washington University, Washington, D.C. Ph.D., 1908, Ludwig Maximilian University, Munich, Germany. Committees: Board of Editors, 1932-52; Papers, 1941-45. Institute Representative: Union College, N.Y., 1941-48.

GUILLEMIN, E. A. (A'41—SM'48—F'49), Professor of Electrical Communications, Massachusetts Institute of Technology, Cambridge, Mass.
Born: May, 1898, Milwaukee, Wis. B.S., 1922, University of Wisconsin, Madison, Wis. S.M.(E.E.), 1924, Massachusetts Institute of Technology, Cambridge, Mass. Ph.D., 1926, University of Munich, Germany (Saltonstall Fellow). Committees: Annual Review, 1944-46; Board of Editors, 1952; Circuits, *chairman, 1944-47,* 1947-51; Education, 1947-48; Standards, 1944-46. Institute Representative: Massachusetts Institute of Technology. 1945-51. Presidential Certificate of Merit, 1948.

GUNN, Ross (A'35—SM'47—F'49), Director of Physical Research, United States Weather Bureau, Washington 25, D.C.
Born: May, 1897, Cleveland, O. B.S.(E.E.), 1920, M.S., 1921, University of Michigan, Ann Arbor, Mich. Ph.D., 1926, Yale University, New Haven, Conn. Distinguished Service Citation, United States Navy, 1945; Air Safety Award, 1951, Fellow, America Physical Society, Member, National Academy of Sciences.

GUSTAFSON, Gilbert E. (A'27—M'38—F'40), Vice-President in Charge of Engineering, Zenith Radio Corporation, 6001 Dickens Ave., Chicago 39, Ill.
Born: November 15, 1905, Rock Island, Ill. Director, 1943. Committees: Admissions, 1943; Awards, 1942.

GUY, Raymond F. (A'25—M'31—F'39), Manager, Radio and Allocation Engineering, National Broadcasting Company, 30 Rockefeller Plaza, New York 20, N.Y.
Born: July 4, 1899, Hartford, Conn. I.E.E., 1921, Pratt Institute, Brooklyn, N.Y. President, 1950; Treasurer, 1947; Director, 1944-48, 1950-52. Committees: Annual Review, 1943-46; Antennas, 1944-47; Broadcasting, 1929-32; Building Fund, *vice-chairman, 1948;* Constitution and Laws, 1945, *chairman, 1946,* 1947-48, 1952; Education, 1945-48; Executive, 1946, *vice-chairman, 1947, chairman, 1950,* 1951, 1952, Fiscal, 1947-48; Finance, 1951-52; Founders, *chairman, 1947;* Frequency Modulation, 1942-46; Investments, 1947; Membership, 1947-48, *chairman, 1949;* Modulation Systems, 1947-50; Nominations, 1951; Office Practices, *chairman, 1947;* Professional Groups, 1951-52; Public Relations, *chairman, 1949,* 1951, 1952; Standards, 1943-45, *chairman, 1945-46;* Radio Transmitters, *chairman, 1944-45;* Transmitters and Antennas, 1936-42, *chairman, 1943-44;* Winter Technical Meeting, 1946; Investments, *chairman, 1949.* Institute Representatives: ASA Standards Council, *alternate, 1946-48;* Joint Technical Advisory Committee, 1950.

HACKBUSCH, Ralph A. (A'26—M'30—F'37), President and Manager Director, Stromberg-Carlson Company, Ltd., 211 Geary Ave., Toronto 4, Canada.
Born: September 18, 1900, Hamilton, Ont., Canada. Vice-President, 1944, Director, 1938, 1944-46. Committees: Admissions, 1940; Awards, 1947-50; Public Relations, 1940, 1947-51; Sections, 1936-37; Standards, 1949-52. Sections: Toronto, *secretary, 1930-31; chairman, 1932-33.*

HAEFF, Andrew V. (A'34—M'40—SM'43—F'49), Head, Electron Tube Laboratories, Hughes Aircraft Company, Culver City, Calif.
Born: December, 1904, Moscow, Russia. E.E. and M.E., 1928, Russian Polytechnic Institute, Harbin, China; M.S.(E.E.), 1929, Ph.D., 1932, California Institute of Technology, Pasadena, Calif. Committees: Board of Editors, 1951-52; Editorial Administrative, 1949-51; Nuclear Studies, 1948. Special Research Fellowship, California Institute of Technology, 1932-33; Harry Diamond Memorial Award, 1950.

HALLBORG, Henry E. (F'45), Research and Engineering Consultant on High-Frequency Propagation, and Associated Equipments. Home address, 26 Macopin Ave., Upper Montclair, N.J. Retired, RCA Laboratories, 1949.
Born: April, 1884, Stockholm, Sweden. B.Sc.(E.E.), 1907, Brown University, Providence, R.I. Committees: Constitution and Laws, 1928-32; Radio Transmitters and Antennas, 1930-31; Standardization, 1929-30; Subcommittee on the Establishment of Provisions for Safety of Operating and Other Personnel in Relation to Radio Transmitting Equipment, *chairman, 1930-31;* Subcommittee on Methods of Testing Apparatus, Equipment, Devices and Materials Used in Radio Transmitters and Antennas, 1930-31; Transmitters and Antennas, 1930.

HALLER, George L. (A'28—M'36—SM'43—F'50), Dean, School of Chemistry and Physics, The Pennsylvania State College, 123 Osmond Laboratory, State College, Pa.
Born: May 8, 1907, Pittsburgh, Pa. B.S. (E.E.), 1927, E.E., 1934, M.S. (Physics), 1935, Ph.D. (Physics), 1942, Pennsylvania State College, State College, Pa. Committees: Papers Review, 1946-50. Sections: Dayton, *chairman, 1944-45;* Centre County (sub-section), *chairman, 1949-50.* Legion of Merit, United States Air Force, 1946.

HALLMAN, Ludlow B., Jr. (J'27—A'29—S'44—F'52), Chief, Plans-Operations Office, C. and N. Laboratory, WADC, Wright-Patterson Air Force Base, Dayton, O.
Born: July 21, 1907, Sneads, Fla.; B.S., 1929, E.E., 1934, Alabama Polytechnic Institute, Auburn, Ala.; Committees: Modulation Systems, 1948-50. Sections: Dayton, *chairman, 1945.* War Department Commendation, 1946.

HANSELL, Clarence W. (A'26—M'29—SM'43—F'45), Research Supervisor, Transmission, RCA Laboratories Division, Radio Corporation of America, Rocky Point, N.Y.
Born: January 20, 1898, Medaryville, Ind. B.S.(E.E.), 1919, Purdue University, Lafayette, Ind. Joint Modern Pioneer Award, National Association of Manufacturers, 1940.

HANSON, O. B. (A'18—M'28—F'41), Vice-President and Chief Engineer, National Broadcasting Company, 30 Rockefeller Plaza, New York, N.Y.
Born: February 11, 1894, Huddersfield, Yorkshire, England. Director, 1938-43. Committees: Meetings and Papers, 1929, Members, 1950; Nominations, 1944-45, 1948; Papers, 1942-45; Papers Procurement, 1942-43; Papers Review, 1946-51; Public Relations, 1940-46; Regular Papers, 1941; Standardization, 1929; Tellers, *chairman, 1941.*

HARMON, Ralph N. (A'30—SM'45—F'52), Engineering Manager, Westinghouse Radio Stations, Inc., 1625 K St., N.W., Washington, D.C.
Born: August 29, 1906, California, Pa. B.S. in E.E., 1928, Carnegie Institute of Technology, Pittsburgh, Pa. Committees: Technical on Television Systems, 1947-48, 1952; Membership, 1950-51. Section: Baltimore, *vice-chairman, 1944-45; chairman, 1945-46.* Patent Awards, Westinghouse Electric Corp.; Award of Merit, U.S. Navy Bureau of Ships, U.S. Navy Ordnance, NDRC.

HARNETT, Daniel E. (A'25—M'35—F'42), General Electric Company, Electronics Park, Syracuse, N.Y.
Born: July 20, 1899, Elmira, N.Y. A.B., 1922, E.E., 1925, Columbia University, New York, N.Y. Committees: Admissions, 1941-43; Awards, 1945-46; New York Program, 1940; Papers Procurement, 1947-48; Radio Receivers, 1936-41; Standardization: Technical Committee No. 3, Vacuum Tubes, 1929-30.

HARTLEY, Ralph V. L. (M'19—F'28), Retired, Formerly, Research Consultant, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: November 30, 1888, Spruce, Nev. A.B., 1909, University of Utah, Salt Lake City, Utah; B.A., 1912, B.Sc., 1913, Oxford University. Medal of Honor, 1946. Committees: Section, 1945.

HARTIG, Henry E. (A'36—M'41—SM'43—F'52), Professor and Head Elect. Engrg. Dept., University of Minnesota, Minneapolis, Minn.
Born: January 28, 1892, Minneapolis, Minn. B.E.E., 1918, Ph.D., 1924, University of Minnesota, Minneapolis, Minn. Committees: Education, 1952. Sections: Twin City, *chairman, 1945-46.* Fellow, AIEE.

HAYES, Leslie W. (F'38), Vice Director, International Radio Consultative Committee, International Telecommunication Union, Palais Wilson, Geneva, Switzerland.
Born: May 31, 1896, London, England.

HAZELTINE, Alan (A'16—M'18—F'21) (L'51), Consulting Engineer, 15 Tower Dr., Maplewood, N.J.
Born: August 7, 1886, Morristown, N.J. M.E., 1906, Sc.D. (Honorary), 1933, Stevens Institute of Technology, Hoboken, N.J. A.M., 1938, Columbia University, New York, N.Y. President, 1936; Manager, 1923-28; Director, 1936-39. Committees: Admissions, 1925-28; Awards, *chairman, 1937, 1938;* Education, 1945-47; Meetings and Papers, 1925, 1927; New York Program, 1935; Standardization, 1924-28. Subcommittee on Receiving Sets, 1927-28; Subcommittee on Vacuum Tubes, *chairman, 1927;* Subcommittee on Vacuum Tube Terminology, *chairman, 1924-25.* Armstrong Medal, Radio Club of America, 1937.

HEINTZ, Ralph M. (A'21—M'27—F'30), Consulting Engineer, P.O. Box 546, Los Gatos, Calif.
Born: April 20, 1892, St. Louis, Mo. A.B., 1920, Stanford University, Stanford, Calif. Committees: Membership, 1938-40; New York Program, 1938; Papers Review, 1946; Sections, 1938-40. Sections: San Francisco, *chairman, 1931-32.*

HEISING, Raymond A. (A'20—F'23), Patent Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August 10, 1888, Albert Lea, Minn. E.E., 1912, University of North Dakota, Grand Forks, N.D. M.S., 1914, University of Wisconsin, Madison, Wis.; D.Sc., 1947, University of North Dakota, Morris Liebman Memorial Prize, 1921. President, 1939; Treasurer, 1943-45; Manager, 1927-31; Director, 1933-35, 1939-41, 1943-45, 1947-49. Committees: Admissions, 1927, *chairman, 1928-30, vice-chairman, 1931,* 1933, 1935-38; Appointments, 1948; Constitution and Laws, 1930-34, 1941-42, *chairman, 1943-44,* 1945-50, *chairman, 1951-52;* Executive, *vice-chairman, 1943-45;* Investments, *chairman, 1944-45,* 1946; Meetings and Papers, 1926; Membership Solicitation Policy, 1945; New York Program, 1933, 1935-37; Nominations, 1933, *chairman, 1941, 1950;* Office Quarters, *chairman, 1945-47;* Planning, *chairman, 1947;* Policy Development, 1948-50; Preparedness, 1940-41; Professional Groups, 1948-52; Sections, *chairman, 1941-45,* 1946-52; Standardization, 1925. Modern Pioneer Award, National Association of Manufacturers, 1940; Fellow, AIEE; Fellow, American Physical Society.

HENDERSON, John T. (F'51), Senior Research Officer, National Research Council, Sussex St., Ottawa, Ontario, Canada.
Born: December 9, 1905, Montreal, P.Q., Canada. B.S., 1927, M.S., 1928, McGill University; Ph.D., 1932, University of London. Sections: Ottawa, 1948-49, *vice-chairman, 1949-50, chairman, 1950-51.* Fellow, Royal Society of Canada, 1944. M.B.E., Dominion of Canada, 1943.

HENNEY, Keith (A'18—M'26—SM'43—F'43), Consulting Editor, Electronics; Editor, Nucleonics, McGraw-Hill Publishing Company, Inc., 330 W. 42nd St., New York, N.Y.
Born: October 28, 1896, McComb, O. A.B., 1921, Western Reserve University, Cleveland, O., A.M., 1925, Harvard University, Cambridge, Mass. Director, 1945-48. Committees: Annual Review, 1937-48; Awards, 1945-46, 1948, *chairman, 1949, 1950;* Executive, 1946-47; Membership Solicitation Policy, 1945; New York Program, 1934, 1936-38, 1940-41, *chairman, 1942;* Nominations, 1950; Nuclear Studies, 1948; Planning, 1947; Policy Development, 1951; Publicity, 1937-39; Public Relations, 1943-50; RMA-IRE Co-ordinating, 1947-49; Standards, 1945-48. Institute Representative: IRE-RMA Co-ordination Committee, 1950; Atomic Energy Commission for the Release of Technical Information. Institute Representative: Joint IRE-RTMA, Co-ordination Committee, 1951.

HEROLD, Edward W. (A'30—M'38—SM'43—F'48), Director, Radio Tube Research Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: October 15, 1907, New York, N.Y. B.Sc., 1930, University of Virginia, Charlottesville, Va. M.Sc., 1942, Polytechnic Institute of Brooklyn, Brooklyn, N.Y. Committees: Board of Editors, 1946-52; Editorial Administrative, 1946-51; Membership, 1942; Papers, 1944, 1945; Winter Technical Meeting, 1945. Sections: Princeton, *vice-chairman, 1948; chairman, 1949.*

HEWLETT, William R. (S'35—A'38—M'47—F'48), Vice-President, Hewlett-Packard Company, 395 Page Mill Rd., Palo Alto, Calif.
Born: May 20, 1913, Ann Arbor, Mich. A.B., 1934, Stanford University, Stanford, Calif. M.S., 1936, Massachusetts Institute of Technology, Cambridge, Mass. E.E., 1939, Stanford University, Stanford, Calif. Director, 1950-52. Committees: Nominations, 1950-52; Policy Development, 1950-52. Sections: San Francisco, *vice-chairman, 1948-49; chairman, 1949-50.*

HILL, Albert G. (SM'46—F'50), Professor of Physics; Director, Research Laboratory of Electronics, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass.
Born: January 11, 1910, St. Louis, Mo. B.S., 1930, M.S., 1934,

Washington University, St. Louis, Mo. Ph.D., 1937, University of Rochester, Rochester, N.Y. Presidential Certificate of Merit, 1948.

HILLIARD, John K. (A'41—SM'43—F'52), Chief Engineer, 9356 Santa Monica Blvd., Beverly Hills, Calif.
Born: October 22, 1901, Wyndmere, N.D. B.S., 1924, Hamline University, St. Paul, Minn., Ph.D. in E., University of Hollywood. Committees: Professional Group on Audio, *advertising chairman, 1952;* Editorial Board, 1951-52; Audio Techniques, 1950, 1951-52. Section: Los Angeles, *chairman, 1933-34.* Fellow, Society of Motion Picture and Television Engineers.

HINNERS, Frank A. (M'15—F'26), Vice-President in Charge of Engineering, Jewel Radio Corporation, 10-40 45 Ave., Long Island City, N.Y.
Born: February 19, 1894, New York, N.Y. I.E.E., 1915, Pratt Institute, Brooklyn, N.Y. Committees: New York Program, 1941-42. Charter Member, Wireless Institute.

HIRSCH, Charles J. (F'51), Chief Engineer, Research Division, 58-25 Little Neck Parkway, Little Neck, L.I., N.Y.
Born: October, 1902, Pittsburgh, Pa. A.B., 1923, Columbia College; E.E., 1925, Columbia University. Committees: Navigation Aids, 1947-52, *vice-chairman, 1950-52.* Board of Editors, 1952; Certificate of Commendation, U. S. Navy, 1947. Section: Long Island Subsection, *vice-chairman, 1952.*

HOGAN, John V. L. (M'12—F'15), President, Hogan Laboratories, Inc. 155 Perry St., New York, N.Y.
Born: February 14, 1890, Philadelphia, Pa. President, 1920; Vice-President, 1916-19; Manager, 1912-15, 1921-32; Director, 1916-20, 1932-36, 1948-50. Committees: Annual Review, 1927, 1947-51; Appointments, 1948; Awards, 1919, *chairman, 1928,* 1932-33, 1945, 1948; Broadcasting, 1929-37; Constitution and Laws, 1928-29, *chairman, 1932-34,* 1935-36; Constitutional Amendments, *chairman, 1915;* Editing, *chairman, 1914,* Facsimile, 1939-46, *chairman, 1947-51,* 1952; Finance, 1915; Financial Matters, 1915; Increase of Membership, *chairman, 1916,* 1917-19; Joint Technical Advisory, 1948-50, 1950-52, 1952-54; Nominations, 1931, 1937-38, 1943-44, *chairman, 1945;* Papers, 1915-19, 1942-45; Papers Procurement, 1947; Papers Review, 1946; Policy Advisory, 1952; Policy Development, 1950-51; Professional Groups, 1950; Professional Recognition, 1947; Publicity, *chairman, 1913,* 1914, *chairman, 1915,* 1916-19; Revision of the Constitution, *chairman, 1925,* 1926-27; Sections, 1925; Specifications for Steamship Radio Equipment, 1914; Standardization, 1913, 1915, *chairman, 1916-19,* 1920-29, 1932, 1936-37, *1947-51;* Subcommittee on Vacuum Tubes, *chairman, 1927;* Subcommittee on Receiving Sets, 1927-28; Subcommittee on Use of the Transmission Unit, *chairman, 1928.* Institute Representative; ASA Sectional Committee on Electrical Installation on Shipboard, 1930, 1936; ASA Sectional Committee on Radio, 1930; ASA Sectional Committee on Radio Electrical Coordination, 1936, 1939-46; Joint Advisory Committee, 1948-52.

HOLMES, Lynn C. (M'44—SM'46—F'49), Director of Research, Stromberg-Carlson Company, 100 Carlson Rd., Rochester, N.Y.
Born: April, 1904, Brookfield, N.Y. E.E., 1925, M.E.E., 1932, Rensselaer Polytechnic Institute, Troy, N.Y. Fellow, A.I.E.E.

HOLMES, Ralph S. (A'25—SM'45—F'52), Director, Contract Research Laboratory, Radio Corporation of America, David Sarnoff Research Center, RCA Laboratories Division, Princeton, N.J.
Born: May 26, 1902, Murray, Neb. B.S., 1923, University of Nebraska, Lincoln, Neb. Committees: Radio Receivers, 1939-40. Modern Pioneer Award, National Association of Manufacturers, 1937.

HOOPER, Stanford C. (F'28—A'33—F'46), Rear Admiral, United States Navy, Retired. 6320 Alton Rd., Miami Beach, Fla.
Born: August 16, 1884, Colton, Calif. B.S., 1905, United States Naval Academy, Annapolis, Md. LL.D. (Honorary), 1948, Drury College, Springfield, Mo. Medal of Honor, 1934. Committee: Increase of Membership, 1913-14. Elliot Cressen Medal, Franklin Institute; Marconi Medal of Merit; Veterans Wireless Medal.

HORN, Charles W. (A'14—M'28—F'30), Partner and Manager, Radio Impulsora Mexicana, S.A., Calle Rhin 33, Colonia Cuauhtemoc, Mexico City, D.F., Mexico.
Born: July 9, 1894, New York, N.Y. Director, 1933-34. Committees: Admissions, 1933-37, 1940-42; Broadcasting, 1928-32; Broadcast, 1933-37; New York Program, 1932, *chairman, 1933, 1934;* Public Relations, 1945-46; Sections, 1929-30, *chairman, 1931-32, 1933;* Television and Facsimile, 1936-38. Institute Representative: National Advisory Council on Radio in Education, 1936, 1939-40; Committee on Engineering Developments, 1941-43.

HORTON, J. Warren (A'20—F'29), Research Consultant, United States Navy Underwater Sound Laboratory, New London, Conn.
Born: December 18, 1889, Ipswich, Mass. S.B., 1914, Sc.D., 1935, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Awards, 1932; Board of Editors, 1930-31, 1935-40; Meetings and Papers, 1929, *chairman, 1930;* Membership, 1947; Standards, *chairman, 1931-32;* Technical Committee No. 3, Vacuum Tubes, 1929-30. Institute Representative: United States National Committee, Advisers on Symbols (International Electrotechnical Committee). 1936-37, 1939-51.

HOWES, Frederick S. (A'37—M'43—SM'43—F'50), Associate Professor, Electrical Engineering, and Director, Department of University Extension McGill University, Montreal, P.Q., Canada.
Born: July 25, 1896, Paris, Ont., Canada. B.S.(E.E.), 1924, M.Sc., (E.E.), 1926, McGill University, Montreal, P.Q., Canada, Ph.D. (E.E.), 1929, Imperial College, University of London. Director, 1948. Committees: Education, 1945-46, 1951-52; Awards, 1950, 1951. Sections: Montreal, *chairman, 1944-45;* Canadian Council, *chairman, 1947-48.* Institute Representative: McGill University, 1941-51.

HULL, David R. (A'36—F'47), Captain, United States Navy, retired; Vice-President, General Manager, Equipment Divisions, Raytheon Manufacturing Company, Waltham, Mass.
Born: October, 1903, Newton, N.J. B.S., 1925, United States Naval Academy, Annapolis, Md. M.S., 1933, Harvard University, Cambridge, Mass. Committees: Electron Tube, 1946-47; Electronics, 1943-45; Vacuum Tubes, 1945-46. Legion of Merit; Navy Commendation Ribbon.

HULL, Lewis M. (J'17—A'19—M'27—F'28), Chairman of The Board, Aircraft Radio Corporation, Boonton, N.J.
Born: February 27, 1898, Great Bend, Kan. A.B., 1917, A.M., 1918, University of Kansas, Lawrence, Kan. Ph.D., 1922, Harvard University, Cambridge, Mass. President, 1933; Manager, 1929-32; Director, 1932-35. Committees: Admissions, 1927-28; Awards, *chairman, 1935,* 1936-37; Broadcasting, *chairman, 1928-31,* 1932; Meetings and Papers, 1928-30; New York Program, 1931; Nominations, 1928-31; *chairman, 1934,* 1935; Papers, 1931; Standardization, 1927-28; Receiving Sets, 1927-28; Use of the Transmission Unit, 1928; Registration of Engineers, 1940. Institute Representative: Radio Advisory Committee, Bureau of Standards, Department of Commerce, 1930, 1936; ASA Sectional Committee on Radio, 1930; National Advisory Council on Radio in Education, 1936-37, 1939-40; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941-43.

HUNT, Frederick V. (A'28—M'41—SM'43—F'47), Gordon McKay Professor of Applied Physics, 222 Lyman Laboratory, Harvard University, Cambridge 38, Mass.
Born: February 15, 1905, Barnesville, O., B.A., 1924, B.E.E., 1925, Ohio State University, Columbus, O., A.M., 1928, Ph.D., 1934, S.D. (Honorary) 1945, Harvard University, Cambridge, Mass. Committees: Audio Techniques, 1949-50; Electroacoustics, 1941-51; Papers, 1942-45; Papers Procurement, 1942-43, 1947-48; Papers Review, 1946-48; Regular Papers, 1941.

HUTCHESON, John A. (A'28—M'30—SM'43—F'48), Vice-President, and Director of Research, Westinghouse Research Laboratories, East Pittsburgh, Pa.
Born: January, 1905, Park River, N.D. B.S., 1926, D.Sc. (Honorary) 1943, University of North Dakota, Fargo, N.D. Director, 1948. Committees: Board of Editors, 1946-50; Nominations, 1948; Nuclear Studies, 1948; Policy Development, 1948. Sections: Connecticut Valley, *chairman, 1935-36;* Pittsburgh, *chairman, 1945-46.*

IAMS, Harley A. (A'31—M'38—SM'43—F'50), Associate Department Head, Hughes Aircraft Company, Florence at Teale St., Culver City, Calif.
Born: March 13, 1905, Lorentz, W.Va. B.A., (M.E.), 1927, Stanford University, Stanford, Calif. Committees: Papers, 1941-45; Papers Review, 1946-47. Joint Award, Modern Pioneers, National Association of Manufacturers, 1940; Sigma Xi.

ISRAEL, Dorman D. (A'23—M'30—F'42), Executive Vice-President, Emerson Radio and Phonograph Corporation, 111 Eighth Ave., New York, N.Y.
Born: July 21, 1900, Newport, Ky. E.E., 1923, University of Cincinnati, Cincinnati, O. Committees: Awards, 1943-44, 1947; Membership, 1941; National Convention, 1947; New York Program, 1940-41, Nominations, 1946, Professional Groups, 1951; Papers, 1940-41; Papers Procurement, *chairman, 1942-43, general chairman, 1944-47;* Professional Groups, 1951; Public Relations, 1940-44; Radio Receivers, 1938-41; Regular Papers, *chairman, 1941;* RMA-IRE Co-ordinating, 1947-48; Television and Facsimile, 1936-37; Winter Technical Meeting, 1946. Sections: Cincinnati, *chairman, 1931-32.* Professional Groups: Broadcast and Television Receivers, *chairman, 1951;* Administrative Committee, 1949-51.

JACKSON, William E. (F'51), Chief, Electronics Division, Civil Aeronautics Administration, Technical Development and Evaluation Center, Weir Cook Airport, Indianapolis, Ind.
Born: May 8, 1904, Bridgewater, Mass. B.S.(E.E.), 1925, Brown University, Providence, R.I. Committees: Antennas, 1944-46; Navigation Aids, 1947-48; Radio Transmitters, 1946, Transmitters, 1944-45; Transmitters and Antennas, 1938-44. Citation for service on Radio Technical Commission for Aeronautics Special Committee 31. Cull Prize in Engineering, Brown University, 1925.

JACKSON, Willis (SM'48—F'50), Professor of Electrical Engineering, and Head, Electrical Engineering Department, Imperial College, Exhibition Rd., South Kensington, London, S.W. 7, England.
Born: October 29, 1904, Burnley, Lancs., England. D.Sc., 1936, Manchester University; Ph.D., 1936, Oxford University.

JANSKY, C. M., Jr. (A'18—M'25—F'28), Partner, Jansky & Bailey, National Press Bldg., Washington, D.C.
Born: June 28, 1895, Delton, Mich. B.A., 1917, M.A., 1919, University of Wisconsin, Madison, Wis. President, 1934; Manager, 1929-32; Director, 1932-42. Committees: Admissions, 1929-30, *chairman, 1931,* 1932-33, *chairman, 1936-37,* 1938-40; Awards, 1942; Board of Editors, 1942-50; Broadcasting, 1931-33; Broadcast, 1935-36, *chairman, 1937;* Constitution and Laws, 1932-33, 1941; Education, 1944, Frequency Modulation, 1940-43; Membership, 1925, 1928, 1941-43; Nominations, 1936, *chairman, 1937,* 1938, *chairman, 1939,* 1940-42, 1945; Preparedness, 1940-41; Publicity, 1936; Public Relations, 1946; Receiver Sets, 1928; Standards, 1932; Sections, 1925; Standardization, 1928-31; Use of the Transmission Unit, 1928. Institute Representative: American Documentation Institute, 1939-43; First National Conference on Educational Broadcasting, 1937; American Council on Education, Planning Committee, National Conference on Educational Broadcasting, 1936-37, 1939-43; URSI Executive Committee, 1936-37, 1939-49; ASA Sectional Committee on Radio-Electrical Coordination, 1926, 1939-46.

JARVIS, Kenneth W. (A'24—M'27—F'34), President, Jarvis Electronics Corporation, Chicago, Ill., and Manager, Electronics Division, Automatic Electric Corporation, 1033 W. Van Buren St., Chicago, Ill.
Born: October 18, 1901, Mansfield, O. B.E.E., 1923, Ohio State University, Columbus, O. Committees: Receivers, 1947-52; Radio Receivers and Parts, 1930-31; Receiver Sets, 1927-28. Sections: Chicago, *chairman, 1948-49.*

JENSEN, Axel G. (A'23—M'26—F'42), Director of Television Research, Bell Telephone Laboratories, Inc. Murray Hill Laboratory, Murray Hill, N.J.
Born: February 7, 1896, Copenhagen, Denmark. E.E., 1920, Royal Technical College, Copenhagen, Denmark; Post Graduate, 1921-22, Columbia University, New York, N.Y. Committees: Audio and Video Techniques, 1948; Co-ordination for International Technical Organizations, *chairman, 1950-52;* Instruments and Measurements, 1949-50; IRE, RTMA, SMPTE Television Co-ordinating, Committee, *chairman, 1950-51;* Standards, 1948, *vice-chairman, 1949-50, chairman, 1951-52;* Television, 1939-47, *chairman, 1948;* Television and Facsimile, 1938; Television Systems, *chairman, 1949-52.* Institute Representative: ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1949-51; ASA Standards Council, 1951; ASA Sectional Committee (C16) on Radio, 1951; IRE, AIEE, ASA (C42), Definitions Co-ordinating Committee, 1949-51; IRE-AIEE Committee on Noise Definitions, 1951; CCIR Executive Committee, 1952.

JETT, Ewell K. (A'29—M'38—F'39), Vice-President and Director of Radio, Baltimore Sunpapers, Baltimore, Md.
Born: March 20, 1893, Baltimore, Md. Director, 1938. Committees: Public Relations, 1945-46. Sections: Washington, D.C., *chairman, 1935-36.*

JOHNSON, J. Kelly (A'25—M'35—SM'43—F'49), Consulting Engineer, 511 Fifth Ave., New York, N.Y.
Born: January, 1903, Oskaloosa, Iowa. A.B., 1923, B.S., 1923, Penn College; A.B., 1924, Columbia College, Columbia, S.C.; B.S. (E.E.), 1926, E.E., 1927, Columbia University. Director, 1942. Committees: Board of Editors, 1946-52; Nominations, 1942; Papers Procurement, 1944-45; Radio Receivers, 1936-37, 1941-50; Receivers, 1950-52; Registration of Engineers, 1940-43; Regular Papers, 1941; Sections, 1943-44. Sections: Chicago, *secretary, 1935-36, chairman, 1937-38;* New York, *treasurer, 1948-49.*

JOHNSON, John B. (F'51), Research Physicist, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: October 2, 1887, Gothenberg, Sweden, B.S., 1913, M.S., 1914, University of North Dakota; Ph.D., 1917, Yale University, New Haven, Conn.

JOLLIFFE, Charles B. (M'25—F'30), Vice-President and Technical Director, Radio Corporation of America, New York, N.Y.
Born: November 13, 1894, Mannington, W.Va. B.S., 1915, M.S., 1920, West Virginia University; Ph.D., 1922, Cornell University; LL.D., 1942, West Virginia University. Director, 1936-37, 1944. Committees: Admissions, 1938; Awards, 1942; Bibliography, 1930-32; Broadcast, 1932, 1936-37; Frequency Modulation, 1940-41; Meetings and Papers, 1930; Nominations, 1937, 1941; Piezoelectric Crystals, 1940; Policy Development, 1948; Preparedness, 1940-41; Subcommittee on Receiving Sets, 1927; Standardization, 1925-26, *chairman, 1928-31;* Subcommittee on Vacuum Tubes, 1927-28, *chairman, 1928;* Television and Facsimile, 1936-48. Sections: Washington, D.C., *chairman, 1929-30.* Institute Representative: American Council on Education, Planning Committee, National Conference on Education Broadcasting, 1936-37, 1939-43.

KAAR, Ira J. (J'22—A'24—M'29—F'41), Manager of Engineering, Electronics Division, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: October 17, 1902, Dunsmuir, Calif. B.S.(E.E.), 1924, University of Utah, Salt Lake City 2, Utah. Director, 1939, 1948. Committees: Admissions, 1940; Annual Review, 1940-45; Awards, 1947-48; Joint Technical Advisory, *vice-chairman, 1950-51;* Joint Technical Advisory, *chairman, 1951-52;* Nomination, 1949-50; Public Relations, 1940, 1942; Standards, 1940-45; Television, 1939, *chairman, 1940-46,* 1947-48; Television Systems, 1949-52.

KANDOIAN, Armig G. (F'51), Head, Radio and Radar Components Division, Federal Telecommunication Laboratories, Inc., 500 Washington Ave., Nutley, N.J.
Born: November 28, 1911, Van Armenia. B.S., 1934, M.S., 1935, Harvard University, Cambridge, Mass. Committees: Papers Review, 1946-52. Eta Kappa Nu, Honorable Mention, 1943.

KANTEBET, Shankar R. (A'25—M'31—SM'43—F'49), General Manager, Overseas Communications Service, Government of India, Radio House, Apollo Bunder, Bombay 1, India.
Born: December, 1900, Kanara, Bombay, India. B.A. (Honours) M.N., Technical Scholar, 1922, Bombay University. A.M.I.E.E., 1928; M.I.E.(I), 1944; Marconi veteran, 1951.

KARPLUS, Eduard (A'31—F'38), Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: September 7, 1899, Moedling, Austria. Ingenieur, 1923 Technische Hochschule, Vienna, Austria.

KELL, Ray D. (A'35—F'47), Head, Television Section, RCA Laboratories, Division, Radio Corporation of America, Princeton, N.J.
Born: June 7, 1904, Kell, Ill. B.S.(E.E.) 1926, University of Illinois, Galesburg, Ill. Committees: Television, 1941, 1946-48; Television Systems, 1949-52. Modern Pioneer Award, National Association of Manufacturers, 1940; Stuart Ballantine Medal of the Franklin Institute, 1948.

KELLY, Mervin J. (M'25—F'38), President, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: February 14, 1894, Princeton, Mo. B.S., 1914, Missouri School of Mines and Metallurgy, Rolla, Mo.; M.S., 1915, University of Kentucky, Lexington, Ky.; Ph.D., 1918, University of Chicago, Chicago, Ill.; D.Eng., 1936, University of Missouri, Columbia, Mo.; D.Sc., 1946, University of Kentucky, Lexington, Ky. Committees: Standardization Subcommittee on Vacuum Tubes, 1927-29; Technical Committee No. 3, Vacuum Tubes, 1930. Institute Representative: ASA Technical Committee, Vacuum Tubes, 1930.

KETO, John E. (A'38—SM'46—F'48), Chief, Aircraft Radiation Laboratory, Wright Field, Dayton, O.
Born: June 9, 1909, Maynard, Mass. E.E., 1932, M.S., 1935, University of Cincinnati, Cincinnati, O. Committees: Wave Propagation, 1948-51. Sections: Dayton, *chairman, 1946-47.*

KILGOUR, Charles E. (F'51), Staff Engineer, Crosley Division, AVCO Manufacturing Corporation, 1329 Arlington St., Cincinnati, O.
Born: March 29, 1886, Detroit, Mich. C.E., 1910, University of Cincinnati, Cincinnati, O. Committees: Facsimile, 1940; Papers Procurement, 1947-48, 1949-50; Television and Facsimile, 1940. Sections: Cincinnati, *chairman, 1932-33.*

KILLIAN, Thomas J. (F'51), Chief Scientist, Office of Ordnance Research, Duke University, Durham, N.C.
Born: August 4, 1904, Schenectady, N.Y. B.S., M.S., 1926, Massachusetts Institute of Technology; Cambridge, Mass.; M.A., 1927, Ph.D., 1929, Princeton University, Princeton, N.J. Committees: Nuclear Studies, 1947-50. Regional Prize, AIEE, 1936.

KIMBALL, Charles N. (A'34—M'40—SM'43—F'52), President, Midwest Research Institute, 4049 Pennsylvania, Kansas City, Mo.
Born: April 21, 1911, Everett, Mass. B.E.E., 1931, Northeastern University, Boston, Mass. S.M., 1932, Sc.D., 1934, Harvard University, Cambridge, Mass. Committees: Railroad and Vehicular Communications, 1948-52, Mobile Communications, 1952; Sections: Kansas City, *vice-president, 1941-43.*

KIRKE, Harold L. (M'25—SM'43—F'45), Vice-President, British Broadcasting Corporation, Broadcasting House, London, W. 1, England.
Born: January 7, 1895, London, England. Vice President, 1952; Director, 1952.

KNOWLES, Hugh S. (A'25—F'41), Consulting Engineer, 350 Forest Ave., Glen Ellyn, Ill.; President and Director of Research, Industrial Research Products, 9400 Belmont Ave., Franklin Park, Ill.
Born: September 23, 1904, Hynes, Iowa. A.B., 1928, Columbia University, New York, N.Y. Committees: Annual Review, 1938-41; Board of Editors, 1945-52; Electroacoustics, 1936-37, *chairman, 1938-41, 1946-47;* Papers, 1941; Papers Procurement, 1942-43; Regular Papers, 1941; Standards, 1938-41; Symbols, 1940-41, 1943-47. Sections: Chicago, *chairman, 1934-35.*

KNOX, James B. (F'51), General Manager, Engineering Products Dept., RCA Victor Co. Ltd., 1001 Lenoir, Montreal, P.Q., Canada.
Born: November, 1910, Winnipeg, Manitoba, Canada. Committees: Radio Transmitters, 1947-52.

KOCK, Winston E. (SM'45—F'52), Director of Acoustics Research, Bell Telephone Labs., Inc., Murray Hill, N.J.
Born: December 5, 1909, Cincinnati, O. E.E., 1932, M.S.(physics), 1933, University of Cincinnati, Cincinnati, O., Ph.D., 1934, University of Berlin. Committees: Antennas and Waveguides, 1947-51, Editorial, 1951-52, Papers Review, 1951-52; Professional Group on Antennas and Propagation, Administrative Committee, 1949-51. Outstanding Young Electrical Engineer—Eta Kappa Nu; Fellow, Acoustical Society; Fellow, American Physical Society.

KOMPFNER, Rudolf (F'50), Bell Telephone Laboratories, Murray Hill, N.J.
Born: May 16, 1909, Vienna, Austria. Engineering Diploma, 1933, Technical College, Vienna. D.Phil., Oxford University, Oxford, England.

LACK, Frederick R. (A'20—F'37), Vice-President, Western Electric Company, Inc., 120 Broadway, New York 5, N.Y.
Born: July 18, 1895, Eastbourne, England. S.B., 1925, Harvard University, Cambridge, Mass. Director, 1940, 1946-47. Committees: Appointments, 1948; Awards, 1941, 1948; Board of Editors, 1946; Electronics, 1936-40; Executive, 1947; Fiscal, 1947-48; National Convention, 1947; Nuclear Studies, 1948; Office Practices, 1947; Papers, 1942-45; RMA-IRE Co-ordinating, 1948; Special Publication Fund, 1947; Tellers, 1940. Institute Representative: ASA Board of Directors, 1945-51.

LAMSON, Horatio W. (A'15—M'27—F'33), Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge, Mass.; Faculty Member, Northeastern University, Boston, Mass.
Born: January 2, 1893, Somerville, Mass. S.B., 1915, Massachusetts Institute of Technology, Cambridge, Mass.; A.M., 1917, Harvard University, Cambridge, Mass. Sections: Boston, *chairman, 1937-39.*

LANDON, Vernon D. (F'51), Radio Research Engineer, RCA Laboratories, Princeton, N.J.
Born: May, 1901, Denver, Colo. Attended Detroit Junior College, 1920, Detroit, Mich. Committees: Frequency Modulation, 1941-46; Modulation Systems, 1947-52; Papers Review, 1947-52.

LANGLEY, Ralph H. (A'12—M'16—F'29), Assistant to the President, Farrand Optical Company, Inc., 4401 Bronx Blvd., New York, N.Y.
Born: January 5, 1889, New York, N.Y. E.E., 1913, Columbia University, New York, N.Y. Committees: Admissions, 1945; Awards, 1934; Bibliography, 1930-32; New York Program 1934; Radio Telegraph and Receiver Terminology, *chairman, 1924-25;* Registration of Engineers, 1940-41; Sections, 1930-33, 1935; Standardization 1924-27, Technical Committee No. 1, Radio Receivers and Parts, 1930; Standards, 1934-35; Wave Length Regulation, 1916. Sections: Cincinnati, *chairman, 1929-30.*

LAW, Harold B. (SM'46—F'52), Research Engineer, Princeton, N.J.
Born: September 9, 1911, Douds, Iowa. B.S., 1934, Kent State University, Kent, O., M.S., 1936, Ph.D., 1941, Ohio State University, Columbus, O. Television Broadcasters' Association Award, 1946.

LEHDE, Pendleton E. (A'14—F'27), Owner, Electron Engineering Company; President, Pendleton Terminal Corporation, 1050 Constance St., New Orleans, La.; President Tidewater Terminal Company, Inc.
Born: October 2, 1892, New Orleans, La. B.E., 1914, M.E.E., 1926, Tulane University, New Orleans, La. Committees: Membership, 1927-29. Sections: New Orleans, *chairman, 1928-33.*

LEWIS, George H. (A'12—M'15—SM'43—F'51) (L'51), Retired. Formerly Assistant Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York, N.Y.

Born: September 15, 1886, Media, Pa. M.E.I., 1911, Bliss School of Applied Science. Manager, 1918-19, 1923, 1926; Director, 1935. Committees: Admissions, 1929-30, 1942; Awards, 1935; Electronics, 1936-39; Facsimile, 1939-41; New York Program, *chairman, 1935,* 1936; Public Relations, 1947-48; Standardization, 1916-17, 1919, 1925, 1928-30; Symbols, 1940; Technical Committee No. 3—Vacuum Tubes, 1929-30; Television, 1939-41.

LINDENBLAD, Nils E. (M'34—SM'43—F'48), Research Engineer, RCA Laboratories, Princeton, N.J.
Born: October 30, 1895, Norrkoping, Sweden. M.E. 1915, Norrkoping Polytechnic Institute; Attended Royal Institute of Technology, Stockholm, 1916-19. Committees: Antenna Subcommittee, 1940. Modern Pioneer Award, National Association of Manufacturers, 1940; RCA Laboratories Award for Pioneering in Slot Antennas, Radio Corporation of America, 1947.

LINDSAY, William W., Jr. (A'24—M'26—F'39), Consulting Engineer, 230 S. Thurston Ave., Los Angeles 49, Calif. Staff Electronic Engineer, Military Operations Research Division, Lockheed Aircraft Corp., Burbank, Calif.
Born: November 16, 1899, Overbrook, Pa. Privately educated, equivalent "Doktor Ingenieur" degree. Committees: Nominations, 1942; Transmitters 1946-47. Sections: Los Angeles, *secretary-treasurer, 1928-29; chairman, 1940-41.*

LITTLE, Donald G. (A'20—M'27—F'29), Assistant Engineering Manager and Consulting Engineer, Electronics and X-Ray Division, Westinghouse Electric Corporation, 2519 Wilkens Ave., Baltimore, Md.
Born: May 17, 1893, Kalamazoo, Mich. B.S.(E.E.), 1917, University of Michigan, Ann Arbor, Mich. Committees: Board of Editors, 1944-52; Meetings and Papers, 1928-29; Standardization, Technical Committee No. 2, Radio Transmitters and Antennas, 1929-30; Subcommittee on Nomenclature, Symbols and Definitions, 1929-30; Subcommittee on Methods of Testing Apparatus, Equipment, Devices, and Materials Used in Radio Transmitters and Antennas, 1929-30; Standardization, 1931-32; Standards, 1932; Transmitters and Antennas, 1936-38. Sections: Baltimore, *chairman, 1951-52.* Fellow, AIEE.

LITTON, Charles V. (A'25—SM'44—F'47), President, Litton Industries, P.O. Box 937, San Carlos, Calif.
Born: March 13, 1904, San Francisco, Calif. A.B., 1924, E.E., 1925, Stanford University, Stanford, Calif. Committees: Papers, 1945; Papers Review, 1946-52. Sections: San Francisco, *chairman, 1932-33.*

LLEWELLYN, Frederick B. (A'23—F'38), Consulting Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: September 16, 1897, New Orleans, La. M.E., 1922, Stevens Institute of Technology, Hoboken, N.J.; Ph.D., 1928, Columbia University, New York, N.Y. Morris Liebmann Memorial Prize, 1935. President, 1946; Director, 1939-48. Committees: Awards, 1942, *chairman, 1947,* 1948; Board of Editors, 1949, 1952; Constitution and Laws, 1947, 1950; Electronics, 1939-43; Editorial Administrative, 1946-51; Executive, 1942-44, *chairman, 1946;* Finance, 1948-51; Fiscal, 1947-48; International Liaison, 1947, 1949; Investment, 1946; Membership 1941, 1949, 1950; Membership Solicitation Policy, 1945; Nominations, 1944, 1947-48; Office Quarters, 1947; Papers, 1932-39, *vice-chairman, 1940-42, chairman, 1943-46;* Policy Development, 1949-50, *chairman, 1951;* Professional Groups, 1948; Public Relations, 1950; Symbols, 1940-41. Administrative of the Board of Editors, 1952; Policy Advisory, 1952. Institute Representative: ASA Electrical Standards Committee, 1948-51; National Research Council, Division of Engineering and Industrial Research, 1948-51; United States National Committee of the International Electrotechnical Commission, 1949-51.

LODGE, William B. (A'34—M'37—SM'43—F'49), Vice-President in Charge of Engineering, CBS Television Network, 485 Madison Ave., New York 22, N.Y.
Born: August 17, 1907, Whitemarsh, Pa. B.S., 1930, M.S., 1931, Massachusetts Institute of Technology, Cambridge 39, Mass. Committees: Annual Review, 1946-48; Antennas, 1944-45; Awards, 1946; Transmitters, 1944-45; Transmitters and Antennas, 1940-41; Winter Technical Meeting, 1946.

LOOMIS, Alfred L. (M'28—SM'43—F'44), President, Loomis Institute for Scientific Research, 14 Wall St., New York, N.Y.
Born: November 4, 1887, New York, N.Y. A.B., 1909, Yale University, New Haven, Conn.; LL.B., 1912, Harvard University, Cambridge 38, Mass. D.Sc. 1932, Wesleyan University, Middletown, Conn. M.Sc., 1933, Yale University, LL.D., 1941, University of California, Berkeley, Calif. John Price Wetherill Medal, The Franklin Institute, 1934.

LOUGHREN, Arthur V. (A'24—M'29—SM'43—F'44), Vice-President in Charge of Research, Hazeltine Electronics Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y.
Born: September 15, 1923, Rensselaer, N.Y. B.A., 1923, E.E., 1925, Columbia University, New York, N.Y. Director, 1952. Committees: Admissions, 1931-33; Awards, 1949-50, *chairman, 1951,* 1952; Membership, 1934; Papers Procurement, 1947-48; 1949-50; Radio Receivers, Subcommittee on Definitions, 1927-28; Standardization, Subcommittee on Vacuum Tubes, 1927-28; Standards, 1947; Television, 1940-45.

LUBCKE, Harry R. (F'51), Consulting Engineer, 2443 Creston Way, Hollywood 28, Calif.
Born: August 25, 1905, Alameda, Calif. B.S., 1929, Graduate Study, 1930, University of California, Berkeley, Calif. Committees: Papers Review, 1946-47. Sections: San Francisco, Organization Committee, 1927. Los Angeles, West Coast Convention Committee, 1952. Academy of Television Arts and Sciences Award, 1951; "Best Branch Paper" Award, Institute of Electrical Engineers, 1930; Certificate of Commendation, U. S. Navy, World War II; Certificate, War Department (U. S. Army), World War II; Eta Kappa Nu; Sigma Xi, Tau Beta Pi, Phi Beta Kappa.

LUCK, David G. C. (M'46—SM'50—F'51), Research Staff, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: July, 1906, Whittier, Calif. B.S., 1927, Ph.D., 1932, Massachusetts Institute of Technology, Cambridge, Mass.

MACKEOWN, Samuel S. (M'29—F'40), Professor of Electrical Engineering, California Institute of Technology, Pasadena, Calif.
Born: December 3, 1895, New York, N.Y. B.A., 1917, Ph.D., 1923, Cornell University, Ithaca, N.Y. Committees: Board of Editors, 1941-51. Institute Representative: California Institute of Technology, 1941-50.

MacKINNON, Keith Abbott (SM'46—F'49), Consulting Engineer, P.O. Box 542, Ottawa, Ont., Canada.
Born: September, 1905, Kingston, Ont., Canada. B.Sc.(E.E.), 1926, B.Sc.(Physics), 1928, M.Sc.(Physics), 1929, Queens University, Kingston, Ont. Committees: Antennas, 1946-48. Sections: Ottawa, *chairman, 1947.*

MALOFF, Ioury G. (M'27—F'36), Development Engineer, RCA Victor Division, Radio Corporation of America, Camden, N.J.
Born: June 3, 1899, Vladivostok, Russia. Committees: Bibliography, 1928; Papers Procurement, 1947-50; Receiving Sets, 1928; Teller, 1940.

MALTER, Louis (A'37—SM'45—F'52), Research Physicist, RCA Laboratories, Princeton, N.J.
Born: April 27, 1906, New York, N.Y. B.S., 1926, College of the City of New York, M.A., 1931, Ph.D., 1936, Cornell University. Committees: Electron Devices Conference Technical Subcommittee, *chairman, 1947,* Papers Review, 1945-50, Electron Devices, 1945-49. Fellow, American Physical Society, Sigma Xi.

MANSON, Ray H. (M'23—F'30), Board Chairman and Director, Stromberg-Carlson Company, 100 Carlson Rd., Rochester, N.Y.
Born: August 25, 1877, Bath, Me. B.S.(E.E.), 1898, E.E., 1901, D.Eng., 1933, University of Maine, Orono Me. President 1931; Manager, 1927-30; Director, 1931-33. Committees: Awards, 1932, 1940; Bibliography, 1930; Nominations, 1929-30, *chairman, 1932,* 1934, 1940; Public Relations, 1940, 1947-48; Regular Papers, 1941; Standardization, 1926-30; Subcommittee on Electro-Acoustic Devices, *chairman, 1928;* Technical Committee No. 4, Electro-Acous-

tic Devices, 1930; Tellers, 1932-33; Television and Facsimile, 1936-38. Institute Representative: ASA Electrical Standards Committee, 1936-39.

MARKS, William S., Jr. (SM'44—F'52), Chief Engineer, Coles Signal Laboratory, Fort Monmouth, N.J.
Born: March 18, 1900, Nashville, Tenn. B.S. in E.E., 1929, Louisiana State University, Baton Rouge, La., Grad. work in Physics, 1935, Rutgers University, New Brunswick, N.J.

MARVIN, Harry B. (M'31—SM'43—F'50), Development Engineer, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: August, 1894, Charleston, Pa. B.S.(E.E.), 1915, M.S. (E.E.), 1925, Union College, Schenectady, N.Y. Committees: Admissions, 1940; Awards, 1940; Frequency Modulation, 1940-45; Papers, 1940; Papers Procurement, 1946-50.

MASON, Warren P. (A'36—VA'39—F'41), Research Physicist, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: September 28, 1900, Colorado Springs, Colo. B.S.(E.E.), 1921, University of Kansas, Lawrence, Kan., M.A., 1924, Ph.D., 1928, Columbia University, New York, N.Y. Committees: Papers Procurement, 1947-50; Papers Review, 1947-51; Piezoelectric Crystals, 1940-51.

MAYER, Emil E. (F'34), Consulting Engineer, 10 E. 40 St., New York, N.Y.
Born: January 7, 1885, Elberfield, Germany. E.E., 1906, Technical University, Berlin, D.S., 1919, University of Munich. Committees: Specifications for Steamship Radio Equipment, 1914, Standardization, 1914; Wave Length Regulation, 1916.

McARTHUR, Elmer D. (M'42—SM'43—F'45), Head, Electron Tube Section, General Electric Research Laboratory, The Knolls, Schenectady, N.Y.
Born: May 3, 1903, Salamanca, N.Y. B.S.(E.E.), 1925, M.S. (Physics), 1948, Union College, Schenectady, N.Y. Committees: Board of Editors, 1945-52.

McCUTCHEN, Brunson S. (A'21—M'26—F'32), Chairman of Board, Applied Science Corporation of Princeton, P.O. Box 44, Princeton, N.J.
Born: November 20, 1892, North Plainfield, N.J. Lit.B., 1915, E.E., 1917, Princeton University, Princeton, N.J.

McDONALD, Arthur S. (M'23—F'41), Chief Engineer, Overseas Telecommunication Commission (Australia), 47 York St., Sydney, N.S.W., Australia.
Born: March 6, 1890, Castle Donnington, Victoria, Australia. Vice-President, 1949; Director, 1949. Fellow, Past President, IRE, Australia.

McELROY, Paul K. (A'25—M'27—F'31), Design Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge, Mass.
Born: August 7, 1899, Toledo, O. A.B., 1920, A.M., 1921, Harvard University, Cambridge, Mass. Committees: Administrative Committee of the Professional Group on Quality Control, 1951; Membership, 1940. Sections: Boston, *secretary, 1939-41.*

McILWAIN, Knox (A'31—M'40—SM'43—F'48), Chief Consulting Engineer, Hazeltine Electronics Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y.
Born: September 4, 1897, Philadelphia, Pa. B.S., 1918, Princeton University, Princeton, N.J. B.S.E.E., 1921, E.E., 1930, University of Pennsylvania, Philadelphia, Pa. Committees: Admissions, 1944-45; Board of Editors, 1946-52; Circuits, 1944-45; Editorial Administrative, 1949-51; Education, 1945; Electroacoustics, 1936-45; Electronics, 1936-38; Handbooks, 1945-47; Papers, 1942-45; Standards, 1945-46. Administrative of the Board of Editors, 1952. Sections. Philadelphia, *chairman, 1935-36.* Institute Representative: National Television Systems Committee, Panel 8, 1940-43.

McKINLEY, Donald W. R. (A'39—SM'46—F'48), Research Physicist, National Research Council, Sussex St., Ottawa, Ont., Canada.
Born: September 22, 1912, Shanghai, China. B.A., 1934; M.A., 1935, Ph.D., 1938, University of Toronto, Canada. Sections: Ottawa, *chairman, 1946-47.* O.B.E., King's Honours List, July, 1946. Fellow, American Physical Society.

McNICOL, Donald M. (A'14—M'14—F'23) (L'49), Consulting Communication Engineer, 25 Beaver St., New York, N.Y.
Born: July 23, 1875, Hopetown, Ont., Canada. Instructor, Teacher's College, Columbia University; Lecturer on Communications, University of Utah, Sheffield Scientific School, Yale University, and Cooper Union. President, 1926; Vice-President, 1925; Manager, 1919-24; Director, 1925-28; Advertising Manager, 1921-22. Committees: Administrative of the Board of Editors, 1952; Admissions, 1935; Advertising, 1925; Bibliography, 1930-32; Editorial Administrative, 1946-51; Meetings and Papers, *chairman, 1925;* Membership, 1925; Nominations, 1928-30, 1933; Publicity, 1931-34: Revision of the Constitution, 1927; Sections, *chairman, 1925,* 1928; Standardization, 1922-27. Institute Representative: Fourth National Radio Conference, 1926; National Fire Protection Association (National Electric Code), 1936; American Engineering Standards Committee (now American Standards Association) Sectional Committee on Electric Wiring and Apparatus in Relation in Fire Hazard (Nat'l Electric Code), 1930.

McRAE, James W. (A'37—F'47), Vice-President, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: October 25, 1910, Vancouver, B.C., Canada. B.S.(E.E.), 1933, University of British Columbia; M.S., 1934, Ph.D., 1937, California Institute of Technology, Pasadena, Calif. Director, 1949-52. Committees: Appointments, 1950; Awards, 1948-51; Board of Editors, 1946-52; Executive, 1950-52; Finance, 1952; Policy Development, 1948; Board of Directors, 1952; Standards Co-ordination, 1952; Tellers, *chairman, 1948.* Sections: New York, *chairman, 1948-49.* Legion of Merit, War Department, 1945; Eta Kappa Nu, Honorable Mention, 1943.

MEACHAM, Larned A. (A'39—SM'45—F'48), Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: September, 1908, Denver, Colo. B.S.(E.E.), 1929, University of Washington, Seattle, Wash. Certificate of Research, 1930, Cambridge University, England. Committees: Board of Editors, 1946-51; Modulation Systems, 1950-52. Eta Kappa Nu Award, "Outstanding Young Electrical Engineer of 1939," January, 1940.

MERTZ, Pierre (SM'44—F'50), Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: April, 1897, Paris, France. A.B., 1918, Ph.D., 1926, Cornell University, Ithaca, N.Y. Committees: Facsimile, 1939-52; Papers Procurement, 1945-50. Army-Navy Certificate of Appreciation, Department of Defense, 1948; Army Certificate of Appreciation, Technical Industrial Intelligence Committee, Joint Chiefs-of-Staff, 1951; Fellow, Society of Motion Picture and Television Engineers.

METCALF, George F. (A'34—M'38—F'42), General Manager, Commercial and Government Equipment Dept., General Electric Company, Electronics Park, Syracuse, N.Y.
Born: December 7, 1906, Milwaukee, Wis. B.S.(E.E.), 1928, Purdue University, Lafayette, Ind. Associate Editor, 1926-28. Committees: Board of Editors, 1946-52; Editorial Administrative, 1949; Electronics, 1936-41; Papers Review, *chairman, 1949-51;* Tellers, 1948, *chairman, 1949.*

MIESSNER, Benjamin F. (A'37—F'37), President, Miessner Inventions, Inc., Van Buren Rd., Morristown, N.J.
Born: July 27, 1890, Huntingburg, Ind. Attended United States Naval Electrical School, 1908-09; Attended Purdue University, 1913-16.

MILLER, John H. (A'19—M'25—SM'43—F'50), Vice-President for Research and Engineering, Weston Electrical Instrument Corporation, 614 Frelinghuysen Ave., Newark, N.J.
Born: June 6, 1893, Oak Park, Ill. B.S.(E.E.), 1915, University of Illinois, Urbana, Ill. Committees: Institute Sections, 1928; Sections 1933-34, 1938-39, *chairman, 1940,* 1941-44. Sections: Chicago, *chairman, 1927-29, secretary, 1929-30.* Institute Representative: ASA Subcommittee (C42.6) on Electrical Instruments 1949-51.

MILLER, John M. (A'17—F'20) (L'52), Superintendent, Radio Division I, Naval Research Laboratory, Washington, D.C.
Born: June, 1882, Hanover, Pa. B.A., 1904, M.A., 1907, Ph.D., 1915, Yale University, New Haven, Conn. Distinguished Civilian Service Award, United States Navy, 1945.

MINTON, J. P. (F'39), Research Adviser, Magnolia Petroleum Company, Field Research Department, Dallas, Tex.
Born: November 7, 1889, Wapella, Ill. Engineering, 1910, Bradley University; B.S., 1912, Massachusetts Institute of Technology, Cambridge, Mass. Ph.D., 1921, University of Chicago, Chicago, Ill. Committees: Electroacoustic Devices, 1927-28; Membership, 1941-43. Fellow in Physics, National Research Council, University of Chicago, 1921-22. Fellow, American Physical Society, American Association for Advancement of Science.

MORRISON, John F. (A'29—M'36—SM'43—F'51), Technical Staff, Bell Telephone Laboratories, Inc., Morristown Rd., Whippany, N.J.
Born: March 14, 1906, Buffalo, N.Y. Committees: Annual Review, 1945-46; Antennas, 1944-45; Awards, 1951-52; Radio Transmitters, *chairman, 1945,* 1946; Standards, 1945-46, 52; Transmitters, 1944-45; Transmitters and Antennas, 1938-44. Sections: North Jersey Subsection, *vice-chairman, 1950, chairman, 1951.*

MORTON, George A. (A'39—SM'46—F'51), Section Head, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: March 24, 1903, New Hartford, N.Y. B.S., 1926, M.S., 1928, Ph.D., 1932, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Measurements and Instrumentation, 1951-52; Nuclear Studies, 1948. Overseas Premium Award, Institute of Electrical Engineers, 1937-38; Certificates of Commendation, Bureau of Ships, National Defense Research Council, United States Air Force.

MOUNTJOY, Garrard (A'37—M'40—SM'43—F'50), Chief Engineer, Radio-Television Division, Stromberg-Carlson Company, 100 Carlson Rd., Rochester, N.Y.
Born: October 21, 1905, Boscobel, Wis. B.S., 1929, Washington University, St. Louis, Mo. Committees: Radio Receivers, 1942-52; Television, 1945-47; Subcommittee on Methods of Testing Television Receivers, *chairman, 1947;* Subcommittee on Standards on Radio Receivers, Definition of Terms, *chairman, 1950.* Sections: Rochester, *secretary, 1948-49, vice-chairman, 1950.* Institute Representative: ASA War Standards Committee on Methods of Measuring Radio Noise, 1945-48. Modern Pioneer Award, National Association of Manufacturers.

MOUROMTSEFF, Ilia E. (A'34—SM'45—F'47), Professor, Upsala College, Prospect Ave., East Orange, N.J.
Born: December 9, 1881, St. Petersburg, Russia. Mil. Eng., 1906, Nicholas Engineering Academy; Dipl. Eng. (E.E.), 1910, Grand Ducal Institute of Technology, Darmstadt, Germany. Committees: Electronics, 1941-45; Electron Tubes, 1945-46; Electron Tubes and Solid-State Devices, 1949-52; Membership, 1947-48; Papers, 1944-45; Papers Procurement, 1945-50; Papers Review, 1946-50; Vacuum Tubes, 1945-46. Order of Merit (Silver W), Westinghouse Electric Corp., 1947.

MUMFORD, William W. (A'30—SM'46—F'52), Technical Staff, Member, Bell Telephone Laboratories, Inc., Holmdel, N.J.
Born: June 17, 1905, Vancouver, Wash. B.A., 1930, Willamette University, Salem, Ore. Committees: National Convention Program, 1951-52. Burghart Prize, 1926 Willamette University.

MURRAY, Albert F. (A'20—M'26—F'38), Consulting Television Engineer, 4707 Windom Pl., N.W., Washington, D.C.
Born: June 22, 1894, Decatur, Ala. B.A., 1915, Maryville College, Maryville, Tenn.; B.S., 1918, Harvard University, Cambridge, Mass.; S.B., 1918 Massachusetts Institute of Technology, Cambridge, Mass.; D.Sc., 1939, Maryville College, Maryville, Tenn. Director, 1936-39. Committees: Awards, 1936; Electronics, 1937-40; Institute Sections, 1929-30, 1936; Membership, 1929-39; Papers, 1934-45; Papers Review, 1946-52; Papers Procurement, 1947-50; Television, 1939-45; Television and Facsimile, 1936-38; Television Systems, 1949-52. Sections: Philadelphia, *chairman, 1937-38.*

NELSON, Edward L. (A'19—M'25—F'38), Technical Director, Signal Corps Engineering Laboratories, Fort Monmouth, N.J.
Born: March 10, 1891, Warsaw, Ind. B.S.(E.E.), 1914, Armour Institute of Technology. Manager, 1932; Director, 1932-36. Committees: Awards, 1929; Board of Editors, 1941-52; Broadcasting, 1928-31, *chairman, 1932;* Broadcast, *chairman, 1933-36;* Meetings and Papers, 1928-29; Nominations, 1932, 1935; Registration of Engineers, 1940-43; Standardization, 1927-31; Subcommittee on the Use of the Transmission Unit, 1928; Standards, 1932-36. Institute Representative: Planning Committee, National Conference in Educational Broadcasting, American Council of Education, 1936, 1939-43.

NERGAARD, Leon S. (A'29—M'36—SM'43—F'52), Physicist, R.C.A. Laboratories, Princeton, N.J.
Born: September 2, 1905, Battle Lake, Minn. B.S. in E.E., 1927, Ph.E. in Physics, 1935, University of Minnesota, Minneapolis, Minn.; M.S. in E.E., 1930, Union College, Schenectady, N.Y.; Ph.D. in Physics, 1935, University of Minnesota. Committees: Annual Review, 1948-50; Electronics, 1940-45; Electron Tubes, 1946-47, *vice-chairman, 1948-49;* Electron Devices, *chairman, 1948;* Electron Tubes and Solid-State Devices, *chairman, 1949-51,* 1952; Measurement and Instrumentation, 1952; Standards, 1949-51; Technical on Advanced Developments, 1944-47; Vacuum Tubes, 1945-46. Institute Representative: ASA Sectional Committee (C60) on Standardization of Electron Tubes, 1949-51.

NOBLE, Daniel E. (A'25—SM'44—F'47), Vice-President in Charge, Communications and Electronics Division and Director, Motorola, Inc., 4545 Augusta Blvd., Chicago, Ill.
Born: October 4, 1901, Naugatuck, Conn. B.S., 1929, University of Connecticut, Storrs, Conn. Committees: Standards, 1940-42, 1946; Annual Review, 1941-42, 1946; Regular Papers Committee, 1941; Papers Procurement, 1942-43, 1947, 1949-50; Frequency Modulation, *chairman, 1940-42,* 1943-45; Mobile Communication, *chairman, 1945-47, 1949-51,* 1952. Section: Connecticut Valley, *chairman, 1938.*

NOIZEUX, Pedro J. (A'30—F'47), Assistant General Manager, Transradio Internacional, Compania Argentina de Telecomunicaciones, San Martin, 379, Buenos Aires, Argentina.
Born: 1900, France. Founder, Buenos Aires Section, 1939; *chairman, 1941.*

NORTH, Dwight O. (A'35—M'38—SM'43—F'43), Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: September 28, 1909, Hartford, Conn. B.S., 1930, Wesleyan University, Middletown, Conn.; Ph.D., 1933, California Institute of Technology, Pasadena, Calif. Committees: Awards, 1948; Board of Editors, 1946-52; Papers, 1944-45.

NORTON, Kenneth A. (A'29—M'38—SM'43—F'43), Chief, Frequency Utilization Research Section; Assistant Chief, Central Radio Propagation Laboratory, National Bureau of Standards, Box 299, Boulder, Colo.
Born: February 27, 1907, Rockwell City, Iowa. B.S., 1928, University of Chicago, Chicago, Ill. Committees: Board of Editors, 1951-52; Editorial Administrative, *alternate, 1949-51,* 1952; Navigation Aids, 1950-52; Papers Procurement, 1949-50; Papers Review, 1946-51; Radio Wave Propagation, 1942-45; Radio Wave Propagation and Utilization, 1947-48; Wave Propagation, 1937-41, 1949-52.

NYQUIST, Harry (A'39—SM'47—F'52), Consulting Engineer, 463 West St., New York, N.Y.
Born: February 7, 1889, Nilsby, Sweden. B.S., in E.E., 1914, M.S., 1915, University of North Dakota, Grand Forks, N.D., Ph.D., 1917, Yale University, New Haven, Conn.

OLIVE, Gordon W. (A'29—VA'39—F'51), Director General of Engineering, Canadian Broadcasting Corporation, 1425 Dorchester St. West, Montreal, P.Q., Canada.

Born: March 18, 1898, Montreal, P.Q., Canada. Attended McGill University, Montreal, Canada, 1919-22. Committees: Frequency Modulation, 1946; Modulation Systems, 1947.

OLSON, Harry F. (A'37—VA'39—SM'48—F'49), Director, Acoustical Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: December, 1902, Mount Pleasant, Iowa. B.E., 1924, M.S., 1925, E.E. (Professional, 1932), Ph.D., 1928, University of Iowa, Iowa City, Iowa. Committees: Annual Review, 1949-50; Board of Editors, 1940-52; Electroacoustics, 1932-52, *chairman, 1934-38;* Papers Procurement, 1943-47; Standards, 1934-38. Institute Representative: ASA Sectional Committee on Acoustical Measurements and Terminology, 1940-51; Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1949-50.

O'NEILL, George D. (A'28—SM'46—F'49), Manager of Engineering Personnel Development and Education, Sylvania Electric Products, Inc., Bayside, N.Y.
Born: July, 1900, Montclair, N.J. B.S., 1924, University of Michigan, Ann Arbor, Mich. Committees: Board of Editors, 1952; Electron Tube Conference, *chairman, 1947;* Electronics, 1936-45; Electron Tubes, 1946-48; Electron Tubes and Solid-State Devices, 1949-51, *vice-chairman, 1951-52; Standards, 1952;* Vacuum Tubes, 1945-46, *chairman, 1946-51.*

OSBORNE, Harold S. (A'14—M'29—SM'43—F'45), Chief Engineer, American Telephone and Telegraph Company, 195 Broadway, New York, N.Y.
Born: August 1, 1887, Fayetteville, N.Y. B.S., 1908, Eng. D., 1910, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Standardization, 1926-28.

OSWALD, Arthur A. (A'19—M'25—F'28), Overseas Radio Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: March 3, 1891, Lake Linden, Mich. B.S.(E.E.), 1916, E.E., 1927, Armour Institute of Technology, Chicago, Ill. Committees: Papers Procurement, 1942-43; Regular Papers, 1941; Standardization, 1925.

OUIMET, Alphonse J. (A'39—SM'44—F'52), Assistant General Manager and Coordinator of Television, Canadian Broadcasting Corp., 1425 Dorchester St., W. Montreal 25, P.Q., Canada.
Born: June 12, 1908, Montreal, P.Q., Canada. B.A., 1928, St. Mary's College; B. Elect. Engrg., 1932, McGill University. Committees: Montreal Section, *chairman, 1942-43,* Television, 1946-49, Television Systems, 1949-52. Ross Medal, 1948, Engineering Institute of Canada.

PACKARD, David (S'34—A'41—SM'47—F'48), President, Hewlett-Packard Company, 395 Page Mill Rd., Palo Alto, Calif.
Born: September 7, 1912, Pueblo, Colo. A.B., 1934, E.E., 1939, Stanford University, Stanford, Calif. Committees: Awards, 1949; Instruments and Measurements, 1949-50. Sections: San Francisco, *secretary, 1943-44; chairman, 1945-46.*

PAGE, Robert M. (SM'45—F'47), Superintendent, Radio Division III, and Electronics Consultant, United States Naval Research Laboratory, Washington, D.C.
Born: June 2, 1903, St. Paul, Minn. B.Sc., 1927, D.Sc. (Honorary), 1943, Hamline University, St. Paul, Minn.; M.A., 1932, George Washington University, Washington, D.C. Committees: Board of Editors, 1946-52. Distinguished Civilian Service Award, United States Navy, 1945; Citation O.S.R.D., 1946; Certificate of Merit, The President of the United States, 1947.

PANNILL, Charles J. (M'13—F'16) (L'49), Retired President and Director, RCA Institutes, Inc., and Radiomarine Corporation of America, Consultant Office, 30 Rockefeller Plaza, New York, N.Y.
Born: May 13, 1879, Petersburg, Pa. Committees: Publicity, 1916-19. Sections: Washington, *secretary-treasurer, 1914, vice-chairman, 1916-19.* First Certificate of Skill in Radio, 1911, No. 1 Commercial Radio Operators License, 1912, United States Government. Pioneer Radio Communication, 1902. Successfully sent First Trans-Atlantic Radiogram, 1906. Expert Radio Aide, U.S. Navy, 1914-19. Decorations: Chevalier of the First Order of Leopold; Marconi Memorial Medal of Achievement, The Veteran Wireless Operators Association, 1943. Delegate, International Radio and Telecommunication Conventions, 1927-47. Delegate, London Conference Society Naval Architects and Marine Engineers, 1951.

PARKER, Henry W. (SM'48—F'52), Technical Consultant, 40-43 172 St., Flushing 58, N.Y.
Born: December 11, 1896, Brooklyn, N.Y. B.S. E.E., New York University, N.Y., N.Y. Committees: Electronics, 1935-44; Industrial Electronics, 1944-52; Papers Review, 1944-52.

PAYNE, Leonard S. (M'16—SM'43—F'49) (L'52), Manager, Patents Division, Canadian Marconi Company, 2442 Trenton Ave., Montreal, P.Q., Canada.
Born: February 28, 1886, London, England.

PETERSON, Harold O. (A'22—M'31—F'41), Section Head, RCA Laboratories Division, Radio Corporation of America, 140 Moriches Rd., Riverhead, L.I., N.Y.
Born: November 3, 1899, Blair, Neb. B.Sc.(E.E.), 1921, Honorary degree, Doctor of Engineering, 1951, University of Nebraska, Lincoln, Neb. Committees: Board of Editors, 1944-52; Industrial Electronics, 1947-50; Instruments and Measurements, 1949-50; Papers, 1934-44; Radio Receivers, 1936-47; Radio Wave Propagation and Utilization, 1945-48; Standardization, Subcommittee on Aircraft Receivers, 1930-31; Standards, 1934-35; Transmitters and Antennas, 1936; Wave Propagation, 1937-41, 1949-52.

PICKARD, Greenleaf W. (M'12—F'15) (L'49), President, Pickard and Burns, Inc., 240 Highland Ave., Needham, Mass.
Born: February 14, 1877, Portland, Me. Medal of Honor, 1926. President, 1913; Manager, 1912; Director, 1913-15. Committees: Board of Editors, 1928-52; Bibliography, 1930-32; Constitution and Laws, 1928-31; Meetings and Papers, 1927-29; Nominations, 1929, 1933, *chairman, 1938;* Specifications for Steamship Radio Equipment, 1914; Standardization, 1914-15, 1925; Wave Length Regulation, 1916; Wave Propagation, 1937-38. Sections: Organization of Boston Section, 1914. Armstrong Medal, Radio Club of America, 1940.

PIERCE, George W. (M'13—F'15) (L'49), Rumford Professor of Physics (Emeritus), and Gordon McKay Professor of Communication Engineering (Emeritus), Research Laboratory of Physics, Harvard University, Cambridge, Mass.
Born: January 11, 1872, Webberville, Tex. B.S., 1893, M.A., 1894, University of Texas, Austin, Tex.; A.M., 1899, Ph.D., 1900, Harvard University, Cambridge, Mass. Medal of Honor, 1929. President, 1918-19; Vice-President, 1915; Director, 1915, 1918-21. Committees: Sections, 1925, 1928; Standardization, 1914-19. Section: Organization of Boston Section 1914, *chairman, 1922-32.* Franklin Medal, Franklin Institute, 1943.

PIERCE, John Alvin (SM'45—F'47), Senior Research Fellow, Cruft Laboratory, Harvard University, Cambridge 38, Mass.
Born: December 11, 1907, Spokane, Wash. B.A., 1937, University of Maine, Orono, Me. Committees: Annual Review, 1948; Radio Wave Propagation and Utilization, 1945-48; Navigation Aids, 1947, *chairman, 1948-49,* 1950; Standards, 1948; Wave Propagation, 1949-50. Fellow, American Association for the Advancement of Science.

PIERCE, John R. (S'35—A'38—SM'46—F'48), Director of Electronics Research, Bell Telephone Laboratories, Inc., Murray Hill., N.J.
Born: March 27, 1910, Des Moines, Iowa. B.S., 1933, M.S., 1934, Ph.D., 1936, California Institute of Technology, Pasadena, Calif. Morris Liebmann Memorial Prize, 1947. Committees: Papers Procurement, *second vice-chairman, 1943.* Eta Kappa Nu Award, "Outstanding Young Electrical Engineer," 1942.

PIORE, Emanuel R. (A'38—M'42—SM'43—F'50), Deputy Chief and Chief Scientist, Office of Naval Research, Navy Department, Washington, D.C.
Born: July 19, 1908, Wilno, Russia. B.A., 1930, Ph.D., 1935, University of Wisconsin, Madison, Wis. Director, 1951. Committees: Awards, 1949; Technical Program Committee, 1950 IRE Convention.

POLKINGHORN, Frank A. (A'25—F'38), Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: July 23, 1897, Holbrook, Mass. B.S., 1922, University of California, Berkeley, Calif. Committees: Admissions, 1943-48, *vice-chairman, 1945-48;* National Convention, 1948; Sections, 1941-45; Standardization, Subcommittee on High-Frequency Receivers, 1930-31.

POPPELE, J. R. (A'30—M'39—SM'43—F'50), Vice-President and Chief Engineer, Radio Stations WOR and WOR-TV, 1440 Broadway, New York, N.Y.
Born: February 4, 1898, Newark, N.J. Director, 1947. Committees: Building, 1945-46; Facsimile, 1940, 1942; Membership, 1939-40; New York Program, 1940; Papers, 1942-45; Papers Procurement, 1942-43; Public Relations, 1943-46; Regular Papers, 1941; National Committee, 1947.

POTTER, Ralph K., (A'25—M'26—F'41), Director, Transmission Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: October 1, 1894, Elgin, Ill. B.S., 1917, Whitman College, Walla Walla, Wash.; E.E., 1923, Columbia University, New York, N.Y. Committees: Awards, 1944; Papers, 1931-41.

POUNSETT, Frank H. R. (A'26—SM'44—F'47), Chief Engineer and Factory Manager, Stromberg-Carlson Company, Ltd., 211 Geary Ave., Toronto 4, Ont., Canada.
Born: September 12, 1904, London, England. B.A.Sc., 1928, University of Toronto, Toronto, Canada. Director, 1949-50. Committees: Awards, 1952; Canadian Building Fund and Auditor, 1945; Members, 1951-52; Nominations, 1948-50; Radio Receivers, 1946-51. Sections: Toronto, *chairman, 1945-46.*

PRATT, Haraden (A'14—M'17—F'29), Telecommunications Advisor to the President of the United States, Room 4, Executive Office Bldg., Washington 25, D.C.
Born: July 18, 1891, San Francisco, Calif. B.S., 1914, University of California. Medal of Honor, 1944. President, 1938; Treasurer, 1941-42; Secretary, 1943-52; Director, 1935-52. Committees: Admissions, 1937; Annual Review, 1937; Appointments, *chairman, 1947;* Awards, 1937, *chairman, 1939,* 1940-41, 1944, *vice-chairman, 1945, chairman, 1948;* Board of Editors, 1941-52; Building Fund Administrator, 1947-48; Constitution and Laws, 1941, 1951; Editorial Administrative, 1947-50; Executive, *vice-chairman, 1941-42, secretary, 1943-52;* Fiscal, *chairman, 1947, 1948;* Investments, 1944-46; New York Program, 1933, 1935, *chairman, 1936,* 1937; Joint Technical Advisory, 1948-49; Nominations, 1941-43, *chairman, 1936,* 1947, 1948, 1952; Office Quarters, 1947; Policy Development, *chairman, 1951;* Preparedness, *chairman, 1940-41;* Standardization, 1928-31; Technical Committee No. 2, Radio Transmitters and Antennas, 1930; Standards, 1932, *chairman, 1934-35,* 1936-37; Tellers, *chairman, 1936.* Institute Representative: ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1930-46, 1949-51; ASA Board of Directors, 1939-41; ASA Sectional Committee on Radio, 1936-48; Joint Technical Advisory Committee, 1949-51. Radio Technical Planning Board, 1944, *chairman, 1945-48.*

PRESSLEY, Jackson H. (A'20—F'31), Consulting Engineer, 1036 San Diego Rd., Santa Barbara, Calif.
Born: June 8, 1896, Rio Vista, Calif. B.S.(E.E.), 1920, University of California, Berkeley, Calif. Committees: Radio Receivers, 1933.

PRICE, Lloyd M. (A'31—SM'46—F'49), Chief Engineer, Radio Valve Company of Canada, Ltd., 189 Dufferin St., Toronto, Ont., Canada.
Born: August, 1897, St. Thomas, Ont., Canada. B.A.Sc., 1923, University of Toronto, Toronto, Ont., Canada. Committees: Electron Tubes, 1946-47. Sections: Toronto, *chairman, 1935-36, secretary, 1934.*

PRIEST, Conan A. (A'24—M'38—SM'43—F'47), Assistant to General Manager, Commercial and Government Equipment Department, Electronics Division, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: August 11, 1900, Solon, Me. B.S.(E.E.), 1922, E.E. (Professional), 1925, University of Maine, Orono, Me. Committees: Board of Editors, 1941-52. Sections: Syracuse, *chairman, 1947.*

PUGSLEY, Donald W. (A'39—SM'43—F'52), Designing Engineer, Electronics Park, Syracuse, N.Y.
Born: December, 1912, Salt Lake City, Utah. B.S., in E.E., 1935, University of Utah, Salt Lake City, Utah. Committees: Television, 1945-48; Television Systems, 1949-52. Eta Kappa Nu. Most Outstanding Young Electrical Engineer (Hon. Ment.), 1944.

QUARLES, Lawrence R. (M'42—SM'43—F'52), Professor of Electrical Engineering, Thornton Hall University of Virginia, Charlottesville, Va.
Born: January 26, 1908, Charlottesville, Va., B.S.E., 1929, Ph.D. (Physics), 1935, University of Virginia, Charlottesville, Va.; Committees: Education, 1949-52. Sections: N.C.-Va., *chairman, 1946.*

RAMO, Simon (A'38—SM'44—F'50), Director of Operations, Hughes Aircraft Company, Culver City, Calif.; Research Associate, California Institute of Technology, Pasadena, Calif.
Born: May, 1913, Salt Lake City, Utah. B.S., 1933, University of Utah, Salt Lake City, Utah; Ph.D., 1936, California Institute of Technology, Pasadena, Calif. Committees: Board of Editors, 1946-51; Papers, 1941-45. Eta Kappa Nu Honorable Mention Award, 1941.

RANGER, Richard H. (F'37), President, Rangertone, Inc., 73 Winthrop St., Newark, N.J.
Born: June 13, 1889, Indianapolis, Ind. B.S., 1911, Massachusetts Institute of Technology. Committees: Meetings and Papers, 1928-30; New York Program, *chairman, 1930-32;* Papers, 1931-33.

REICH, Herbert J. (A'26—M'41—SM'46—F'49), Professor of Electrical Engineering, Yale University, New Haven, Conn.
Born: October, 1900, Staten Island, N.Y. M.E., 1924, Ph.D. (Physics), 1929, Cornell University, Ithaca, N.Y. Director, 1944, 1948-51. Committees: Administrative Committee of Professional Group on Electron Devices, 1952; Admissions, 1945-46; Appointments, 1950; Awards, 1948; Board of Editors, 1943-52; Constitution and Laws, 1949-50; Education, 1945-48, *chairman, 1949-51,* 1952; Electronics, 1941-45; Electron Tubes, 1945-48; Electron Tube Conference Committee, 1946, 1950, *chairman, 1951;* Electron Tubes and Solid-State Devices, 1949-52. Institute Representative: University of Illinois, 1941-43; Yale University, 1948-50. Fellow, American Physical Society.

REID, John D. (A'41—M'44—SM'46—F'49), Vice-President in Charge of Engineering, American Radio and Television Inc., N. Little Rock, Ark.
Born: March, 1907, Morristown, N.J. Attended University of Pennsylvania, 1925-28. Director, 1950-51. Committees: Awards, 1951-52; Board of Editors, 1947-51; Editorial Administrative, 1949-50; Membership, 1949-50; Papers Procurement, 1945-46, *chairman, 1948-49;* Papers Review, 1946; Policy Development, 1950-52; Professional Groups, 1948, 1950; Receivers, 1946-50, *vice-chairman, 1950-52.* Section: Cincinnati, *chairman, 1946-47.* Institute Representative: National Electronics Conference, Board of Directors, 1951. Presidential Certificate of Merit, 1948; Naval Ordnance Development Award, United States Navy, 1945.

REOCH, Alexander E. (M'14—F'16) (L'49), Assistant Treasurer, RKO Service Corporation, 1270 Sixth Ave., New York, N.Y.
Born: April 27, 1884, Sheffield, England. E.E., 1902, Sheffield University College, England. Manager, 1924-27. Committees: Meetings and Papers, 1925; Standardization, 1925-26.

RETTENMEYER, Francis X. (A'26—M'29—SM'43—F'44), Chief Engineer, Federal Telephone and Radio Corporation, 100 Kingsland Rd., Clifton, N.J.
Born: July 27, 1900, Kendrick, Okla. B.S. (E.E.), 1922, University of Colorado, Boulder, Colo. Committees: Board of Editors, 1946-52; Editorial Administrative, 1951-52; Membership, 1938-40; Papers, 1942-45; Papers Procurement, 1947-49; Public Relations, 1941-42; Publicity, 1939, Radio Receivers, 1936-37; Sections, 1936; Standardization: Technical Committee No. 1, Radio Receivers and Parts, 1929-30.

REUKEMA, Lester E. (A'30—SM'46—F'51), Professor of Electrical Engineering, 123 Cory Hall, University of California, Berkeley, Calif.
Born: August 31, 1891, Chicago, Ill. B.S., 1922, M.S., 1924, Ph.D., 1926, University of California, Berkeley, Calif. Sections: San Francisco, *secretary, 1946-47; vice-chairman, 1947-48; chairman, 1948-49.* Fellow, American Institute of Electrical Engineers, 1946.

RICHMOND, Harold B. (A'14—M'23—F'29), Chairman of the Board, General Radio Company, 275 Massachusetts Ave., Cambridge, Mass.
Born: March 22, 1892, Medford, Mass. S.B., 1914, Massachusetts Institute of Technology; D.Eng. (Honorary), 1947, Norwich University. Committees: Admissions, 1940; Nominations, 1940; Preparedness, 1940-41; Public Relations, 1947; Registration of Engineers, *chairman, 1940-43;* Standardization, 1928-30. Presidential Medal for Merit, 1947, Guided Missiles Development.

ROBERTS, Walter van B. (A'22—F'29), RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: November 13, 1893, Titusville, Pa. B.S., 1915, E.E., 1917, Ph.D., 1924, Princeton University, Princeton, N.J. Committees: Standardization, Subcommittee on the Use of the Transmission Unit, 1928.

ROCKWELL, Ronald J. (A'25—M'31—SM'43—F'45), Vice-President in Charge of Engineering, Crosley Broadcasting Corporation, Radio Station WLW, 140 W. Ninth St., Cincinnati, O.
Born: February 5, 1904, Omaha, Neb. B.S.(E.E.), 1927. Iowa State College, E.E. (Professional), 1946. Committees: Electroacoustics, 1951-52; Sections, ex-officio, 1938-39. Sections: Cincinnati, *chairman, 1938-39.*

ROSE, Albert (A'36—M'40—SM'43—F'48), Physicist, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: March, 1910, New York, N.Y. A.B., 1931, Ph.D. (Physics), 1935, Cornell University, Ithaca, N.Y. Morris Leibmann Memorial Prize, 1946. Television Broadcasters Association Award, 1945; Journal Award, Society of Motion Picture Engineers, 1946.

ROYDEN, George T. (A'19—M'27—F'33), Engineer, Mackay Radio and Telegraph Company, 67 Broad St., New York, N.Y.
Born: June 20, 1895, Fort Clark, Tex. A.B., 1917, Engineer, 1924, Leland Stanford Junior University, Baker, La. Director, 1946. Committees: Admissions, 1941-42, *chairman, 1943-48;* Awards, 1946; Constitution and Laws, 1944, 1949; New York Program, 1938-42; Sections, 1941-45. Sections: San Francisco, *chairman, 1933-34.*

RUSH, Walter A. (F'36) (L'49), Retired. 200 Rideau Terr., Ottawa, Ont., Canada.
Born: April 25, 1880, London, England. Vice-President, 1942; Director, 1942.

RYAN, Francis M. (J'14—A'17—M'26—F'40), Radio Engineer, American Telephone and Telegraph Company, 195 Broadway, New York, N.Y.
Born: February 4, 1895, Seattle, Wash. B.S.(E.E.), 1919, University of Washington. Committees: Admissions, 1939; Meetings and Papers, 1930; New York Program, 1930; Papers, 1931-36; Railroad and Vehicular Communication, 1945-46; Tellers, 1938. Institute Representative: Committee on Aeronautic Radio Research, Department of Commerce, 1930-31; Liaison Committee on Aeronautic Radio Research, 1936-37, 1939-41.

RYDER, John D. (A'29—SM'43—F'52), Professor and Head of Electrical Engineering Dept., University of Illinois, Urbana, Ill.
Born: May 8, 1907, Columbus, O. B.E.E., 1928, M.S., 1929, Ohio State University, Columbus, O.; Ph.D. 1944, Iowa State College, Ames, Iowa. Director, 1952. Committees: Papers Review, 1948-52; Education, 1945-46, 1949-52; Policy Advisory, 1952; AIEE-IRE Electron Tube Conference, *vice-chairman, 1951.*

SALINGER, Hans W. G. (A'37—SM'46—F'51), Research Physicist, Capehart-Farnsworth Corporation, 3700 East Pontiac St., Fort Wayne, Ind.
Born: April 1, 1891, Berlin, Germany. Ph.D., 1915, University of Berlin, Berlin, Germany. Committees: Papers Procurement, 1947-50. Sections: Fort Wayne, *chairman, 1949-50.* Sigma Xi.

SALISBURY, Winfield W. (SM'44—F'47), Director, Research Division, Collins Radio Company, 855 35 St., N.E., Cedar Rapids, Iowa.
Born: December 27, 1903, Carthage, Ill. A.B., 1926, University of Iowa, Iowa City, Iowa; D.S. (Honorary), 1950, Cornell College. Committees: Education, 1946; Nuclear Studies, 1948; Papers Review, 1946; Railroad and Vehicular Communications, 1945-47.

SALZBERG, Bernard (F'25—A'30—M'38—SM'43—F'52), Associate Superintendent, Radio Division I, Naval Research Laboratory, Washington 25, D.C.
Born: July 22, 1907, New York, N.Y. E.E., 1929, M.E.E., 1933, D.E.E., 1941, Polytechnic Institute of Brooklyn, Brooklyn, N.Y. Committees: Membership, 1939-46, Electronics, 1943-44.

SAMUEL, Arthur L. (A'24—VA'39—SM'44—F'45), Senior Engineer, International Business Machines Corporation, Poughkeepsie, N.Y.
Born: December 5, 1901, Emporia, Kan. A.B., 1923, College of Emporia, Emporia, Kan.; S.B., 1925, S.M., 1926, Massachusetts Institute of Technology, Cambridge, Mass. D.Sc. (Honorary), 1946, College of Emporia, Emporia, Kan. Paper Award, 1937. Committees: Annual Review, 1950; Electronics, 1944-45; Electron Tubes, 1946-47; Electron Tubes and Solid-State Devices, 1949, *vice-chairman, 1950-51, chairman, 1951-52;* Research, 1949-50; Standards, 1951-52; Symbols, 1946-51; Vacuum Tubes, 1945; Papers Review, 1952. Sections: Mid Hudson Subsection, *chairman, 1951-52.*

SARNOFF, David (A'12—M'14—F'17), Chairman of the Board, Radio Corporation of America, 30 Rockefeller Plaza, New York, N.Y.
Born: February 27, 1891, Uzlian, Minsk, Russia. D.Sc. (Honorary), 1927, St. Lawrence University; D.Sc. (Honorary), 1935, Marietta College, Marietta, O.; D.Lit. (Honorary), 1935, Norwich University, Northfield, Vt. D.C.S. (Honorary), 1938, Oglethorpe University, Oglethorpe, Ga.; D.Sc. (Honorary), 1939, Suffolk University, Boston, Mass.; LL.D. (Honorary), 1946, Jewish Theological Seminary, New York, N.Y. LL.D. (Honorary), 1946, Bethany College, Bethany, W.Va.; D.C.S. (Honorary), 1948, Boston University, Boston, Mass.; LL.D. (Honorary), 1950, John Carroll University, Cleveland, O.; L.H.D. (Honorary), 1950, University of Louisville, Louisville, Ky. Secretary, 1915-17; Director, 1915-17; Manager, 1918-20. Committees: Constitutional Amendments, 1915; Financial Matters, 1915; Increase of Membership, 1916-18; Publicity, 1915-16, *chairman, 1916-19;* Wave Length Regulation, 1916. Sections: San Francisco Representation, 1915. Grand Medal of Association des Ingenieurs-Docteurs of France, 1950. National Chairman, 1951, Red Cross Fund Campaign, Appointed Brigadier General, Honorary Reserve, Army of U. S., 1951.

SCHADE, Otto H. (M'40—SM'43—F'51), Staff Engineer, RCA Victor Division, Radio Corporation of America, 415 S. Fifth St., Harrison, N.J.
Born: April 27, 1903, Schmalkalden, Germany. Attended Technische Hochschule, Berlin-Carlottenburg, Germany, 1922-25. Modern Pioneer Award, National Association of Manufacturers, 1940; Morris Liebmann Memorial Prize, 1950; RCA Victor Award of Merit, Radio Corporation of America, 1946; David Sarnoff Gold Medal Award and Fellowship Award from Society of Motion Picture and Television Engineers, 1951.

SCHELKUNOFF, Sergei A. (A'40—F'44), Technical Staff, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: January 27, 1897, Samara, Russia. B.A., 1923, M.A., 1923, State College of Washington, Ph.D., 1928, Columbia University, New York, N.Y. Morris Liebmann Memorial Prize, 1942. Committees: Annual Review, 1947; Antennas, 1945-48; Antennas and Waveguides, 1949-51; Papers, 1942-45; Papers Review, 1946; Radio Wave Propagation and Utilization, 1945-46, *chairman, 1947;* Standards, 1947. Institute Representative: ASA Sectional Committee (C61) on Electric and Magnetic Magnitudes and Units, 1949-51. Franklin Institute Stuart Ballantine Medal, 1949.

SCHELLENG, John C. (A'23—M'25—F'28), Director of Radio Research, Bell Telephone Laboratories, Inc., Deal, N.J.
Born: November 12, 1892, Freeport, Ill. A.B., 1915, Cornell University, Ithaca, N.Y. Committees: Annual Review, 1937; Antennas, 1944-48; Antennas and Waveguides, 1949-50; Awards, 1943; Handbooks, 1945; Radio Transmitters, 1945-47; Standardization, 1931; Subcommittee on Methods of Testing Apparatus, Equipment and Devices, 1929-30; Standards, 1936-37; Transmitters, 1944; Transmitters and Antennas, *chairman, 1936-37,* 1938-44. Institute Representative: ASA Definitions Co-ordinating Committee, 1948; ASA Sectional Committee on Definitions of Electrical Terms, 1948-50; ASA Subcommittee on Communications, *vice-chairman, 1948-51;* Joint IRE, AIEE, ASA (C42) Definitions Co-ordinating Committee, 1949-51.

SCHLEIMANN-JENSEN, Arne (A'45—SM'47—F'48), Owner and Director, Schleimann-Jensen Laboratoriet, Paternostervägen 13-17, Stockholm-Johanneshov.
Born: July 27, 1906, Randers, Denmark. Radio and Telephone Course, Royal Technical University of Denmark, 1925-31.

SCHMIT, Dominic F. (A'25—M'38—SM'43—F'51), Vice-President and Director of Engineering, RCA Victor Division, Radio Corporation of America, Camden, N.J.
Born: August 30, 1902, Port Washington, Wis. B.S.(E.E.), 1923, University of Wisconsin.

SCOTT, Hermon H. (M'35—SM'43—F'52), President and Director of Engineering, 385 Putnam Ave., Cambridge 39, Mass.
Born: March 28, 1909, Somerville, Mass. B.S., 1930, M.S., 1931, Massachusetts Institute of Technology, Cambridge, Mass. Committees: Board of Editors, 1951-52; Audio Techniques, *vice-chairman, 1950-52;* Electro-Acoustics, 1941-46. John Potts Memorial Award, 1951, Audio Engineering Society; Fellow, Acoustical Society of America.

SCOTT-TAGGART, John (A'18—F'35), Wynwood, Beaconsfield, Bucks, England.
Born: May 27, 1897, Bolton, Lancs., England.

SEELEY, Stuart W. (M'40—SM'43—F'43), Director, Industry Service Laboratory, RCA Laboratories Division, Radio Corporation of America, 711 Fifth Ave., New York, N.Y.
Born: June 23, 1901, Chicago, Ill. B.S.(E.E.), 1925, Michigan State College. Morris Liebmann Memorial Prize, 1948. Committees: Admission, 1944-48; Awards, 1949; Board of Editors, 1947-52; Circuits, 1944-47; Modulation Systems, 1947-50; Professional Groups, 1948; Receivers, 1950-52.

SHACKLEFORD, Benjamin E. (A'23—M'26—F'38), Director, License Department, RCA International Division, Radio Corporation of America, 30 Rockefeller Plaza, New York, N.Y.
Born: August 12, 1891, Richmond, Mo. A.B., 1912, A.M., 1913, University of Missouri, Columbia, Mo.; Ph.D., 1916, University of Chicago, Chicago, Ill. President, 1948; Director, 1945-50. Committees: Appointments, 1948; Awards, 1941, 1943-44, 1950-51; Bibliography, *chairman, 1930,* 1931; Board of Editors, 1937-40; Building Fund, *chairman, 1944-45;* Constitution and Laws, 1946, *chairman, 1947;* Convention Policy, 1947-50; Education, 1949; Executive, *chairman, 1948,* 1949; Frequency Modulation, 1942-45; Institute Sections, 1929-32, *chairman, 1933,* 1934; Meetings and Papers, 1929; National Convention, *chairman, 1944,* 1947; New York Program, 1941-42; Nominations, 1949-50; Papers, 1932-36; Papers Procurement, 1942-43; Planning, 1947; Policy Development, *chairman, 1949,* 1950; Professional Groups, 1950; Sections, 1943-45, 1949-50; Special Papers, *chairman, 1940-41;* Special Publications Fund, 1947; Standardization, 1943; Standards, 1932. Institute Representative: ASA Sectional Committee on Definition of Electrical Terms, Subcommittee on Vacuum Tubes, 1936, 1939-48; ASA Sectional Committee on Vacuum Tubes for Industrial Purposes, 1936, 1939-48.

SHANNON, Claude E. (S'36—M'48—SM'49—F'50), Research Mathematician, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: April, 1916, Petoskey, Mich. B.S.(E.E.), 1936, University of Michigan, Ann Arbor, Mich.; S.M.(E.E.), 1940, Ph.D. (Mathematics), 1940, Massachusetts Institute of Technology, Cambridge, Mass. Morris Liebmann Memorial Prize, 1949. Institute Representative: IRE, AIEE Committee on Noise Definitions, 1949-50. Alfred Noble Prize, AIEE, 1940.

SHAW, Henry S. (A'17—M'21—F'35), Retired. R.F.D. #1, Box 294-B, Westbrook, Me.
Born: November 29, 1884, Boston, Mass. A.B., 1906, Harvard University, Cambridge, Mass.

SHELBY, Robert E. (A'29—M'26—SM'43—F'48), Director of Television Engineering Operations, National Broadcasting Company, Inc., 30 Rockefeller Plaza, New York, N.Y.
Born: July 20, 1906, Austin, Tex. B.S.(E.E.), 1927, B.A., 1928, M.A. (Physics), 1929, University of Texas, Austin, Tex. Committees: Annual Review, 1950-51; Papers Procurement, 1947-50; Papers Review, 1948-51; Standards, 1951-52; Television, 1939-48; Television and Facsimile, 1938; Television Systems, *vice-chairman, 1949-51, chairman, 1951-52.*

SHEPHERD, James E. (A'36—SM'44—F'48), Director of Electronic Tube Engineering, Sperry Gyroscope Company, Inc., Lakeville, Rd., Marcus Ave., Great Neck, L.I., N.Y.
Born: May 29, 1910, Houston, Tex. A.B. (Physics, E.E.), 1932, M.A.(E.E.), 1933, University of Missouri, Columbia, Mo. M.S., 1935, D.Sc. (Communication Engineering), 1940, Harvard University, Cambridge, Mass. Director, 1948-50. Committees: Admissions, 1944; Awards, 1951-52; Constitution and Laws, *chairman, 1949;* Convention Policy, *chairman, 1947-48;* Membership, 1943; National Convention, *chairman, 1947;* Sections, 1946-52; Tellers, 1946-47; Winter Technical Meeting, *vice-chairman, 1945-46.* Sections: New York, *secretary, 1944-45; vice-chairman, 1946-47; chairman, 1947-48.*

SHEPHERD, William G. (A'42—SM'49—F'52), Professor of Electrical Engineering, Dept. of Electrical Engineering, University of Minnesota, Minneapolis 14, Minn.
Born: August 28, 1911, Fort William, Ontario, Canada. B.S. E.E., 1933, Ph.D., 1937, University of Minnesota, Minneapolis, Minn.; Committees: Electron Tubes and Solid State Devices, 1951-52.

SHOUPP, William E. (SM'45—F'51), Director of Research, Westinghouse Atomic Power Division, P.O. Box 1468, Pittsburgh, Pa.
Born: October 5, 1908, Troy, O. B.A., 1931, Miami University, Oxford, O.; M.A., 1933, Ph.D., 1937, University of Illinois. Committees: Nuclear Studies, 1948-51; Papers Procurement, 1949-50. Sections: Pittsburgh, *chairman, 1946-47.*

SILING, Philip F. (M'40—SM'43—F'51), Engineer-in-Charge, RCA Frequency Bureau, 1625 K St., N.W., Washington, D.C.
Born: August 14, 1897, Oil City, Pa. Ph.B., 1917, Yale University, New Haven, Conn. Committees: Nominations, 1946; National Convention, *vice-chairman, 1947;* Winter Technical Meeting, 1946. Institute Representative: Joint Technical Advisory Committee, 1948-51, *chairman, 1948-49.* Sigma Xi.

SIMON, Emil J. (M'12—F'15) (L'41), Consulting Engineer, 50 Church St., New York 7, N.Y.
Born: October 25, 1888, New York, N.Y. Attended Columbia University, 1905 to 1909, New York, N.Y. Secretary, 1912-14; Director, 1912-14; Manager, 1915. Committees: Publicity, 1913, 1915; Specifications for Steamship Radio Equipment, 1914; Standardization, 1915.

SINCLAIR, Donald B. (J'30—A'33—M'38—SM'43—F'43), Chief Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: May 23, 1910, Winnipeg, Manitoba, Canada. S.B., 1931, S.M., 1932, Sc.D., 1935, Massachusetts Institute of Technology, President, 1952; Treasurer, 1949-50; Director, 1945-52. Committees: Admission, 1948; Antennas, 1944-46; Awards, 1951; Appointments, 1951; Executive, 1948, *vice-chairman, 1949-50, chairman, 1952;* Finance, ex-officio, *treasurer, 1949-50,* 1952; Membership,

1947-48, 1950; National Convention, 1949; Nominations, 1948; Papers, 1941-45; Papers Procurement, 1945-46; Planning, 1947; Radio Transmitters, 1945-46; Special Publication Fund, 1947; Television, 1940-46; Transmitters, 1944; Transmitters and Antennas, 1941-44. Institute Representative: Radio Technical Planning Board, 1945-46, *alternate, 1947-48.* President's Certificate of Merit, 1948; Fellow, AIEE; Sigma Xi.

SKIFTER, Hector R. (A'31—M'36—SM'43—F'51), President, Airborne Instruments Laboratory, Mineola, L.I., N.Y.
Born: March 4, 1901, Austin, Minn. B.A., 1922, Sc.D., 1945, Saint Olaf College. Presidential Certificate of Merit, 1947.

SLEPIAN, Joseph (SM'45—F'45), Associate Director of Research, Westinghouse Electric Corporation, East Pittsburgh, Pa.
Born: February 11, 1891, Boston, Mass. A.B., 1911, A.M., 1912, Ph.D., 1913, Harvard University; Dr. Eng. (Honorary), 1949, Case Institute of Technology. AIEE Award, 1933. Edison Medal, 1948, AIEE; Benjamin Garver Lamme Medal, 1942, AIEE; John Scott Medal, 1932.

SMITH, David B. (A'35—SM'44—F'48), Vice-President, Research, Philco Corporation, Tioga and C Sts., Philadelphia, Pa.
Born: December 3, 1911, Newton, N.J. S.B., 1933, S.M., 1934, Massachusetts Institute of Technology, Cambridge, Mass. Director, 1947. Committees: Frequency Modulation, 1940-46; IRE-RMA Problem No. 2 Committee; Membership, 1949-51; Public Relations, 1947-48; Special Publication Fund, 1947; Television, 1942-48; Television Systems, 1949-52. Sections: Philadelphia, *chairman, 1945-46.*

SMITH, Newbern (A'41—SM'46—F'52), Chief, Central Radio Propagation Laboratory, National Bureau of Standards, Washington 25, D.C.
Born: January 21, 1909, Philadelphia, Pa. B.S. in Engineering, 1930, M.S. in Engineering, 1931, Ph.D. in Physics, 1935, University of Pennsylvania, Philadelphia, Pa. Committees: Professional Group on Antennas and Propagation, *vice-chairman, 1949-50, chairman, 1950-52;* Wave Propagation, 1948-52, *chairman, 1952;* Editorial Administrative, 1949-52; Board of Editors, 1951-52.

SMITH, Phillip H. (A'34—SM'46—F'52), Technical Staff, Bell Telephone Laboratories, Inc., Morristown Rd., Whippany, N.J.
Born: April 29, 1905, Lexington, Mass. B.S. in E.E., 1928, Tufts College, Medford, Mass. Committees: Antennas, 1947-48, Subcommittee on Antennas, Methods of Testing, 1947-48, Antennas and Waveguides, 1949-52; Sub-committee on Antennas and Waveguides, Waveguides and Transmission Line Definitions, 1949-50, *chairman, 1951.*

SMITH-ROSE, Reginald L. (SM'44—F'44), Director of Radio Research, Department of Scientific and Industrial Research, Charles House, Regent St., London, W.1, England.
Born: April 2, 1894, London, England. B.Sc., 1914, M.Sc., 1922, Ph.D., 1923, D.Sc., 1926, Imperial College of Science and Technology, London. Vice-President, 1948; Director, 1948. Committees: Radio Wave Propagation, 1944-45; Radio Wave Propagation and Utilization, 1945-48; Wave Propagation, 1949, 1951-52. Students Premium, 1917; Wireless Premium, 1925, 1938, 1939; Dudell Premium, 1942, Institution of Electrical Engineers, London; Coronation Medal, 1937; United States Medal of Freedom with Silver Palm, 1947. Fellow, City and Guilds Institute, 1951.

SOUTHWORTH, George C. (M'26—F'41), Radio Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August 24, 1890, Little Cooley, Pa. B.S., 1941, Grove City College; Ph.D., 1923, Yale University; Sc.D. (Honorary), 1931, Grove City College. Morris Liebmann Memorial Prize, 1938. Committees: Meetings and Papers, 1930; Papers, 1931-34; Standardization, Circuit Elements, 1928. Louis Edward Levy Medal, Franklin Institute, 1946; Stuart Ballantine Medal, Franklin Institute, 1947.

SPANGENBERG, Karl R. (A'34—SM'45—F'49), Professor of Electrical Engineering, Stanford University, Stanford, Calif.
Born: April, 1910, Cleveland, O. B.S.(E.E.), 1932, M.S.(E.E.), 1933, Case Institute of Technology, Ph.D., 1937, Ohio State University. Committees: Awards, 1950; Education, 1946, 1949-51; Membership, 1941; Papers, 1943-45; Papers Procurement, 1942-43, 1945; Regular Papers, 1941. Sections: San Francisco, *secretary, 1940-42, chairman, 1943-44.* Institute Representative: Stanford University, 1942-47.

STEEL, Arthur W. (M'19—SM'43—F'50), Engineering Consultant, Federal Electric Manufacturing Company, Ltd., 9600 St. Lawrence Blvd., Montreal, P.Q., Canada.
Born: November, 1890, Castleton, Ont., Canada. B.A.Sc., 1915, Toronto University. Committees: Broadcast, 1936. Sections: Ottawa, *chairman, 1945-46.*

STEEN, Jerome R. (A'24—M'36—SM'43—F'50), Director of Quality Control, Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y.
Born: June 29, 1901, West Bloomfield, N.Y. B.S.(E.E), 1923, University of Wisconsin, Madison, Wis. Committees: Annual Review, 1948; Electronics, 1944-45; Electron Tubes, 1946-47; Instruments and Measurements, 1949-52; Papers Review, 1948-52; Professional Groups, 1951-52; Standards, 1948-51; Symbols, 1946-47; Vacuum Tubes, 1945-46. Institute Representative: ASA (C67) Committee, 1951. Fellow, American Society for Quality Control.

STERLING, George E. (M'41—SM'43—F'49), Commissioner, Federal Communications Commission, New Post Office Bldg., Washington, D.C.
Born: June, 1894, Peak's Island, Me.

STEVENS, Archie M. (A'12—M'25—F'31), Radio Engineer, Sales Division, Federal Telephone and Radio Corporation, 100 Kingsland Rd., Clifton, N.J.
Born: September 22, 1887, Glidden, Iowa. A.B., 1909, Leland Stanford Junior University, Baker, La. Sections: Buenos Aires, *chairman, 1940.*

STONE, Ellery W. (A'14—M'16—F'24), Rear Admiral, United States Naval Reserve; President and Director, American Cable and Radio Corporation; President and Director, All America Cables and Radio, Inc.; President and Director, The Commercial Cable Co.; President and Director, Mackay Radio and Telegraph Co., 67 Broad St., New York, N.Y.; Vice-President and Director, International Telephone and Telegraph Corporation, 67 Broad St., New York, N.Y.
Born: January 14, 1894, Oakland, Calif. Committees: Meetings and Papers, 1930; Membership, 1925. Grand Officer, Crown of Italy, 1944; Knight Commander, British Empire, 1945; Knight of Grand Cross of St. Maurice and St. Lazarus, Italian Government, 1945; United States Army Distinguished Service Medal, 1945; Knight of Grand Cross, San Marino, 1946; United States Navy Distinguished Service Medal, 1946.

STRATTON, Julius A. (M'42—SM'43—F'45), Provost, and Vice-President, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: May 18, 1901, Seattle, Wash. S.B., 1923, S.M., 1925, Massachusetts Institute of Technology; Sc.Dd., 1927, Technische Hochschule, Zurich, Switzerland. Director, 1948-51. Committees: Annual Review, 1945-46; Appointments, 1948; Board of Editors, 1946-52; Education, 1945; International Liaison, 1949; Membership, 1947; Policy Development, 1949-51; Radio Wave Propagation and Utilization, 1945, 1947, *chairman, 1946,* 1947-48; Standards, 1945-46. Presidential Medal for Merit, 1946.

STRONG, Charles E. (A'25—M'27—SM'43—F'49), Chief Radio Engineer, Standard Telephones and Cables Ltd., Oakleigh Rd., New Southgate, N. 11, London, England.
Born: November, 1898, Omagh, Tyrone County, Northern Ireland. B.A., 1922, Trinity College, Dublin, Ireland; B.AI., 1922, University of Dublin; A.M., 1933, M. 1937, The Institution of Electrical Engineers. Officer of the Order of the British Empire, 1947.

SWINYARD, William O. (A'37—M'39—SM'43—F'45), Chief Engineer, Hazeltine Research, Inc., 325 W. Huron St., Chicago, Ill.
Born: July 17, 1904, Logan, Utah. B.S., 1927, Utah State College, Logan, Utah. Director, 1945-46. Committees: Annual Review,

1947-49; Education, 1945-48; National Convention, 1947; Radio Receivers, *chairman, 1946-48, 1949-52;* Receivers, 1949-50; Sections, 1945, *chairman, 1946-47, 1948-50;* Standards, 1947-48. Sections: Chicago, *chairman, 1944-45; secretary, 1943-44.*

SZEGHO, Constantin, S. (A'41—SM'51—F'52), Director of Research, The Rauland Corp., 4245 N. Knox Ave., Chicago 40, Ill.
Born: March 15, 1905, Hungary. Dr. of Engineering, 1932, Institute of Technology, Aachen, Germany; E.E., 1928, Institute of Technology, Munich. Committees: Papers Review, 1952.

TANK, Franz (A'31—F'49), Professor of High-Frequency Technics and Physics, Swiss Federal Institute of Technology, Sternwartstrasse 7, Zurich, Switzerland.
Born: March, 1890, Zurich, Switzerland. Ph.D., 1915, University of Zurich; Professor, Swiss Federal Institute of Technology, 1922; Rector, Swiss Federal Institute of Technology, 1943-47; 1952 President, Swiss Electrotechnical Institution.

TAYLOR, Hoyt A. (M'16—F'20) (L'51), Retired. 745 West 12th St., Claremont, Calif.
Born: January 1, 1879, Chicago, Ill. B.S., 1902, Northwestern University; Ph.D., 1909 University of Göttingen, Germany. Morris Liebmann Memorial Prize, 1927. Medal of Honor, 1942. President, 1929; Director, 1929-31. Committees: Awards, 1928-31; Meetings and Papers, 1928; Sections, 1928. Section: Washington, *chairman, 1919-28.* John Scott Medal and Premium, Board of City Trustees, Philadelphia, 1942; Medal of Merit, President of the United States, 1944.

TAYLOR, Charles H. (M'13—F'15) (L'48), 390 Riverside Dr., New York, N.Y.
Born: August 22, 1875, Uxbridge, Middlesex, England. Committees: Antenna Terminology, *chairman, 1924-25;* Membership, 1925; Sections, 1925; Standardization, 1915-21, 1924-25.

TEARE, Benjamin R., Jr., (A'41—SM'45—F'51), Head, Department of Electrical Engineering; Dean, Graduate Studies, Carnegie Institute of Technology, Pittsburgh, Pa.
Born: January, 1907, Menomonie, Wis. B.S.(E.E.), 1927, M.S., 1928, University of Wisconsin, Madison, Wis., D. Eng., 1937, Yale University, New Haven, Conn. Committees: Education, 1944. Sections: Pittsburgh, *chairman, 1943-44.* Institute Representative: Carnegie Institute of Technology, 1944-45. George Westinghouse Award, American Society for Engineering Education, 1947.

TERMAN, Frederick E. (A'25—F'37), Dean, School of Engineering, Stanford University, Stanford, Calif.
Born: June 7, 1900, English, Ind. A.B., 1920, Engineer, 1922, Stanford University, Stanford, Calif.; Sc.D., 1924, Massachusetts Institute of Technology; Sc.D. (Honorary), 1945, Harvard University, and University of British Columbia, 1950. President, 1941; Vice-President, 1940; Director, 1940-43, 1948-49. Committees: Admissions, 1940; Annual Review, 1946-47; Appointments, 1949; Awards, 1940, 1942-43; Constitution and Laws, 1944-47; Education, 1949, 1950; Handbook, 1945-47; Membership, 1939-40, *chairman, 1942, 1949-50;* Nominations, 1943, 1948-49, *chairman, 1951;* Policy Development, 1948-50; Professional Groups, 1948; Research, *chairman, 1945-48;* Standards, 1934-40, 1946. Sections: San Francisco, *secretary, 1931-32; chairman, 1939, 1951;* Institute Representative: Stanford University, 1941; National Research Council, Division of Engineering and Research, 1943-46.

THAYER, Gordon N. (SM'47—F'51), Director of Transmission Development, Bell Telephone Laboratories, Inc., Mountain Ave., Murray Hill, N.J.
Born: October 6, 1908, Delta, Colo. Stevens Institute of Technology, 1926-30, ME, 1946.

THOMAS, Henry P. (A'34—VA'39—M'44—SM'47—F'51), Engineer, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: May, 1904, Boston, Mass. B.A., 1925, M.S., 1927, Harvard University, Cambridge, Mass. Committees: Papers Review, 1946-52; Radio Wave Propagation, 1942-45; Wave Propagation, 1940-41. Coffin Award, General Electric Company, 1948.

TINUS, William C. (A'31—M'36—SM'43—F'51), Director of Military Electronics Development, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: October, 1905, Chicago, Ill. B.S.(E.E.), 1928, Texas Agricultural and Mechanical College, College Station, Tex. Committees: Board of Editors, 1946-52.

TOWN, George R. (A'37—SM'44—F'50), Associate Director of the Engineering Experiment Station: Professor of Electrical Engineering, Iowa State College, 104 Marston Hall, Ames, Iowa.
Born: May 26, 1905, Poultney, Vt. E.E., 1926, D.Engr., 1929, Rensselaer Polytechnic Institute, Troy, N.Y. Director, 1949, 1951-52. Committees: Awards, 1948-49; Education, 1945-48; Frequency Modulation, 1946; Papers Procurement, 1947-50. Sections: Rochester, *secretary, 1942-44, chairman, 1944-46.*

TURNER, Hubert M. (A'14—M'40—F'37) (L'49), Associate Professor, Emeritus, of Electrical Engineering, Yale University, New Haven, Conn.
Born: July 20, 1882, Hillsboro, Ill. B.S., 1910, M.S., 1915, University of Illinois. President, 1944; Director, 1933-46. Committees: Admissions, 1936, 1939-40, *chairman, 1941-42;* 1943; Annual Review, 1937-39, 1943-44; Awards, *chairman, 1934,* 1938-39, *chairman, 1940,* 1941; Bibliography, 1930-31; Circuit Elements, *chairman, 1927-28;* Constitution and Laws, *chairman, 1936-40,* 1941-43; Executive, *chairman, 1944;* Investments, 1944-46; Meetings and Papers, 1929; Nominations, 1938, 1941, *vice-chairman, 1945;* Papers, 1932-44; Papers Procurement, 1942-43; Preparedness, 1940-41; Regular Papers, 1941; Sections, 1925; Standardization, 1926-31; Standards, 1932-37, 1940-47; Symbols, *chairman, 1940-44,* 1946-48; Tellers, 1940. Institute Representative: Yale University, 1941-47; United States National Committee of the International Electrotechnical Commission, 1944-48, Technical Advisor, U. S. National Committee, International Electrotechnical Commission, Letter Symbols, 1946; Chief Delegate, United States National Committee Letter Symbols for Electrical Quantities, Paris, France, 1950; United States Paper Committee World Power Conference, London, 1950, ASA Sectional Subcommittee on Letter Symbols for Radio, 1936, 1939-49; Electrical Standards Committee, 1939-46; Sectional Committee on Specifications for Dry Cells and Batteries, 1936, 1939-51; Subcommittee on Communication Symbols of Sectional, Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1939-48. Chairman, ASA Sectional Committee on Letter Symbols and Abbreviations for Science and Engineering, 1940-52.

TUTTLE, W. Norris (A'26—SM'46—F'49), Engineering Consultant, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: March 29, 1902, Croton-on-Hudson, N.Y. A.B., 1924, S.M. (Electrical Communication Engineering), 1926, Ph.D. (Physics), 1929, Harvard University, Cambridge, Mass. Committees: Annual Review, 1949-51; Circuits, 1944-48, *chairman, 1949-51,* 1951-52; Papers Review, 1948-52; Policy Development, 1948-50; Standards, 1949-51.

TUVE, Merle A. (A'45—F'45), Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Rd., N.W. Washington, D.C.
Born: June 27, 1901, Canton, S.D. B.S., 1922, A.M., 1923, University of Minnesota, Minneapolis, Minn. Ph.D., 1926, The Johns Hopkins University, Baltimore, Md. D.Sc., 1948, Case Institute, Cleveland, O.; D.Sc., 1949, Kenyon College, Gambler, O.; D.Sc., 1949, Williams College, Williamstown, Mass. D.Sc., 1950, Johns Hopkins University, Baltimore, Md. Fellow, American Physical Society; American Academy of Arts and Sciences; Member, National Academy of Sciences, American Philosophical Society; Vice-President, American Association for the Advancement of Science, 1947; American Association for the Advancement of Science Prize (with L. R. Hatstad and O. Dahl), 1931; Presidential Medal for Merit, 1946; Research Corporation Award, 1947; John Scott Award, 1948; Comstock Prize, 1949; C.B.E., 1949.

ULLRICH, Edward Hill (M'26—F'39), Standard Telephones and Cables, Ltd., Ilminster, Somerset, England.
Born: December 8, 1894, Cardiff, Wales. Mechanical Sciences Tripos 1921, Christ's College, Cambridge. Committees: Membership, 1927. Institution Premium, Institution of Electrical Engineers, 1936.

ULREY, Dayton (A'28—M'40—SM'43—F'50), Consultant, Tube Department, RCA Victor Division, Radio Corporation of America, Harrison, N.J.
Born: September, 1884, North Manchester, Ind. B.A., 1911, M.A., 1912, Indiana University, Ph.D., 1917; Stanford University. Committees: Electronics, 1936-37; Papers, 1940-45; Papers Review, 1946-50, 1952.

VAN ATTA, Lester C. (M'42—SM'43—F'52), Head, Radar Components Dept., Florence Ave., at Teale St., Culver City, Calif.
Born: April 18, 1905, Portland, Ore. B.A., 1927, Reed College, Portland, Ore.; M.S., 1929, Ph.D. 1931, Washington University, St. Louis, Mo. Committees: Antennas, 1945-47, *vice-chairman, 1948;* Antennas and Waveguides, *chairman, 1949-50,* 1950-51; Professional Group on Antennas and Propagation, Administrative Committee, *chairman, 1949-50,* 1950-52; Papers Review, 1951-52; Research, 1946-47; Standards, 1949-51. Sections: Los Angeles, Professional Group Coordinator, 1951-52.

VAN DER POL, Balthasar (M'25—F'29), Director, International Radio Consultative Committee, Palais Wilson, Geneva, Switzerland.
Born: January 27, 1889. D.Sc., 1919, Utrecht. Medal of Honor, 1935. Vice-President, 1934; Director, 1934. Committees: Electronics, 1936-40; Meetings and Papers, 1929; Wave Propagation, 1937-39. Member, Netherlands Royal Society.

VAN DYCK, Arthur F. (A'12—M'18—F'25), Staff Assistant to Vice-President and Technical Director, Radio Corporation of America, 30 Rockefeller Plaza, New York, N.Y.
Born: May 20, 1891, Stuyvesant Falls, N.Y. Ph.B., 1911, Yale University, New Haven, Conn. President, 1942; Manager, 1930-32; Director, 1932-35, 1939-44. Committees: Admissions, 1930-31, *chairman, 1932-33,* 1934, 1937-39, *chairman, 1940,* 1943; Annual Review, *chairman, 1937-39,* 1943-44; Awards, 1934, 1940, 1952; Bibliography, 1930-32; Constitution and Laws, 1933-34; 1943; Executive, *chairman, 1942,* 1943; Nominations, 1932, 1951; New York Program, *chairman, 1934,* 1935, 1939-40; Papers, 1940; Papers Procurement, 1942-43; Public Relations, 1940, *chairman, 1941,* 1943-46; Registration of Engineers, 1940; Regular Papers, 1941; Research, 1946-47; Standards, 1933-35; Tellers, 1932-33, *chairman, 1936.* Institute Representative: ASA Sectional Committee on Preferred Numbers, 1936, 1939-51; ASA Sectional Committee on Preferred Voltages, 100 Volts and under, 1949-50. Modern Pioneer Award, National Association of Manufacturers, 1940; Legion of Merit, 1946.

VAN DYKE, Karl S. (A'15—M'26—SM'43—F'44), Professor of Physics, Wesleyan University, Scott Laboratory, Middletown, Conn.
Born: December 8, 1892, Brooklyn, N.Y. B.S., 1916, M.S., 1917, Wesleyan University, Middletown, Conn. Ph.D., 1921, University of Chicago, Chicago, Ill. Committees: Admissions, 1929; Annual Review, 1941-51; Board of Editors, 1933-40, 1947-51; Meetings and Papers, *chairman, 1929,* 1930; Membership, 1942-47; Papers, 1932-33, 1944-45; Papers Procurement, 1945-48; Papers Review, 1946; Piezoelectric Crystals, *chairman, 1940-41,* 1942-43, 1945-49, *chairman, 1949-51,* 1951-52; Standards, 1941, 1949-51. Sections: Connecticut Valley, *secretary-treasurer, 1927, chairman, 1934-35.*

VARIAN, Russell H. (A'40—SM'51—F'52), Doctor, 990 Varian St., San Carlos, San Mateo County, Calif.
Born: April 24, 1898, Washington, D.C. A.B., 1925, Stanford University; M.A., 1927, Stanford University; Hon. Dr. Eng., 1943, Polytechnic Institute of Brooklyn. John Price Wetherill Medal, Franklin Institute, 1950.

WAGNER, Karl Willy (F'51), Professor Dr., Dr.-Ing., Hauptstrasse 61, Friedrichsdorf i. Taunus, Germany.
Born: February 22, 1883, Friedrichsdorf i. Taunus, Germany. Dr. Phil., 1910, University Göttingen, Germany; Dr.-Ing. h. c., 1921, Technische Hochschule Darmstadt. Honorary Fellow (Ehrenburger), 1925, Technische Hochschule Karlsruhe; Foreign Honorary Member, 1931, American Academy of Arts and Sciences, Cedergren Gold Medal, Tekniska Hogskolan, Stockholm, 1919; Heinrich-Hertz-Gold Medal, Heinrich-Hertz Society for the Advancement of Radio, Berlin, 1929; Gauss-Weber-Medal, University of Göttingen, 1933; Honorary Member of the Acoustical Society of Sweden, 1947; President of the Academy of Sciences and Literature, Mainz, 1949.

WARNECKE, Robert R. (SM'48—F'50), Technical Director, Electronics Department, Centre de Recherches de la Compagnie Générale de Télégraphie Sans Fils, 23, Rue du Maroc, Paris, France.
Born: November 1906, Tours, France. Doctor, 1933, University of Paris. Henri Becquerel Prize, Academy of Sciences of Paris, 1945; Ancel Prize, French Society of Electricians, 1943; Silver Medal, General Syndicate of Electrical Construction, 1948; Member of the Council, French Society of Physics, 1950; Blondel Medal, 1951.

WATSON-WATT, Sir Robert (SM'46—F'47), Governing Director, Sir Robert Watson-Watt and Partners, Ltd. 7, Gayfere St., London, S.W. 1, England.
Born: April 13, 1892, United Kingdom. B.Sci., 1912, LL.D., 1942, University of St. Andrews, Dundee; D.Sc. (Honorary), 1943, University of Toronto, Toronto, Canada. Vice-President 1950; Director, 1950.

WEBER, Ernst (M'41—SM'43—F'51), Director, Microwave Research Institute; Head, Department of Electrical Engineering, Polytechnic Institute of Brooklyn, 85 Livingston St., Brooklyn, N.Y.
Born: September 6, 1901, Vienna, Austria. Dipl. Eng.(E.E.), 1924, Technical University, Vienna; Ph.D., 1926, University of Vienna; Sc.D., 1927, Technical University. Director, 1952-1954. Committees: Annual Review, 1950-51; Awards, 1952; Board of Editors, 1951; Circuits, 1949-52; Editorial Administrative, 1949-51; Education, 1944-51; Finance, 1952; Instruments and Measurements, *chairman, 1949-51,* 1951-52; Membership, 1941-48; National Convention, 1947, 1951; Standards; Policy Advisory, 1952; 1949-51, *vice-chairman,* 1951-52. Professional Groups: Instrumentation, *chairman 1950-52.* Fellow, AIEE; Fellow, American Physical Society; President's Certificate of Merit, 1948.

WEBSTER, Edward M. (A'30—M'38—SM'43—F'44), Commissioner, Federal Communications Commission, Washington, D.C.
Born: February 28, 1889, Washington, D.C. Director, 1946. Committees: Membership, 1940; Public Relations, 1945-46. Sections, Washington, *secretary, 1940, chairman, 1942.*

WEINBERGER, Julius (A'13—F'25), Staff Member, RCA Laboratories Division, Radio Corporation of America, 711 Fifth Ave., New York, N.Y.
Born: July 22, 1893, New York, N.Y. B.S., 1913, College of the City of New York, New York, N.Y. Committees: Industrial Electronics, 1946-52; Meetings and Papers, 1929; Research, 1946-47. Modern Pioneer Award, National Association of Manufacturers, 1940.

WEIR, Irvin Reed (A'25—M'41—SM'43—F'49), Designing Engineer, Transmitter Division, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: September, 1897, Prairie Creek, Ind. B.S., 1921, E.E.(Professional), 1932, Rose Polytechnic Institute, Terre Haute, Ind. Committees: Annual Review, 1950-52; Antennas, 1944-45; Radio Transmitters, 1945-52; Transmitters, 1944-45.

WENDELL, Edward N. (A'26—M'33—SM'43—F'47), Managing Director, Compania Standard Electric Argentina, Calle Balcarce 226, Buenos Aires, Argentina.

Born: August 11, 1903, Rockport, Mass. B.Sc., 1925, Massachusetts Institute of Technology, Cambridge, Mass.

WHEELER, Harold A. (A'27—M'28—F'35), Consulting Radio Physicist; President, Wheeler Laboratories, Inc., 122 Cutter Mill Rd., Great Neck, L.I., N.Y.
Born: May 10, 1903, St. Paul, Minn. B.S.(Physics), 1925, George Washington University. Morris Liebmann Memorial Prize, 1940. Director, 1934, 1940-45. Committees: Annual Review, 1937, 1940-48; Awards, 1942, *chairman, 1943,* 1944; Bibliography, 1930-32; Board of Editors, 1940-52; Broadcast, 1935-37; Circuits, 1944-46; Editorial Administrative, 1949-52; Executive, 1943-44; Handbook, *chairman, 1945-47;* Meetings and Papers, 1929-30; Membership, 1941-42; New York Program, 1931; Nominations, 1948; Papers, 1931-33; 1935-39; Papers Procurement, 1942-44; Professional Recognition, 1947; Public Relations, 1940; Radio Receivers, 1936, *chairman, 1937;* Regular Papers, 1941; Special Papers, 1940-41; Standardization, 1931; Subcommittee on Electroacoustic Devices, 1927-28; Technical Committee No. 4 on Electroacoustic Devices, 1930; Standards, 1932, 1936-39, *chairman, 1940-45,* 1945-48; Symbols, 1946. Sections: Long Island Subsection, *chairman, 1948-49.* Institute Representative: ASA Sectional Committee on Definitions of Electrical Terms (C-42), 1948, 1950-51; National Television Systems Committee, *alternate, 1940-43.* Fellow, AIEE; Radio Club of America; Associate, I.E.E. Modern Pioneer Award, National Association of Manufacturers, 1940; United States Navy Certificate of Commendation, 1947.

WHEELER, Lynde P. (F'28), Vice-President, Pickard and Burns, Inc., 240 Highland Ave., Needham, Mass.
Born: July 27, 1874, Bridgeport, Conn. Ph.B., 1894, Ph.D., 1902, Yale University, New Haven, Conn. President, 1943; Director, 1940-45. Committees: Bibliography, 1930-32; Board of Editors, 1930-32; Executive, *chairman, 1943;* Frequency Modulation, 1940-45; Meetings and Papers, 1929-30; Membership Solicitation Policy, 1945; Nominations, 1939, 1942, 1944; Papers, 1931-32, 1934; Papers Procurement, 1942-43: Public Relations, 1945-46; Regular Papers, 1941; Standardization Subcommittee on Circuit Elements, 1928. Sections: Washington, *chairman, 1930-32.* Institute Representative: RMA-IRE Co-ordinating, 1943.

WHINNERY, John R. (A'41—SM'44—F'52), Head, Microwave Tube Section, Electron Tube Laboratories, Hughes Aircraft Company, Florence and Teale Sts., Culver City, Calif.
Born: July 26, 1916, Reed, Delta County, Colo. B.S., 1937, Ph.D., 1948, University of California, Berkeley, Calif. Committees: Antennas, 1948; Awards, 1952; Board of Editors, 1946-52; Handbook, 1945-47; Papers, 1944-45; Papers Procurement, 1947-50. Sections: San Francisco, *secretary-treasurer, 1949-50, vice chairman, 1951.*

WHITE, William C. (A'15—M'25—F'40), Electronics Engineer, Research Laboratory, General Electric Company, The Knolls, Schenectady, N.Y.
Born: March 24, 1890, Brooklyn, N.Y. E.E., 1912, Columbia University, New York, N.Y. Treasurer, 1946; Director, 1943-47. Committees: Awards, 1944, *chairman, 1945, 1946;* Bibliography, 1930-32; Board of Editors, 1930, 1944, 1946-52; Education, 1945-46; Executive, *vice-president, 1946;* Investments, *chairman, 1946;* Meetings and Papers, 1928-30; Membership, 1947-52; Nominations, 1933, 1940, 1944-46; Office Practices, 1947; Papers, 1931-44; Papers Procurement, 1944-50; Professional Recognition, *chairman, 1947;* Standardization, 1925, 1929-30; Subcommittee on Vacuum Tubes, 1927-28. Institute Representative: National Electronics Conference Board of Directors, 1947-50.

WHITTEMORE, Laurens E. (A'16—M'25—F'27), Staff Engineer, American Telephone and Telegraph Company, 195 Broadway, New York, N.Y.
Born: August 20, 1892, Topeka, Kan. A.B., 1914, Washburn College, Topeka, Kan.; M.A., 1915, University of Kansas, Lawrence, Kan. Vice-President, 1928; Manager, 1926-27, 1929; Director, 1928, 1935-37. Committees: Administrative, Board of Editors, 1951-52; Annual Review, 1937-39, *chairman, 1940-49,* 1950-52; Awards, 1937, 1948; Bibliography, 1930-32; Board of Editors, 1929-51; Broadcast, 1933; Editorial Administrative, 1946-51; Institute Sections, *chairman, 1926;* Meetings and Papers, 1929; Membership, *chairman, 1925;* Standardization, 1920-25, *chairman, 1926-29,* 1929-31; Subcommittee on Direction Finding Terminology, *chairman, 1924-25;* Subcommittee on Electroacoustic Devices, 1927-28; Standards, 1932-35, 1944-52; Symbols, *chairman, 1944;* Tellers, 1934. Institute Representative: ASA Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1939; ASA Sectional Committee on Radio, 1930, 1936, 1939-48; ASA Sectional Committee on Radio Electrical Co-ordination, 1936, 1939-46; ASA Sectional Committee on Standards for Drawings and Drafting Room Practices, 1930, 1936, 1939; ASA Subcommittee on Electrical Abbreviations, Including Radio, 1930; United States National Committee on Advisors on Symbols, 1936, 1939-51.

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Born: May 30, 1915, Detroit, Mich. B.S., 1937, M.S., 1938, Ph.D., 1950, University of Michigan, Ann Arbor, Mich. Committees: Nuclear Studies, 1948; Modulation Systems, 1949-50; Research, 1949-50. Board of Editors, 1949-51.

WILLIAMS, Charles E. (J'15—A'17—M'24—SM'43—F'52), Chief Electronic Engineer, U. S. N., 2400 11th Ave., S.W., Seattle 4, Wash.
Born: March 15, 1896, Seattle, Wash. Committees: Standardization, 1929. Sections: Seattle, *chairman, 1925; secretary, 1921-22, 1924, 1935.*

WILLIAMSON, Raymond H. (A'31—M'44—SM'46—F'51), Electrical Design Engineer on Transmitters, General Electric Company, Electronics Park, Syracuse, N.Y.
Born: April 6, 1907, Eagle Grove, Iowa. B.S.(E.E.), 1928, Iowa State College, Iowa City, Iowa; M.S.(E.E.), 1935, Union College, Schenectady, N.Y. Committees: Membership, 1945-46; Papers Procurement, 1947-48, 1949-50. Sections: Syracuse, *vice-chairman, 1948-49, chairman, 1949.*

WILMOTTE, Raymond M. (M'29—F'38), President, Raymond M. Wilmotte, Inc., 1469 Church St., N.W., Washington, D.C.
Born: August 13, 1901, Paris, France. M.A., 1921, Cambridge University, England. Committees: Handbook, 1945-47; Industrial Electronics, 1947-48; New York Program, 1933; Nomenclature, Symbols, and Definitions, 1929-30; Papers, 1932-33; Papers Review, 1946-51; Radio Receivers, 1940-47; Radio Transmitters and Antennas, 1929-30; Sections, 1932; Standardization, 1931; Standards, 1932. Premium for Research, Institution of Electrical Engineers, 1930.

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Born: January 18, 1904, Brooklyn, N.Y. B.S.(E.C.E.), 1924, Harvard University. Committees: Papers Review, 1948-49. Sections: New York, *treasurer, 1949-50.*

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Born: July, 1894, New York, N.Y. B.S., 1916, Dartmouth College, Hanover, N.H.; Ph.D., 1923, Cornell University, Ithaca, N.Y. Director, 1952. Committees: Appointments, 1952; Board of Editors, 1946-52; Education, 1945-46, 1948-52; Electronics, 1943-45; Meetings and Papers, 1928-30; Nominations, 1952; Papers, 1931-45; Sections, 1937; Standardization: Electroacoustic Devices, 1927-28; Technical Committee No. 4, Electroacoustic Devices, 1929-30; Use of the Transmission Unit, 1928. Sections: Philadelphia, *chairman, 1936-37.* Institute Representative: ASA Sectional Committee on Acoustical Measurements and Terminology, 1936, 1939. Distinguished Public Service Award, United States Navy, 1949.

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Born: September 22, 1884, Greensboro, Pa. S.B., 1912, Harvard University, Cambridge, Mass. Committees: Increase of Membership, 1914; Papers, 1915; Publicity, 1915-19. Sections: San Francisco Representation, *chairman, 1915.*

WOONTON, Garnet A. (A'40—SM'44—F'51), Professor of Physics; Director, Eaton Electronics Research Laboratory, McGill University, Montreal, P.Q., Canada.
Born: July, 1906, London, Ont., Canada. B.A., 1925, M.A., 1931, University of Western Ontario. Committees: Education, 1945-46. Sections: London, *chairman, 1945.* Institute Representative: University of Western Ontario, 1941-47. Fellow, Royal Society of Canada.

YOUNG, Leo C. (A'19—M'29—F'43), Consultant, Naval Research Laboratory, Washington, D.C.
Born: January 12, 1891, Danville, Ill. Sections: Washington, *secretary, 1938-39, chairman, 1940.* Fellow, AAAS, AIEE; Member APS, Member SPE; President's Certificate of Merit, 1946.

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Born: August, 1904, Chatsworth, Ill. A.B., 1927, North Central College; M.S., 1929, Ph.D., 1931, State University of Iowa, Iowa City, Iowa. Director, 1949. Committees: Board of Editors, 1951-52; Editorial Administrative, 1949-52; Electroacoustics, 1936-37; Electronics, 1943-44. Legion of Merit, Department of the Army, 1945.

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Born: April 15, 1871, Ruppertshofen, Wuerttemberg, Germany. D.Sc., 1894, University of Tuebingen, Germany; Dr.Ing. (Honorary), Institute of Technology, Dresden. Vice-President, 1933; Director, 1933. Committees: Standardization, 1915-17, 1927. Member, Bavarian Academy of Science, 1917; Gold Medal, Heinrich Hertz Gesellschaft, 1926; Medal of Honor, 1928; Goethe Medal for Art and Science, German Government, 1932; Gauss-Weber Medal, University of Goettingen, 1933; Member German Aeronautical Academy, 1938; Honorary Member, German Physical Society, 1941; Honorary Member, German Society for Applied Physics, 1941; Corresponding Member, Academy of Science Goettingen, 1941; Siemens-Stephan Memorial Plate, German Society of Electrical Engineers, 1943; Gold Medal, The City of Munich, 1946; Grasof Medal, Society of German Engineers, 1949. President, Union of German Physical Societies, 1950; Honorary Citizen, Institute of Technology, Stuttgart and Karlsruhe, 1951.

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Born: March 22, 1906, Bucharest, Roumania. B.A., 1931, Wesleyan University. Committees: Annual Review, 1945-46; Board of Editors, 1943; Industrial Electronics, 1945-47, *chairman, 1945,* 1946-47; Membership, 1947-48; Papers Procurement, 1946; Standards, 1945, 1946. Hyat Award, Plastics Industry.

ZWORYKIN, Vladimir K. (M'30—F'38), Director of Electronic Research, Vice-President and Technical Consultant, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
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MEMBERSHIP ROSTER

The following list gives in alphabetical order the names of all members, except those of Student grade, as of May 15, 1952

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NOTES

How to Use Our Business and Product Sections

The Business and Product Sections of this Directory are included for the service of members so that this book will be complete as an index of an industry—listing Engineers, the Businesses they have founded, and the Products they have created for radio, television, communications, and electronics.

The following 4 Parts of the IRE DIRECTORY are:

Part		Page
	Pink Section—Guide to Products	i-viii
2	Company List of Radio-Electronic Manufacturers	3
3	Product Index of Engineering Equipment and Parts	73-295
4	Catalogs and Complete-Data-Spreads Section	297
	—Advertisers Index—Cover III, 295-6—	

Part 2

2277 firms have supplied us voluntarily with information about the components, equipment and services which they render the radio-electronic industry. The manufacturers are listed alphabetically in this section beginning on page 3 and ending on page 72. 1049 non-manufacturers such as distributors and representatives are listed under heading 9, a special directory. This index therefore gives the names of manufacturers of specific products available for purchase, with their addresses and code numbers indicating 101 types of products which they offer.

The completeness of this list depended on information voluntarily supplied us. Our most vigorous efforts may not have made it complete, but the excellent cooperation received from most of the industry is directly responsible for the up-to-dateness of our product data. We will welcome additions and suggestions for the 1953 edition.

Part 3

The Product indexes start on page 73 and continue through 295. In both the alphabetical and the product indexes advertisers who have made it financially possible to provide a really comprehensive Directory to IRE members, have been listed in bold face type with a cross index to the page on which their display advertisement appears—giving complete information on their products and services. Non-advertisers have been listed in the product indexes giving firm name and state only. For full address the reader must turn to the alphabetical index for these companies.

To find the advertisers of a given product, let us say "Amplifiers" look this product up in the Pink Section, just after Part 1—Members. You will see that it is classification Number 005. A full listing of Amplifier manufacturers starts on page 73. Turn to this classification in part 3.

As a service to engineers, both buyer and seller, we have included a list of 1049 firms and individuals who are distributors. Each name is further classified by number to indicate its place in the field—representative, distributor, exporter, etc. This is class #9, starting on page 277.

There are several other helpful indexes. Advertisers are given on Cover III (inside back cover) and pages 295-297; and an index to 1952 Radio Engineering Show Exhibitors is on pages 356-359.

To get a comprehensive picture of what a given firm manufactures for engineers in our field, you will find in the alphabetical index of companies that all their products are listed by code number after the firm's name and address. An innovation this year is the use of ten (10) separate Product Directories, serving basic sections of our industry. We have tried vigorously to make this truly a useful "Radio Engineers Directory."

Part 4

Part 4 is one of the most informative and valuable sections of this Directory. Here manufacturers are supplying engineers with the maximum amount of detailed information possible through the use of multiple page spreads of their products (see pages 297-360). This is followed by a complete catalog file supplied by 16 manufacturers. These catalogs are filed in alphabetical order. The purpose of this section is to give the engineer a complete and ever available catalog file right in his IRE Directory where he can always see it easily and quickly. We believe that the services of this section will be of the utmost help to you.

Please submit all changes, corrections, additions and classification questions to Industry Research Div. c/o Proceedings of the IRE, 303 West 42nd St., New York 36, N.Y.

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William C. Copp, Mgr., Lillian Petranek, Asst., Martha Usdin, Production, Frank G. MacAloon, Research

How to Use the Machol Edge Index

High speed reference is a major objective of the IRE Directory. To this end we have adopted the Machol Edge Index system, and these indexes:

Advertisers Index, pages 295 & 296 and inside back cover.

Key to Products, Pink Section

Index to Spreads & Catalogs, 297 & 360.

Guide to Machol Thumb Indexes facing 72.

The Machol system will help you find both alphabetical and product sections swiftly.

INSTRUCTIONS

1. **Place the four fingers of your RIGHT hand back of the last page of this book.**
2. **Place your RIGHT thumb just below the 1 or 2 line symbol adjacent to the section you want.**
3. **Raise your RIGHT hand slightly and push it to the left bending the pages almost double. *This will spread the edges and cause the edge marks to show more clearly.***
4. **Move your RIGHT thumb across the page edges, fanning the pages until you reach the corresponding symbol.**
5. **Open there—that will be the page you want.**



LICENSE NO. 25 MACHOL EDGE INDEX PATENT APPLIED FOR

Page	
3	A
9	B
13	C
19	D
21	E
25	F
27	G
31	H
33	I
35	J
37	K
39	L
41	M
47	NO
49	P
53	QR
57	S
63	T
67	UV
69	W
71	XYZ

Guide to Directories and Product Classes

0. Audio Frequency Equipment.

005 Amplifiers. Page 73
- 05 Decade amplifiers
- 10 DC amplifiers
- 15 Dynamic noise suppressors
- 20 Hearing aid
- 25 High fidelity
- 30 Inter-coms
- 35 Phonograph pre-amplifiers
- 40 Power amplifiers—recording
- 45 Public address

010 Attenuators. Page 74
- 05 Decade
- 10 Impedance matching
- 20 Volume controlling

015 Equalizers. Page 75
- 05 Dialogue equalizers
- 10 Line equalizers
- 15 Magnetic recording
- 20 Recording diameter equalizers
- 25 Sound effect equalizers

020 Filters. Page 75
- 05 Band pass & band rejection
- 10 Loudspeaker dividing networks
- 15 Variable Band Pass

025 Industrial Sound Systems. Page 77
- 05 Complete systems
- 10 Installation & rental contractors

028 Jacks, Jack Fields & Plugs. Page 77
- 05 Jacks
- 10 Jack fields
- 15 Patch cords
- 20 Plugs

030 Loudspeakers & Headphones. Page 79
- 05 Commercial grade loudspeakers
- 10 Headphones
- 15 High-frequency loudspeakers
- 20 Low-frequency loudspeakers
- 25 Wide-range, 2 & 3 way systems

035 Microphones & Stands. Page 83
- 05 Carbon
- 10 Condenser
- 15 Crystal
- 20 Dynamic
- 25 Velocity
- 30 Microphone stands

040 Phonographs, Pick-ups, Record Changers, etc. Page 83
- 05 Phonograph motors
- 10 Pick-ups—crystal
- 15 Pick-ups—dynamic
- 20 Pick-ups—magnetic
- 25 Pick-ups—reluctance
- 30 Playback arms
- 35 Record changers
- 40 Record players
- 45 Styli-diamond
- 50 Styli-metallic
- 55 Styli-sapphire
- 60 Tape phonographs & playback equipment

045 Record & Transcription Mfrs. & Processors. Page 85

050 Recording Equipment. Page 85
- 05 Disk recorders
- 10 Embossing types of recorders
- 15 Magnetic tape recorders
- 20 Magnetic wire recorders

055 Recording Accessories & Supplies. Page 86
- 05 Blank disks
- 10 Cutting heads
- 15 Cutting styli
- 20 Magnetic recording, playback & erase heads
- 25 Magnetic recording tape-acetate base
- 30 Magnetic recording tape-paper base
- 35 Magnetic recording wire
- 40 Stylus resharpening
- 45 Suction pumps & equipment
- 50 Tape splicing equipment

1. Broadcasting: Both Aural & Visual; Receivers, Transmitters & Associated Equipment.

105 Antennas & Accessories. Page 87
- 05 AM broadcast transmitting
- 10 FM broadcast transmitting
- 15 TV broadcast transmitting
- 20 Supporting towers
- 25 Tower lighting equipment
- 30 Tower erection & maintenance service

110 Monitor Equipment. Page 89
- 05 Frequency
- 10 Modulation
- 15 Video monitors

115 Receivers. Page 89
- 05 AM Broadcast
- 10 AM Shortwave
- 15 FM Broadcast
- 20 TV Broadcast
- 25 TV Boosters
- 30 TV Color adapters

120 Services for the Broadcaster. Page 91
- 05 Frequency measurement
- 10 Packaged program services
- 15 Transcription libraries

125 Studio Equipment. Page 91
- 05 Consoles & speech input equip.
- 10 TV Cameras
- 15 TV camera control equipment
- 20 TV Film projectors
- 25 TV Studio lighting equipment
- 30 Turntables

130 Transmitters. Page 92
- 05 AM Broadcast
- 10 FM Broadcast
- 15 TV Broadcast
- 20 Relay broadcast & STL equip.

2. Communications: All non-broadcast forms of communication; Amateur, Emergency, Facsimile, Mobile etc.

205 Aircraft & Airport Equipment. Page 93
- 05 Airborne receivers
- 10 Airborne transmitters
- 15 Airport receivers
- 20 Airport transmitters
- 25 GCA Equipment, etc.

210 Amateur Equipment. Page 94
- 05 Antennas & antenna accessories, rotators, etc.
- 10 Receiving equipment
- 15 Transmitters

215 Carrier Current Equipment. Page 95
- 05 Complete terminal equipment
- 10 Installation & maintenance service
- 15 Repeat & relay equipment

220 Citizen Radio Apparatus. Page 95

225 Emergency Communications Equipment. Page 95
- 05 Despatching equipment
- 10 Walkie-talkies

230 Facsimile Equipment. Page 97
- 05 Receiving equipment
- 10 Sensitized paper
- 15 Transmitting equipment

235 Marine Equipment. Page 97
- 05 Contract installers
- 10 Pleasure craft radiotelephones
- 15 Shipborne communications equip.

240 Mobile Equipment. Page 97
- 05 Antennas
- 10 Central Station receivers
- 15 Central Station transmitters
- 20 Mobile receivers
- 25 Mobile transmitters
- 30 Selective Calling equipment

245 Point-to-Point Equipment. Page 99
- 05 Antennas & towers
- 10 Receivers
- 15 Transmitters

3. Component Parts.

303 Antennas & Accessories. Page 101
- 05 All-wave receiving
- 10 Dummy
- 15 Feeder line
- 20 Indoor types
- 25 Insulators
- 30 Lightning arrestors
- 35 Mounting hardware
- 40 Small towers

306 Batteries. Page 102
- 05 Dry batteries
- 10 Mercury batteries
- 15 Storage batteries—lead-acid
- 20 Storage batteries—nickel-alkali

Product Guide

309 Blowers & Cooling Fans. Page 102
- 05 Air wheels & housings
- 10 Complete blower assemblies
- 15 Fan blades

312 Cabinets, Consoles & Enclosures. Page 103
- 05 Metal cabinets
- 07 Metal Relay Rack Panels
- 10 Moulded plastic cabinets
- 15 Wood cabinets

315 Capacitors: Fixed. Page 105
- 05 Ceramic
- 10 Electrolytic
- 15 Metallized paper
- 20 Mica
- 25 Oil filled
- 30 Paper
- 35 Plastic insulated
- 40 Silvered mica
- 45 Vacuum

318 Capacitors: Variable. Page 107
- 05 Neutralizing
- 10 Precision variable
- 15 Temperature compensating
- 20 Trimmers
- 25 Tuning
- 30 Vacuum

321 Chassis & Racks. Page 109
- 05 Aluminum chassis
- 10 Steel chassis
- 15 Relay racks & cabinets

324 Coils. Page 110
- 05 Audio frequency chokes
- 10 Deflection yokes
- 15 Focusing coils
- 20 RF chokes
- 25 Toroids
- 30 Tuning

327 Connectors. Page 117
- 05 AN Standard types
- 10 Co-axial
- 15 Microphone
- 20 Multiple circuit connectors
- 25 Power
- 30 Slip ring and commutating connectors

330 Converters. Page 120
- 05 DC Choppers
- 10 Vibrators

333 Cores, Complete. Page 121
- 05 Ferrites
- 10 Pre-formed, spirally wound
- 15 Powdered metal

336 Crystals, (Oscillating) & Accessories. Page 121
- 05 Crystal holders
- 10 Crystal ovens
- 15 Oscillating quartz crystals
- 20 Tourmaline

339 Filters, Noise Reducing. Page 125

342 Fuses & Fuse Holders. Page 127

343 Gyroscopes Page 128

345 Magnets. Page 128
- 05 Electro
- 10 Permanent

348 Meters (Indicating Instruments). Page 129
- 05 Ammeters
- 10 Elapsed time
- 15 Frequency indicating
- 20 Galvanometers
- 25 Micro-ammeters
- 30 Milli-ammeters
- 35 Voltmeters
- 40 Volume level, (DB & VU)
- 45 Wattmeters & watt hour meters

351 Motors & Motor-Generators. Page 133
- 05 Blower & fan motors
- 10 Dynamotors
- 15 Frequency changers
- 20 Motor-generators
- 25 Synchronous motors
- 30 Timing motors

354 Optical Systems, Mirrors, Screens & Supplies. Page 137

357 Pilot Lights & Assemblies. Page 137
- 05 Brackets, jewels, mounts, sockets, etc.
- 10 Incandescent lights
- 15 Neon lights

360 Power Supplies. Page 139
- 05 High voltage, (kilovolt)
- 10 Low voltage
- 15 Medium voltage
- 20 Primary power sources, fuel-engine driven
- 25 Voltage regulated power sources

361 Printed Circuits. Page 143

363 Rectifiers, Metallic. Page 143
- 05 Copper oxide, etc.
- 15 Selenium
- 20 Silicon

366 Relays. Page 145
- 05 Co-axial
- 10 D'Arsonval
- 15 Frequency selective
- 20 Hermetically sealed
- 25 Keying
- 30 Mercury contact
- 35 Polarized
- 40 Power control & overload
- 45 Stepping
- 47 Telephone
- 50 Time delay

369 Resistors. Page 149
- 05 Carbon fixed, moulded
- 10 Carbon, variable
- 15 Deposited carbon
- 20 Potentiometers
- 25 Rheostats
- 30 Vacuum sealed
- 35 Very high megohm
- 40 Wirewound, variable
- 45 Wirewound, fixed
- 50 Wirewound, precision

371 Semi-Conductors. Page 155
- 05 Germanium diodes
- 10 Transistors

372 Sockets. Page 157
- 05 Capacitor, plug-in sockets
- 10 Receiving tube
- 15 Transmitting tube
- 20 UL approved industrial types

375 Switches. Page 157
- 05 Band
- 07 Co-Axial
- 10 Key
- 15 Mercury
- 20 Momentary contact
- 25 Power
- 30 Precision snap-acting
- 35 Rotary
- 40 Slide
- 45 Spring-return
- 50 Thermally operated
- 55 Toggle & push button

378 Telegraph Keys. Page 161
- 05 Manual
- 10 Mechanical high speed
- 15 Semi-automatic

381 Transformers. Page 161
- 03 Audio
- 05 Hermetically sealed
- 10 Horizontal output & flyback
- 15 Power components
- 16 Pulse
- 20 Radio Frequency
- 25 Voltage regulating

383 Tuners Page 169
- 05 AM
- 10 FM
- 15 TV

384 Vacuum Tubes, Receiving. Page 169
- 05 Cathode Ray
- 10 Miniature
- 15 Standard types, glass & metal
- 20 Sub-miniature

387 Vacuum Tubes, Rectifiers & Special Purpose. Page 173
- 05 Electrometer tubes
- 10 Geiger-Mueller
- 15 Grid-controlled rectifiers
- 20 Mercury vapor rectifiers
- 25 Phototubes
- 30 Pirani tubes
- 35 Thyratrons
- 40 Vacuum rectifiers, receiving
- 45 Vacuum rectifiers, transmitting
- 50 Voltage regulators, & ballasts

390 Vacuum Tubes, Transmitting. Page 173
- 05 Air-cooled power tubes
- 10 Iconoscopes
- 15 Image orthicons
- 20 Klystrons
- 23 Magnetrons
- 25 Monoscope tubes
- 30 Water-cooled power tubes

393 Voltage Regulators. Page 175
- 05 Automatic
- 10 Manually operated

Product Guide

4. Applications of Electronics, Industrial, Medical & Military.

405 Computers. Page 177
- 05 Analog
- 10 Digital
- 15 Sub Assemblies

410 Electronic Control Equipment. Page 178
- 05 Burglar-alarm & protective systems
- 10 Combustion & smoke-nuisance controls
- 15 Production control, counting & sorting equipment
- 20 Variable speed controls

415 Geophysical Apparatus. Page 181
- 05 Amplifiers
- 10 Complete exploration equipment
- 15 Control equipment
- 20 Microphones
- 25 Recording galvanometers
- 30 Transformers

420 Induction Heating Equipment. Page 183
- 05 Brazing soldering & welding
- 10 Di-electric heating
- 15 Induction heating

425 Medical Equipment. Page 183
- 05 Cardiographs
- 10 Diathermy
- 15 Electronic cauterizing
- 20 Electro-encephalographs
- 25 Stimulators

430 Nuclear Equipment. Page 183
- 05 Pulse count integrators
- 10 Radiation detectors
- 15 Scalers

435 Servo-Mechanisms. Page 185
- 05 Servo amplifiers
- 10 Gears, gear-trains, etc.
- 15 Servo motors & generators
- 20 Magnetic Amplifiers

440 Telemetering Equipment Page 189

5. Radar, Microwave, UHF Equipment.

505 Antennas. Page 191
- 05 Feed systems
- 10 Receiving
- 15 Reflectors
- 20 Rotating mechanisms
- 25 Transmitting

510 Receivers. Page 195
- 05 Microwave relay
- 10 Position indicators
- 20 Radar

515 Transmitters. Page 195
- 05 Microwave
- 10 Microwave relay
- 15 Radar

520 Waveguides & Accessories. Page 197
- 05 Couplings
- 10 Delay lines, etc.
- 15 Flexible waveguides
- 20 Rigid waveguides
- 25 Sampling lines, reflectors, etc.
- 30 Switches

6. Services and Raw Materials, Fabricating Equipment & Services, Machinery & Tools, Contract Assemblers, Laboratories for Custom Built Equipment, Consulting Engineers.

605 Cable & Wire. Page 201
- 05 Aluminum
- 10 Co-axial cables
- 15 Copper, bare
- 20 Low-loss, high-frequency types
- 25 Precious & rare metals wire
- 30 Pre-formed wire harnesses
- 35 Rubber insulated
- 40 Shielded
- 45 Synthetic insulated
- 50 Woven wire braid

610 Ceramics. Page 206
- 05 Coil forms
- 10 Custom fabrication
- 15 Insulators
- 20 Proprietary forms

615 Consulting Engineers. Page 208
- 05 Acoustical
- 10 Electrical
- 15 Mechanical
- 20 Radio

620 Core Materials. Page 209
- 05 Laminations
- 10 Metallic powders

625 Fabricators & Services. Page 211
- 05 Contract fabrication & assembly
- 10 Electro-plating
- 15 Hardening & heat-treating
- 20 Hermetic sealing service
- 25 Metal stamping & spinning
- 30 Plastic fabricators
- 35 Plastic moulders

630 Gasses & Vapors. Page 219
- 05 Acetylene
- 10 Argon
- 15 Hydrogen
- 20 Krypton
- 25 Neon
- 30 Oxygen
- 35 Xenon

635 Hardware, Findings, & Manufacturing Aids. Page 219
- 05 Adhesive labels & tapes
- 10 Bushings & bearings
- 15 Cans
- 20 Dials & dial assemblies
- 25 Flexible shafts
- 30 Gaskets
- 35 Grommets
- 40 Machine screw products
- 45 Paper preforms, for coil foundations
- 47 Punched metal circuits
- 50 Rivets
- 55 Screws, nuts & washers
- 57 Springs
- 60 Terminals, rivet or stud
- 65 Terminals, wire end
- 70 Terminal boards
- 75 Vibration mounts & isolating pads
- 80 Wire Mesh

640 Hermetic Seals. Page 229
- 05 Complete headers
- 10 Ceramic to metal seals
- 15 Glass to metal seals

645 Insulating Materials. Page 230
- 05 Cambric sheeting
- 10 Cambric tubing
- 15 Cotton tapes
- 20 Fiberglass tapes
- 25 Fiberglass tubing
- 28 Shielding Material
- 30 Synthetics

650 Laboratories & Custom Builders. Page 233
- 05 Individual item builders
- 10 Pilot run plants
- 15 Research & development labs.
- 20 Testing & certifying organizations

655 Lacquers, Paints, Compounds & Waxes. Page 237
- 05 Coil dope
- 10 Conducting paint
- 15 Finishing & protecting lacquer
- 20 Fungus preventatives
- 25 Moisture proofing
- 30 Sealing & potting compounds
- 35 Silicones

660 Machinery & Tools. Page 239
- 05 Coil winding machines
- 10 General production machinery & tools
- 15 Marking & engraving machines
- 20 Soldering irons & guns
- 25 Vacuum tube machinery
- 30 Vacuum pumps
- 35 Welders & brazers

665 Metals, Base. Page 245
- 05 Copper
- 10 Ferrous
- 15 Non-ferrous, excluding copper
- 20 Powdered
- 25 Precious & rare

670 Moulded Products. Page 246
- 05 Insulators
- 10 Knobs & parts
- 15 Proprietary mouldings

675 Plastics. Page 247
- 05 Extrusions
- 10 Raw powders
- 15 Rods
- 20 Sheets

680 Solder. Page 249
- 05 Acid core
- 10 Fluxes
- 15 Plain
- 20 Precious metal
- 25 Pre-forms
- 30 Rosin core

685 Vacuum Tube Parts. Page 249
- 05 Anodes
- 10 Envelopes, glass
- 15 Envelopes, metal
- 20 Getters
- 25 Grids & grid wire
- 30 Guns & gun parts
- 35 Pins & prongs
- 40 Spacers & insulators
- 45 Stampings
- 50 Tubing-cathode

7. Test & Measuring Equipment, Laboratory Standards & Supplies.

705 Audio Frequency Test Equipment. Page 251
- 05 Beat frequency oscillators
- 10 Distortion & noise analyzers
- 15 Intermodulation meters
- 20 Output power meters
- 25 RC oscillators
- 30 Square wave generators
- 35 Voltmeters-audio frequency

710 General Laboratory Equipment & Supplies. Page 255
- 05 Chemicals
- 10 General laboratory equipment
- 15 Screen Rooms
- 20 Shielding materials

Product Guide

715 General Test Equipment. Page 257
- 05 Bridges, capacitance
- 10 Bridges, impedance
- 15 Bridges, resistance
- 20 Decades, capacitance
- 25 Decades, resistance
- 30 Multimeters
- 33 Ohm Meters, Megohmmeters
- 35 Strain gauges
- 40 Stroboscopes
- 45 Vacuum tube testers
- 50 Vacuum tube voltmeters

720 Graphic Recorders. Page 261

725 Laboratory Standards of Frequency & Time. Page 261
- 05 Elapsed time measuring equip.
- 10 Primary standards of frequency
- 15 Primary standards of time
- 20 Secondary standards of frequency
- 25 Secondary standards of time
- 30 Tuning forks

730 Microwave & Radar Test Equipment. Page 263
- 05 Pulse generators
- 10 Slotted lines & measuring accessories
- 15 Time delay generators

735 Nuclear. Page 265
- 05 Dosimeters
- 10 Ionization chambers
- 15 Survey meters

740 Oscilloscopes,—Cathode Ray. Page 267
- 05 General purpose
- 10 Oscilloscope cameras
- 15 Oscillosynchroscopes
- 20 Recording oscillographs
- 25 Special UHF & Pulse Analysis equipment

745 Radio Frequency Test Equipment. Page 269
- 05 Field strength meters
- 10 Impedance & admittance meters
- 15 Marker generators
- 20 "Q" Meters
- 25 RF power output meters
- 30 Multi-vibrators
- 35 Signal generators, AM
- 40 Signal generators, FM
- 45 Signal generators, TV
- 50 SWR meters
- 55 Sweep generators
- 60 Wavemeters

8. Education & Publishing.

805 Education. Page 275
- 05 Technical instruction,—home study
- 10 Technical instruction,—resident

810 Publishing. Page 275
- 05 Book publishers
- 10 Magazines

9. Distributional Functions for the Industry.

Page 277
- 05 Export & Import
- 10 Jobbers & Wholesalers
- 15 Manufacturers Representatives
- 20 Sales & Service
- 25 Surplus dealers

Alphabetical Index of Products

— a —

Number	Product	Page
63005	acetylene	219
63505	adhesive labels & tapes	219
30905	air wheels & housings	102
34805	ammeters	129
00510	amplifiers, dc	73
00505	amplifiers, decade	73
41505	amplifiers, geophysical	181
00520	amplifiers, hearing aid	73
00525	amplifiers, high fidelity	73
00530	amplifiers, inter-com	73
43520	amplifiers, magnetic	185
00545	amplifiers, public address	73
43505	amplifiers, servo	185
68505	anodes	249
30315	antenna, feeder line	101
30325	antenna, insulators	101
30335	antenna, mounting hardware	101
10520	antenna, towers	87
10505	antennas, AM broadcast transmitting	87
21005	antennas & antenna accessories, rotators, etc., amateur	94
30305	antennas, all-wave receiving	101
30310	antennas, dummy	101
10510	antennas, FM broadcast transmitting	87
30320	antennas, indoor types	101
24005	antennas, mobile	97
50505	antennas, radar, microwave & UHF feed systems	191
50510	antennas, radar, microwave & UHF receiving	191
50515	antennas, radar, microwave & UHF reflectors	191
50520	antennas, radar, microwave & UHF rotating mechanisms	191
50525	antennas, radar, microwave & UHF transmitting	191
30340	antennas, small towers	101
10515	antennas, TV broadcast transmitting	87
24505	antennas & towers, point-to-point equipment	99
63010	argon	219
01005	attenuators, decade	74
01010	attenuators, impedance matching	74
01020	attenuators, volume controlling	74

— b —

Number	Product	Page
30605	batteries, dry	102
30610	batteries, mercury	102
30615	batteries, storage—lead acid	102
30620	batteries, storage—nickel-alkali	102
70505	beat frequency oscillators	251
30910	blower assemblies, complete	102
81005	book publishers	275
71505	bridges, capacitance	257
71510	bridges, impedance	257
71515	bridges, resistance	257
63510	bushings & bearings	219

— c —

Number	Product	Page
31205	cabinets, metal	103
31210	cabinets, moulded plastic	103
31215	cabinets, wood	103
60505	cable & wire, aluminum	201
60510	cable & wire, co-axial	201
60515	cable & wire, copper, bare	201
60520	cable & wire, low-loss hf types	201

Alphabetical Index of Products

Number	Product	Page
60525	cable & wire, precious & rare	201
60530	cable & wire, pre-formed harnesses	201
60535	cable & wire, rubber insulated	201
60540	cable & wire, shielded	201
60545	cable & wire, synthetic insulated	201
60550	cable & wire, wire braid	201
64505	cambric sheeting	230
64510	cambric tubing	230
63515	cans	219
31505	capacitors: fixed, ceramic	105
31510	capacitors: fixed, electrolytic	105
31515	capacitors: fixed, metallized paper	105
31520	capacitors: fixed, mica	105
31525	capacitors: fixed, oil filled	105
31530	capacitors: fixed, paper	105
31535	capacitors: fixed, plastic insulated	105
31540	capacitors: fixed, silvered mica	105
31545	capacitors: fixed, vacuum	105
31805	capacitors: variable, neutralizing	107
31810	capacitors: variable, precision	107
31815	capacitors: variable, temperature compensating	107
31820	capacitors: variable, trimmers	107
31825	capacitors: variable, tuning	107
31830	capacitors: variable, vacuum	107
42505	cardiographs	183
21505	carrier current, complete terminal equipment	95
21510	carrier current equipment, installation & maintenance	95
21515	carrier current equipment, repeat & relay equipment	95
42515	cauterizing, electronic	183
61005	ceramics, coil forms	206
61010	ceramics, custom fabrication	206
61015	ceramics, insulators	206
61020	ceramics, proprietary forms	206
32105	chassis, aluminum	109
32110	chassis, steel	109
71005	chemicals	255
32405	chokes, audio frequency	110
32420	chokes, rf	110
33005	choppers, dc	120
22000	citizen radio & apparatus	95
65505	coil dope	237
61005	coil forms, ceramic	206
63545	coil forms, paper	219
66005	coil winding machines	239
32415	coils, focusing	110
32430	coils, tuning	110
32730	commutators	117
40515	computer—sub assemblies	177
40505	computers, analog	177
40510	computers, digital	177
65510	conducting paint	237
32705	connectors, AN standard types	117
32710	connectors, co-axial	117
32715	connectors, microphone	117
32720	connectors, multiple circuit	117
32725	connectors, power	117
32730	connectors, slip ring & commutating	117
12505	consoles & speech input equip., studio	91
61505	consulting engineers, acoustical	208
61510	consulting engineers, electrical	208
61515	consulting engineers, mechanical	208
61520	consulting engineers, radio	208
62505	contract fabrication & assembly	211
62005	core materials, laminations	209
62010	core materials, metallic powders	209
33305	cores, ferrites	121
33315	cores, powdered metal	121
33310	cores, preformed, spirally wound	121
64515	cotton tapes	230
33605	crystal holders	121
33610	crystal ovens	121
33615	crystals, oscillating quartz	121
33620	crystals, tourmaline	121
05510	cutting beads, recording	86
	— d —	
71520	decades, capacitance	257
71525	decades, resistance	257
32410	deflection yokes	110
22505	despatching equipment, emergency communications	95
63520	dials & dial assemblies	219
42510	diathermy	183
42010	di-electric heating	183
05505	disks, blank	86
70510	distortion & noise analyzers	251
73505	dosimeters, nuclear	265
00515	dynamic noise suppressors	73
35110	dynamotors	133
	— e —	
72505	elapsed time measuring equip.	261
42520	electro-encephalographs	183
62510	electro-plating	211
41005	electronic control equip. burglar-alarm & protective systems	178
41010	electronic control equip. combustion & smoke-nuisance	178
41015	electronic control equip. production control, counting & sorting	178
41020	electronic control equip. variable speed	178
68510	envelopes, glass	249
68515	envelopes, metal	249
01505	equalizers, dialogue	75
01510	equalizers, line	75
01515	equalizers, magnetic recording	75
01520	equalizers, recording diameter	75
01525	equalizers, sound effect	75
90500	export & import	277
	— f —	
23005	facsimile, receiving equipment	97
23010	facsimile, sensitized paper	97
23015	facsimile, transmitting equip.	97
30915	fan blades, blower	102
64520	fiberglass tapes	230
64525	fiberglass tubing	230
74505	field strength meters	269
02005	filters, band pass & band rejection	75
02010	filters, loudspeaker dividing network	75
33900	filters, noise reducing	125
02015	filters, variable band pass	75
65515	finishing & protecting lacquer	237
63525	flexible shafts	219
12005	frequency measurement services	91
65520	fungus preventatives	237
34200	fuses & fuse holders	127
	— g —	
20525	GCA equipment, etc.	93
34820	galvanometers	129
63530	gaskets	219
71010	general laboratory equipment	255
66010	general production machinery	239
41510	geophysical, complete exploration equipment	181
41515	geophysical control & equipment	181
41525	geophysical recording galvanometers	181
37105	germanium diodes	155
68520	getters	249
68525	grids & grid wire	249
63535	grommets	219
	— h —	
62515	hardening & heat treating service	211
03010	headphones	79
62520	hermetic sealing service	211
64005	hermetic seals, complete headers	229
64010	hermetic seals, ceramic to metal seals	229
64015	hermetic seals, glass to metal seals	229
63015	hydrogen	219
	— i —	
74510	impedance & admittance meters	269
35710	incandescent lights, pilot	137
65005	individual item builders	233
42015	induction heating equipment	183
42005	induction heating equipment, brazing, soldering & welding	183
67005	insulators	246
70515	intermodulation meters	251
73510	ionization chambers	265
	— j —	
02810	jack fields	77
02805	jacks	77
91000	jobbers & wholesalers	277
	— k —	
67010	knobs & parts	246
63020	krypton	219
	— l —	
635	lacing cord, nylon	219
30330	lightning arrestors	101
03005	loudspeakers, commercial grade	79
03015	loudspeakers, high-frequency	79
03020	loudspeakers, low-frequency	79
03025	loudspeakers, wide-range, 2 & 3 way systems	79
	— m —	
63540	machine screw products	219
660	machinery	239
81010	magazines	275
05520	magnetic recording, playback & erase heads	86
34505	magnets, electro	128
34510	magnets, permanent	128
91500	manufacturers representatives	277
23505	marine equipment, contract installers	97
74515	marker generators	269
66015	marking & engraving machines	239
71533	megohm meters	257
62525	metal stamping & spinning	211
66505	metals base, copper	245
66510	metals base, ferrous	245
66515	metals base, non-ferrous, excluding copper	245
66520	metals base, powdered	245
66525	metals base, precious & rare	245
34810	meters, elapsed time	129
74505	meters, field strength	269
34815	meters, frequency indicating	129
74525	meters, power output, rf	269
34840	meters, volume level, (db & vu)	129
34825	micro-ammeters	129
03530	microphone stands	83
03505	microphones, carbon	83
03510	microphones, condenser	83
03515	microphones, crystal	83
03520	microphones, dynamic	83
41520	microphones, geophysical	181
03525	microphones, velocity	83
34830	milli-ammeters	129
65525	moisture proofing lacquers	237
11005	monitors, frequency	89
11010	monitors, modulation	89
11015	monitors, video	89
35120	motor-generators	133
35105	motors, blower & fan	133
35115	motors, frequency changers	133
04005	motors, phonograph	83
35125	motors, synchronous	133
35130	motors, timing	133
74530	multi-vibrators	269
71530	multimeters	257
	— n —	
63025	neon	219
35715	neon lights, pilot	137
	— o —	
71533	ohm meters	257
35400	optical systems, mirrors, screens & supplies	137
70525	oscillators, rc	251
74010	oscilloscope cameras	267
74005	oscilloscopes, general purpose	267
74020	oscilloscopes, recording	267
74025	oscilloscopes, special UHF & pulse analysis equipment	267
74015	oscillosynchroscopes	267
70520	output power meters	251
63030	oxygen	219
	— p —	
12010	packaged program services	91
635	packaging	219
63545	paper preforms, for coil foundations	219
02815	patch cords	77
04005	phonograph motors	83
04010	pick-ups—crystal	83
04015	pick-ups—dynamic	83
04020	pick-ups—magnetic	83
04025	pick-ups—reluctance	83
35705	pilot lights, brackets, jewels, mounts, sockets, etc.	137
65010	pilot run plants	233
68535	pins & prongs	249
62530	plastic fabricators	211
62535	plastic moulders	211
67505	plastics, extrusions	247
67510	plastics, raw powders	247
67515	plastics, rods	247
67520	plastics, sheets	247
04030	playback arms	83
02820	plugs	77
36920	potentiometers	149
00540	power amplifiers—recording	73
74525	power output meters, rf	269
36005	power supplies, high voltage (kilovolt)	139
36010	power supplies, low voltage	139
36015	power supplies, medium voltage	139
36020	power supplies, primary power sources, fuel-engine driven	139
36025	power supplies, voltage regulated power sources	139
00535	pre-amplifiers, phonograph	73
72510	primary standards of frequency	261
72515	primary standards of time	261
36100	printed circuits	143
67015	proprietary mouldings	246
43005	pulse count integrators	183
73005	pulse generators	263
63547	punched metal circuits	219
	— q —	
74520	"Q" meters	269
	— r —	
32115	racks, relay & cabinets	109
43010	radiation detectors	183
23510	radiotelephones, pleasure craft	97
11505	receivers, AM broadcast	89
11510	receivers, AM shortwave	89
20505	receivers, airborne	93
20515	receivers, airport	93
11515	receivers, FM broadcast	89
51005	receivers, microwave relay	195
24020	receivers, mobile	97
24010	receivers, mobile-central station	97
24510	receivers, point-to-point equip.	99
51010	receivers, position indicators	195
51020	receivers, radar	195
11520	receivers, TV broadcast	89
21010	receiving equipment, amateur	94
04035	record changers	83
04040	record players	83
04500	record & transcription manufacturers & processors	85
05005	recorders, disk	85
05010	recorders, embossing types	85
72000	recorders, graphic	261
05015	recorders, magnetic tape	85
05020	recorders, magnetic wire	85
36305	rectifiers, copper oxide, etc.	143
38715	rectifiers, grid-controlled vacuum tubes	173
38720	rectifiers, mercury vapor vacuum tubes	173
36315	rectifiers, selenium	143
36320	rectifiers, silicon	143
38740	rectifiers, vacuum	173
13020	relay broadcast & STL equipment	92
31207	relay rack panels, metal	103
36605	relays, co-axial	145
36610	relays, D'Arsonval	145
36615	relays, frequency selective	145
36620	relays, hermetically sealed	145
36625	relays, keying	145
36630	relays, mercury contact	145
36635	relays, polarized	145
36640	relays, power control & overload	145
36645	relays, stepping	145
36647	relays, telephone	145
36650	relays, time delay	145
65015	research & development	233
36905	resistors, carbon fixed, moulded	149
36910	resistors, carbon, variable	149
36915	resistors, deposited carbon	149
36930	resistors, vacuum sealed	149
36935	resistors, very high megohm	149
36945	resistors, wirewound, fixed	149
36950	resistors, wirewound, precision	149
36940	resistors, wirewound, variable	149
36925	rheostats	149
63550	rivets	219
	— s —	
92000	sales & service	277
43015	scalers, nuclear	183
71015	screen rooms	255
63555	screws, nuts & washers	219
65530	sealing & potting compounds	237
72520	secondary standards of frequency	261
72525	secondary standards of time	261
24030	selective calling equipment, mobile	97
43505	servo amplifiers	185
43510	servo-mechanisms, gears, gear-trains, etc.	185
43515	servo motors & generators	185
71020	shielding materials	255

Alphabetical Index of Products

Alphabetical Index of Products

Number	Product	Page
23515	shipborne communications equip.	97
74535	signal generators, AM	269
74540	signal generators, FM	269
74545	signal generators, TV	269
65535	silicones	237
73010	slotted lines & measuring accessories	263
37205	sockets, capacitor, plug-in	157
37210	sockets, receiving tube	157
37215	sockets, transmitting tube	157
37220	sockets, UL approved industrial types	157
68005	solder, acid core	249
68010	solder, fluxes	249
68015	solder, plain	249
68020	solder, precious metal	249
68025	solder, pre-forms	249
68030	solder, rosin core	249
66020	soldering irons & guns	239
02505	sound systems, industrial	77
02510	sound systems industrial—installation & rental	77
12505	speech input equipment	91
63557	springs	219
70530	square wave generators	251
42525	stimulators	183
71535	strain gauges	257
635	strain reliefs	219
71540	stroboscopes	257
05515	styli, cutting	86
04045	styli-diamond	83
04050	styli-metallic	83
04055	styli-sapphire	83
05540	stylus resharpening	86
05545	suction pumps & equipment, recording	86
92500	surplus dealers	277
73515	survey meters	265
74550	SWR meters	269
74555	sweep generators	269
37505	switches, band	157
37507	switches, co-axial	157
37510	switches, key	157
37515	switches, mercury	157
37520	switches, momentary contact	157
37525	switches, power	157
37530	switches, precision snap-acting	157
37535	switches, rotary	157
37540	switches, slide	157
37545	switches, spring-return	157
37550	switches, thermally operated	157
37555	switches, toggle & push button	157
52030	switches—wave guide	197
64530	synthetics, insulating	230

— t —

11525	TV boosters	89
12515	TV camera control equipment	91
12510	TV cameras	91
11530	TV color adapters	89
12520	TV film projectors	91
12525	TV studio lighting equipment	91
05525	tape-acetate base, magnetic recording	86
05530	tape-paper base, magnetic recording	86
04060	tape phonographs & playback equipment	83
05550	tape splicing equipment	86
80505	technical instruction — home study	275
80510	technical instruction — resident	275
37805	telegraph keys, manual	161
37810	telegraph keys, mechanical high speed	161
37815	telegraph keys, semi-automatic	161
44000	telemetering equipment	189
63570	terminal boards	219
63560	terminals, rivet or stud	219
63565	terminals, wire end	219
65020	testing & certifying organizations	233
37550	thermostats	157
63573	thermostats	219
73015	time delay generators	263
32425	toroids	110
10525	tower lighting equipment	87
10530	tower erection & maintenance service	87
10520	towers, antenna	87
12015	transcription libraries	91
38103	transformers, audio	161
41530	transformers, geophysical	181
38105	transformers, hermetically sealed	161
38110	transformers, horizontal output & flyback	161
38115	transformers, power components	161
38116	transformers, pulse	161
38120	transformers, radio frequency	161
38125	transformers, voltage regulating	161
37110	transistors	155
13005	transmitters, AM broadcast	92
13010	transmitters, FM broadcast	92
13015	transmitters, TV broadcast	92
20510	transmitters, airborne	93
20520	transmitters, airport	93
21015	transmitters, amateur	94
51505	transmitters, microwave	195
51510	transmitters, microwave relay	195
24025	transmitters, mobile	97
24015	transmitters, mobile—central station	97
24515	transmitters, point-to-point equip.	99
51515	transmitters, radar	195
68550	tubing, cathode	249
38305	tuners, AM	169
38310	tuners, FM	169
38315	tuners, TV	169
72530	tuning forks	261
12530	turntables, studio type	91

— v —

66030	vacuum pumps	239
66025	vacuum tube machinery	239
68530	vacuum tube parts, guns & gun parts	249
68540	vacuum tube parts, spacers & insulators	249
68545	vacuum tube parts, stampings	249
71545	vacuum tube testers	257
71550	vacuum tube voltmeters	257
38705	vacuum tubes, electrometer	173
38710	vacuum tubes, Geiger-Mueller	173
38725	vacuum tubes, phototubes	173
38730	vacuum tubes, pirani	173
38405	vacuum tubes, receiving cathode-ray	169
38410	vacuum tubes, receiving, miniature	169
38415	vacuum tubes, receiving, standard types, glass & metal	169
38420	vacuum tubes, receiving, subminiature, miniature	169
38735	vacuum tubes, thyratrons	173
39005	vacuum tubes, transmitting air-cooled power	173
39010	vacuum tubes, transmitting, iconoscopes	173
39015	vacuum tubes, transmitting, image orthicons	173
39020	vacuum tubes, transmitting, klystrons	173
39023	vacuum tubes, transmitting, magnetrons	173
39025	vacuum tubes, transmitting, monoscope	173
39030	vacuum tubes, transmitting, water-cooled power	173
38740	vacuum tubes, vacuum rectifiers, receiving	173
38745	vacuum tubes, vacuum rectifiers, transmitting	173
63575	vibration mounts & isolating pads	219
33010	vibrators	120
39305	voltage regulators, automatic	175
38750	voltage regulators & ballasts, vacuum tube	173
39310	voltage regulators, manually operated	175
34835	voltmeters, panel	129
70535	voltmeters-audio frequency	251

— w —

22510	walkie-talkies	95
34845	wattmeters & watt hour meters	129
52005	waveguide, couplings	197
52010	waveguide, delay lines, etc.	197
52025	waveguide, sampling lines, reflectors, etc.	197
52015	waveguides, flexible	197
52020	waveguides, rigid	197
74560	wavemeters	269
66035	welders & brazers	239
605	wire, see cable	201
05535	wire, magnetic recording	86
63580	wire mesh	219

— x —

63035	xenon	219

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KEL-F

VOLUME-PRODUCTION PRICING NOW RADICALLY BROADENS SCOPE OF APPLICATIONS FOR THIS UNIQUE THERMOPLASTIC

Volume demand now measured in the hundreds of tons and improved production methods—have combined to radically reduce the per lb. cost of Kel-F. Further, experience has shown that potential applications require only small quantities of Kel-F per finished item, because of the plastic's superior properties. In view of these two facts, design engineers are currently reevaluating the use of Kel-F for all applications where the seven basic Kel-F properties meet design or performance specifications.

LEADING MOLDERS NOW OFFER KEL-F PARTS AND BASIC MATERIALS

Already, more than 50 leading molders in the country are prepared to deliver Kel-F tubing, rod, sheet, film and strip in a variety of sizes and types of material. Many of these are supplying not only these basic fabricating materials but are also producing finished parts by the standard methods such as compression, transfer, injection and extrusion molding.

TECHNICAL BULLETINS, SERVICES NOW AVAILABLE...

Detailed data—in bulletin form—on physical properties molding techniques, dispersions and other Kel-F products are available. The Chemical Manufacturing Division's Technical Service Department has been augmented to offer additional help to design and materials engineers, as well as molders, in the use of this unique material.

Chemical Manufacturing Division
The M. W. KELLOGG Company
P. O. Box 469 • Jersey City 3, N. J.
In N. Y. WOrth 4-6775 In N. J. DElaware 3-3100

BASIC KEL-F MATERIALS AVAILABLE
(Order *direct* from Kellogg)

Molding Powders	Unplasticized	#300 — for high temperature service #270 — for less severe temperatures
	Plasticized (In Grade #300)	P20 — Containing 20% plasticizer P25 — Containing 25% plasticizer P30 — Containing 30% plasticizer
Dispersions		NW-25 — Flows readily at fusion temperatures N-1 — High molecular weight
Oils, Waxes and Greases		Five grades — from Light Oil to Hard Wax — are available. Details on request.

USE KEL-F when applications require — Properties

CHEMICAL INERTNESS
No effect has been observed after prolonged exposure of Kel-F to concentrated sulfuric, hydrofluoric and hydrochloric acids; to strong caustic; to fuming nitric acid, aqua regia and other vigorous oxidizing materials. It is equally resistant to most organic solvents.

ELECTRICAL RESISTANCE
Kel-F has high resistance to electricity . . . is a poor conductor of heat . . . and its electrical properties are superior to most plastics. Dielectric constant is in the range of the best available materials.

ZERO MOISTURE ABSORPTION
In continuous tests, Kel-F exhibited zero water absorption. It is not wet by water . . . is unaffected by high humidity or tropical exposure.

WIDE TEMPERATURE RANGE
Kel-F performs satisfactorily over a temperature range of 710 fahrenheit degrees — from a low of —320° F. (liquid nitrogen) to a high of 390° F.

MECHANICAL STRENGTH
Kel-F has high tensile strength on the order of 6000 psi at 77° F . . . excellent impact strength and abrasion resistance.

SUPERIOR MEMORY
Kel-F exhibits "cold-flow" characteristics superior to any other commercial fluoro-carbon. While it deforms slightly under pressure, it returns to original shape when pressure is released.

MOLDABILITY — MACHINABILITY
Kel-F is molded by all standard methods — compression, transfer, injection and extrusion. It is readily punched, drilled or otherwise machined to close tolerances.

WIDE VARIETY IN FORM
Kel-F is available in film, sheet, rod and tubes from recognized molders. As a dispersion for spray or dip application and in form of oils, greases and waxes it is available direct from Kellogg.

PURCHASE KEL-F in any desired form — Products

FABRICATED PRODUCTS
Gaskets
Washers
"O" Rings
"U" Packing
Valve Discs
Valve Seats
Valve Diaphragms
Pump Diaphragms
Resilient-Core "O" Rings
Drum and Tank Liners
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Machined Fittings
Coated Wire
Coated Hook-up Wire
Coil Forms
Transformer Terminals
Multi-lead Terminals
Rotary Switches
Tube Socket Bases
Aerial Supports
Resistor Sleeves

FABRICATED PRODUCTS
Molded Sheets
Thickness — 1/64" to 1/2"
Diameter — in disc form to 45"
Extruded Rod
Diameter — up to 1"
Length — to specification
Molded Rod
Diameter — up to 4"
Length — to 12"
Extruded Tubing
Diameter — up to 2"
Wall thickness — to specification
Length — to specification
Extruded Strip
Thickness — .010" to .125"
Width — 2" to 4"
Length — to specification
Thin Film
(EXTRUDED AS LAY-FLAT TUBING)
Thickness — .002" to .010"
Width — lay-flat up to 20" (total width to 40")

List of the molders, extruders, fabricators and coaters furnishing the above listed items available on request.

THE ONLY COMMERCIAL FLUORO-CHLORO-CARBON THERMOPLASTIC

It's Here at Last!



The Sensational New Open Transformer that meets MIL-T-27, Grade 1

FORMFLEX®
Patent Pending
TRANSFORMERS

- Open-type—saves space and weight
- Simple dip process—no molds
- Better than metal cased units—no soldered seams

Now, for the first time, you have available for use in electronic equipment of all kinds, an open-type transformer with all the performance characteristics of a metal cased transformer but—with only a fraction of its weight and bulk.

This sensational transformer advance is made possible through the development of a simple, automatic dip process. There is no need for costly and troublesome molds.

FORMFLEX eliminates the possibility of leaky soldered seams that is ever present in metal cased transformers. Made only by Aircraft Transformer Corporation and its licensees.

Direct all inquiries to Aircraft Transformer Corporation, Long Branch, New Jersey.

AIRCRAFT TRANSFORMER CORPORATION

MANUFACTURERS OF INDUCTIVE EQUIPMENT • LONG BRANCH, NEW JERSEY, LONG BRANCH 6-6250

Akron Rubber Co., 53 Watson St., New York 7, N.Y., 6

Aladdin Radio Ind., Inc., 703, Murfreesboro Rd., Nashville 10, Tenn., 1, 2, 3, 6

Alden Products Co., 117 North Main St., Brockton 64, Mass., 0, 2, 3, 5, 6
For details see ad on page 116

Alectronic Protec. Corp. of America, 115 John St., New York 38, N.Y., 4, 6

Allax Paper & Engineering Co., P.O. Box 125, Westboro, Mass., 0, 2, 7

All American Tool & Mfg. Co., 1014 Fullerton Ave., Chicago 14, Ill., 7

All Metal Products Co., 471 Dartmouth St., Manhasset, L.I., N.Y., 3, 6

All Metal Screw Products Co., Inc., 33 Greene St., New York 17, N.Y., 6

All Star Products, Inc., Defiance, Ohio, 3

Allard Instrument Corp., 30 Broad St., New York 4, N.Y., 3

Allegheny Ludlum Steel Corp., Oliver Bldg., Pittsburgh 22, Pa., 6

Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 11, Wis., 3

Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio, 0, 1, 2, 3, 5

Alliance Tool & Motor Co., Ltd., 591 Queensway, Toronto 14, Canada, 0, 1, 3, 5, 6

Allied Allegri Machine Co., Inc., 141 River Road, Nutley, N.J., 3, 6

Allied Asphalt & Mineral Corp., 217 Broadway, New York 7, N.Y., 6

Allied Control Co., Inc., 2 East End Ave., New York, N.Y., 3

Allied Radio Corp., 833 W. Jackson Blvd., Chicago 7, Ill., 0
For details see ad on page 278

Allis Co., Louis, Milwaukee 7, Wis., 4

Alloy Metal Wire Co., Inc., 13 & Pennsylvania Ave., Prospect Park, Pa., 0, 6

Alpha Electronics, Inc., 53 Bergen Turnpike, Little Ferry, N.J., 3

Alpha Metals, Inc., 56 Water St., Jersey City, N.J., 6

Alpha Wire Corp., 43 Broadway, New York 13, N.Y., 6

Altec Lansing Corp., 9356 Santa Monica, Beverly Hills, Calif., 0, 1, 3, 7

Amalgamated Electronics, Clinton Corners, N.Y., 3

American Amplifier & TV Corp., 1111 19 St., N.W., Washington 6, D.C., 1, 6

American Barrograph Corp., 599 Sackett St., Brooklyn 30, N.Y., 3

American Brass Co., 414 Meadow St., Waterbury 20, Conn., 6
For details see ad on page 218

American Chain & Cable Co., Inc., Connecticut Ave., Bridgeport, Conn., 6

American Chronoscope Corp., 316 W. First St., Mt. Vernon, N.Y., 3, 7

American Chromium Co., 2nd & Box 544, Carnegie, Pa., 6

American Communications Corp., 300 Broadway, New York, N.Y., 0, 1, 2, 3, 4, 6

American Electric Cable Co., 181 Appleton St., Holyoke, Mass., 6

American Electrical Heater Co., 4420 Cass Ave., Detroit, Mich., 6

American Electric Metal Corp., 320 Yonkers Ave., Yonkers 2, N.Y., 3, 6

American Electrochrome Corp., 5629 W. Jefferson Blvd., Los Angeles 16, Calif., 0, 2, 3, 5, 6, 7

American Gem & Pearl Co., 7 W. 48 St., New York 19, N.Y., 3

American Hinge Corp., 200 Wallabout St., Brooklyn 6, N.Y., 6

American Hydromatic Corp., 145 W. 57 St., New York 19, N.Y., 4, 6

American Insulator Corp., New Freedom, Pa., 3, 6

American Lathrobe Corp., 333 W. 52 St., New York 19, N.Y., 0, 6

American Lava Corp., Manufacturers Road, Chattanooga 5, Tenn., 3, 6
For details see ad on page 8

American Measuring Instrument Corp., 21-25 44 Ave., Long Island City 1, N.Y., 4, 6

American Microphone Co., 370 S. Fair Oaks Ave., Pasadena 7, Calif., 0

American Phenolic Corp., 1830 S. 54 Ave., Chicago 50, Ill. 0, 1, 2, 3, 5, 6
For details see ad on page 2

American Platinum Works, 231 New Jersey R.R. Ave., Newark 5, N.J., 6

American Products Mfg. Co., Inc., 5251 Oleander St., New Orleans 18, La., 6

American Radio Hardware Co., Inc., 152 MacQuesten Pkwy. S., Mt. Vernon, N.Y., 0, 3, 6
See Radio Essential Advertising Section

American Radio & Television, Inc., 5th & Cornish Sts., N. Tenth Rock, Ark., 1, 3, 6

American Radiocore Co., Inc., 37 Flatbush Ave., Brooklyn, N.Y., 3

American Relay & Controls, Inc., 4901 W. Fillmore St., Chicago 44, Ill., 3

American Screw Co., 1670 W. Main St., Willimantic, Conn., 6

American Steel & Wire Co., 614 Superior, Cleveland 13, Ohio, 6

American Structural Prods. Co., P.O. Box 1035 Dela., Toledo 1, Ohio, 6

American Television, Inc., 381 W. Erie St., Chicago 10, Ill., 8

American Television & Radio Co., 300 E. 4 St., St. Paul 1, Minn., 3

American Time Products, Inc., 580 Fifth Ave., New York 36, N.Y., 7

Amertronic, Inc., 1471 Church St., N.W., Washington 5, D.C., 3, 4, 5, 6, 7

Amglo Corp., 2037 W. Division St., Chicago 22, Ill., 3

Ampetex Electronic Corp., 230 Duffy Ave., Hicksville, L.I., N.Y., 3
For details see ad on page 169

Amperite Co., Inc., 561 Broadway, New York 12, N.Y., 3
For details see ad on page 5

Ampex Electric Corp., 934 Charter St., Redwood City, Calif., 0
For details see ad on page 84

Amplex Mfg. Co., 6501 Harper Ave., Detroit 31, Mich., 3, 6

Amplifier Corp. of America, 398 Broadway, New York 13, N.Y., 0, 3, 6

(Continued on page 7)

AMPERITE

THERMOSTATIC METAL TYPE
Delay Relays

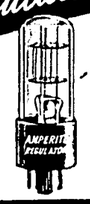
PROVIDE DELAYS RANGING FROM 1 TO 120 SECONDS

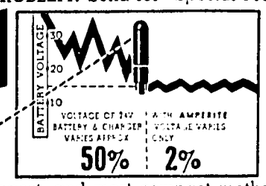


FEATURES: — Compensated for ambient temperature changes from —40° to 110° F . . . Hermetically sealed; not affected by altitude, moisture or other climate changes . . . Explosion-proof . . . Octal radio base . . . Compact, light, rugged, inexpensive . . . Circuits available: SPST Normally Open; SPST Normally Closed.

PROBLEM? Send for *"Special Problem Sheet"*

Regulators



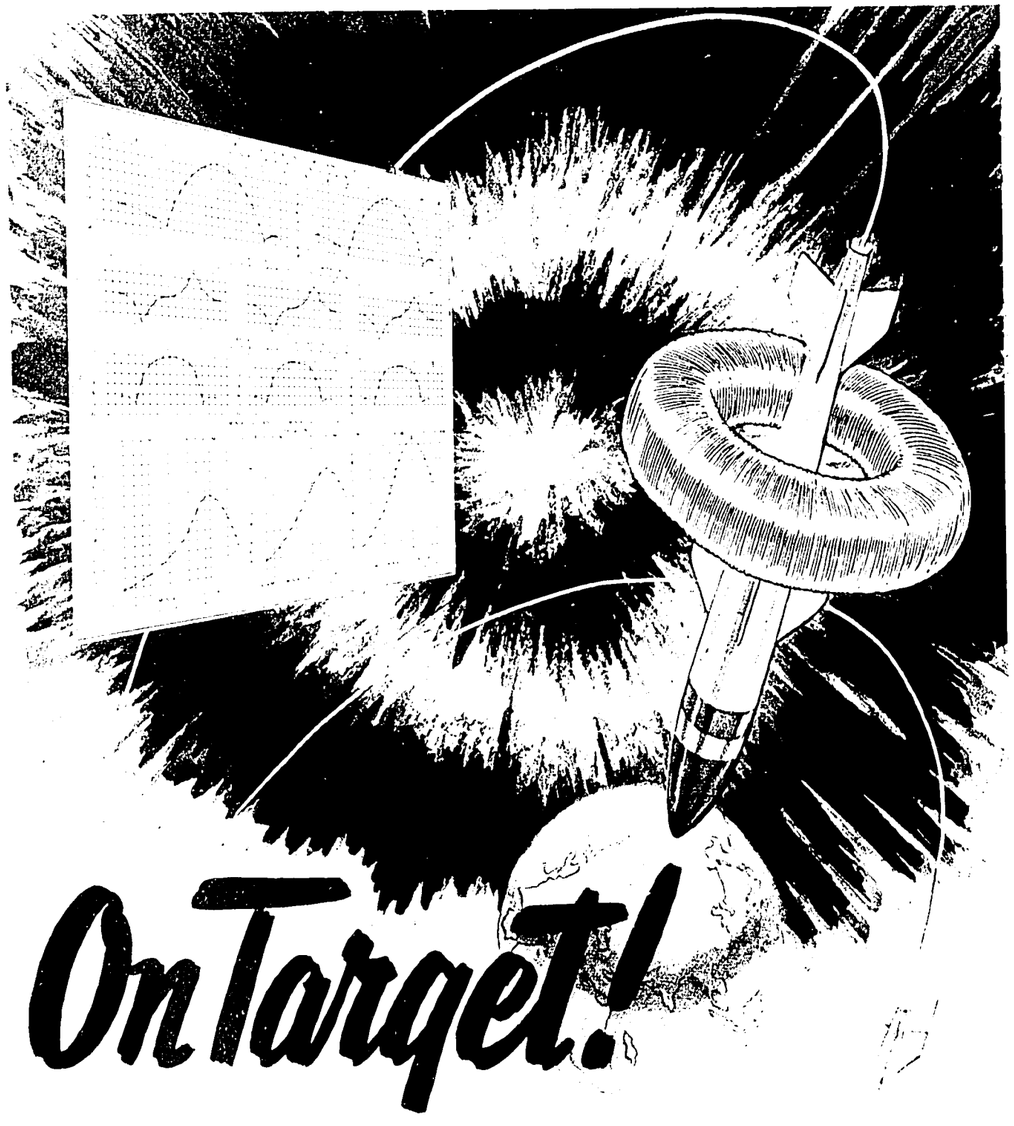


Amperite REGULATORS are the simplest, lightest, cheapest, and most compact method of obtaining current or voltage regulation . . . For currents of .060 to 6 Amps. . . . Hermetically sealed; not affected by altitude, ambient temperature, humidity.

Write for 4-page Illustrated Bulletin.

AMPERITE CO., Inc., 561 Broadway, New York 12, N. Y.
In Canada: Atlas Radio Corp., Ltd., 560 King St., W. Toronto

Numbers after address refer to Product Directories in which firm is listed: 0—Audio, 1—Broadcasting, 2—Communications, 3—Components, 4—Electronic Equip., 5—Radar, 6—Services & Materials, 7—Test Equip., 8—Educational, 9—Distribution.



On Target!

THE TERM "GUIDED MISSILE" TO THE UNINITIATED USUALLY INDICATES AN AIRBORNE PILOTLESS PLANE DEVICE. HOWEVER, TO THE WELL INFORMED, THIS CONNOTES MANY OTHER POSSIBLE FORMS OF MISSILES, SOME OF WHICH ARE PHYSICAL REALITIES AND SOME DRAWING BOARD PROJECTS.
NOT ALL OF THESE "CONTROLLED FLIGHT" DEVICES HAVE SPECIFIC USES AS ATTACK MISSILES. MANY ARE VALUABLE RESEARCH AIDS IN THE ANALYSIS OF THE BEHAVIOUR OF AIRCRAFT UNDER EXTREME OPERATING CONDITIONS. (TELEMETERING).

THE ENGINEERS WHO DESIGN THE CONTROL APPARATUS FOR MISSILES KNOW THAT IN ORDER TO ANTICIPATE THEIR EXACT BEHAVIOUR EVERY TIME AND THE SELECTIVE CIRCUITS AND FILTERS USED MUST BE UP TO THE HIGH STANDARDS OF PERFORMANCE FOR WHICH BURNELL'S TOROIDS AND FILTERS ARE SO WELL KNOWN

THE NATURAL RESULT OF THIS REPUTATION IS THAT MANY THOUSANDS OF OUR PRODUCTS ARE IN SOME WAY PLAYING THEIR PART IN KEEPING THE MILITARY ELECTRONIC PROGRAM "ON TARGET."

EXCLUSIVE MANUFACTURER OF COMMUNICATIONS NETWORK COMPONENTS

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Anton Electronic Laboratories, Inc., 1226 Flushing Ave., Brooklyn 37, N.Y. 5, 6, 7

Applied Science Corp. of Princeton, P.O. Box 44, Princeton Jct., N.J. 3, 6, 7

Arco Electronics, Inc., 103 Lafayette St., New York 13, N.Y. 7

Arma Corp., 254 36th St., Brooklyn 32, N.Y. 6

Arnco Electronics, Inc., 45 Cortlandt St., New York 7, N.Y. 6

Art Wire & Stamping Co., 362 High St., Newark 2, N.J. 6

Astron Corp., 255 Grant Ave., East Newark, N.J.

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GASKETS • GROMMETS MOLDS • RINGS
ROLLS SHEET • SLAB • SPRING • SPONGE
TIRES • TUBING • VACUUM CUPS • WASHERS

Custom made parts our specialty. Thousands of molds and dies available. Send us your inquiries ATT: Dept. IRE.



ATLANTIC INDIA RUBBER WORKS, INC.
571 WEST POLK STREET • • CHICAGO 7, ILLINOIS.
INDUSTRIAL RUBBER PRODUCTS

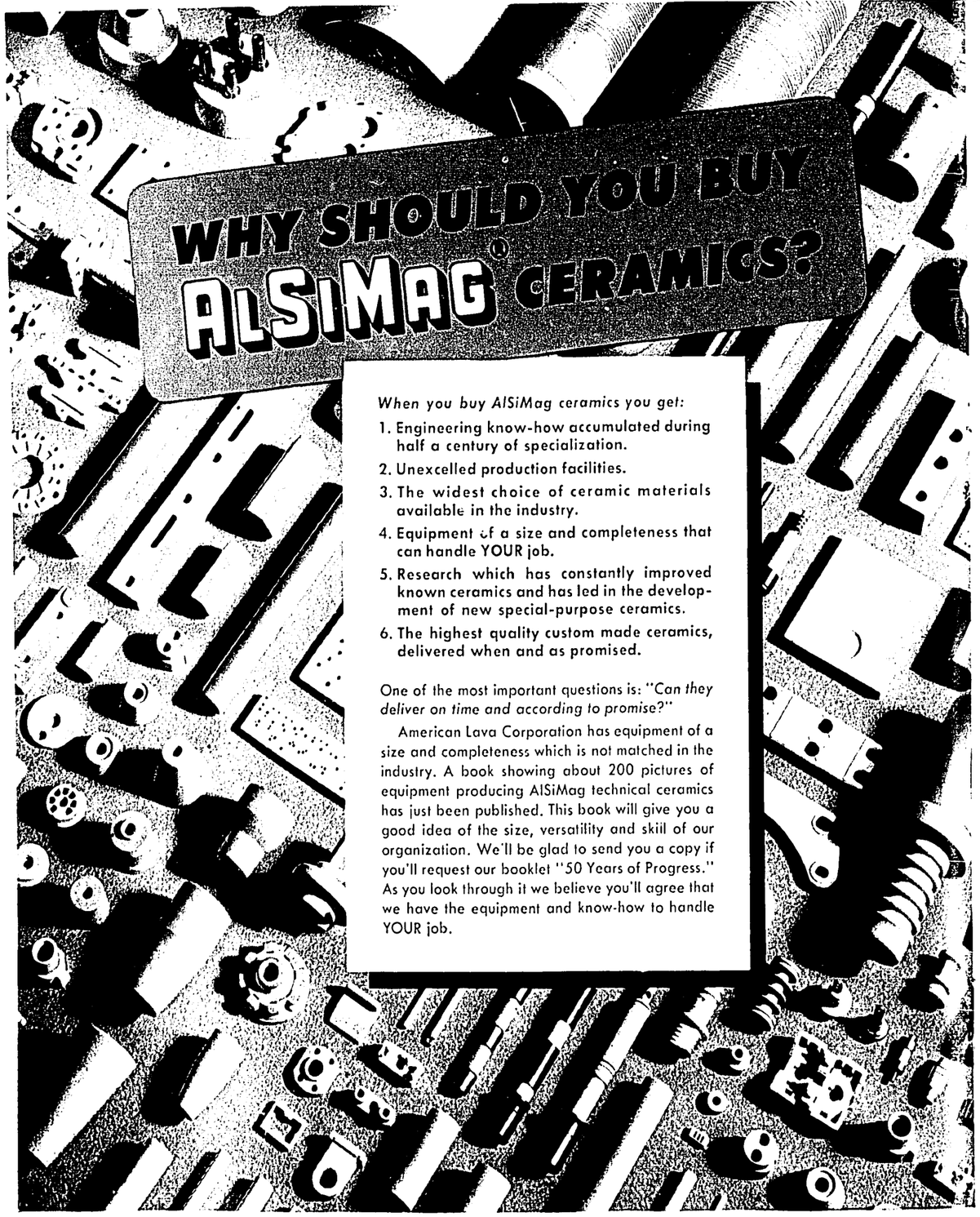
All Phones HArrison 7-8290

"DEFENSE ORDERS GIVEN PROPER ATTENTION"

Atlantic India Rubber Wks., Inc., 571 W. Polk St., Chicago 7, Ill.

Audio Development Co., 2833 13 Ave. S., Minneapolis 7, Minn., 0, 2, 4

Numbers after address refer to Product Directories in which firm is listed: 1—Components, 2—Electronic Equip., 3—Radar, 4—Servo & Mech. Devices, 5—Antennas, 6—Publications, 7—Communications Equip., 8—Educational, 9—Distributors



When you buy AlSiMag ceramics you get:

1. Engineering know-how accumulated during half a century of specialization.
2. Unexcelled production facilities.
3. The widest choice of ceramic materials available in the industry.
4. Equipment of a size and completeness that can handle YOUR job.
5. Research which has constantly improved known ceramics and has led in the development of new special-purpose ceramics.
6. The highest quality custom made ceramics, delivered when and as promised.

One of the most important questions is: "*Can they deliver on time and according to promise?*"

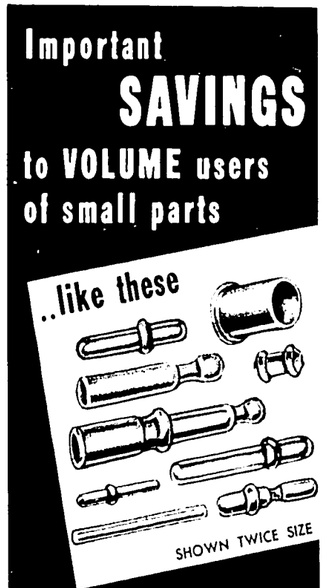
American Lava Corporation has equipment of a size and completeness which is not matched in the industry. A book showing about 200 pictures of equipment producing AlSiMag technical ceramics has just been published. This book will give you a good idea of the size, versatility and skill of our organization. We'll be glad to send you a copy if you'll request our booklet "50 Years of Progress." As you look through it we believe you'll agree that we have the equipment and know-how to handle YOUR job.

50TH YEAR *OF CERAMIC LEADERSHIP*

AMERICAN LAVA CORPORATION

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SOUTHWEST: John A. Green Co., 6815 Oriole Drive, Dallas 9, Dixon 9918 • NEW ENGLAND, 1374 Massachusetts Ave., Cambridge, Mass., Kirkland 7-4498
LOS ANGELES, 232 South Hill St., Mutual 9076 • CHICAGO, 228 North LaSalle St., Central 6-1721 • ST. LOUIS, 1123 Washington Ave., Garfield 4959



If you need small tubular metal parts like these in large VOLUME, Bead Chain's MULTI-SWAGE Process can mean important savings to you.

Much Cheaper Than Solid Pins

Many prominent users of solid pins for electronic and mechanical purposes have cut costs by switching to Multi-Swaged *tubular* pins . . . without sacrificing strength or accuracy.

Typical Applications—

As terminals, contacts, bearing pins, stop pins, male-female connections, etc., in a wide variety of products such as Business Machines, Ventilator Louvres, Toys, Radio and Television Apparatus, Terminal-boards, Electric Shavers, Phonograph Pickups, etc.

Send part (up to ¼" dia. and to 1½" length) and your specs for a quotation or write for CATALOG.

B®

THE **BEAD CHAIN®** MFG. CO.
11 Mountain Grove St., Bridgeport 5, Conn.

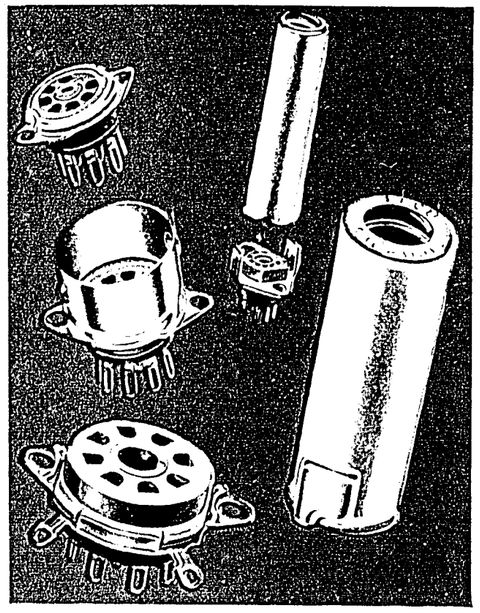
Manufacturers of BEAD CHAIN — the kinkless chain of a thousand uses, for pull and retaining chains and other industrial uses, plumbing, electrical, jewelry, fishing tackle and novelty products.

(Continued from page 7)

Audio Equipment Sales, 155 W. 33 St., New York 1, N.Y., 0, 3
Audio Industries, Inc., 532 W. Fourth St., Michigan City, Ind., 0
Audio Instrument Co., Inc., 133 W. 14 St., New York 11, N.Y., 0, 6, 7
Audio Master Corp., 341 Madison Ave., New York 17, N.Y., 0, 1
Audio-Tone Oscillator Co., 257 John St., Bridgeport 3, Conn., 0, 4, 7
Audio & Video Products Corp., 730 Fifth Ave., New York 19, N.Y., 1, 9
Austin Co., Special Devices Div., 76 Ninth Ave., New York 11, N.Y., 4, 6, 7
Automatic Coil Winder & Elec. Equip. Co., Winder House, Douglas St., Westminster S.W. 1, England, 6, 7
Automatic Electric Co., 1033 W. Van Buren St., Chicago 7, Ill., 0, 3, 6
Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N.J., 3, 5
Automatic Projection Corp., 19 W. 44 St., New York 36, N.Y., 1
Automatic Temperature Control Co., 5200 Pulaski Ave., Philadelphia 44, Pa., 3, 4
Auto-Test, Inc., 600 S. Michigan, Chicago 5, Ill., 0, 3, 6, 7
Autotron Co., The, Box 722, Danville, Ill., 4
Avery Adhesive Label Corp., 1616 S. California Ave., Monrovia, Calif., 6
Aviation Accessories, Inc., Box 4178, Fort Worth 6, Texas, 0, 2, 6
Avion Instrument Corp., 299 State Highway #17, Paramus, N.J., 0, 3, 4, 6, 7

B & B Recording & Sound Service, P.O. Box 233, Arlington, N.J., 0
Babillus, John, 1381 Elmhurst Drive, N.E., Cedar Rapids, Iowa, 6
Bace Television Corp., Green & Leeming St., S. Hackensack, N.J., 1
Bache & Co., Semon, 63 Greenwich St., New York 14, N.Y., 3, 6
Back Video Corp., F. G., 500 Fifth Ave., New York 36, N.Y., 3
Baer Co., N. S., 9-11 Hillside Ave., Hillside, N.J., 6
Bailey Meter Co., 1050 Ivanhoe Road, Cleveland 10, Ohio, 3, 4, 7
Baird Associates, 33 University Road, Cambridge 38, Mass., 7
Baker Co., Province Lake Road, Maplewood 1, Maine, 6
Baker & Co., Inc., 113 Astor St., Newark 5, N.J., 6
Balco Research Labs., 49-53 Edison Place, Newark 2, N.J., 0, 3, 6
Baldwin Engineering Service, 1388 N. Payne Ave., St. Paul 6, Minn., 6
Ballantine Labs., Inc., Boonton, N.J., 0, 3, 7
For details see ad on page 270
Ballantyne Co., The, 1707 Davenport St., Omaha 2, Nebr., 0, 3, 6
Baltic Metal Products Co., 120 Sutton St., Brooklyn 22, N.Y., 3, 6
Bang & Co., Mogens, P.O. Box 297, Montclair, N.J., 6
Barber Labs., Alfred W., 32-44 Francis Lewis Blvd., Flushing, L.I., N.Y., 6, 7
For details see ad on page 233
Barber-Colman Co., Loomis St., Rockford, Ill., 3, 4, 6
Bardwell & McAlister, 2950 N. Ontario, Burbank, Calif., 0, 1, 3, 6, 7
Barker Sound Reproductions, 3 Newman Yard, London, W. 1, England, 0
Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa., 0, 1, 2, 3, 4, 6, 7
For details see ad on page 112
Barnes & Reinecke, Inc., 230 E. Ohio St., Chicago 11, Ill., 4, 6
Barreca Products Co., Inc., 84 Bowery, New York 13, N.Y., 3, 6
Barry Corp., 700 Pleasant St., Watertown 72, Mass., 3, 6
Bart Laboratories Co., Inc., 220 Main St., Belleville 9, N.J., 3, 5, 6, 7
For details see ad on page 211
Bart Messing Corp., 229 Main St., Belleville 9, N.J., 3, 6
Bartlett, Frederick P., 6414 N. Lawndale Ave., Chicago 45, Ill., 0, 3
Baruch, Sydney N., 1476 Broadway, New York 36, N.Y., 6
Bassett, Inc., Rex, P.O. Box 1759, Fort Lauderdale, Fla., 2, 3, 7
Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio, 6
Bauman & Bluzat, 2753 W. North Ave., Chicago 47, Ill., 9
For details see ad on page 270
Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N.Y., 3
Bead Chain Mfg. Co., 11 Mountain Grove St., Bridgeport 5, Conn., 0, 6
For details see ad on page 9
Beaver Gear Works, Inc., Rockford, Ill., 4
Beckman Instruments, Inc., 820 Mission St., South Pasadena, Calif., 4, 6, 7
Bell Engr., Inc., 311 Mountain Rd., Union City, N.J., 3
Belden Manufacturing Co., 4647 W. Van Buren St., Chicago 44, Ill., 3, 6
For details see ad on Cover II
Bell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio, 0
Bell Telephone Labs., 463 West St., New York 14, N.Y., 6
Bell Television, Inc., 522 W. 53 St., New York 19, N.Y., 1
Belock Instrument Corp., 111-01 14 Ave., College Point 56, N.Y., 0, 3, 4, 6
Bendix Aviation Corp., Friez Instr. Div., 1400 Taylor Ave., Baltimore 4, Md., 3
For details see ad on page 16, 128, 133, 171, 189
Bendix Aviation Corp., Fisher Bldg., Detroit 2, Mich., 1, 2, 3, 4, 5, 7
For details see ad on page 16, 128, 133, 171, 189
Bendix Aviation Corp., Red Bank Div., Eatontown, N.J., 3
For details see ad on page 16, 171
Bendix Aviation Corp., Eclipse-Pioneer Div., Teterboro, N.J., 3
For details see ad on page 128, 133
Bendix Aviation Corp., Bendix Radio Div., Baltimore 6, Md., 2, 5
For details see ad on page 16, 128, 133, 171, 189
Bendix Aviation Corp., Pacific Div., 11600 Sherman Way, N. Hollywood, Calif., 0, 1, 2, 3, 4, 5, 6
For details see ad on page 189

(Continued on page 11)



TUBE-SOCKETS ... and SHIELDS

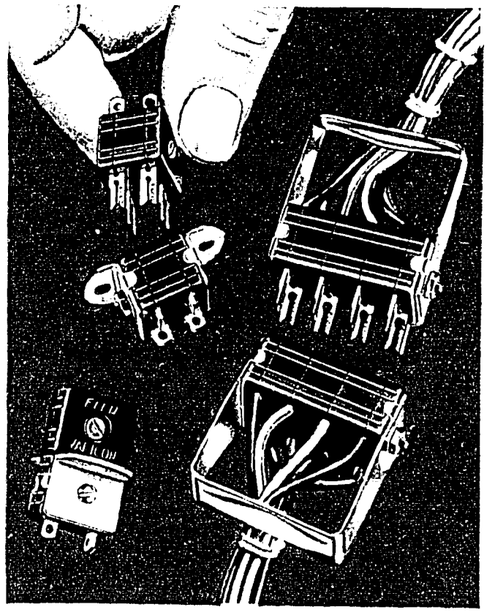
ELCO TUBE-SOCKETS AND SHIELDS is the complete "high standard" line! Complete in number of types, sizes, variety of body and contact materials! Complete in adherence to every engineering standard essential in the production of a superior socket and shield! Manufacturing is to the highest possible standards of tolerance offered by advance production methods and rigid inspection. If you make a quality product, investigate these high standard components by writing for Catalog C-3, and . . .

Request samples now : : Examine them for appearance and finish : : Test them for voltage and current capacity . . . insertion and withdrawal pressure : : See how contact pressure is maintained, even after hundreds of insertions : : Notice the saddles and mountings . . . how they fit and how well they are designed for greater rigidity and strength!

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ELCO CORPORATION
RADIO • TELEVISION • ELECTRONIC COMPONENTS
190 W. GLENWOOD AVE., PHILA. 40, PA.

A Complete Line of JAN and RMA Types!



VARICONS

PATENTS APPLIED FOR

ELCO VARICONS are the newest, simplest, most positive means for connecting electronic or electrical circuits ever conceived! Varicons have only four basic parts, yet give you the maximum number of variations, plus contact combinations in any number! Varicons "Keying Control" makes it impossible to connect unmatched parts! And with Varicons, it is possible for you or us to assemble any connector from stock parts! For the design of a new product or redesign of a present product, request Catalog V-1 today!

General Specifications—Male and female elements identical : : Contacts always under pressure : : Current rating 30 amps, 115 volts : : Withstanding voltage maximum 4000 volts between closest terminals : : Low contact resistance : : Low capacitance, 300 ohm line spacing : : Easy insertion pressure : : Excellent retention pressure between contacts.

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ELCO CORPORATION
RADIO • TELEVISION • ELECTRONIC COMPONENTS
190 W. GLENWOOD AVE., PHILA. 40, PA.

The Miniature Connectors That Work Like Giants!

Bendix Aviation Corp., Scintilla Magneto Div., Sherman Ave., Sidney, N.Y., 3, 7
For details see advertisement page 125

Bentley Harris Mfg. Co., 501 Barclay St., Conshohocken, Pa., 6
For details see advertisement page 233

Berkeley and Assoc., Edmund C., 36 West 11 St., New York 11, N.Y., 4

Berkeley Scientific Corp., 2200 Wright Ave., Richmond, Calif., 1, 3, 4, 7
For details see advertisement page 184

Berkline Labs., 584 Bergen Blvd., Ridgefield, N.J., 3, 7

Berland Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif., 6
For details see advertisement page 229

Bernell Corp., Bernell Division, 2427 Beverly Blvd., Los Angeles 57, Calif., 1

Berry Electronics, 5 S. Savannah Ave., [illegible]

Best Mfg. Co., Inc., 200 Grove St., Irvington 11, N.J., 7

Boston Products, Inc., 20 Broad St., New York 5, N.Y., 6

Bott Electric Co., Inc., 1 Hudson St., New York 39, N.Y., 6, 7

Bridgeport Research Corp., 375 Pequot Ave., Bridgeport 9, Conn.

Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.

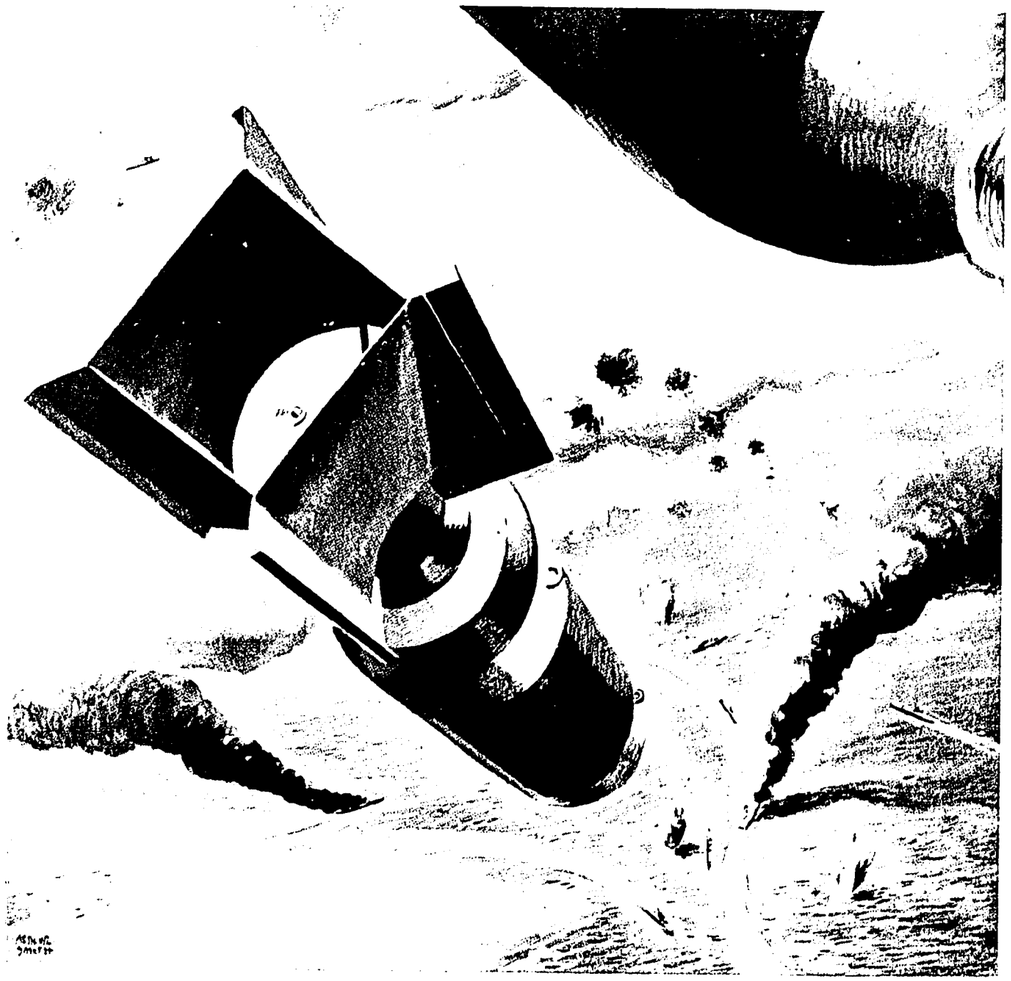
Bird & Son, Inc., Richard H., 1 Spruce St., Walpole, Mass., 6

Bird Electronic Corp., 1800 Cedar St., Cleveland 14, Ohio, 3, 7

Birmingham Sound Reproducers, Ltd., Speaker Works, Kings Norton, Birmingham 30, England, 7

Birnbach Radio Co., Inc., 145 Hudson St., New York 13, N.Y., 6, 8, 6
For details see advertisement page 230

Bliss, David W., Inc., 536 Homestead Ave., Akron 3, Ohio, 3
Bliss & Laughlin, Inc., 1400 Harvard Ave., Cleveland 5, Ohio
Bliss Mfg. Co., Inc., 1 Bliss Rd., Plymouth, Ohio, 3

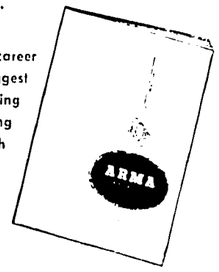


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Increasing air-speeds and higher level flight pose ever tougher problems for bombing accuracy. But modern engineering takes such problems in stride. Today's bombardiers pin-point targets with bombing systems of extraordinary precision and nearly instantaneous action.

Engineering and developing these and similar complex electronic or electro-mechanical devices are the work of Arma Corporation. For 34 years Arma has collaborated with the Armed Forces—and more recently the Atomic Energy Commission—on such complex instruments. Adaptations of these systems will be readily applied to our industrial might in the future. Arma Corporation, Brooklyn, N. Y.: Mineola, N. Y.; Subsidiary of American Bosch Corporation.

If you are interested in an engineering career with challenging opportunities, we suggest you write for this booklet "Engineering at Arma." Write today to Engineering Division, Arma Corporation, 254 36th St., Brooklyn 32, N. Y.



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CARGO PACKERS CLIMATE-PROOF PACKAGING

Meets all Specifications for Signal Corps, Navy and Air Force Shipments of Electronic Equipment with Facilities that include—

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NEW ILLUSTRATED BROCHURE explains in detail how Cargo Packers can economically handle all details of your military packaging problems. You save valuable plant space, costly equipment and the need for experienced specification packaging experts. Find out now, how Cargo Packers production line methods save you time, money, endless detail work, and costly errors. Request your copy, now!

CARGO PACKERS
INCORPORATED
73 RUTLEDGE STREET
BROOKLYN 11, NEW YORK



Browning Laboratories, Inc., 750 Main St., Winchester, Mass., 1, 5

Brush Development Co., 3405 Perkins Ave., Cleveland 14, Ohio, 0, 3, 4, 7

Buchanan Electrical Products Corp., 234 Route 29, Hillside, N.J., 3, 6
For details see advertisement page 221

Buck Instrument Co., Box 87, 42 Main St., Freehold, N.J., 5, 6

Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio, 0, 3

Burgess & Co., H. H., 726 Stanton St., Toledo 1, Ohio, 0, 2, 3

Burgess Battery Co., Battery Div., Freeport, Ill., 3
For details see advertisement page 207

Burke Electric & X-ray Co., Ltd., 98 Yorkville Ave., Toronto 5, Canada, 0, 2, 3, 6

Burlew Instrument Co., 5 Vose Ave., South Orange, N.J., 5

Burlington Instrument Co., 203 North 3 St., Burlington, Iowa, 3, 6
For details see advertisement page 229

Burndy Engineering Co., Inc., Richards Ave. & Post Rd., Norwalk, Conn., 2, 6

Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y., 0, 3
For details see advertisement page 226

Burnett Radio Lab. (Walter W. Burnett), 4814 Idaho St., San Diego 16, Calif., 1, 5, 6, 7

Burroughs Adding Machine Co., 22 N. Broad St., Philadelphia 7, Pa., 3

Burton Products, 702 Main St., Hackensack, N.J., 3, 5

Bussmann Manufacturing Co., 2536 West University, St. Louis 7, Mo., 3

Cambridge Thermionic Corp., 445 Concord Ave., Cambridge 38, Mass., 1

Cameta Equipment Co., 1600 Broadway, New York 19, N.Y., 3, 5

Canadian Marconi Co., 2442 Trenton Ave., Montreal 2, Canada, 0, 1, 2, 3, 4, 5, 6

Canadian Precision Co., Ltd., Box 430, Hamilton, Ontario, Canada, 6

Canadian Research Institute, 30 Gerrard St., E., Toronto 5, Canada, 0, 2, 3, 4, 6, 7

Canadian Westinghouse Co., Ltd., Hamilton, Ontario, Canada, 0, 1, 2, 3, 4, 5, 6

Cannon Co., C. F., Spencerville, N.Y., 0

Canoga Electric Co., 5239 Bewley Dr., Los Angeles 31, Calif., 0, 3, 4

Canoga Corp., 7955 Sepulveda Blvd., Van Nuys, Calif., 1, 2, 7

Capehart-Farnsworth Corp., Ft. Wayne 1, Ind., 1, 2, 5, 6

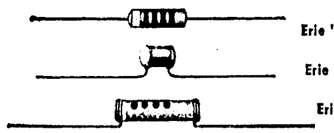
Capitol Radio Eng. Institute, 3224 16 St., N.W., Washington 10, D.C., 8

Carboloy Dept. General Electric Co., 11177 East 8 Mile Rd., Detroit 32, Mich., 3

Carborundum Refractories, Box 21, Sonia Sta., N.W., Grand Rapids 2, Mich.,

(Continued on page 15)

ERIE TUBULAR CERAMICONS*



Erie "GP"* Molded Insulated Ceramicons
5 MMF—5,000 MMF

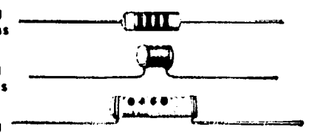
Erie "GP" Dipped Insulated Ceramicons
5 MMF—5,000 MMF

Erie "GP" Non-Insulated Ceramicons
5 MMF—5,000 MMF

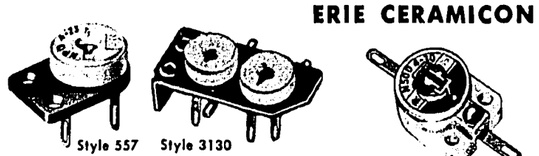
Temperature Compensating Molded Insulated Ceramicons
0.5 MMF—550 MMF

Temperature Compensating Dipped Insulated Ceramicons
0.5 MMF—1,800 MMF

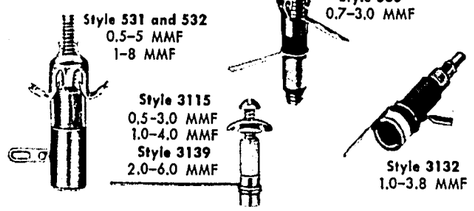
Temperature Compensating Non-Insulated Ceramicons
0.5 MMF—1,800 MMF



ERIE CERAMICON TRIMMERS

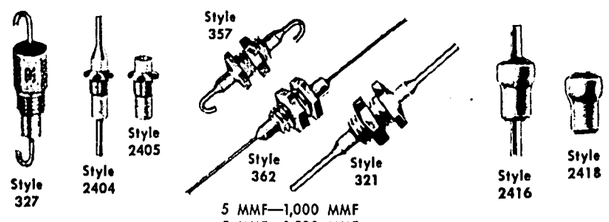


Style 557 — 1.5-7 MMF, 3-12 MMF, 5-25 MMF
Style 3130 — 5-30 MMF, 8-50 MMF, 65-95 MMF, 150-190 MMF
Style TS2A — 1.5-7 MMF, 3-12 MMF, 3-13 MMF; 5-20 MMF, 4-30 MMF, 7-45 MMF



Style 531 and 532 — 0.5-5 MMF, 1-8 MMF
Style 535 — 0.7-3.0 MMF
Style 3115 — 0.5-3.0 MMF, 1.0-4.0 MMF
Style 3139 — 2.0-6.0 MMF
Style 3132 — 1.0-3.8 MMF

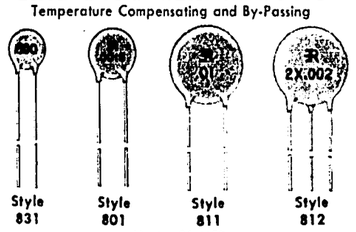
ERIE FEED-THRU CERAMICONS



Style 327, Style 2404, Style 2405, Style 357, Style 362, Style 321, Style 2416, Style 2418
5 MMF—1,000 MMF
5 MMF—1,500 MMF

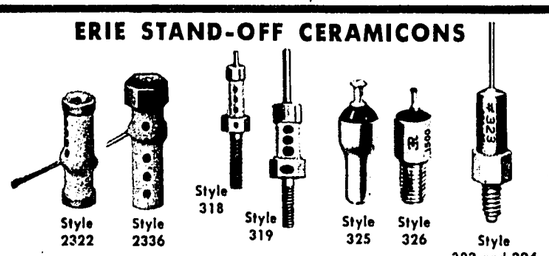
ERIE DISC CERAMICONS

Temperature Compensating and By-Passing



Style 831, Style 801, Style 811, Style 812
Up to .01 MFD

ERIE STAND-OFF CERAMICONS



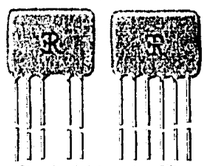
Style 2322, Style 2336, Style 318, Style 319, Style 325, Style 326, Style 323 and 324
5 MMF—5,000 MMF

ERIE BUTTON MICA CONDENSERS



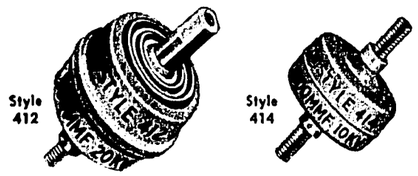
15 MMF—6,000 MMF

ERIE PRINTED CIRCUITS



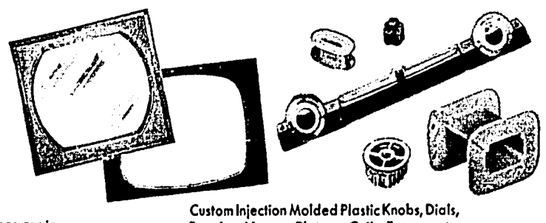
Standard, Integrator, Filter, and Coupling Circuits

ERIE HIGH VOLTAGE CERAMICONS



Style 412
Style 414
10 and 20 KV.—500 MMF

ERIE CUSTOM MOLDED PLASTICS



Custom Injection Molded Plastic Knobs, Dials, Bezels, Name Plates, Coil Forms, etc.

*Ceramicon, Hi-K, GP, and Plexicon are registered trade names of Erie Resistor Corporation.

Electronics Division
ERIE RESISTOR CORP., ERIE, PA.
LONDON, ENGLAND TORONTO CANADA

(Continued from page 13)

Carborundum Co., Globar Div., Niagara Falls, N.Y., 3

Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn., 3

Cargo Packers, Inc., 73 Rutledge St., Brooklyn 11, N.Y., 6
For details see ad on page 13

Carol Cable Co., 190 Middle St., Pawtucket, R.I., 6

Carpenter Steel Co., 101 West Bern St., Reading, Pa., 6

Carter Motor Co., 2644 N. Maplewood Ave., Chicago 47, Ill., 3
For details see ad on page 137

Carter Parts Co., 213 Institute Pl., Chicago 10, Ill., 0, 3

Cast Optics Corp., 1010 Post Rd., Riverside, Conn., 3, 6

Castlewood Mfg. Co., 12 & Burnett Sts., Louisville 10, Ky., 3

Cathodeon, Ltd., Meadowcroft Labs., Church St., Cambridge, England, 3, 6

Celanese Corp. of America, 180 Madison Ave., New York 16, N.Y., 6

Celomat Corp., 521 W. 23 St., New York 11, N.Y., 6

Central Rediffusion Services, Ltd., Carlton House, Lower Regent St., London S.W.1, England, 0, 1, 2, 4, 5, 6

Central Research Labs., Inc., Red Wing, Minn., 6, 7

Central Sales & Mfg. Corp., 1 Richwood Pl., Denville, N.J., 3, 6

Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill., 6, 7

Central Screw Co., 3501 Shields Ave., Chicago 9, Ill., 6

Central Stamping & Mfg. Co., 900 S. Division, Polo, Ill., 3, 6

Central Transformer Co., 910 Jackson Blvd., Chicago 7, Ill., 0, 3, 6

Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis., 0, 3, 6
See complete catalog filed alphabetically in last section.

Centronics Co., 41-05 Lawrence St., Flushing 55, N.Y., 3

Century Electric Co., 1806 Pine St., St. Louis 3, Mo., 3

Century Geophysical Corp., 1333 North Utica, Tulsa, Okla., 3, 4, 7

Century Metalcraft Corp., Electronics Div., 14806 Oxnard St., Van Nuys, Calif., 5, 7
For details see ad on page 263

Century Projector Corp., 729 Seventh Ave., New York 19, N.Y., 0, 1

Ceramic Heater Cathode Resistor Co., 20 First St., Keyport, N.J., 6

Ceramic Specialties Co., 444 W. 6 St., East Liverpool, Ohio, 3

Certified Radio Labs., 5507 13 Ave., Brooklyn 19, N.Y., 1

Channel Master Corp., Napanoch Rd., Ellenville, N.Y., 3

Charp, S., 39 Maple Ave., Upper Darby, Pa., 6

Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn., 6

Chase Resistor Co., 9 River St., Morristown, N.J., 3
For details see ad on page 148

Chatham Electronics Corp., 475 Washington St., Newark 2, N.J., 3, 7
For details see ad on page 302-3



Chemical Dev. Corp., Endicott St., Danvers, Mass., 6

Chemical & Power Products, Inc., 11 Broadway, New York 4, N.Y., 6

Chemical Publishing Co., Inc., 212 Fifth Ave., New York 10, N.Y., 8

Chemo-Vac Electronic Corp., 760 Reed St., Santa Clara, Calif., 3

Cherry-Channer Corp., 1488 Skokie Blvd., Highland Park, Ill., 3, 6
For details see ad on page 157, 201

Chester Cable Corp., Hill Rd., Chester, N.Y., 6
For details see ad on page 28

Chicago Condenser Corp., 3255 Armitage Ave., Chicago 47, Ill., 3
For details see ad on page 107

Chicago Die Mold Div., U.S. Rubber Co., 4001 W. Wrightwood Ave., Chicago 39, Ill., 6

Chicago Electronic Eng. Co., 3223 Armitage Ave., Chicago 47, Ill., 0, 3, 4, 6

Chicago Rivet & Machine Co., 9600 W. Jackson, Bellwood, Ill., 6
For details see ad on page 15

Chicago Telephone Supply Corp., 1142 1232 W. Beardsley, Elkhart, Ind., 3
For details see ad on page 342-3

Chicago Transformer Div., Essex Wire Corp., 3501 Addison St., Chicago 18, Ill., 3
For details see ad on page 162

Chisholm Industries, Ltd., 4515 Main St., Vancouver, B.C., Canada, 0, 1, 2, 3

Church Co., George H., 5109 Halifax Ave., Minneapolis 10, Minn., 3

Churchill Cabinet Co., 2119 W. Churchill, Chicago 47, Ill., 3

Churchill Corp., 7 North Ave., Wakefield, Mass., 3, 6

Ciba Co., Inc., 627 Greenwich St., New York 14, N.Y., 6

Cima Corp., 119 Braintree St., Allston 34, Mass., 3

Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill., 3, 6
For details see ad on page 222

Cincinnati Electronics Co., 3815 Pacific Ave., Cincinnati 12, Ohio, 5, 6

Cincinnati Molding Co., 2037 Florence Ave., Cincinnati 6, Ohio, 6

Circuit Controls Co., 3201 Peoria St., Steger, Ill., 0, 2, 3

Citation Products Co., 233 E. 146 St., New York 51, N.Y., 3, 6
For details see ad on page 221

Clare & Co., C.P., 4719 Sunnyside Ave., Chicago 30, Ill., 3

Clark Crystal Co., Inc., 2 Farm Rd., Marlboro, Mass., 3, 7

Clark Electronic Labs., Box 165, Palm Springs, Calif., 3

Clark-Reiss, Distributors, 55 Walker St., New York 13, N.Y., 9
For details see ad on page 281

Clarke Instruments, 919 Jesup Blair Dr., Silver Spring, Md., 0, 3, 4

Clarkstan Corp., 11921 W. Pico Blvd., Los Angeles 64, Calif., 0, 3, 4, 6, 7

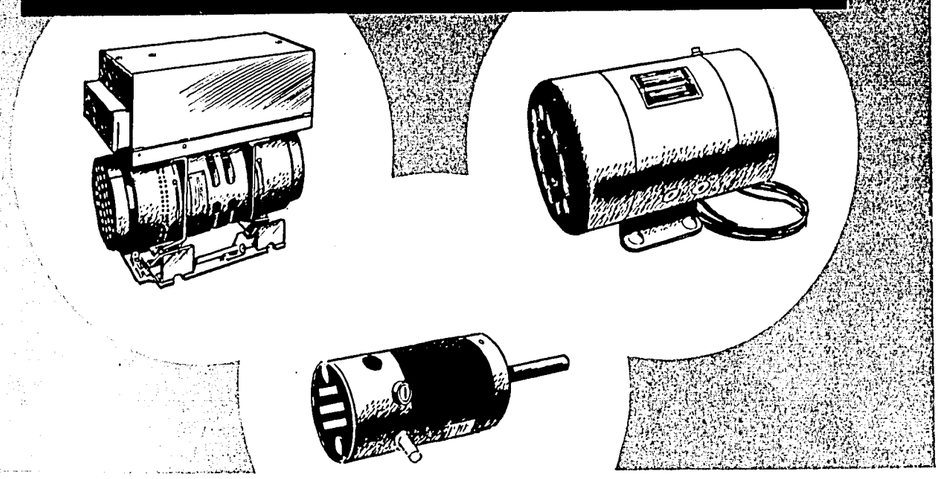
Clarostat Mfg. Co., Washington St., Dover, N.H., 3

Clear Beam TV Antennas, 100 Prospect Ave., Burbank, Calif., 3, 5

(Continued on page 17)

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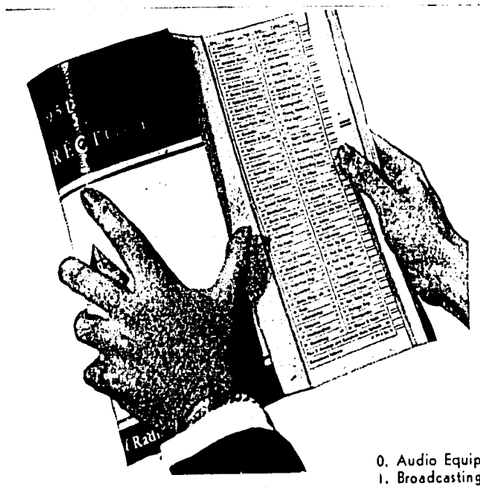
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(Continued from page 15)

Cleveland Container Co., 6201 Barberton Ave., Cleveland 11, Ohio, 6
Cleveland Electronics, Inc., 6611 Euclid Ave., Cleveland 3, Ohio, 0, 3
Clippard Instrument Lab., Inc., 1125 Bank St., Cincinnati 14, Ohio, 3, 7
Clough-Brengle Co., 6014 Broadway, Chicago 40, Ill., 3, 7
Codetyper Labs., 550 Fifth Ave., New York 19, N.Y., 3
Cohan Epner Co., Inc., 142 W. 14 St., New York 11, N.Y., 6
Cohn Corp., Sigmund, 121 S. Columbus Ave., Mt. Vernon, N.Y., 6
For details see ad on page 203
Coil Engr. & Mfg. Co., Roanoke, Ind., 3
Coil Winders, Inc., New York Ave., Westbury, N.Y., 0, 3, 5
Coil Winding Equipment Co., 19 Maxwell Ave., Oyster Bay 1, N.Y., 6
For details see ad on page 243, 244
Coilcraft, Inc., 3716 N. Cicero Ave., Chicago 41, Ill., 3, 6
Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif., 3, 4, 6, 7
Coleman & Sons, D., 4515 W. Addison St., Chicago 41, Ill., 6
Collectron Corp., 216 E. 45 St., New York 17, N.Y., 3
For details see ad on page 117
Collins Audio Products Co., Route 29, Mountainside, N.J., 0, 1, 6
Collins Radio Co., 855 35 St. N.E., Cedar Rapids, Iowa, 0, 1, 2, 3
For details see ad on page 304-5
Colortone Television Co., Inc., 238 Williams St., New York 38, N.Y., 0, 1
Columbia Broadcasting System, 485 Madison Ave., New York 22, N.Y., 1
Columbia Elec. Mfg. Co., 4519 Hamilton Ave., Cleveland 14, Ohio, 3
Columbia Technical Corp., 5 E. 57 St., New York 22, N.Y., 3, 5, 6, 7
For details see ad on page 205
Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill., 6
For details see ad on page 203
Comar Electric Co., 3349 W. Addison, Chicago 18, Ill., 3
Combustion Control Corp., 77 Broadway, Cambridge 42, Mass., 4
Communicating Systems, Inc., 203 E. 18 St., New York 3, N.Y., 0, 2, 3, 4, 6
Communication Accessories Co., Hickman Mills, Mo., 0, 3
Communication Devices Co., Inc., 2331 Twelfth Ave., New York 27, N.Y., 1, 2
Communication Equipment & Eng. Co., 5646 W. Race Ave., Chicago 44, Ill., 0, 2, 3, 6
Communication Measurements Lab., Inc., 350 Leland Ave., Plainfield, N.J., 3, 5, 7
For details see ad on page 138
Communication Products Co., Inc., Marlboro, N.J., 3, 5, 6, 7
For details see ad on page 96, 158, 192, 196, 238
Communication Parts, 7215 W. Irving Park Rd., Chicago 34, Ill., 0, 3
Communications Co., Inc., 300 Greco Ave., Coral Gables, Fla., 2
Communications Equipment Co., 131 Liberty St., New York 7, N.Y., 9
For details see ad on page 282
Computer Corp. of America, 149 Church St., New York 7, N.Y., 3, 4, 6
Computer Research Corp. of Calif., 3348 W. El Segundo Blvd., Hawthorne, Calif., 4
Computing Devices of Canada, 338 Queen St., Ottawa, Ontario, Canada, 3, 4, 6, 7
Conant Labs., 6500 "O" St., Lincoln 5, Neb., 7
Condenser Products Co., 7517 N. Clark St., Chicago 26, Ill., 3
Condor Radio Mfg. Co., 116 N. Montezuma St., Prescott, Ariz., 2, 3, 5, 6
For details see ad on page 223
Conn Ltd., C. G., 555 E. Jackson Blvd., Elkhart, Ind., 7
Connecticut Marine Instrument Co., Essex, Conn., 2
Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn., 6
Connecticut Telephone & Elec. Co.p., 70 Britannia St., Meriden, Conn., 0, 3, 6
Consolidated Engineering Corp., 300 N. Sierra Madre Villa, Pasadena 8, Calif., 4, 7
Consolidated Molded Prods. Corp., 309 Cherry St., Scranton, Pa., 6
Consolidated Vultee Aircraft Corp., 3302 Pacific Highway, San Diego 12, Calif., 4, 6
Constable Engineering Co., J. M., 101 05 77 St., Ozone Park 17, N.Y., 3, 4
Content, Edward J., Roxbury Rd., Stamford, Conn., 6
For details see ad on page 208
Continental Carbon, Inc., 13900 Lorain Ave., Cleveland 11, Ohio, 3
Continental Diamond Fibre Co., 16 Chapel St., Newark 48, Del., 3, 6
See complete catalog filed alphabetically in last section.
Continental Elec. Co., 715 Hamilton St., Geneva, Ill., 3
Continental Electric Co., Inc., 325 Ferry St., Newark 5, N.J., 3
Continental Electronics, Ltd., 302 Oakland St., Brooklyn 22, N.Y., 6
Continental Electr. Mfg. Co., 4212 S. Buckner Blvd., Dallas 10, Texas, 1, 3
Continental Screw Co., New Bedford, Mass., 6
Control Corp., 718 Central Ave., N.E., Minneapolis 14, Minn., 0, 2, 3, 4
Control Engineering Corp., 863 Washington St., Canton, Mass., 4, 6, 7
Control Instrument Co., Inc., The, 67 35 St., Brooklyn 32, N.Y., 3, 4, 5, 7
Control Systems Co., 445 W. 23 St., New York 11, N.Y., 3, 4
Controlectric, P.O. Box 68, Gracie Station, New York 28, N.Y., 3, 4, 6
Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill., 3
Cook Labs., Route 2, Stamford, Conn., 0
Cook Research Lab., Div. Cook Elec. Co., 8100 N. Monticello Ave., Skokie, Ill., 6
Cooper Electronic Products Co., 4500 Melrose St., Philadelphia 24, Pa., 0
Copper Wire Products, Ltd., 137 Oxford St., Guelph, Ontario, Canada, 0, 3
Copperweld Steel Co., Glassport, Pa., 6
Coral Designs Div., H. G. Dietz Co., 12 16 Astoria Blvd., Long Island City 2, N.Y., 0, 3, 6
Cordover & Co., Carl, 100 Warren St., New York 7, N.Y., 3
Cornell-Dubilier Elec. Corp., 333 Hamilton Blvd., S. Plainfield, N.J., 2, 3, 7
Corning Glass Works, Corning, N.Y., 0, 3, 5, 6, 7
Cornish Wire Co., Inc., 50 Church St., New York 7, N.Y., 6
Corona Engineering Service, 94 52 Corona Ave., Elmhurst, L.I., N.Y., 0, 3, 5, 6, 7

(Continued on page 19)



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what each company does or makes. The number after each address refers you to the 10 Product Directories, in which detailed product or service information on the firm will be found. Key to codes is:

	Page
0. Audio Equipment	73
1. Broadcasting	87
2. Communications	93
3. Components	101
4. Electronic Applications	177
5. Radar-Microwave	191
6. Services, Materials and Consultants	201
7. Test Equipment	251
8. Educational	275
9. Distribution	277



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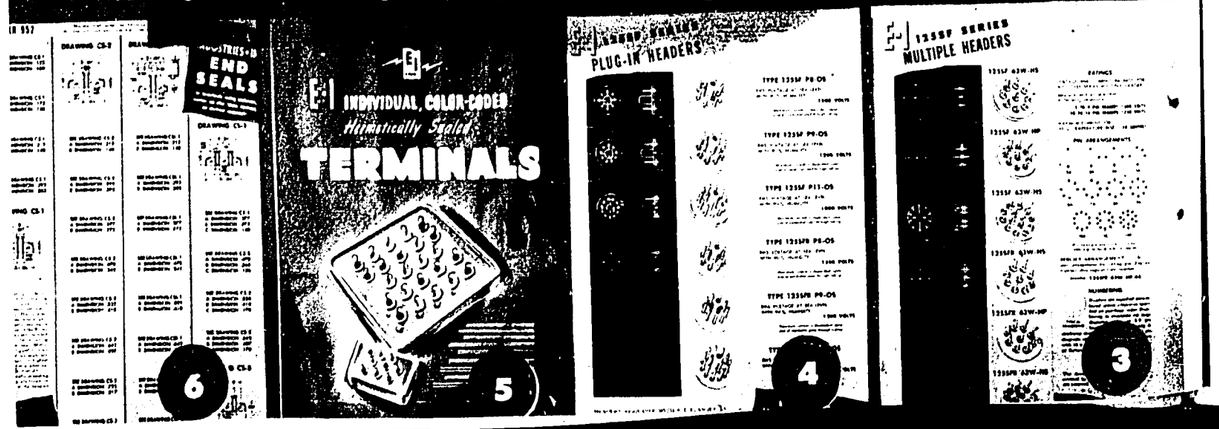
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Alphabetical Directory

(Continued from page 17)

Corry-Jamestown Mfg. Corp., Center St., Corry, Pa., 3
Cortland Industries, Inc., 4545 W. Cortland St., Chicago 39, Ill., 6
Cosa Corp., 405 Lexington Ave., New York 17, N.Y., 6
Cosmic Radio Corp., 853 Whittier St., New York 59, N.Y., 3
Cosmo Engineering Labs., Inc., Mountain Ave., Hackettstown, N.J., 6
Cossor (Canada) Ltd., 301 Windsor St., Halifax, N.S., Canada, 0, 1, 2, 3, 4, 5, 6, 7
Cottrell Paper Co., Inc., Rock City Falls, N.Y., 6
Coyne Elect. & TV Radio School, 500 S. Paulina St., Chicago 12, Ill., 8
Cramer Co., Inc., The R. W., P. O. Box 22, Centerbrook, Conn., 3, 7
For details see ad on page 136
Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill., 6
Craven, Lohnes, & Culver, 1242 Munsey Bldg., Washington 4, D.C., 6
Creative Plastics Corp., North Country Rd., Stony Brook, N.Y., 3, 6
Crescent Industries, Inc., 5900 W. Touhy Ave., Chicago 31, Ill., 0, 1, 3, 6
Crest Labs., Inc., 2117 Mott Ave., Far Rockaway 91, N.Y., 2, 3, 6, 7
For details see ad on page 164
Crestwood Recorder Corp., 221 N. La Salle, Chicago 1, Ill., 0
Crosby Labs., Inc., Robbins Lane, Hicksville, L.I., N.Y., 2, 6
For details see ad on page 99, 208
Cross Co., H., 15 Beekman St., New York 38, N.Y., 6
For details see ad on page 245
Crown Engineering, 3821 N. Broadway, Albuquerque, N.M., 0, 2, 3, 4, 5, 6, 7
Crucible Steel Co. of America, 405 Lexington Ave., New York 17, N.Y., 3
For details see ad on page 32
Crystal Research Products, 221 W. Madison Ave., Dumont, N.J., 6
Cullum, Jr., A. Earl, Highland Park Village, Dallas 5, Texas, 6
Curtis Development & Mfg. Co., 3266 N. 33 St., Milwaukee 16, Wis., 6
Curtiss-Wright Corp., Electronics Div., 631 Central Ave., Carlstadt, N.J., 0, 3, 4, 7
For details see ad on page 186
Custom Craft Mfg. Co., 256 E. 98 St., Brooklyn 12, N.Y., 0, 7
Custom Electr. Corp., 738 Speedwell Ave., Morris Plains, N.J., 1, 3
Custom Electronics, Inc., 813 Chartres, New Orleans, La., 6
Customatic Div., Stamford Tool Die, 90 Lincoln Ave., Stamford, Conn., 6
Cutler-Hammer, Inc., 315 N. 12 St., Milwaukee 1, Wis., 3, 4
Cycle Electronic Labs., 356 Glenwood Ave., East Orange, N.J., 0, 3
Cyclotron Specialties, Moraga, Calif., 3, 4, 7

D & R Ltd., 402 E. Gutierrez St., Santa Barbara, Calif., 0, 2, 3, 6, 7
D X Radio Products Co., Inc., 2300-10 W. Armitage, Chicago 47, Ill., 0, 3, 6
Dage Electric Co., Inc., 67 N. Second St., Beech Grove, Ind., 3, 6
Dahlstrom Metallic Door Co., 419 Buffalo St., Jamestown, N.Y., 3, 6
Dale Products, Inc., P.O. Box 326, Columbus, Neb., 0, 3, 7
For details see ad on page 358-9
Dalis, Inc., H.L., 175 Varick St., New York 14, N.Y., 9
For details see ad on page 283
Dallons Labs., 5069 Santa Monica Blvd., Los Angeles 29, Calif., 3, 4, 5, 6, 7
Dalmo Victor Co., 1414 El Camino Real, San Carlos, Calif., 0, 4, 5, 7
For details see ad on page 191
Danbury Transformer Corp., 27 River St., Danbury, Conn., 0, 3, 4
Danby Radio Corp., 100 N. S. 21 St., Philadelphia 3, Pa., 0
Dante Elec. Mfg. Co., P.O. Box 6, Bantam, Conn., 6
Daven Co., 191 Central Ave., Newark 4, N.J., 0, 1, 3, 6, 7
Davidoff, Charles, 198 Broadway, New York 7, N.Y., 6, 9
For details see ad on page 208
Davies Labs., Inc., 4705 Queensbury Rd., Riverdale, Md., 0, 4, 6
Davis Electronics, 4313 W. Magnolia Blvd., Burbank, Calif., 2, 3, 5
Davis, George C., 501-514 Munsey Bldg., Washington 4, D.C., 6
Dawe Instruments, Ltd., 130 Uxbridge Rd., Hanwell, London W. 7, England, 7
Daystrom Electric Corp., 837 Main St., Poughkeepsie, N.Y., 0, 6
Dazor Mfg. Corp., 4481-87 Duncan Ave., St. Louis 10, Mo., 0
Dearborn Glass Co., 2400-44 W. 21 St., Chicago 8, Ill., 6
Decade Instrument Co., P.O. Box 153, Caldwell, N.J., 4, 7
For details see ad on page 271
Decimeter, Inc., 1430 Market St., Denver 2, Colo., 1, 2, 3, 4, 6, 7
DeCoursey Engineering Lab., P.O., Box 235, W. Los Angeles 25, Calif., 0, 3
For details see ad on page 19
Dee Electric Co., 1101 N. Paulina St., Chicago 22, Ill., 6
DeForests Training, Inc., 2533 N. Ashland Ave., Chicago 14, Ill., 8
Deitz Miracle Lens Co., 141 President St., Passaic, N.J., 6
DeJur-Amsco Corp., 45-01 Northern Blvd., Long Island City 1, N.Y., 3
For details see ad on page 117, 131, 151
Delco Radio Division, General Motors, 1440 S. Home Ave., Kokomo, Ind., 0, 1, 3, 5, 6
Delta Electrical Instrument Co., 2700 S. Hill St., Los Angeles 7, Calif., 3, 7
Delta Electronics, Inc., 4820 Red Bank Rd., Cincinnati 27, Ohio, 0, 3, 4, 6, 7
Delta Radio Co., 115 Worth St., New York 13, N.Y., 3
Deltron Associates, Inc., 2738 W. Belmont Ave., Chicago 18, Ill., 4, 6
DeMent Labs., New Siedner Bldg., Portland 5, Ore., 3, 4, 6, 7
Denrad Mfg. Co., 910 W. Woodard, Denison, Texas, 0, 2, 6
DeRyder, Herbert, 610 Bloomfield Ave., Bloomfield, N.J., 7
Designers for Industry, Inc., 2915 Detroit Ave., Cleveland 13, Ohio, 6

(Continued on page 21)

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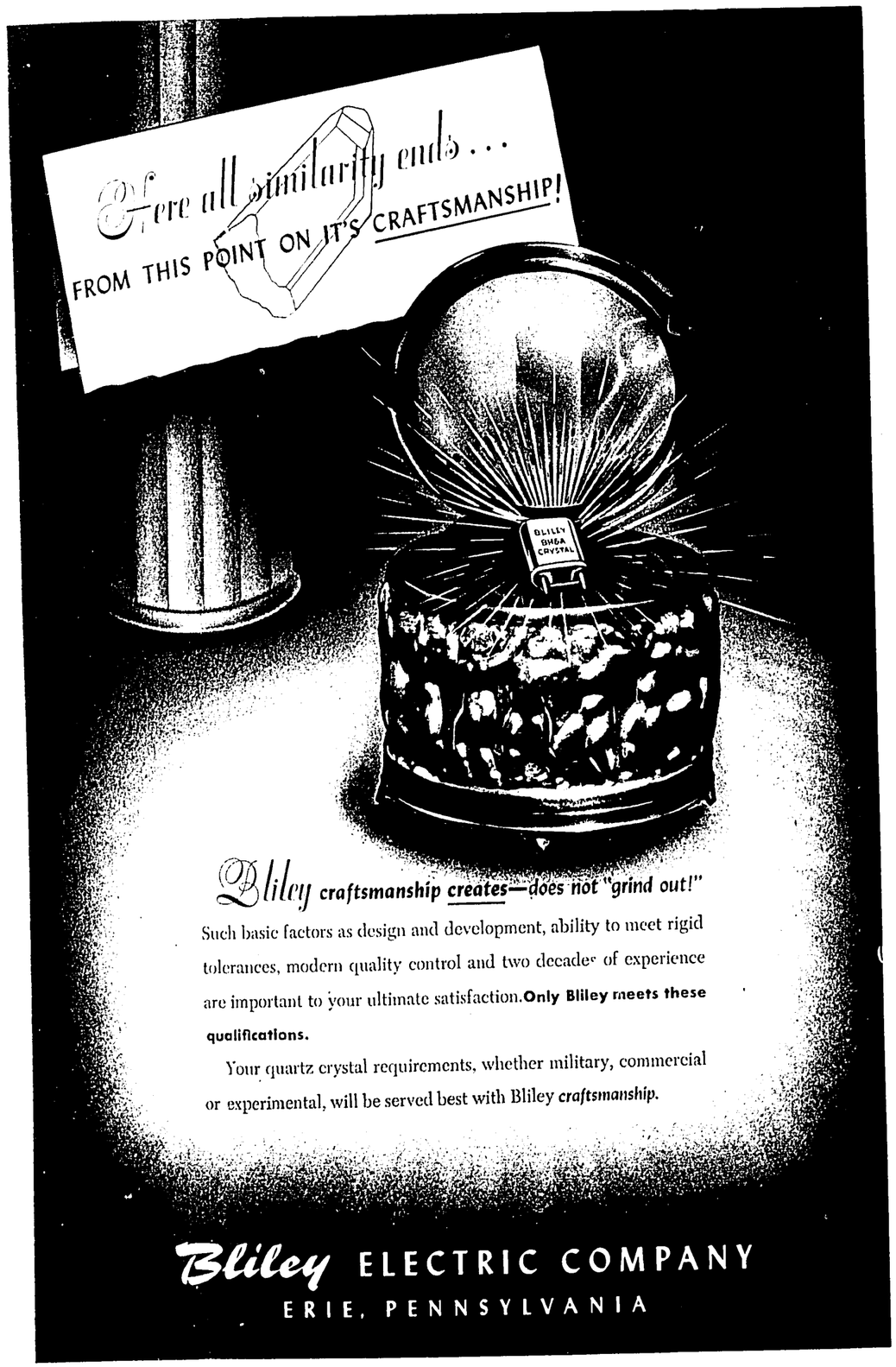
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Alphabetical Directory

De-Ed

(Continued from page 20)

Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass., 0, 3, 5
For details see ad on page 125

Devol Research Co., Brookside Dr., Greenwich, Conn., 0, 6

DeWald Radio, United Scientific Labs., 35-15 37 Ave., Long Island City 1, N.Y., 1, 2, 3, 4, 5

Dial Light Co. of America, Inc., 900 Broadway, New York 3, N.Y., 3
For details see ad on page 139

Diamond Drill Carbon Co., 53-63 Park Row, New York 38, N.Y., 3

Diamond Manufacturing Co., 7 North Ave., Wakefield, Mass., 3, 6, 7

Diamond Tool Eng. Co., 25 Huntington Ave., Boston 16, Mass., 6

Diamond Wire & Cable Co., 445 Park Ave., Sycamore, Ill., 6

Dice Co., J. W., 1 Eagle St., Englewood, N.J., 7

Dictograph Products, Inc., 95-25 149 St., Jamaica 1, N.Y., 0, 3

Dictaphone Corp., 375 Howard Ave., Bridgeport 5, Conn., 6

Dielect, Inc., P.O. Box 827, Perth Amboy, N.J., 6

Dietz Co., Henry G., 12 to Astoria Blvd., Long Island City 2, N.Y., 0, 3, 6

Dietz Design & Mfg. Co., Grandview 7, Mo., 0, 3, 6
For details see ad on page 110

Dilectron Co., 138 Delaware St., Walton, N.Y., 3

Dimco-Gray Co., 207 E. Stroop St., Dayton 2, Ohio, 6, 7

Dinion Coil Co., Inc., Drawer D, Caledonia, N.Y., 3

Display Lighting, Inc., 417 E. 61 St., New York 21, N.Y., 1, 3, 4, 6

Displayers, Inc., The, 500 Park Ave., Bronx 56, N.Y., 3

Distillation Products Industries, Rochester 3, N.Y., 6

Division Lead Co., 836 Kinzie St., Chicago 22, Ill., 6, 7
For details see ad on page 306, 7

Doelcam Corp., 56 Elmwood St., Newton 58, Mass., 3, 4

Dolin Metal Products, Inc., 315 Lexington Ave., Brooklyn 16, N.Y., 3, 6
For details see ad on page 105

Dolinko & Wilkens, Inc., 89 Adams St., Hoboken, N.J., 3

Dollar Co., Robert, 947 Broadway, Redwood City, Calif., 3, 7

Donnelly Electric & Mfg. Co., 3050 Washington St., Boston 19, Mass., 3, 6

Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 6, Ill., 0, 1

Dormitzer Elec. & Mfg. Co., Inc., 89 Brighton Ave., Allston 34, Mass., 3, 7

Dorne & Margolin, Grumman Airfield, Sheridan Ave., Bethpage, L.I., N.Y., 1, 2, 3, 5, 6

Douglas Radio Labs., 176 Norfolk Ave., Boston 19, Mass., 3, 4, 6, 7

Dow Corning Corp., Midland, Mich., 6

Drake Electric Works, Inc., 3656 Lincoln Ave., Chicago 13, Ill., 6
For details see ad on page 239

Drake Mfg. Co., 1713 W. Hubbard St., Chicago 22, Ill., 3

Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich., 3

Dresser Equipment Co., 875 Michigan Ave., Columbus 8, Ohio, 1

Driver Co., Wilbur B., 150 Riverside Ave., Newark 4, N.J., 6
For details see ad on page 30

Driver Harris Co., 201 Middlesex St., Harrison, N.J., 6

Dukane Corp., St. Charles, Ill., 0

Dumont Electric Corp., 308 Dyckman St., New York 34, N.Y., 3
For details see ad on page 34

DuMont Laboratories, Inc., Allen B., C-R Tube Div., 750 Bloomfield Ave., Clifton, N.J., 3
For details see ad on page 169

DuMont Labs., Inc., Allen B., Television Receiver Div., 35 Market St., E. Paterson, N.J., 1, 5
For details see ad on page 169

DuMont Labs., Inc., Allen B., Instrument Div., 1500 Main Ave., Clifton, N.J., 1, 7
For details see ad on page 169

DuMont Labs., Inc., Allen B., Television Transmitter Div., Bldg. 16, 1500 Main Ave., Clifton, N.J., 1, 5
For details see ad on page 169

Duncan & Bayley Div., 785 Hertel Ave., Buffalo 7, N.Y., 5

Duostone Co., Inc., Locust St., Keyport, N.J., 0, 1

Duplate Canada, Ltd., Controlite Div., 1200 Bay St., Toronto 5, Ont., Canada, 0, 3, 6

DuPont DeNemours & Co., Inc., E. I., Wilmington 98, Del., 6

Durakool, Inc., Elkhart, Ind., 3

Durez Plastics & Chemicals, Inc., 1941 Walck Rd., North Tonawanda, N.Y., 6

Dyna Labs., Inc., 132 Lafayette St., New York 13, N.Y., 0, 6, 7

Dynamic Electronics, 73-30 Woodhaven Blvd., Glendale, L.I., N.Y., 0, 1, 2, 3, 4, 5, 7

Dyn-Eastcoast Co., Inc., Box 185, Babylon, L.I., N.Y., 6

Earle Metal Corp., Malone, N.Y., 3
Eastern Air Devices, Inc., 585 Dean St., Brooklyn 17, N.Y., 3
Eastern Brass & Copper Co., Inc., 1130 E. 180 St., Bronx 72, N.Y., 6
Eastern Mike Stand Co., 56 Christopher St., Brooklyn 12, N.Y., 0
Eastern Specialty Co., 3647 N. 8 St., Philadelphia 40, Pa., 3, 6, 7
Eastman Kodak Co., 343 State St., Rochester 4, N.Y., 1
Ebert Electronics Co., 185-09 Jamaica Ave., Hollis 7, N.Y., 3

Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa., 0, 3, 6
For details see ad on page 21

Eckstein Radio & TV Co., 3400 E. 42 St., Minneapolis 6, Minn., 1, 2

Edgerton, Germeshausen, & Grier, Inc., 160 Brookline Ave., Boston 15, Mass., 6, 7

Edin Co., Inc., 267 Main St., Worcester 8, Mass., 0, 4, 7

Edison, Inc., Thomas A., Instrument Div., 61 Lakeside Ave., West Orange, N.J., 3
For details see ad on page 145

(Continued on page 23)

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In the CBS-Columbia design laboratories, Al Goldberg takes some important readings with the EICO Model 221 Vacuum Tube Voltmeter and Model 555 Multimeter, as Harry P. Ashley looks on.



Mr. Al Goldberg, Assistant Chief Engineer of CBS-Columbia and Harry R. Ashley, President of EICO, inspecting the use of the EICO Model 221 Vacuum Tube Voltmeter and Model HVP-1 High Voltage Probe at the Sweep Frequency Troubleshooting Position on the CBS-Columbia Television production lines.

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Continued from page 21

Edo Corp., 13-10 111 St., College Point 56, N.Y., 7

Egan Laboratory, 107-56 115 St., Redmond Hill 19, N.Y., 6

Ehrlich, Charles N., 150 W. 12 St., New York 11, N.Y., 6

Eichwald & Co., Inc., B., 287 Lenox St., New York 39, N.Y., 1, 6

Ekcor, Inc., 1501 W. Concord, Chicago 7, Ill., 6, 3

Elbson Electronic Co., 1902 N. Floyd St., Temple, Texas, 1, 3

Eisler Engineering Co., Inc., 750 S. 13 St., Newark 3, N.J., 6
For details see ad on page 241

Eitel-McCullough, Inc., San Bruno, Calif., 3, 6

Elastic Stop Nut, 2330 Vauxhall Rd., Union, N.J., 6

Elco Corp., 190 W. Glenwood Ave., Philadelphia 40, Pa., 3, 6
For details see ad on page 36

Eldi Electronic Devices, 204 W. Houston St., New York 14, N.Y., 3, 7

Eldico of New York, Inc., 44-31 Douglaston Parkway, Douglaston, L.I., N.Y., 0, 1, 2, 6
For details see ad on page 274

Electra Manufacturing Co., 2537 Madison, Kansas City 8, Mo., 3
For details see ad on page 158

Electran Mfg. Co., 1901 Clybourn Ave., Chicago 14, Ill., 3
For details see ad on page 23

Electric Design & Mfg. Co., Jefferson St., Burlington, Iowa, 3

Electric Eye Equipment Co., 6 W. Eastchild, Danville, Ill., 3, 4

Electric Products Co., 1725 Clarkson Rd., Cleveland 12, Ohio, 3

Electric Regulator Corp., 56 Day St., South Norwalk, Conn., 3

Electric Specialty Co., 211 South St., Stamford, Conn., 3

Electric Storage Battery Co., 42 S. 15 St., Philadelphia 2, Pa., 3

Electrical Connector Div., Joy Mfg. Co., 4235 Clayton Ave., St. Louis 10, Mo., 3

Electrical Industries, Div., Ampertex Electronic Corp., 44 Summer Ave., Newark 4, N.J., 3, 6
For details see ad on page 35

Electrical Windings, Inc., 2045 N. Kilpatrick Ave., Chicago 39, Ill., 3

Electricoil Transformer Co., Weaver's Rd., Ossining, N.Y., 3

Electro-Craft, Inc., 68 Jackson St., Stamford, Conn., 0, 2, 3, 6

Electro Development Corp., 6043 Washington Blvd., Culver City, Calif., 3

Electro Engineering & Mfg. Co., 927 W. Alexandrine Ave., Detroit 1, Mich., 6

Electro Engineering Works, 4021 College Ave., Oakland 18, Calif., 3

Electro-Impulse Lab., 62 White St., Red Bank, N.J., 5, 7
For details see ad on page 198

Electro Mechanical Associates, Inc., Box 181, Hicksville, N.Y., 6

Electro-Mechanical Instr. Co., 5427 Chestnut St., Perkasie, Pa., 3

Electro Mechanical Research, Inc., 64 Main St., Ridgefield, Conn., 0, 3, 6, 7

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Electro Motive Mfg. Co., Inc., Willimantic, Conn., 3
For details see ad on page 38

Electro Physics Co., 257 Broadway, New York 7, N.Y., 0, 6

Electro Precision Products, Inc., 119-01 22 Ave., College Point, L.I., N.Y., 3
For details see ad on page 179

Electro Products Labs., Inc., 4501 N. Ravenswood, Chicago 40, Ill., 3, 6, 7

Electro-Seal Corp., 940 North Ave., Des Plaines, Ill., 3, 6
For details see ad on page 212

Electro-Search, 515 W. Wyoming Ave., Philadelphia 40, Pa., 6, 7.
For details see ad on page 234

Electro Search Corp., 197 King Ave., Weymouth 88, Mass., 3

Electro Tec Corp., 4 Romanelli Ave., South Hackensack, N.J., 3, 6
For details see ad on page 40

Electro-Tech Equip. Co., 308 Canal St., New York 13, N.Y., 3, 6, 9
For details see ad on page 284

Electro-Temp, Inc., 8255 Huron St., Dexter, Mich., 3

Electro-Voice, Inc., Carroll and Cecil Sts., Buchanan, Mich., 3

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Electron Radar Products, 3047 N. Pulaski Rd., Chicago 41, Ill., 0, 3, 6, 7

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For details see ad on page 249

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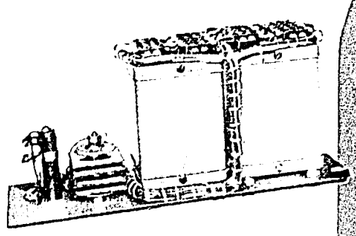
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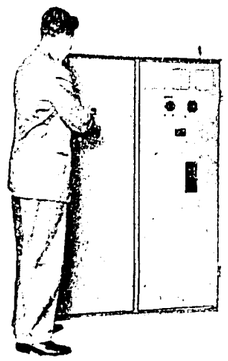
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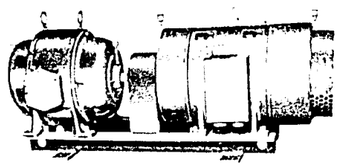
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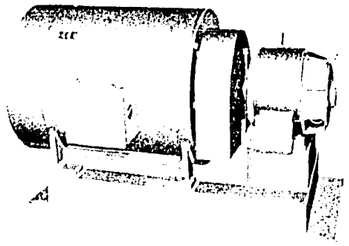
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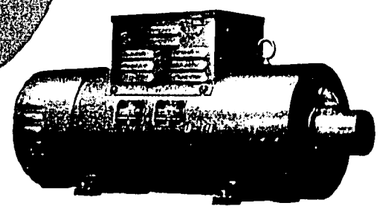
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Electronic Processes Corp., 728 N. Market St., San Jose, Calif., 4

Electronic Products Co., P.O. Box 50, North Aurora, Ill., 4

Electronic Products Co., 333 E. Third St., Mt. Vernon, N.Y., 3, 4, 7

Electronic Rectifiers, Inc., 2502 Sixth Ave., Indianapolis 5, Ind., 3

Electronic Signal Co., Inc., 541 Willis Ave., Williston Park, N.Y., 0, 4

Electronic Specialty Co., 5455 Glendale Blvd., Los Angeles 39, Calif., 2

Electronic Specialty Products Co., Millington, N.J., 3
For details see ad on page 23

Electronic Systems Co., 57 E. 3rd St., New York 3, N.Y., 0, 3, 5, 7

Electronic Transformer Co., Inc., 267 W. 25 St., New York 1, N.Y., 0, 3

Electronic Tube Corp., 1200 E. Mermaid Lane, Philadelphia 18, Pa., 3, 7

Electronics Center, Inc., 118 Duane St., New York 7, N.Y., 9
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Electronics Development Co., 405 Lexington Ave., Rm. 425, New York 17, N.Y., 0, 3

Electronics Research, Inc., 2300 N. New York Ave., Evansville 4, Ind., 0

Electronics of Staten Island, 56-3 Victory Blvd., Staten Island 1, N.Y., 0, 3, 5, 7

Electrons, Inc., 127 Sussex Ave., Newark 4, N.J., 3
For details see ad on page 177

Electrotex Co., Inc., 240 Franklin St., East Orange, N.J., 0

Electyme Motor Products Corp., 5-8 W. Washington Blvd., Chicago 6, Ill., 3

Elizabeth Iron Works, Inc., P.O. Box 309, Elizabeth 8, N.J., 3, 4

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Elm Laboratories, 18 Sagtikos Parkway, Dobbs Ferry, N.Y., 0, 3, 4, 5, 7

E-M Mfg. Labs., Inc., 2300 Grand Ave., Hillside, N.J., 6

E-M Products, Inc., 247 N. Broad St., Philadelphia 33, Pa., 0, 3, 4, 5, 7

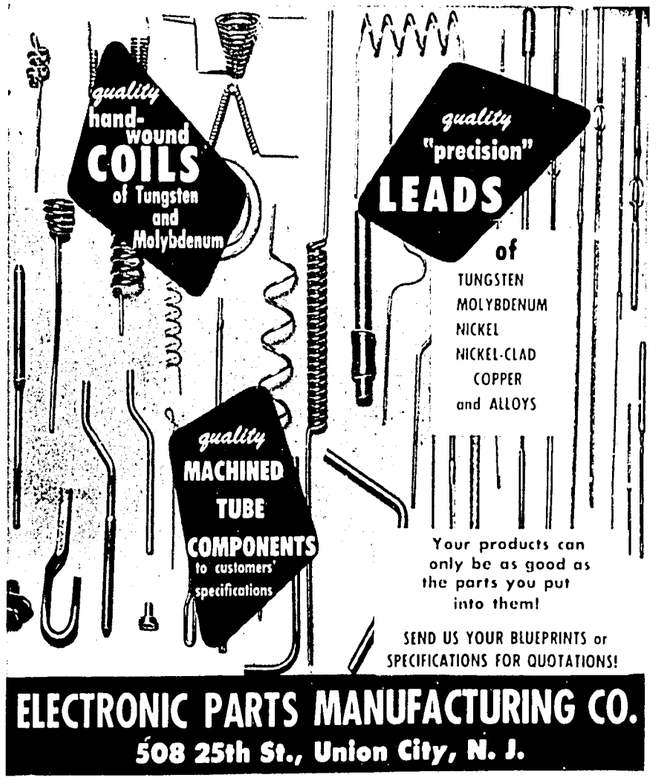
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Embassy Electronic Co., 224 E. 204 St., New York 58, N.Y., 3

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Epply Lab., Inc., Stanhope Circle, 12 Shamrock Ave., Newport, R.I., 7

Equipment & Service Co., 1845 Cedar St., Dallas 9, Texas, 3, 4, 6

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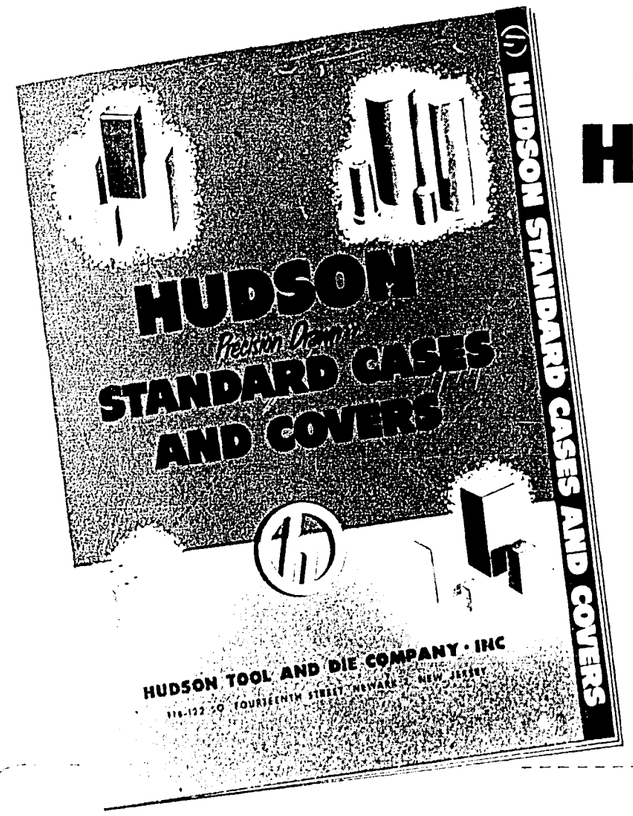
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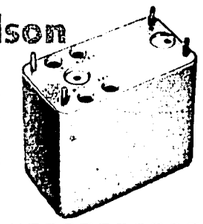
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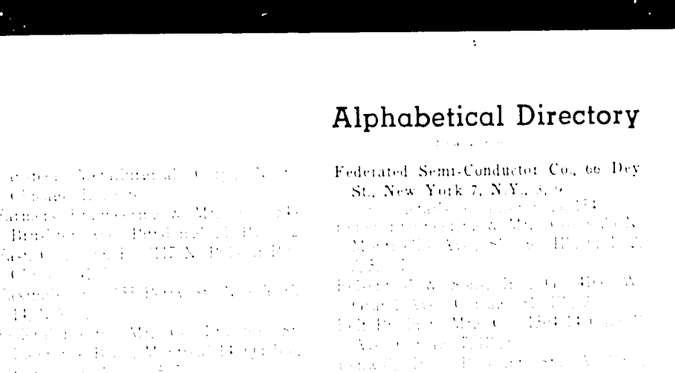
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... Co., ... Ave., ... 3, Ohio

... Mfg. Co., 200 W. ... St., Erie, Pa., 3

Fuglé Miller Labs., 108 Main St., Metuchen, N.J., 3

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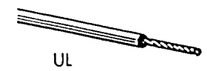
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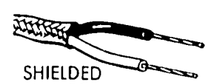

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Timers by the A. W. HAYDON CO.

A. W. Haydon's timing devices are specified where performance is paramount. Let us apply our 20 years experience to your electrical timing and control problems.



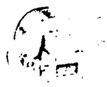
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- Extreme accuracy — 1/10 of 1%
- Wide range of voltage, temperature, load
- Light weight ... Compact
- Reversible



TIME DELAY RELAY WITH ADJUSTABLE DIAL A C OR D C
- Wide selection of time range
- Features ease of adjustment
- Flexible, compact design
- Positive operation



REPEAT CYCLE TIMER A C OR D C
- Durable ... Long Life
- Wide range of time cycles
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- Exceptionally compact and accurate
- Registers tenths of minutes, minutes, tenths of hours, hours
- Also available in aircraft instrument housing



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- Maximum protection against weather, humidity, explosive atmospheres and high altitude
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STANDARDIZED A C TIMING MOTOR
- High starting and running torque
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Design and Manufacture of Electrical Timing Devices

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240 North Elm Street, Waterbury 20, Connecticut

General Precision Laboratory, Inc., 63 Bedford Rd., Pleasantville, N.Y. 3, 4, 5, 6

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. 2, 3, 4, 5, 7

General Ceramics & Steatite Corp., Keasbey, N.J. 5, 6

General Dyestuff Corp., Antara Chemicals Div., 435 Hudson St., New York 14, N.Y. 6

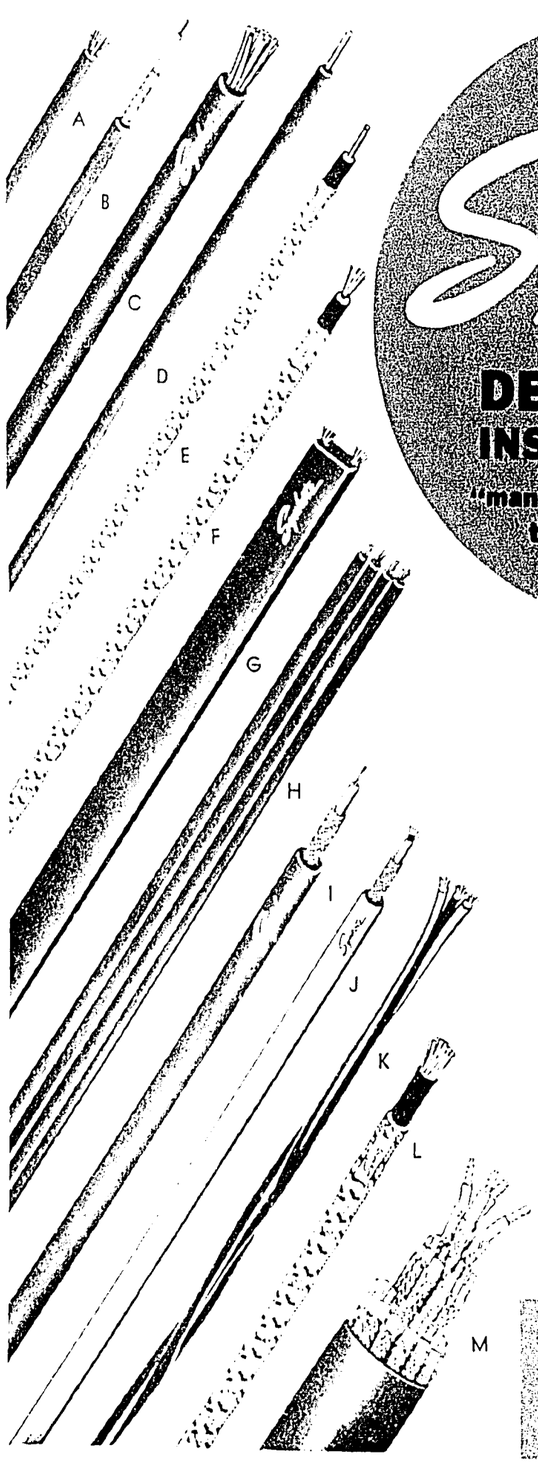
General Hermetic Sealing Corp., 91 Hawthorne Ave., Valley Stream, L.I., N.Y. 6

Glass Products Co., 922 S. Michigan Ave., Chicago 5, Ill. 3, 6

Godley Co., Paul, P.O. Box 1, Upper Montclair, N.J. 6

Gombos Co., Inc., John, 7 Montgomery Ave., Irvington 11, N.J. 3, 5, 6

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"manufactured by the mile—tested by the inch"

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APPLIANCE WIRE—105°C.
(Underwriters approved)
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K. INTERCOMMUNICATION CABLES

L. AIRCRAFT WIRE

Will operate at 300° C. without deterioration; excellent abrasion resistance; not affected by oil, hydraulic fluids, acids or moisture; non-inflammable.

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Many standard constructions as well as cables made to your specifications or special installation requirements.

All standard constructions in stock; for special wire-cable problems, our engineering department welcomes the opportunity to work with you in solving your problems.

PLASTOID Corporation

42-61 24th Street Long Island City 1, N. Y.

Gordon, Herman Lewis, Warner Bldg., Washington 4, D.C., 6
For details see page 2

Gramer Transformer Corp., 4754 N. Pulaski Rd., Chicago 30, Ill., 6
For details see page 207

Grant Pulley & Hardware Co., 31-35 Whitestone Pkwy., Flushing 54, N.Y.
For details see page 2

Graphite Metallizing Corp., 1037 Nepperhan Ave., Yonkers, N.Y., 2, 6
For details see page 2

Gray Research & Development Co., Inc., Manchester, N.H., 2
For details see page 2

Gray Rocker Co., 1000 Belvedere, West Palm Beach, Fla., 2
For details see page 2

Griffin Co., John, 2357 James Ave., St. Paul 5, Minn., 6
For details see page 2

Guardian Elec. Mfg. Co., 3622 W. Walnut St., Chicago 12, Ill., 6
For details see page 2

Hammarlund Mfg. Co., Inc., 460 W. 34 St., New York 1, N.Y., 2, 3, 4
For details see page 2

Harder Co., Donald C., 2961 Chatsworth Blvd., San Diego 7, Calif., 6
For details see page 2

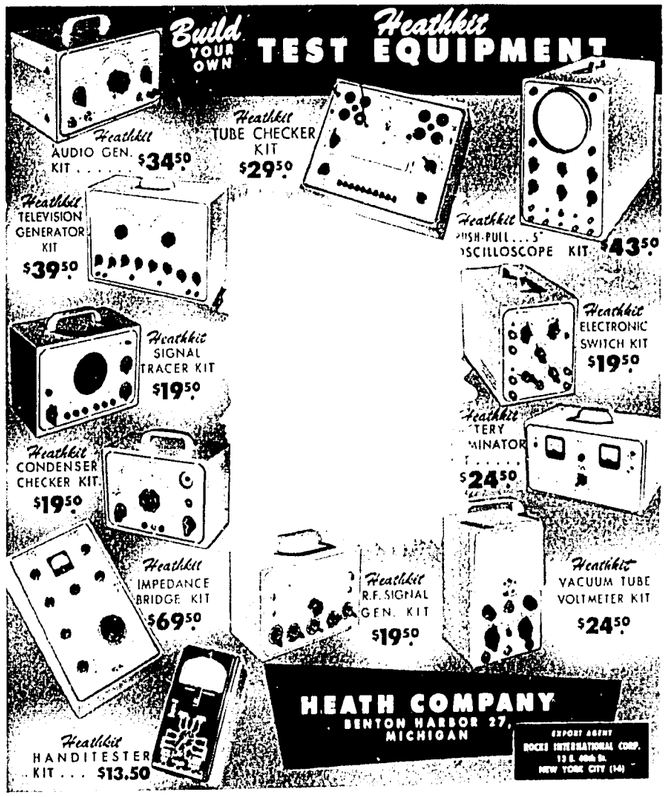
Harnett Electric Corp., 715 Haven Ave., Port Washington, L.I., N.Y., 3, 5, 6
For details see page 2

Harrison Radio Corp., 76 Grosvenor St., New York 2, N.Y., 4
For details see page 2

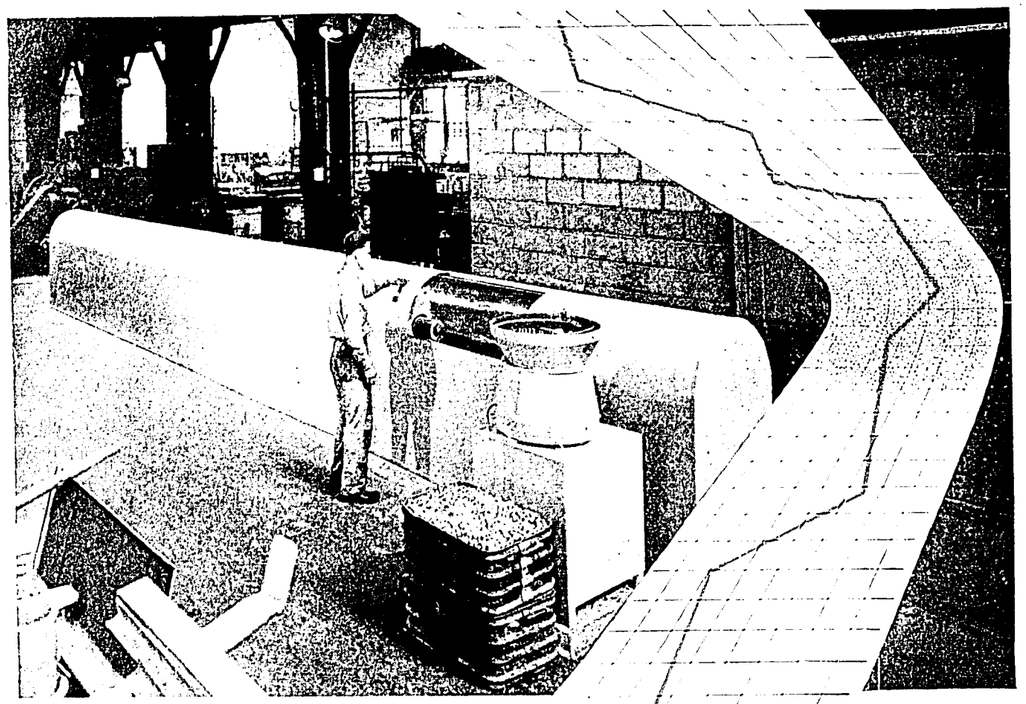
Hawley Products Co., 441 N. 6 St., St. Charles, Ill., 6
For details see page 2

Haydon Co., A. W., 232 N. Elm St., Waterbury 20, Conn.
For details see page 2

Heath Co., 326 Territorial Rd., Benton Harbor, Mich., 2, 3
For details see page 2



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1—Components, 2—Electronic Equip., 3—Radio & Sound, 4—Science & Measuring [illegible] Commercial, 6—Electrical, 7—Distributors



An automatic heat treat machine. Production is about 3 times that possible with manual methods while quality is held within very close limits.

CRUCIBLE ALNICO MAGNETS

KEEP COSTS DOWN ... *through automatic production that gives quality control*

Alnico magnets have been getting smaller and lighter, thanks to production techniques in use at Crucible. Automatic machinery cuts the possibility of human error to a minimum, so rejections are low. This helps to maintain stable price levels in the face of rising material and labor costs. At the same time, Crucible's rigid inspection standards and attention to quality have developed a magnet with the *highest gap flux per unit weight of any on the market.*

Today, Crucible can offer lighter, magnetically stronger Alnico magnets because of these automatic production techniques developed over the sixteen years that we have been producing the Alnico alloys. And behind our familiarity with permanent magnets lies more than 52 years' experience with specialty steelmaking. Let us advise you on your magnet problem.

CRUCIBLE first name in special purpose steels

52 years of Fine steelmaking

PERMANENT ALNICO MAGNETS

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Heifelbower Bros., P.O. Box 815, E. 8th St., Kansas City 5, Mo., 6

Hegeman Labs., 35 Hillside Ave., Glen Ridge, N.J., 6

Heiland Research Corp., 130 E. Fifth Ave., Denver 9, Colo., 4, 7
For details see ad on page 180

Heinemann Electric Co., P.O. Box 2600, Trenton, N.J., 5

Heinze Electric Co., 685 Lawrence St., Lowell, Mass., 0, 3, 4
For details see ad on page 205

Heldor Bushing & Terminal Co., Inc., 225 Belleville Ave., Bloomfield, N.J., 6
For details see ad on page 224

Heli-Coil Corp., Shoker Rd., Lake Dudeney, Conn., 6

Helipot Corp., 916 Meridian Ave., South Pasadena, Calif., 5

Hemingway & Bartlett Mfg. Co., 500 Fifth Ave., New York 36, N.Y., 6
For details see ad on page 229

Heppner Mfg. Co., P.O. Box 612, Round Lake, Ill., 6, 8
For details see ad on page 113

Herbor Corp., 422 N. Fifth St., Milwaukee 3, Wis., 3

Hermasol Co., Inc., 314 S. Riverside Dr., Elkhart, Ind., 6

Hermetic Seal Products Co., 29-37 S. Sixth St., Newark 7, N.J., 3, 6
For details see ad on page 50

Herrington, Inc., Sharon Hill, Pa., 3, 4

Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif., 0, 1, 3, 4, 7
See complete catalog listing alphabetically in last section

Hexacon Electric Co., 131 W. Clay Ave., Roselle Park, N.J., 6

Heyman Mfg. Co., 300 Michigan Ave., Kenilworth 15, N.J., 0, 6
For details see ad on page 222

Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland 8, Ohio, 3, 7
For details see ad on page 136

High Voltage Engineering Corp., 7 Cambridge Rd., Cambridge 38, Mass., 3

High Fidelity Magazine, Great Barrington, Mass., 8

Highland Engineering Co., Main & Urban Sts., Westbury, L.I., N.Y., 0, 2, 3, 4, 6
For details see ad on page 233, 234

Hill Electronic Equipment Corp., 5528 Live Oak St., Dallas, Texas, 3, 7

Hillburn Electronic Products Co., 35 Nassau Ave., Brooklyn 22, N.Y., 3

Hilliker Instrument Co., Inc., 84 Lafayette St., New York 13, N.Y., 3, 4, 6, 7

Hi Lo TV Antenna Corp., 3540 N. Ravenswood Ave., Chicago 13, Ill., 3

Hindle Transformer Co., Inc., Woods Church Rd., R.D. 2, Hammonton, N.J., 3

Hi Test Chemical Corp., 222-24 St., Brooklyn 29, N.Y., 6

Hi Video, Inc., 23 W. Washington Ave., Pearl River, N.Y., 0, 1, 3, 7

Hobson Bros., 3049 W. Fullerton Ave., Chicago 39, Ill., 0

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invites inquiries from Engineers and Physicists

Culver City, Los Angeles County, California

Hoffman Electronics Corp., 3761 S. Hill St., Los Angeles 7, Calif., 1, 2, 3, 4, 6

Hogan Laboratories, Inc., 155 Perry St., New York 14, N.Y., 0, 2, 3, 4, 6, 7
For details see ad on page 235

Hogenson, David E., Route 1, Box 327, Rolling Dell Ranch, Cedaredge, Colo., 8

Holt Yacht Industries, 3414 N. Fremont, Temple City, Calif., 8

Hollywood Radio & Television Inst., 2975 Hollywood Blvd., Hollywood 28, Calif., 8

Holyoke Wire & Cable Corp., 220 Main St., Holyoke, Mass., 6

Home Recording Prod. Co., 56 Mill Rd., Freeport, N.Y., 0

Hooper, Penrose R., 12 S. 12 St., Philadelphia 7, Pa., 6

Hopp Press, Inc., 460 W. 34 St., New York 1, N.Y., 8

Horlick Co., William L., 26 Summer St., Boston 10, Mass., 8

Horn Co., Inc., A. C., 60 St. & 44 Ave., Long Island City 1, N.Y., 6

Horton Machine Products Co., 1091 Rockaway Ave., Valley Stream, N.Y., 6

Hose McCann Tel. Co., Inc., 79 Hurd Ave., Brooklyn 37, N.Y., 2

Houghton Labs., Inc., 322 Bush St., Olean, N.Y., 6

Houlihan Co., J. J., 2508 W. Lawrence Ave., Chicago 25, Ill., 8

Houston Corp., The, 1301 W. Olympic Blvd., W. Los Angeles 54, Calif., 3, 5, 6

Howard Industries, Inc., 1215 State St., Racine, Wis., 3, 4, 5, 6, 7
For details see ad on page 119

Howes, E. S., McGill Electronics, 52 Strand, Canada, 6

Hudson Radio & Television Corp., 48 W. 48 St., New York 36, N.Y., 0
See complete catalog listing alphabetically in last section

Hudson Tool & Die Co., 118 S. 14 St., Newark 4, N.J., 6
For details see ad on page 29

Hudson Wire Co., Winsted, Conn., 3

Hueghs Lab., 700 Hamilton Ave., Menlo Park, Calif., 3, 6, 7

Hughes Aircraft Co., Florence & Teale Sts., Culver City 4, Calif., 3, 4, 5, 6
For details see ad on page 33

Hughey & Phillips, 4075 Beverly Blvd., Los Angeles 4, Calif., 1, 2, 3
For details see ad on page 52

Hunt Corp., 453 Lincoln St., Carlisle, Pa., 3
For details see ad on page 123

Huse Liberty Mfg. Co., 272 Cambridge St., Boston 18, Mass., 6

Hutchesson, Gray C., P.O. Box 7, Arlington, Texas, 6

Hycon Mfg. Co., 2961 E. Colorado St., Pasadena 8, Calif., 0, 2, 4, 5, 6, 7
For display advertising, see p. 94

Hycor Co., Inc., 11423 Vanowen St., North Hollywood, Calif., 0, 3

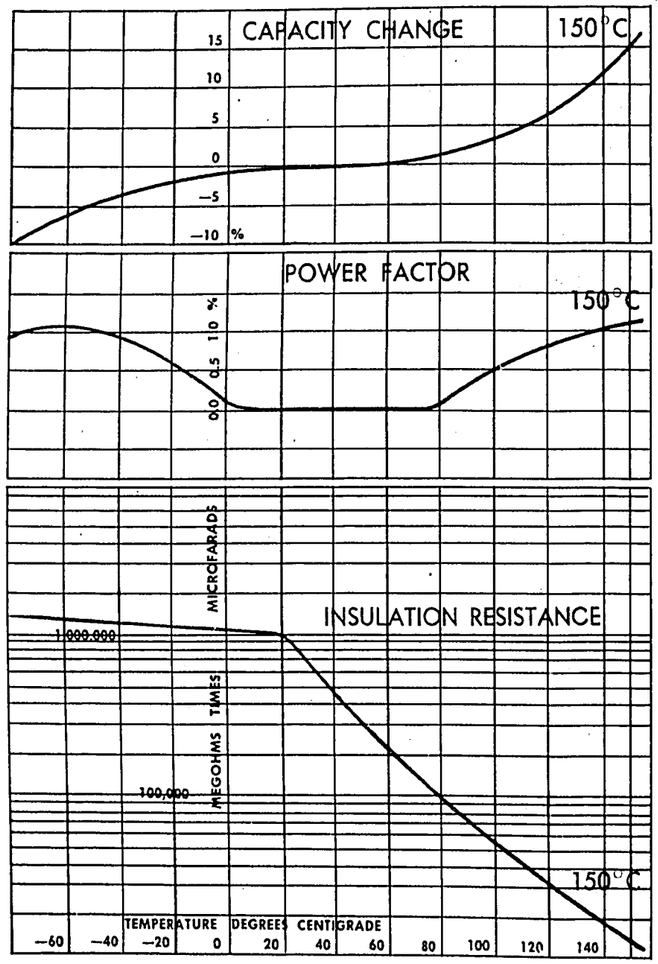
Hytron Radio & Electronics Corp., 76 Lafayette St., Salem, Mass., 3

I-T-E Mfg., 325 N. Hoyne Ave., Chicago 25, Ill., 1, 3, 6

I-T-E Circuit Breaker Co., 19th & Hamilton Sts., Philadelphia, Pa., 3

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Hanna Bldg.
Cleveland, Ohio

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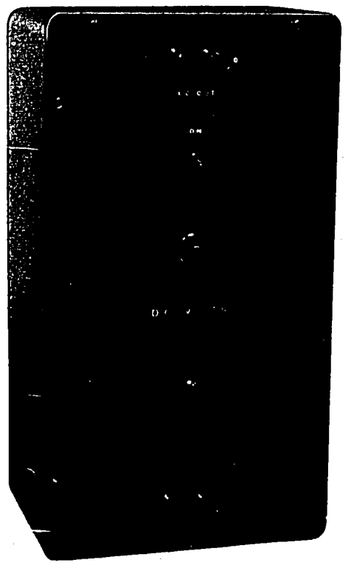
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1102 So. Western Ave.
Los Angeles 6, Calif.

(Continued from page 33)

Ideal Ind., Inc., Park Ave., Sycamore, Ill., 6
Illinois Condenser Co., 1616 N. Throop St., Chicago 22, Ill., 3
For details see ad on page 54
Illinois Transformer Co., 412 S. Green St., Chicago 7, Ill., 3, 4
Illustrated Technical Products, 320 Broadway, New York 7, N.Y., 8
Imperial Electric Co., 9 Park Pl., New York, N.Y., 3
Imperial Radar & Wire, 4342 Bronx Blvd., Bronx, N.Y., 3
Indiana Electronic & Television, 312 E. Washington St., Indianapolis 4, Ind., 6, 8
Indiana Steel Products Co., 700 Valparaiso St., Valparaiso, Ind., 0, 3
For details see ad on page 129
Indiana Steel & Wire Co., 700 S. Council St., Muncie, Ind., 0
Induction Heating Corp., 181 Wythe Ave., Brooklyn 11, N.Y., 4
Inductograph Products, Inc., 83-56 Vietor Ave., Elmhurst 73, N.Y., 3
Industrial Chromium Corp., 109 Lyman St., Holyoke, Mass., 4
Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill., 3
Industrial Control Co., Straight Path & Arlington Ave., Wyandanch, L.I., N.Y., 0, 4, 7
For details see ad on page 35
Industrial Dev. Eng. Associates, Inc., 55 North New Jersey St., Indianapolis 4, Ind., 1, 2, 3, 5, 6
Industrial Devices, Inc., Edgewater 19, N.J., 3, 6
Industrial Elect. Works, 1509 Chicago St., Omaha 2, Nebr., 6
Industrial Electronic Engineers, 5326 Sunset Blvd., Hollywood 27, Calif., 4, 6
Industrial Electronics, Inc., 8060 Wheeler, Detroit 10, Mich., 4, 7
Industrial Electronics of Canada, 15 Cordova Ave., Islington, Toronto 18, Canada, 3, 4, 6
Industrial Instruments, Inc., 17 Pollock Ave., Jersey City 5, N.J., 7
Industrial Hardware Mfg. Co., Inc., 109 Prince St., New York 12, N.Y., 3, 6
Industrial Nucleonics Corp., 1205 Chesapeake Ave., Columbus 12, Ohio, 4
Industrial Precision Products, 325 N. Hoyne Ave., Chicago 12, Ill., 1, 3, 6
Industrial Products Co., P.O. Box 148, Danbury, Conn., 0, 2, 3, 5
Industrial Products Co., P.O. Box 1116, Gardena, Calif., 2, 3, 5, 6
Industrial Radio Labs., 178 E. 77 St., New York 21, N.Y., 0, 1, 2, 3, 6
Industrial Scientific Co., 34 W. 33 St., New York 1, N.Y., 4
Industrial Specialties Corp., 323 Atlantic Ave., Brooklyn 2, N.Y., 0, 3, 6
Industrial Tape Corp., U.S. 1, N.J. Highway 25, New Brunswick, N.J., 6
Industrial Television, Inc., 359 Lexington Ave., Clifton, N.J., 0, 1
Industrial Timer Corp., 115 Edison Pl., Newark 5, N.J., 3
Industrial Transformer Corp., Goulds-boro, Pa., 3, 7
Insl-X Co., Inc., The, Broadway & Water St., Ossining, N.Y., 6
Instrument Corp. of America, Blacksburg, Va., 3, 6
For details see ad on page 56
Instrument Development Labs., 163 Highland Ave., Needham Heights 94, Mass., 4, 6
Instrument Electronics Corp., 90 Main St., Port Washington, N.Y., 3, 7
Instrument Labs., 315 W. Walton Pl. Chicago 10, Ill., 6, 7
Instrument Labs., 373 First Ave., New York 10, N.Y., 4, 6
Instrument Resistors Co., 1036 Commerce Ave., Union, N.J., 3
For details see ad on pages 324-5
Instrument Specialties Co., Inc., 232 Bergen Blvd., Little Falls, N.J., 6
For details see ad on page 227
Instrument Wire Co., 150 Church St., Guilford, Conn., 6
Instruments Publishing Co., 921 Ridge Ave., Pittsburgh 12, N.Y., 8
Insulating Tube Co., Inc., 26 Cottage St., Poughkeepsie, N.Y., 6
Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill., 6
Insulation Products Co., 504 N. Richland St., Pittsburgh 8, Pa., 6
Insuline Corp. of America, 36-02 35 Ave., Long Island City 1, N.Y., 0, 2, 3, 6
For details see ad on page 100
Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 0, 2, 3, 4, 6, 7
International Instruments, Inc., P.O. Box 2954, New Haven 15, Conn., 3, 7
Internatl. Nickel Co., 67 Wall St., New York 5, N.Y., 6
International Rectifier Corp., 1521 E. Grand Ave., El Segundo, Calif., 3
For details see ad on page 144
International Resistance Co., 401 N. Broad St., Philadelphia 3, Pa., 3
International Sound Eng. Co., 821 S. Orange Ave., East Orange, N.J., 0
Interstate Mfg. Corp., 26 Sterling St., East Orange, N.J., 6
Irvington Varnish & Insulator Co., 6 Argyle Terr., Irvington 11, N.J., 6
Isolantite Mfg. Corp., Warren Ave., Stirling, N.J., 3, 6
Ivanhoe Electronic Labs., 14238 S. La Salle St., Chicago 27, Ill., 1, 6

J. B. L. Instrument Co., Sycamore & Mill Rd., Clifton Heights, Pa., 3
J. B. T. Instruments, Inc., 441 Chapel St., New Haven 8, Conn., 3
J. F. D. Mfg. Co., Inc., 6101 16 Ave., Brooklyn 4, N.Y., 3, 6
For details see ad on page 37, 109
Jackson Electrical Instrument Co., 18 S. Patterson Blvd., Dayton 2, Ohio, 7
Jackson Industries, Inc., 500 E. 40 St., Chicago 15, Ill., 0, 1, 3
Jacobs, Charles F., P.O. Box 408, Church St. Station, New York, N.Y., 3
Jacobs Instrument Co., 4718 Bethesda Ave., Bethesda 14, Md., 3, 4, 6
James Vibrapowr Co., 4036 N. Rockwell St., Chicago 18, Ill., 3

(Continued on page 37)



MODEL 200-A DC MILLIVOLTMETER

DC Measurements

5 MICROVOLTS to 10 VOLTS

A precision converter, that changes the input DC into an amplified, sinusoidal AC Voltage

- 5 Microvolts internal noise
- 2 Megohms input resistance
- Stabilized gain and zero
- Insensitive to power line pickup

Makes the AC Vacuum tube Voltmeter direct reading in DC microvolts and millivolts.

With the cathode ray oscillograph yields an extremely sensitive DC null detector.

For further information contact our Engineering Department.

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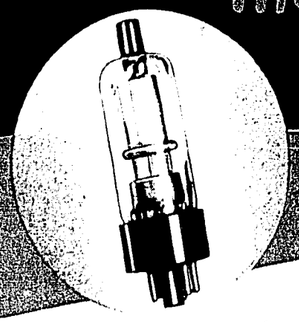
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MIDLAND 3-7548

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Good names to know for—

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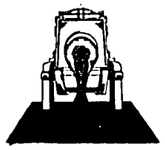
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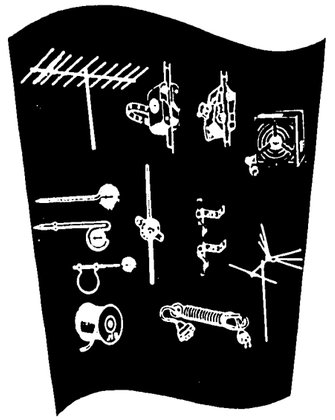
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World's Largest Manufacturer of Television Antennas & A Services

(Continued from page 35)

Janette Electric Mfg. Co., Lehigh at Main, Morton Grove, Ill., 3

Jarvis Electronics Corp., 6058 W. Lawrence Ave., Chicago 30, Ill., 2, 3, 6

Jeffers Electronics, Inc., Hoover Ave., DuBois, Pa., 3

Jefferson Electric Co., 25 S. Madison, Bellwood, Ill., 3

Jennings Radio Mfg. Co., 970 McLaughlin Ave., San Jose 8, Calif., 3

For details see ad on page 329-31

Jensen Ind., Inc., 329 S. Wood St., Chicago 12, Ill., 3

Jensen Mfg. Co., 6601 S. Laramie Ave., Chicago 38, Ill., 0, 3

Jiffy Clip Mfg. Co., 328 Clinton Ave., Huntington, L.I., N.Y., 6

Johanson Mfg. Corp., P.O. Box 327, Boonton, N.J., 3

Johns Manville, 22 E. 40 St., New York 16, N.Y., 6

Johnson Co., E. F., 206 W. Second St., Waseca, Minn., 2, 3, 6

Johnson Gas Appliance Co., 520 East Ave. N.W., Cedar Rapids, Iowa, 3

Johnson & Hoffman Mfg. Co., 55-65 Ongley St., Rockville Centre, N.Y., 6

For details see ad on page 332-3

Johnson, J. Kelly, 511 Fifth Ave., New York 17, N.Y., 6

Johnson, R. W., 521 Rowe St., China Lake, Calif., 6

Johnson Foil Mfg. Co., 6100 S. Broadway, St. Louis 11, Mo., 6

Jones Div., Howard B., 1026 S. Homan Ave., Chicago 24, Ill., 0, 3, 6

For details see ad on page 222

Jones Electric Co., 96 N. Main St., Bristol, Conn., 3, 7

Jones Optical Works, 2400 Massachusetts, Cambridge, Mass., 6

Jones & Sons, 254 Jericho Tpke., Mineola, N.Y., 0, 3

Joy Mfg. Co., Henry W. Oliver Bldg., Pittsburgh 22, Pa., 3, 6

Joyner Corp., 8 Buffalo St., Warsaw, Ind., 3

K-F Development Co., 867 Woodside Way, San Mateo, Calif., 0, 2, 3

K-V Transformer Corp., 3412 Park Ave., New York 57, N.Y., 3

Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif., 2, 3

Kabar Mfg. Corp., 1907 White Plains Rd., New York 69, N.Y., 4

Kahle Engineering Co., 1307 Seventh St., North Bergen, N.J., 6

For details see ad on page 240

Kalbfell Labs., Inc., 1090 Morena Blvd., P.O. Box 1578, San Diego 10, Calif., 0, 4, 6

For details see ad on page 255

Kalimann, Heinz E., 317 Riverside Dr., New York 25, N.Y., 6

Karp Metal Products Co., Inc., 211-63 St., Brooklyn 20, N.Y., 3, 6

Kartron, Inc., Drawer 472, Huntington Beach, Calif., 7

Kay Electric Co., 14 Maple Ave., Pine Brook, N.J., 0, 6, 7

For details see ad on page 252

Kaye Halbert Corp., 3555 Hayden Ave., Culver City, Calif., 1

Kaywoff Products Co., Overton, Nebr., 6

Kean, Walter L., 3 Riverside Rd., Riverside, Ill., 1, 6

Keithley Instruments, 3868 Carnegie Ave., Cleveland 15, Ohio, 0, 7

Keller Products, Inc., 41 Union St., Manchester, N.H., 1, 3, 6

Kellogg Co., M. W., P.O. Box 469, Jersey City 3, N.J., 6

For details see ad on page 1

Kellogg Switchboard & Supply Co., 6650 S. Cicero, Chicago 38, Ill., 0, 3

Kelmet Mfg. Corp., 222 Kearny St., San Francisco 8, Calif., 3

Kemlite Labs., 2879 W. Grand Ave., Chicago 22, Ill., 3

Kemode Mfg. Co., Inc., 591 W. 48 St., New York 19, N.Y., 6

Kennedy & Co., D. S., 35 S. Main St., Cohasset, Mass., 6

Kennedy & Farmer, 3701 Arboleda Rd., Los Angeles 27, Calif., 6

Kent Co., E. C., 64 Howard St., Irvington, N.J., 5

Kent Engineering Co., Inc., 5743 W. North Ave., Chicago 39, Ill., 2, 6, 7

Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N.Y., 3

For details see ad on page 334-5

Kepco Labs., Inc., 131-38 Sanford Ave., Flushing 55, N.Y., 3, 6

For details see ad on page 190

Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill., 6

For details see ad on page 248

Ketay Mfg. Corp., 535 Broadway, New York 12, N.Y., 3, 4

Key Electronics Corp., 20 W. 22 St., New York 10, N.Y., 0, 2, 3, ...

Keystone Electronics Corp., 423 Broadway St., New York 13, N.Y., 0, 6

Keystone Products Co., 604 23 St., Union City, N.J., 3, 6

For details see ad on page 250

Kierstead, Oswald E., Box 33, Scituate, Mass., 6

King Labs., Inc., 127 Solar St., Syracuse 4, N.Y., 6

For details see ad on page 329

Kings Electronics Co., Inc., 50 Marbledale Rd., Tuckahoe 7, N.Y., 0, 2, 3, 5, 7

For details see ad on page 120, 232

Kings Microwave Co., Inc., 719 Main St., New Rochelle, N.Y., 5, 7

For details see ad on page 58-7

Kinney Mfg. Co., 3529 Washington St., Boston 30, Mass., 6

For details see ad on page 242

Kip Electronics Corp., 155 Waverly Pl., New York 14, N.Y., 3, 6

Knickerbocker & Co., Inc., M., 1425-37 St., Brooklyn 18, N.Y., 6

Kirkland Co., H. R., 8-10 King St., Morristown, N.J., 3

Kleinberger, R. C., 1 East Post Rd., White Plains, N.Y., 6

Klipsch & Associates, P.O. Box 64, Hope, Ark., 0

Knapp Mfg. Co., 1 Cottage Grove S.W., Grand Rapids 2, Mich., 6

Knapp Radio Specialties, Inc., 30 Taylor St., Springfield 3, Mass., 3, 6

Knights Co., James, Sandwich 1, Ill., 1, 3

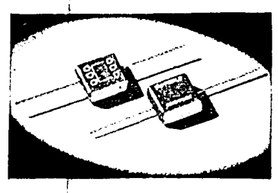
For details see ad on page 90

Kollmorgen Optical Corp., 2 Franklin Ave., Brooklyn 11, N.Y., 3

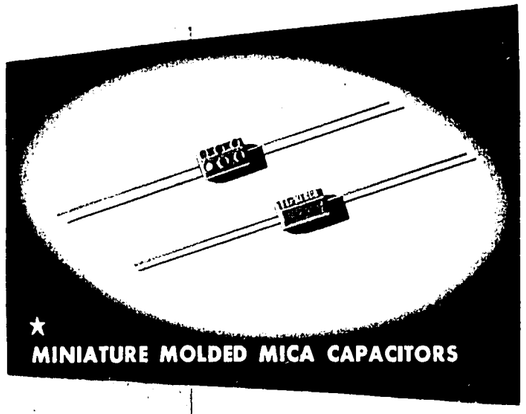
(Continued on page 38)

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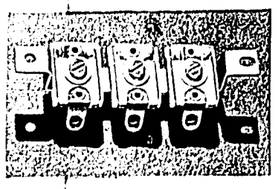
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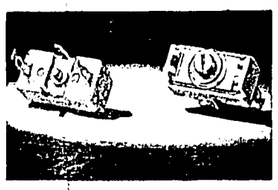
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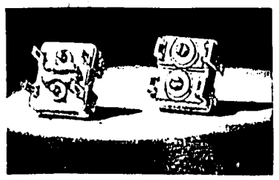
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Alphabetical Directory

Continued from page 37

Kollsman Instrument Corp., 80-08 45 Ave., Elmhurst, L.I., N.Y., 3, 4
For details see ad on page 188

Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N.J., 3, 6

Kopp Glass, Inc., 1 E. 42 St., New York 17, N.Y., 3

Koppers Co., Koppers Bldg., Pittsburgh 19, Pa., 6

Korb Engineering & Mfg. Co., 30 Ottawa Ave., Grandville, Mich., 0, 5

Korrol Products Corp., 350 Greenwich St., New York 13, N.Y., 3, 6

Kotron Rectifier Corp., 54 Clark St., Newark 4, N.J., 3

Krohn Hite Instrument Co., 580 Massachusetts Ave., Cambridge, Mass., 0, 4, 7

Kulka Electric Mfg. Co., Inc., 633 S. Fulton Ave., Mt. Vernon, N.Y., 3, 6

Kupfrian Mfg. Co., 213 State St., Binghamton, N.Y., 6

Kurman Electric Co., Inc., 35-18 37 St., Long Island City 1, N.Y., 3

Kurz-Kasch, Inc., Dayton 1, Ohio, 6

Kuthe Laboratories, Inc., 730 S. 13 St., Newark, N.J., 3

Kwikheat Mfg. Co., 3732 San Fernando Rd., Glendale 4, Calif., 6

L. A. B. Corp., 31 Union Pl., Summit, N.J., 7

Laboratory for Electronics, Inc., 43 Leon St., Boston 15, Mass., 2, 4, 5, 6, 7
For details see ad on page 58

Lake Chemical Co., 3054 Carroll Ave., Chicago 12, Ill., 6
For details see ad on page 39

Lake Mfg. Co., 2325 Chestnut St., Oakland 7, Calif., 0

LaMagna Mfg. Co., Inc., 51 Clinton Pl., East Rutherford, N.J., 0, 3, 4, 5, 6

Lambda Electronics Corp., 103-02 Northern Blvd., Corona 68, N.Y., 3
For details see ad on page 141

La Moree, C. D., 1325 San Julian St., Los Angeles 15, Calif., 3, 6

Lampkin Labs., Inc., RFD 1, Bradenton, Fla., 7

Landis & Gyr, Inc., 45 W. 45 St., New York 36, N.Y., 6

Langevin Mfg. Corp., 37-43 W. 65 St., New York 23, N.Y., 0, 3, 4
For details see ad on page 74

Lansdale Tube Co., Lansdale, Pa., 3

Lansing Sound, Inc., James B., 2439 Fletcher Dr., Los Angeles 39, Calif., 0

LaPointe-Plascomold Corp., Canal Banks Windsor Locks, Conn., 1, 2, 3, 6

Lapp Insulator Co., Inc., LeRoy, N.Y., 3

LaRose & Associates, Inc., W. T., P.O. Box 55, Troy, N.Y., 3, 4

Laurehk Radio Mfg. Co., P.O. Box 430, Wayne, Mich., 0, 1

Lavoie Labs., Inc., Matawan-Freehold Rd Morganville, N.J., 2, 7
For details see ad on page 200

Lawton Products Co., Inc., 624 Madison Ave., New York 22, N.Y., 4, 6

Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif., 3

Lear, Inc., 110 Ionia Ave. N.W., Grand Rapids 2, Mich., 2, 4

Lectrohm, Inc., 5540 Northwest Highway, Chicago 30, Ill., 3

Lectrolord Corp., 240 Kent Ave., Brooklyn 11, N.Y., 6

Lectro Max, Inc., 15 South First St., Geneva, Ill., 3, 6

Lee Electric & Mfg. Co., 2809 Clearwater St., Los Angeles 39, Calif., 3

Lee Laboratories, Geneseo, Pa., 4, 5, 6

Leeds Engineering Co., 2038 Cropsey Ave., Brooklyn 14, N.Y., 3, 4, 6

Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa., 7

Lehigh Structural Steel Co., 17 Battery Pl., New York 4, N.Y., 1, 2
For details see ad on page 98

Lektra Labs., Inc., 154 Eleventh Ave., New York 11, N.Y., 3, 4, 7

Leland Electric Co., 1501 Webster St., Dayton 1, Ohio, 3

Leland, Inc., G. H., 123 Webster St., Dayton 2, Ohio, 3

Lenkurt Electric Co., 1105 County Rd., San Carlos, Calif., 0, 2, 3, 4, 7

Lenz Electric Mfg. Co., 1751 N. Western Ave., Chicago 47, Ill., 6
For details see ad on page 202

Leonard Electric Products Co., Inc., 67-34 St., Brooklyn 32, N.Y., 0, 2, 3, 5, 6

Lepel High Frequency Labs., Inc., 54-18 37 Ave., Woodside 77, N.Y., 4, 6
For details see ad on page 182

Lepores Laboratory, 732-736 Manton Ave., Providence 9, R.I., 6

Lerner Instrument & Electr. Mfg. Corp., 47 Bergen St., Brooklyn 2, N.Y., 3, 5, 6, 7
For details see ad on page 190

Lettine Radio Mfg. Co., 62 Berkley St., Valley Stream, N.Y., 2

Lewis & Kaufman, Inc., 980 El Rancho Ave., Los Gatos, Calif., 3

Lexington Audio Engineering Corp., 200 W. Third St., Lexington, Ky., 0

Liberty Electronics, Inc., 135 Liberty St., New York 6, N.Y., 3, 7

Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo., 0

Lindl Engineering Corp., Chas S., 447 South Blvd., Oak Park, Ill., 3

Lingo & Son, Inc., John E., 2814 Baren Ave., Camden 5, N.J., 1, 2

Linick Chemical Co., 59 E. Madison St., Chicago 3, Ill., 6

Link Aviation, Inc., Hillcrest, Binghamton, N.Y., 4

Lipps, Edwin A., 5485 W. Washington Blvd., Los Angeles 16, Calif., 0

Liston-Becker Instrument Co., Inc., 20 Beckley Ave., Stamford, Conn., 0

Littelfuse, Inc., 1865 Miner St., Des Plaines, Ill., 3
For details see ad on page 127

Little, Inc., Arthur D., Memorial Dr., Cambridge 42, Mass., 6

Litton Industries, 1005 Brittan Ave., San Carlos, Calif., 3, 6, 7

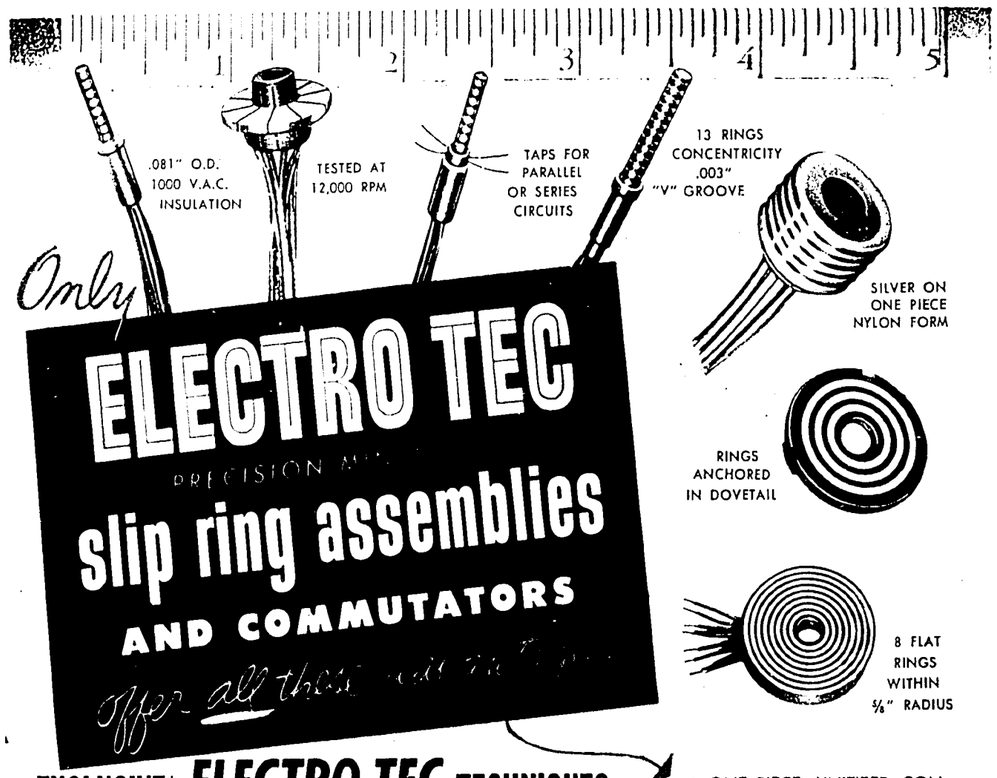
Loge, J. M., 2171 W. Washington Blvd., Los Angeles 18, Calif., 0

London Chemical Co., 325 W. 32 St., Chicago 16, Ill., 6

Long Engineering Co., Inc., 33 Burke St., Winston-Salem, N.C., 6

Long Inc., Thomas J., 123 Schermerhorn St., Brooklyn 2, N.Y., 6

Continued on page 40



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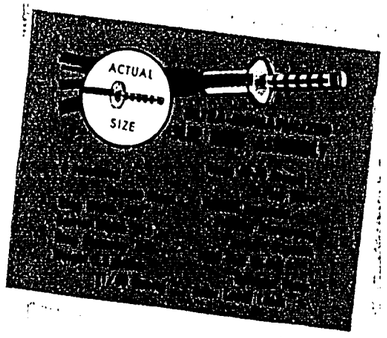
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	Page
0. Audio Equipment	73
1. Broadcasting	87
2. Communications	93
3. Components	101
4. Electronic Applications	177
5. Radar-Microwave	191
6. Services, Materials and Consultants	201
7. Test Equipment	251
8. Educational	275
9. Distribution	277

	Page
PINK SECTION gives guide to Products Index by products in the 10 Product Directories	i-viii
PART 2—Alphabetical List of Firms	3-72
PART 3 Product Directory in 10 Sections	73-295
PART 4 Complete Data Spreads	297-359
CATALOGS (Alphabetically)	360
Ad Indexes:	295 & Cover 3

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Magnetic Amplifiers, Inc., 685 Tinton Ave., New York 55, N.Y., 4

Magnetics, Inc., Box 391 Butler, Pa., 3

Makepeace Co., D. E., Pine & Dunham Sts., Attleboro, Mass., 3, 4

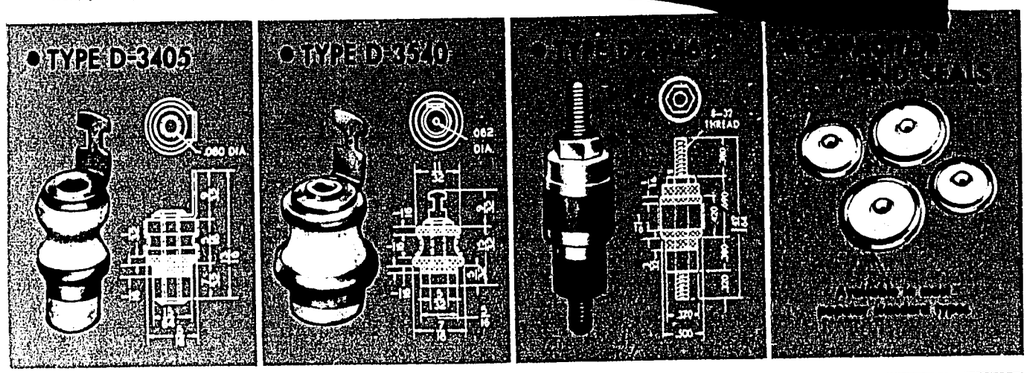
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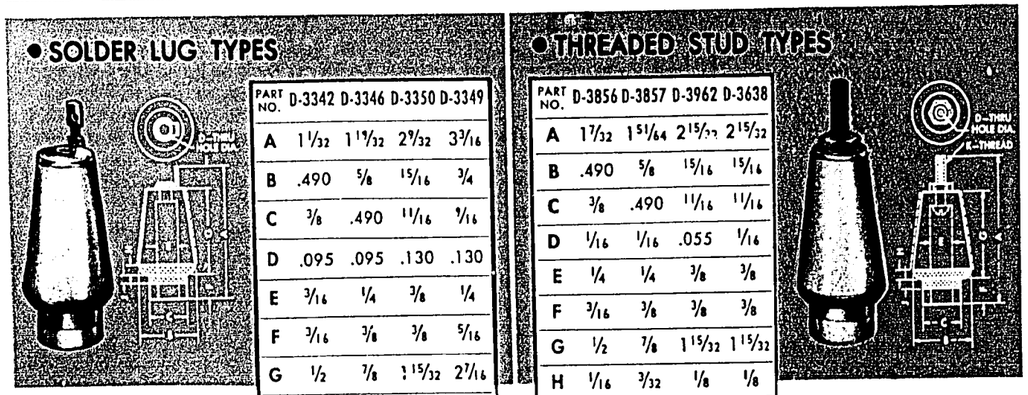
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D	.095	.095	.130	.130
E	3/16	1/4	3/8	1/4
F	3/16	3/8	3/8	5/16
G	1/2	7/8	1 15/32	2 7/16
H	1/16	3/32	1/8	1/8
J	3/32	1/8	1/8	1/8

PART NO.	D-3856	D-3857	D-3962	D-3638
A	1 7/32	1 51/64	2 15/32	2 15/32
B	.490	5/8	15/16	15/16
C	3/8	.490	11/16	11/16
D	1/16	1/16	.055	1/16
E	1/4	1/4	3/8	3/8
F	3/16	3/8	3/8	3/8
G	1/2	7/8	1 15/32	1 15/32
H	1/16	3/32	1/8	1/8
J	3/32	1/8	1/8	1/8
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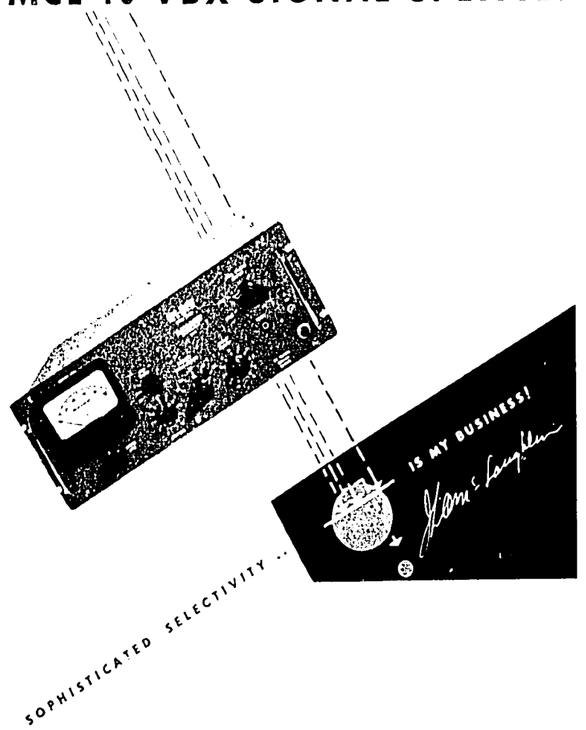
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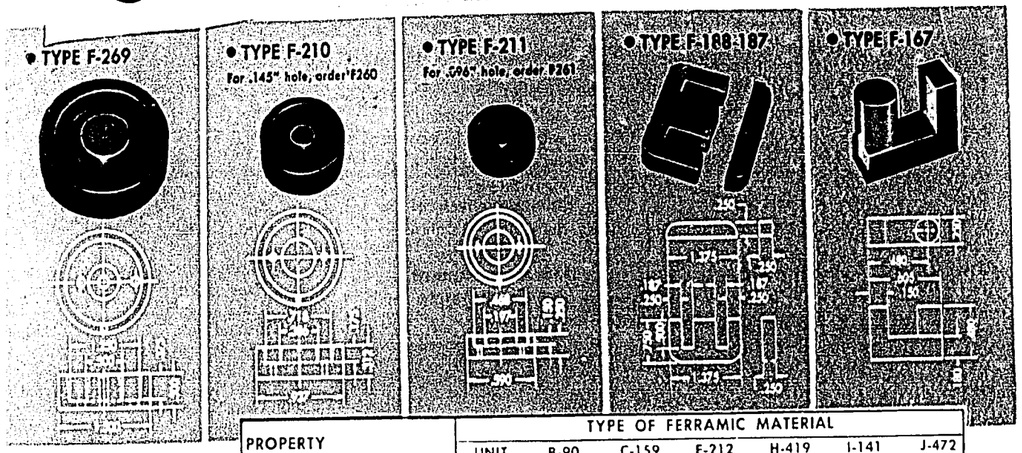
(Continued from page 41)

Marken Machine Co., 150 Congress St., Keene, N.H., 6
Marma Electronic Co., 765 Willow St., Chicago 14, Ill., 7
Marsh-Theiss, Inc., 356 New York Ave., Huntington, N.Y., 0, 2, 3, 4, 6, 7, 8
Martin & Co., H. S., 2916 Greenleaf St., Evanston, Ill., 3, 4, 6
Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md., 0, 2, 4, 5, 7
Massa Labs., Inc., 5 Hartler Rd., Hingham, Mass., 7
Massachusetts Trades Shops School, 100 Massachusetts Ave., Boston, Mass., 8
Master Appliances, Inc., 1900 Factory Ave., Marion, Ind., 7
Master Mobile Mounts, Inc., 1300 Bond St., Los Angeles 15, Calif., 1, 2, 3, 5
Mauer, Inc., J. V., 37-01 31 St., Long Island City 1, N.Y., 0
Maxson Corp., W. L., 460 W. 34 St., New York 1, N.Y., 3, 7
For details see ad on page 253
May, Donald M., 5055 Lankershim, North Hollywood, Calif., 3, 5, 6
McCarter Radio & Television Corp., 4084 West Eighth Ave., Vancouver 8, B.C., Canada, 2, 3, 5
McColpin Christie Corp., Ltd., 3410 W. 67 St., Los Angeles 43, Calif., 3
McCoy, Robert E., 501 302 Concord Bldg., Portland 4, Ore., 7
McCurdy Radio Industries, Ltd., 74 York St., Toronto 1, Canada, 0, 1
McDonnell Aircraft Corp., Lambert Field, Box 516, St. Louis 3, Mo., 1
McElroy Mfg. Corp., Newtown Rd., Littleton, Mass., 2, 3, 7
McGraw-Hill Book Co., Inc., 330 W. 42 St., New York 36, N.Y., 8
For details see ad on page 275
McIntosh Lab., Inc., 320 Water St., Binghamton, N.Y., 0
McKenna Technical Books, Inc., 382 Lexington Ave., New York 21, N.Y., 8
McLaughlin, J. L. A., P.O. Box 529, La Jolla, Calif., 1
For details see ad on page 43
McNary, James C., 906 National Press Bldg., Washington 4, D.C., 6
McNeal, J. D., 794 Quinnipiac Ave., New Haven 13, Conn., 2, 3, 4, 6, 7
McPhar Engineering Co. of Canada, 36 Cranfield Rd., Toronto, Ont., Canada, 4, 6
Measurement Engineering, Ltd., 232 John St., Arnprior, Ontario, Canada, 0, 1, 2, 3, 4, 5, 6, 7
Measurements Corp., Boonton, N.J., 0, 3, 6, 7
For details see ad on page 269, 338-9
Mederatt Electronic Corp., 41-41 24 St., Long Island City 1, N.Y., 4
Medico-Physical Labs. Registered, St. Bruno Co. Chambly, Quebec, Canada, 4, 6
Melco Products, Inc., 501 Fifth Ave. So., Minneapolis, Minn., 3
Melody Master Mfg. Co., 2100 Berwyn Ave., Chicago 25, Ill., 0
Melpar, Inc., 452 Swann Ave., Alexandria, Va., 0, 2, 3, 4, 5, 6
(Continued on page 44)

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CORES

General Ceramics' **FERRAMICS** are soft magnetic materials featuring:

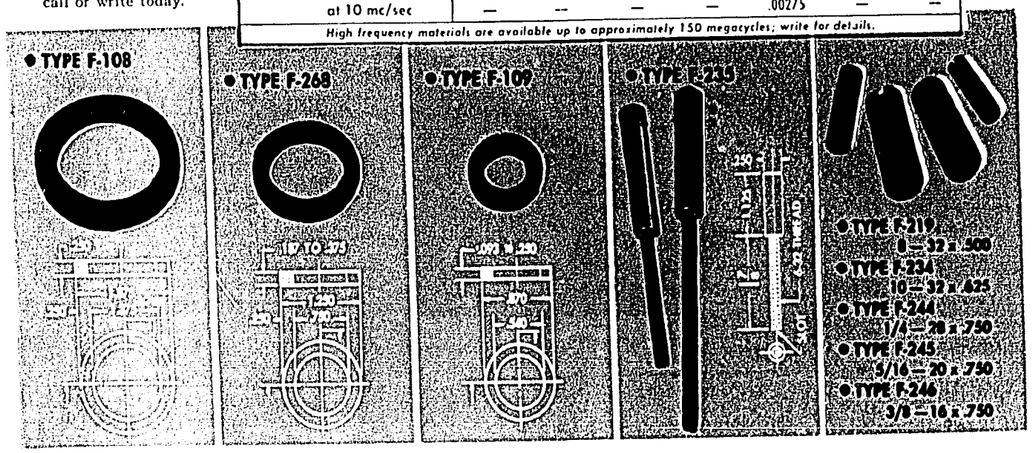
- HIGH PERMEABILITY
- HIGH VOLUME RESISTIVITY
- HIGH EFFICIENCY
- LIGHT WEIGHT
- ELIMINATION OF LAMINATIONS



Ferramics offer many important advantages as an electro-magnetic core material. The result has been wide adoption of this material in commercial and military electronic applications. We would welcome an opportunity to tell you how Ferramics can improve your components. For complete information call or write today.

PROPERTY	UNIT	TYPE OF FERRAMIC MATERIAL B-90	C-159	E-212	H-419	I-141	J-472
Initial permeability at 1mc/sec	—	95	250	750	850	900	330
Maximum permeability	—	183	1100	1710	4300	3000	750
Saturation flux density	Gauss	1900	4200	3800	3400	2000	2900
Residual magnetism	Gauss	830	2700	1950	1470	700	1600
Coercive force	Oersted	3.0	2.1	0.65	0.18	0.30	.80
Temperature coefficient of initial permeability	%/°C.	0.04	0.4	0.25	0.66	0.3	0.22
Curie point	°C.+	260	330	160	150	70	180
Volume resistivity	Ohm-cm	$2x10^5$	$2x10^3$	$4x10^5$	$1x10^4$	$2x10^5$	—
Loss Factor: at 1 mc/sec	--	.00016	.00007	.00008	.00030	.0003	.000055
at 5 mc/sec	—	.0011	.0008	.002	.00155	.005	—
at 10 mc/sec	—	--	—	—	.00275	—	—

High frequency materials are available up to approximately 150 megacycles; write for details.



GENERAL — STEATITE INSULATORS

General **CERAMICS AND STEATITE CORP.**

Telephone Perth Amboy 4-5100

GENERAL OFFICES and PLANT: KEASBEY, NEW JERSEY

MAKERS OF STEATITE, TITANATES, ZIRCON PORCELAIN, FERRAMICS, LIGHT DUTY REFRACTORIES, CHEMICAL STONEWARE, IMPERVIOUS GRAPHITE

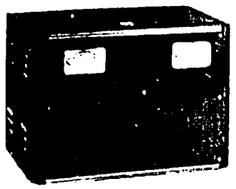
Mepco, Inc., 37 Abbett Ave., Morristown, N.J., 5
For details see ad on page 152
Merwood Corp., 4201 Belmont Ave., Chicago 41, Ill., 5
Mesaray Electronic Labs., Inc., 927 W. Kinzie St., Chicago 10, Ill., 5, 6
Metal Finishment Corp., 4427 N. Clark St., Chicago 40, Ill., 7
Metal Products Co., Cumberland St., Nashville 4, Tenn., 1, 3, 4, 5, 7
Metal Textile Corp., 647 E. First Ave., Roselle, N.J., 5, 6, 7
For details see ad on page 158
Metalcraft, Inc., 2525 Sixth St., Redwood City, Calif., 5, 6
Metallic Arts Co., 31 Union Sq. W., New York 3, N.Y., 5, 6
Metallic Products Corp., 150 Broadway, Cambridge 42, Mass., 5, 6
Metals & Controls Corp., 34 Forest St., Attleboro, Mass., 5
Metaplast Process, Inc., 9437 - 87 Ave., Long Island City 1, N.Y., 5
Meters, Inc., 5353 N. Keystone Ave., Indianapolis 20, Ind., 5, 7
Methode Mfg. Corp., 2021 W. Churchill St., Chicago 47, Ill., 3
For details see ad on page 156
Metlon Corp., 2161 Grand Concourse, New York 53, N.Y., 5
Metropolitan Electric & Instr. Corp., 166 Lafayette Ave., New York 13, N.Y., 3, 7
Metrotype Corp., 325 W. 25th St., Chicago 29, Ill., 4
Meyers, James G., 1056 Southern Ave., New York 59, N.Y., 1, 6, 7
Mica Condenser Co., 72 Murray St., New York 7, N.Y., 5
Mica Electronics Corp., Rockville Park, N.J., 5, 6
Mica Fabricators Association, 420 Lexington Ave., New York 17, N.Y., 6
For details see ad on page 145
Micaflex Corp., 5 Spring St., Ossining, N.Y., 5
Micamold Radio Corp., 1087-1099 Flushing Ave., Brooklyn 37, N.Y., 5
Micarta Fabricators, Inc., 615 N. Racine Ave., Chicago 22, Ill., 5
Michigan Electronics, Inc., 554 N. Birch St., East Lansing, Mich., 3, 4
Microcraft Corp., Cambridge Municipal Airport, Cambridge, Mass., 3, 4
Microdot, Inc., 220 Pasadena Ave., South Pasadena, Calif., 5
Micro Electronics Co., 1922 Hennepin Ave., Minneapolis 3, Minn., 3, 4
Microlab, 343 S. Belmont Ave., Springfield, N.J., 5, 6
Micromatic Hone Corp., 8100 Lyndale Ave. S., Minneapolis 20, Minn., 7
Micronic Mfg. Co., 1328 Broadway, Hewlett, N.Y., 5, 6
Microphase Corp., 1265 Main St., Buffalo 9, N.Y., 3, 4, 5
Microtran Co., Inc., Valley Forge Industrial Park, Valley Forge, Pa., 3, 4, 5
Microwave Associates, Inc., 22 Cummington St., Boston 15, Mass., 3, 7
For details see ad on page 154
Midle Research Labs., Worthington, Ohio, 4, 5, 7
Midwestern Dev. Labs., Inc., 220 Grove St., Waltham 54, Mass., 3
Midwestern Equipment Co., Inc., 196 Caldwell, N.J., 3
Mid-West Coil & Transformer Co., 1642 N. Halsted St., Chicago 14, Ill., 5
Midwest Radio & Television Corp., 909 Broadway, Cincinnati 2, Ohio, 3
Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 3, 5, 6, 7
Miller, M. S., 1475 S. Main St., Los Angeles 15, Calif., 5
Miller Mfg. Co., 1512 Pioneer Ave., Cedar Rapids, Iowa, 5
Millivac Instruments, Inc., 111 Seventh Ave., New York 11, N.Y., 4, 7
Milo Electronics Corp., 151 N. Michigan Ave., Chicago 1, Ill., 5
Milwaukee Resistor Co., 2501 S. 43rd St., Milwaukee 14, Wis., 5
Minaret Stamping Co., 22 St., Milwaukee 12, Wis., 5
Minerals & Chemicals Corp., 20 Pkwy., Park Ridge, N.J., 5, 6
Miniature Precision Bearings, Inc., Precision St., Keene, N.H., 5
Minneapolis Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis 8, Minn., 3, 4, 7
Minnesota Electronics Corp., 47 A Water St. S.E., East Minneapolis 14, Minn., 5
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn., 5
Minute Man Products, Inc., 40 Exchange St., New York 38, N.Y., 5
Mission Electric Mfg. Co., 1717 A Colorado, Pasadena, Calif., 3, 4
Missouri Research Labs., Inc., 3527 Locust St., St. Louis 3, Mo., 3, 4, 7
Mitchell Industries, Inc., P.O. Box 45, Mineral Wells, Texas, 5, 6
Mittelmann, Lincoln, 5100 W. Washington Blvd., Chicago 44, Ill., 4, 6
Model Engineering & Mfg., Inc., 2500 Milwaukee Ave., Chicago 18, Ill., 3
Model Rectifier Corp., 557 Rogers Ave., Brooklyn 25, N.Y., 3
For details see ad on page 45
Modelectric Products Corp., Asbury Park, N.J., 5
Molded Insulation Co., 335 E. Price St., Philadelphia 44, Pa., 5, 6
Molding Specialists, 52 John St., Yonkers, N.Y., 5
Mole Richardson Co., 937 N. Sycamore Ave., Hollywood 38, Calif., 6, 7
Moloney Electric Co., 5300 Bircher Blvd., St. Louis 20, Mo., 3
Monarch Mica Co., 203 Mayor Ave., Chicago 30, Ill., 5
Monitor Products Co., 815 Fremont Ave., Pasadena, Calif., 5
Monsanto Chemical Co., Springfield 2, Mass., 6
Monson Corp., 949 N. Michigan Ave., Chicago, Ill., 6, 7

Selenium Rectifier Power Units

D.C. POWER SUPPLIES

This unit is representative of one of the types we supply. The majority of D.C. power supplies we manufacture are designed to the exact requirements of the user, effecting maximum economy. Prompt delivery of units for your specific job. Thousands of our power supplies now in service attest to the quality and durability of our equipment.

Quotations Promptly Furnished.



MODEL SV-30-20

INPUT: 117V, 60 cycle, single phase

OUTPUT: 0-30 volts at 0-20 amps D.C.

CONTROLS: Powerstat, Heinemann magnetic circuit breaker, Klixon thermal circuit breaker, 4" rectangular voltmeter and ammeter accurate to 2% neon pilot light. 5 way binding posts for output.

SV-30-20 full wave rect. D.C.	$260.00
SF-30-20 3% ripple	$300.00
SA-30-20 0.4% ripple	$345.00

Power Conversion For

- Production and laboratory testing of D.C. apparatus from A.C. power lines, allowing continuous variation of D.C. voltage and current to simulate changing battery or line voltage conditions.
- Commercial operation of vibrator power packs, dynamotors, D.C. motors, relays and other devices which require D.C.
- Replacing storage or primary batteries.
- Battery charging.
- High current selenium rectifier plate power supplies.
- Life testing of battery operated equipment.

MODEL RECTIFIER CORPORATION
557 Rogers Ave., B'klyn 25, N. Y.

Only One Source gives you Double Duty TV!

When you invest in GPL TV *studio* equipment, you're buying *field* equipment as well. Every GPL unit provides unparalleled flexibility, light weight, easy handling, precise control. Let GPL engineer *your* station, from camera to antenna. Have *The Industry's Leading Line*—in *quality*, in *design*.

Highest Quality Studio Programming Resources—plus

GENERAL PRECISION LABORATORY INCORPORATED

Portable Packaging for Maximum Studio-Field Flexibility!



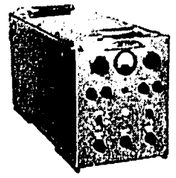
Camera Unit

Precision-built, lightweight, fast-handling. Push-button turret, remote iris control, remote focus and range selection. Easiest to service.



Camera Control Unit

Touch-identified controls. 8½" monitor tube. Split or single headphone intercom system. CRO views horizontal, vertical, and vertical sync block. Iris control.



Camera Power Unit

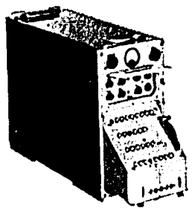
Rugged, dependable, compact. Matched to other units in GPL chain. Standard relay panels swing out for maintenance.



Synchronizing Generator

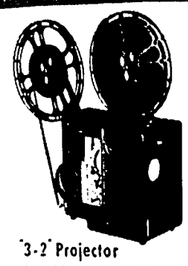
Affords maximum circuit reliability without operator adjustment. Binary counters and delay lines, stable master oscillator. Built-in power supply.

Complete TV Station Installations from Camera to Antenna



Video Switcher

Full studio flexibility anywhere. Control can view, preview, fade, dissolve, etc. Views any of 5 inputs, 2 remotes, outgoing line. Twin fade levers.



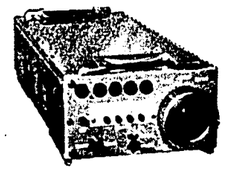
3-2 Projector

Portable sync unit. No need for special phasing facilities. Projects rear-screen or "direct in." Ideal for remote origination of film. Relieves load on Telecine.



Professional TV Projector

Highest quality 16-mm projector designed specifically for TV. Delivers 100 footcandles to tube. Sharp, steady pictures from 4000-foot film magazine.



Remote Control Box

Provides revolutionary remote control of camera focus, lens change, pan, tilt. Styled to match other components in the GPL TV line.

WRITE WIRE OR PHONE FOR DETAILS

GENERAL PRECISION LABORATORY INCORPORATED

General Precision Laboratory

INCORPORATED

PLEASANTVILLE NEW YORK

TV Camera Chains • TV Film Chains • TV Field and Studio Equipment • Theatre TV Equipment

(Continued from page 45)

Monument Eng. Co., Inc., 1625 Bellefontaine, Indianapolis 2, Ind., 3, 6
Morecroft, J. H., 2637 Pickens St., Montrose, Calif., 6, 0
Morrow Radio Mfg. Co., 1047 S. Commercial St., Salem, Ore., 1, 2, 7
Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass., 0, 3, 6
Mossman, Jr., Donald P., 84 W. Jefferson St., Joliet, Ill., 3
Motorola, Inc., 4545 Augusta Blvd., Chicago 51, Ill., 1, 2, 5
Motorola Research Lab., 3102 N. Ingleside Dr., Phoenix, Ariz., 2, 4, 5, 6
Moulic Specialties Co., 1105-7 W. Washington St., Bloomington, Ill., 0, 3, 7
Muckle Mfg. Co., U.S. Highways 65 & 218 North, Owatonna, Minn., 3
Mucon Corp., 9 St. Francis St., Newark 5, N.J., 3
Mueller Electric Co., 1583 E. 31 St., Cleveland 14, Ohio, 6
Muirhead & Co., Ltd., Beckenham, Elmer's End, Kent, England, 0, 3, 7
Mullard Overseas, Ltd., Century House, Shaftesbury Ave., London, W.C.2, England, 0, 1, 2, 3, 4, 7
Mullenbach Electrical Mfg. Co., 2300 E. 27 St., Los Angeles 58, Calif., 3
Multicore Sales Corp., 164 Duane St., New York 13, N.Y., 6
For details see ad on page 62
Multi-Metal Co., Inc., 1350 Garrison Ave., New York 58, N.Y., 3, 6, 7
Multi-Tron Laboratory, 4624 Washington Blvd., Chicago 44, Ill., 3, 4, 6, 7
Munston Mfg. & Service, Inc., Beech St., Islip, L.I., N.Y., 0, 2, 3, 6, 7
Murex, Ltd., Rainham, Essex, England, 3
Murray, Albert F., 4707 Windom Pl., Washington 16, D.C., 6
Mu-Switch Div., Acro Mfg. Co., 38 Pequit St., Canton, Mass., 3
Muter Co., 1255 S. Michigan Ave., Chicago 5, Ill., 3
Mycalex Corp. of America, Clifton Blvd., Clifton, N.J., 3, 4, 6
See complete catalog filed alphabetically in last section
Mycalex Corp. of America, 30 Rockefeller Plaza, New York 20, N.Y., 3
See complete catalog filed alphabetically in last section
Mycalex Tube Socket Corp., 30 Rockefeller Plaza, New York 20, N.Y., 3
See complete catalog filed alphabetically in last section
Mykroy, Inc., Wheeling & Hintz Rds., Wheeling, Ill., 6

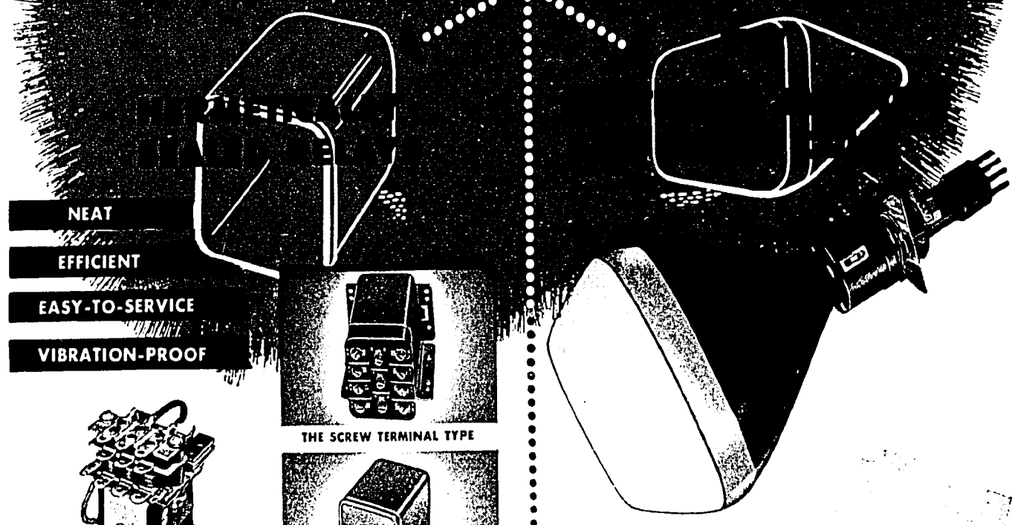
N. R. K. Mfg. & Eng. Co., 4601 W. Addison St., Chicago 41, Ill., 5
National Aeronautical Corp., 180 S. Main St., Ambler, Pa., 2
National Capacitor Co., 1828 Westminster St., Providence 9, R.I., 3
National Carbon Co., 30 E. 42 St., New York 17, N.Y., 3
National Carbon, Ltd., 805 Davenport Rd., Toronto 4, Ontario, Canada, 3
National Cine Equipment, Inc., 209 W. 48 St., New York 19, N.Y., 1, 3
National Co., Inc., 61 Sherman St., Malden 48, Mass., 0, 1, 2, 3, 5, 6
National Electric Controller Co., 5307 Ravenswood Ave., Chicago 40, Ill., 3
National Electronic Mfg. Corp., 42-08 Vernon Blvd., Long Island City 1, N.Y., 3
National Electronics, Inc., 628 North St., Geneva, Ill., 3, 6
National Electronics Labs., Inc., 1715 Kalorama Rd., N.W., Washington 9, D.C., 2, 6
National Inter-Communication Systems, Inc., 1130 N. Milwaukee, Chicago 22, Ill., 0
National Lead Co., 111 Broadway, New York 6, N.Y., 6
National Moldite Co., 1410 Chestnut Ave., Hillside 5, N.J., 3, 6
For details see ad on page 206
National Photocolor Corp., 305 E. 43 St., New York 17, N.Y., 3
National Radiator Co., 185 Bridge St., Johnstown, Pa., 3, 6
National Radio Institute, 16th & U Sts., N.W., Washington 9, D.C., 8
National Radio Research Labs., 74 W. 68 St., New York 23, N.Y., 0, 1, 6
National Research Corp., 70 Memorial Dr., Cambridge 42, Mass., 6, 7
National Union Radio Corp., 350 Scotland Rd., Orange, N.J., 3, 6
For details see ad on page 168
National Varnished Prods., 211 Randolph Ave., Woodbridge, N.J., 6
National Video Corp., 3019 W. 47 St., Chicago 32, Ill., 3
Nebel Lab., R. E., 1104 Lincoln Pl., Brooklyn 13, N.Y., 3
Neomatic, Inc., 9010 Bellanca, Los Angeles 45, Calif., 3, 4, 6
Neo-Sil Corp., 26 Cornelison Ave., Jersey City, N.J., 3, 6
New England Etching & Plating Co., Spring St., Holyoke, Mass., 3
New Hampshire Ball Bearings, Inc., 20 Grove St., Peterborough, N.H., 6
New Hermes Engraving Machine Corp., 13-19 University Pl., New York 3, N.Y., 6
New London Instrument Co., New London, Conn., 3, 4, 7
New Rochelle Tool Corp., 162 E. Main St., New Rochelle, N.Y., 3, 4
New York Testing Labs., Inc., 80 Washington St., New York 6, N.Y., 6
New York Transformer Co., Inc., Third Ave., Alpha, N.J., 3
Newark Electric Co., 223 W. Madison St., Chicago 6, Ill., 9
For details see ad on page 287
Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif., 0
Newton Scientific Co., 61 Pearl St., Newton 58, Mass., 0, 1
Ney Co., The J. M., 71 Elm St., Hartford 1, Conn., 3, 6
For details see ad on page 228
Nichols, Ltd., R. H., 2781 Dufferia St., Toronto 10, Ontario, Canada, 3, 4, 6, 7
Nize Mfg. Co., Inc., 550 Westchester Ave., New York 55, N.Y., 3
Noesting Pin Ticket Co., Inc., 728 E. 136 St., New York 54, N.Y., 6
Nonotuck Mfg. Co., Water St., Holyoke, Mass., 6
Norrman Labs., Ernst, Williams Bay, Wis., 7
For details see ad on page 261
North American Philips Co., Inc., 100 E. 42 St., New York 17, N.Y., 3, 6, 7
North American Philips Co., Inc., 750 S. Fulton Ave., Mt. Vernon, N.Y., 0, 2, 3, 4, 5
North Electric Mfg. Co., South Market St., Galion, Ohio, 0, 2, 3, 4, 7
North Hills Electric Co., Box 427, Great Neck, L.I., N.Y., 3
Northeastern Engineering, Inc., Manchester, N.H., 6
Northern Electr. & Vacuum Ind., St. Sauveur des Monts., Quebec, Canada, 3, 4, 6, 7
Northern Radio Co., Inc., 145 W. 22 St., New York 11, N.Y., 2
For details see ad on page 340-1
Northern Radio Co., 314 Bell St., Seattle 1, Wash., 2
Northern-Zal, Ltd., Pratt Oval, Glen Cove, N.Y., 7
Northwest Radio Cons. Service, 1551 Hansen Ave., Burley, Idaho, 6
Nuclear Development Lab., P.O. Box 7034, Kansas City, Mo., 3, 4, 7
Nuclear Instrument & Chem. Corp., 223 W. Erie St., Chicago 10, Ill., 4, 7
Nuclear Research Corp., 2563 Grays Ave., Philadelphia 46, Pa., 3, 4, 7
Nuclear Research & Dev., Inc., 1094 Sutter, St. Louis 5, Mo., 4, 7
Nucleonic Co. of America, 497 Union St., Brooklyn 31, N.Y., 3, 4, 7
Nukem Products Corp., 111 Colgate Ave., Buffalo 20, N.Y., 6
Numberall Stamp & Tool Co., Huguenot Park, Staten Island 12, N.Y., 6

Oak Electronics Co., 144-164 Oak St., Buffalo 3, N.Y., 1, 3, 7
Oak Mfg. Co., 1260 Clybourn Ave., Chicago 10, Ill., 1, 3
Oak Ridge Prods. Div. of Video TV, 37-01 Vernon Blvd., Long Island City 1, N.Y., 3, 7
Oberline, Ltd., P.O. Box 921, Beverly Hills, Calif., 0, 1, 6
Offner Electronics, Inc., 5320 N. Kedzie, Chicago 25, Ill., 0, 4, 7
Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio, 3, 6
Ohmega Labs., Inc., 14 Maple Ave., Pine Brook, N.J., 4, 7
For details see ad on page 271
Ohmite Mfg. Co., 4835 W. Flournoy St., Chicago 44, Ill., 0, 3, 7
Ohmweve Co., 43 Darcy St., West Hartford 6, Conn., 3
Oiljak Mfg. Co., Inc., 18 Depot Square, Montclair, N.J., 3, 5, 6
Okonite Co., Passaic, N.J., 6
Olin Industries, Inc., 275 Winchester Ave., New Haven 4, Conn., 3
Olson & Lipps, 5485 W. Washington Blvd., Los Angeles 19, Calif., 0
Olympic Metal Products Co., Inc., Box 71, Phillipsburg, N.J., 3, 6
Olympic Radio & Television, Inc., 34-01 38 Ave., Long Island City 1, N.Y., 1
O'Neil-Irwin Mfg. Co., Lake City, Minn., 6
Opad-Green Co., 71-8 Warren St., New York 7, N.Y., 3
Oppenheimer, Inc., Alan D., 578 Exchange St., Buffalo 6, N.Y., 6
Optical Film Engineering Co., 2737 N. Sixth St., Philadelphia 33, Pa., 3, 6
For details see ad on page 243

(Continued on page 49)

Numbers after address refer to Product Directories in which firm is listed: 0—Audio, 1—Broadcasting, 2—Communications, 3—Components, 4—Electronic Equip., 5—Radar, 6—Services & Materials, 7—Test Equip., 8—Educational, 9—Distribution.

ELECTRONIC ENGINEERS
GUARDIAN



SERIES 335 RELAY

THE SCREW TERMINAL TYPE

THE A. N. CONNECTOR TYPE

SERIES 595 RELAY

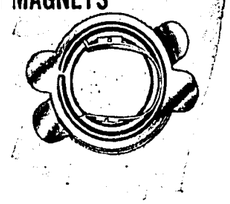
THE OCTAL PLUG TYPE

SERIES 610 AC—615 DC RELAY

THE LUG HEADER TYPE

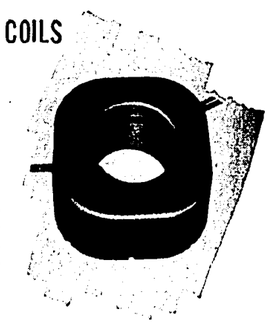
Valuable information on HERMETICALLY SEALED Guardian Relays is yours for the asking. Write on your business letterhead for new completely descriptive and illustrated Catalog 5-H. No cost. No obligation.

GUARDIAN CENTERING MAGNETS



The Guardian Centering Magnet compensates magnetically for any misalignment of the electronic beam or the focus coil assembly. Eliminates manual adjustment of the raster.

GUARDIAN FOCUS COILS



Over a million Focus Coils have rolled off Guardian's production lines into TV sets of leading manufacturers. With more than 75 types established as *Guardian Standard*, speedy delivery to meet today's replacement needs is a matter of routine.

Write— ASK US TO MAKE SPECIFIC RECOMMENDATIONS. NO OBLIGATION.

GUARDIAN ELECTRIC

1621-BG-2 W. WALNUT STREET CHICAGO 12, ILLINOIS

A COMPLETE LINE OF RELAYS SERVING AMERICAN INDUSTRY

(Continued from page 47)

Optionic Research, Inc., 1374 Massachusetts Ave., Cambridge 38, Mass., 6

Oregon Electronic Mfg. Co., 2232 E. Burnside St., Portland 15, Ore., 3, 6
For details see ad on page 49

Orradio Industries, Inc., T-120 Marvyn Rd., Opelika, Ala., 0

Orthon Corp., 198 Albion Ave., Paterson 2, N.J., 0, 1, 3, 4
For details see ad on page 127

Osborne Transformer Corp., 948 E. Lafayette Ave., Detroit 7, Mich., 3

Oster Mfg. Co., John, 1 Main St., Racine, Wis., 3, 4

Owen Laboratories, 412 Woodward Blvd., Pasadena 10, Calif., 3, 6

Oxford Electric Corp., 3911 S. Michigan Ave., Chicago 15, Ill., 0, 3

Oxford University Press, Inc., 114 Fifth Ave., New York 11, N.Y., 8

P. C. A., Inc., 6368 Delongpre Ave., Hollywood 28, Calif., 3, 6

P. M. Industries, Inc., 280 Fairfield Ave., Stamford, Conn., 3, 6

P. S. C. Applied Research, Ltd., 1450 O'Connor Dr., Toronto, Ont., Canada, 3, 4, 5, 6

Pacific Transducer Corp., 11921 W. Pico Blvd., Los Angeles 64, Calif., 0, 7

Packard-Bell Co., 12333 W. Olympic Blvd., Los Angeles 64, Calif., 0, 1

Paillard Products, Inc., 265 Madison Ave., New York 16, N.Y., 3

Painton & Co., Ltd., Kingsthorpe, Northampton, England, 0, 3, 6

Paisley Prod., Inc., 1770 Canalport Ave., Chicago 16, Ill., 6

Palnut Co., 94 Cordier St., Irvington 11, N.J. 6

Palo Alto Physicists, P.O. Box 1059, Palo Alto, Calif., 6

Pancro Mirrors, Inc., 2958 Los Feliz Blvd., Los Angeles 39, Calif., 3, 6

Panoramic Radio Products, Inc., 10 South Second Ave., Mount Vernon, N.Y., 1, 2, 3, 4, 7
For details see ad on page 252

Paramount Paper Tube Corp., 614 S. Lafayette St., Fort Wayne 2, Ind., 3, 6

Paravox, Inc., 2056 E. Fourth St., Cleveland 15, Ohio, 0, 6, 9

Park Armature Co., 883 Boylston St., Boston 16, Mass., 3, 4, 6, 7

Parker, Inc., G. L., 1 Waterman Ave., East Providence 14, R.I., 4

Par-Metal Products Corp., 32-62 49 St., Long Island City 3, N.Y., 3
For details see ad on page 105

Partridge Transformers, Ltd., Roebuck Rd., Tolworth, Surrey, England, 3

Patterson, Moos, & Co., Inc., 32-36 47 Ave., Long Island City 1, N.Y., 0, 1, 3

Pearl Engineering, 6223 Browning Rd., Merchantville 10, N.J., 3, 4, 7

Pedersen Electronics, Box 572, Lafayette, Calif., 0, 1

Peeco Corp., 2760 Whittier Blvd., Los Angeles 23, Calif., 4

Peerless Products Industries, 812 N. Pulaski Rd., Chicago 51, Ill., 2, 3, 6

Peerless Roll Leaf Co., Inc., 4511 New York Ave., Union City, N.J., 6

Penn, William D., 2610 Fairmount, Dallas 4, Texas, 6

Penn Technical Institute, 5440 Penn Ave., Pittsburgh 6, Pa., 8

Pennsylvania Testing Lab., Doylestown, Pa., 3, 4, 7

Pentron Corp., 221 E. Cullerton, Chicago 16, Ill., 0, 1, 3

Perfection Electric Co., 2635 S. Wabash Ave., Chicago 16, Ill., 0, 3

Perkin-Elmer Corp., Main Ave., Norwalk, Conn., 0, 3, 4, 6

Perkin Engineering Corp., 345 Kansas St., El Segundo, Calif., 3
For details see ad on page 141

Permo, Inc., 6415 Ravenswood Ave., Chicago 26, Ill., 0

Permoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill., 0, 3

Peters Chemical Mfg. Co., 3623 Lake St., Melrose Park, Ill., 6

Petty Labs., Inc., 317 Sixth St., San Antonio 6, Texas, 0, 2, 4, 6, 7

Pfanstiehl Chemical Co., 104 Lakeview Ave., Waukegan, Ill., 0, 6

Phalo Plastics Corp., 25 Foster St., Worcester 8, Mass., 6

Phaostron Co., 151 Pasadena Ave., South Pasadena, Calif., 3, 7
For details see ad on page 356-7

Phelps Precision Lab., 4232 Scott Terr., Minneapolis 16, Minn., 4

Pheoll Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill., 6

Philamon Labs., 5717 Third Ave., Brooklyn 20, N.Y., 7

Philbrick Researches, Inc., Geo. A., 230 Congress St., Boston 10, Mass., 3, 4, 6

Philco Corp., Tioga & C Sts., Philadelphia 34, Pa., 1, 2, 3, 4, 5, 7, 8

Philips Industries, Leaside, Toronto, Canada, 0, 1, 2, 3

Phillips Control Corp., 84 W. Jefferson St., Joliet, Ill., 3

Phillips & Hiss Co., Inc., 1155 N. McCadden Pl., Los Angeles 38, Calif., 6
For details see ad on page 245

Phillips Petroleum Co., Bartlesville, Okla., 0, 3, 4

Philmore Mfg. Co., Inc., 113 University Pl., New York 3, N.Y., 0, 1, 2, 3

Philson Mfg. Co., Inc., 60-60 Sackett St., Brooklyn 31, N.Y., 1, 2, 3, 5

Phonograph Corp. of America, 55 W. 42 St., New York 36, N.Y., 0, 1

Phosphor Bronze Corp., 20 Franklin St., Seymour, Conn., 6

Photo Chemical Products, Inc., 22-78 35 St., Long Island City 5, N.Y., 6

Photobell Co., 116 Nassau St., New York 38, N.Y., 3, 4, 6, 7

Photocircuits Corp., New St., Glen Cove, N.Y., 3

Photographic Products, Inc., 6916 Romaine St., Hollywood 38, Calif., 7

Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass., 4

Photron Instrument Co., 6316 Detroit Ave., Cleveland 2, Ohio, 0, 4, 7

Pickard & Burns, Inc., 240 Highland Ave., Needham 94, Mass., 0, 1, 4, 5, 6, 7

Pickering & Co., Inc., 309 Woods Ave., Oceanside, L.I., N.Y., 0, 3, 6, 7
For details see ad on page 83

Piezo Products Co., Whitney St., Framingham, Mass., 6, 7

(Continued on page 51)

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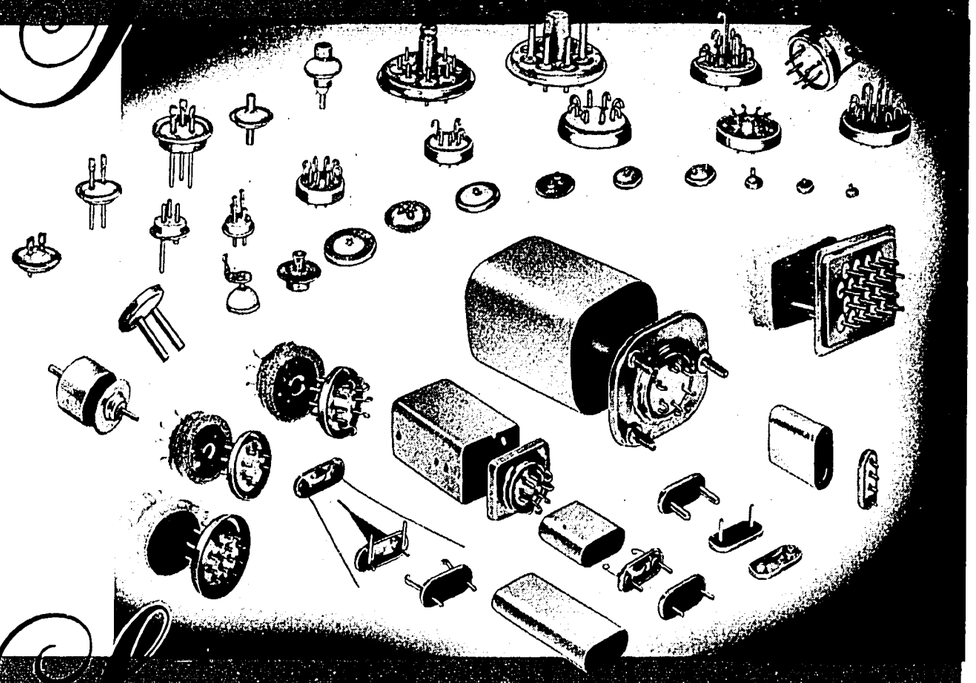
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Pioneer Electronics Corp., 2232 Broadway, Santa Monica, Calif., 3

Pitman Publishing Corp., 2 W. 45 St., New York 19, N.Y., 8

Pittsburgh Plate Glass Co., 2000 Grant Bldg., Pittsburgh 19, Pa., 6

Pix Mfg. Co., Inc., 22 Bedford St., Newark 3, N.J., 6
For details see ad on page 215

Planet Mfg. Corp., 225 Belleville Ave., Bloomfield, N.J., 3
For details see ad on page 108

Plaskon Division, 2112-24 Sylvan, Toledo 6, Ohio, 6

Plastic Accessories, Inc., 93 Mercer St., New York 12, N.Y., 6

Plastic Fabricators Co., 440 Sansome St., San Francisco 11, Calif., 0, 3, 6

Plastic Manufacturers, Inc., Stamford, Conn., 3, 6

Plastic Metals Div., Nat'l Radiator, 185 Bridge St., Johnstown, Pa., 6

Plastic Process Co., Inc., 662 N. Robertson Blvd., Los Angeles 46, Calif., 6

Plastics & Electronics Corp., P.O. Box 38, Station J, Buffalo 8, N.Y., 1, 2, 3, 7

Plastoid Corp., 20 Mill Rd., Hamburg, N.J., 6
For details see ad on page 30

Plax Corp., P.O. Box 1019, Hartford, Conn., 6

Plessey Co., Ltd., Vicarage Lane, Ilford, Essex, England, 0, 1, 2, 3, 4, 5, 6, 7

Poinsettia, Inc., 112 Cedar Ave., Pitman, N.J., 6

Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N.Y., 1, 7

Polydoroff & Assoc., W. J., 927 15 St., Washington, D.C., 0, 2, 3, 6

Polymer Corp. of Pennsylvania, 126 N. Fifth St., Reading, Pa., 3, 6

Polyphase Instrument Co., 765 Haverford Rd., Bryn Mawr, Pa., 0, 3, 4, 7

Polytech Devices, Inc., 1180 E. Grand St., Elizabeth, N.J., 3, 6

Polytechnic Res. & Dev. Co., Inc., 55 Johnson St., Brooklyn 1, N.Y., 7
For details see ad on page 314-5

Polytron Corp., 47 Martine Ave., White Plains, N.Y., 3, 5

Polytronics Co., 582 Bathurst St., Toronto 4, Ontario, Canada, 3, 6, 7

Ponn Machine Cutting Co., 25 Curve St., Boston 11, Mass., 6
For details see ad on page 216

Porcelain Products, Inc., P.O. Box 300, Findlay, Ohio, 3, 6

Porter Mfg. Co., 228 N. Clinton St., Chicago 6, Ill., 3

Ports Mfg. Co., 3265 Belmont Ave., Fresno 2, Calif., 6

Potter & Brumfield, Princeton, Ind., 3
For details see ad on page 146

Potter Co., 1950 Sheridan Rd., North Chicago, Ill., 0, 3

Potter Instrument Co., Inc., 115 Cutter Mill Rd., Great Neck, L.I., N.Y., 1, 4, 6, 7
For details see ad on page 179

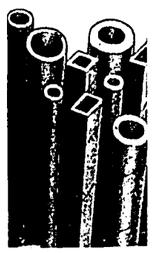
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Powell, Harold H., 2102 Market St., Philadelphia 3, Pa., 3

Power Transformer Co., 21 Lewis St., Newark, N.J., 3

Precise Development Corp., 999 Long Beach Rd., Oceanside, L.I., N.Y., 3, 7
For details see ad on page 256

Precise Measurements Co., 942 Kings Highway, Brooklyn 23, N.Y., 3, 6, 7
For details see ad on page 245

Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, L.I., N.Y., 3, 7
For details see ad on page 268

Precision Electronics, Inc., 643-641 Milwaukee Ave., Chicago 22, Ill., 0, 7

Precision Film Labs., 21 W. 46 St., New York 36, N.Y., 0

Precision Metal Products Co., 41 Elm St., Stoneham, Mass., 6

Precision Paper Tube Co., 2035 W. Charleston St., Chicago 47, Ill., 6
For details see ad on page 51

Precision Piezo Service, 427 Mayflower St., Baton Rouge 10, La., 3

Precision Radiation Instruments, 4113 W. Jefferson Blvd., Los Angeles 16, Calif., 4, 7

Precision Rectifier Corp., 197 Grand St., Brooklyn 11, N.Y., 3, 6

Precision Resistor Co., Inc., 334 Badger Ave., Newark 8, N.J., 3

Precision Tube Co., Inc., Wissahickon Ave. & Church Rd., North Wales, Pa., 6

Preis Engraving Machine Co., 651 State Highway 29, Hillside 5, N.J., 6

Preisman, Albert, 616 St. Andrews Lane, Silver Spring, Md., 6

Preisman & Biser, 3304 14 St., N.W., Washington 10, D.C., 8

Premax Products Div., Highland & College Aves., Niagara Falls, N.Y., 2, 3

Premier Instrument Corp., 52 W. Houston St., New York 12, N.Y., 5

Premier Metal Etching Co., 21-03 44 Ave., Long Island City 1, N.Y., 3, 6

Premier Metal Products Co., 3160 Webster Ave., New York 67, N.Y., 3
For details see ad on page 109

Premice-Hall, Inc., 70 Fifth Ave., New York 11, N.Y., 8

Press Wireless Mfg. Co., Hicksville, N.Y., 0, 1, 2, 3, 4, 5, 6

Presto Electric Co., Inc., 600 Fulton St., Elizabeth, N.J., 0, 3, 4

Presto Recording Corp., Box 500, Hackensack, N.J., 0

Price Electric Corp., Church & Second Sts., Frederick, Md., 3

Printloid, Inc., 93 Mercer St., New York 12, N.Y., 6

Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N.Y., 0, 3, 4, 6, 7

Product Development Co., Inc., 307 Bergen Ave., Kearny, N.J., 1, 2, 3, 5, 6
For details see ad on page 193

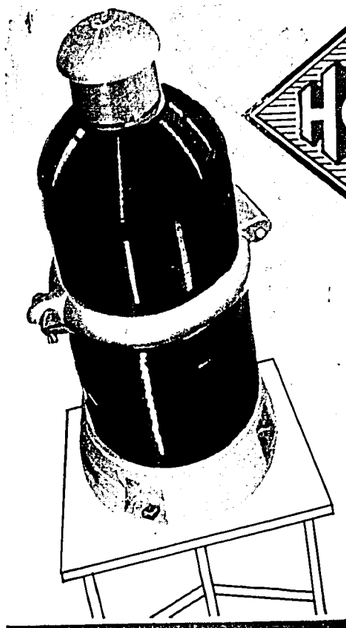
Production Tool & Fixture Co., 37 W. Main St., Oyster Bay, L.I., N.Y., 6
For details see ad on page 244

Production Engineering Corp., 173 Sargeant Ave., Clifton, N.J., 6

Professional Electronics Co., 180 E. California St., Pasadena 1, Calif., 0, 3, 4, 7

Progressive Electronics Co., Inc., 130 Eighth St., Passaic, N.J., 4

(Continued on page 53)

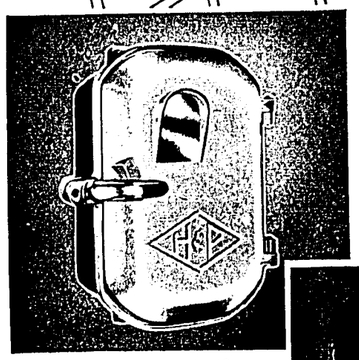


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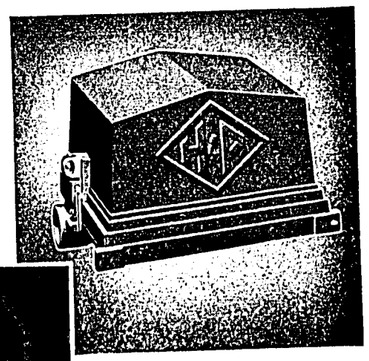


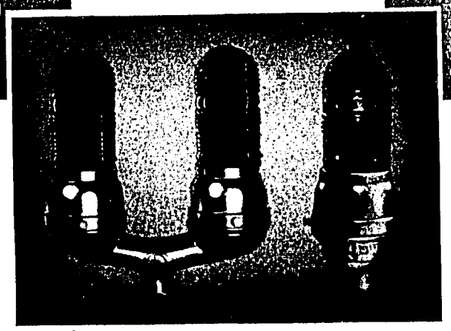
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"PECA" Series Photo-Electric Control

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Single and double Obstruction Lights below

Bases ruggedly constructed of heavy aluminum alloy castings. Precision machining insures proper light center when used with specified lamp. Prismatic globes meet CAA light specifications. Relamping accomplished without removing prismatic globes. Mounting base designed for standard A-21 traffic signal lamps.





***above* SF-30-E**
Mercury Code Flasher

Models available for any loads. Compact, spray-tight and drip-proof cast aluminum housing mountable on vertical OR horizontal member. Heavy-duty, self-starting, constant-speed synchronous timing motor is unaffected by extreme temperature and voltage ambients. Positive-acting ELECTRONIC fail-safe circuit guards against failure of ANY component.

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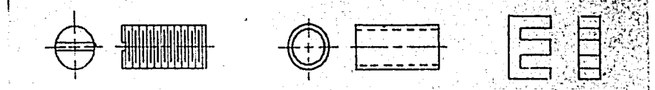
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9540-50 Tulley Avenue Oak Lawn, Illinois

Alphabetical Directory

(Continued from page 51)

Progressive Machine Co., 293 Hudson St., Hackensack, N.J., 6

Publishers' Authorized Binding Service, 308 W. Randolph St., Chicago 6, Ill., 8
For details see ad on page 55

Pye, Ltd., Radio Works, Cambridge, England, 0, 1, 2, 3, 4, 5, 7

Pyramid Electric Co., 1445 Hudson Blvd., North Bergen, N.J., 3

Pyramid Instrument Corp., 630 Merrick Rd., Lynbrook, N.Y., 3

Pyroferric Co., 621 E. 216 St., Bronx 67, N.Y., 3

Q. L. C. Corp., 10 Aubrey St., Summit, N.J., 3

Quality Components, Inc., St. Mary's, Pa., 3, 6

Quam-Nichols Co., 526 E. 33 Pl., Chicago 16, Ill., 0, 3
For details see ad on page 81

Quick, Howard L., 919 N. Michigan Ave., Chicago 11, Ill., 6

R. B. M. Div., Essex Wire Corp., Logansport, Ind., 3

R-C Scientific Instr. Co., Inc., 335 Culver Blvd., Playa Del Rey, Calif., 4, 5, 7

R. E. F. Mfg. Corp., 393 Jericho Turnpike, Mineola, N.Y., 3, 6

R. K. Mfg. Co., P.O. Box 112, Marion, Ill., 0, 3

R.K.L. Electro Winding Corp., 15 Grove St., Delevan, N.Y., 3

Racon Electric Co., Inc., 52 E. 19 St., New York 3, N.Y., 0

Radelco Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio, 2, 3

Radex Corp., 2076 Elston Ave., Chicago 14, Ill., 3, 4, 7

Radiart Corp., 3455 Vega Ave., Cleveland 13, Ohio, 1, 3

Radiation Counter Labs., Inc., 5122 W. Grove St., Skokie, Ill., 3, 4, 6, 7

Radiation, Inc., Melbourne, Fla., 7

Radiation Research Corp., 526-528 Northwood Rd., West Palm Beach, Fla., 4, 6, 7

Radio City Products Co., Inc., 152 W. 25 St., New York 1, N.Y., 3, 6, 7

Radio Communication, The Publishing House, Great Barrington, Mass., 8

Radio Components, Ltd., 560 King St. West, Toronto, Ontario, Canada, 3

Radio Condenser Co., Copewood St., Camden, N.J., 1, 3

Radio Cores, Inc., 9540 Tulley Ave., Oaklawn, Ill., 3, 6
For details see ad on page 53

Radio Corp. of America Labs., 711 Fifth Ave., New York 22, N.Y., 6
For details see ad on page 64, 294, 346-7

R. C. A. Victor Division, Camden 2, N.J., 0, 1, 2, 3, 4, 5, 6, 7, 8
For details see ad on p. 64, 294, 346-7

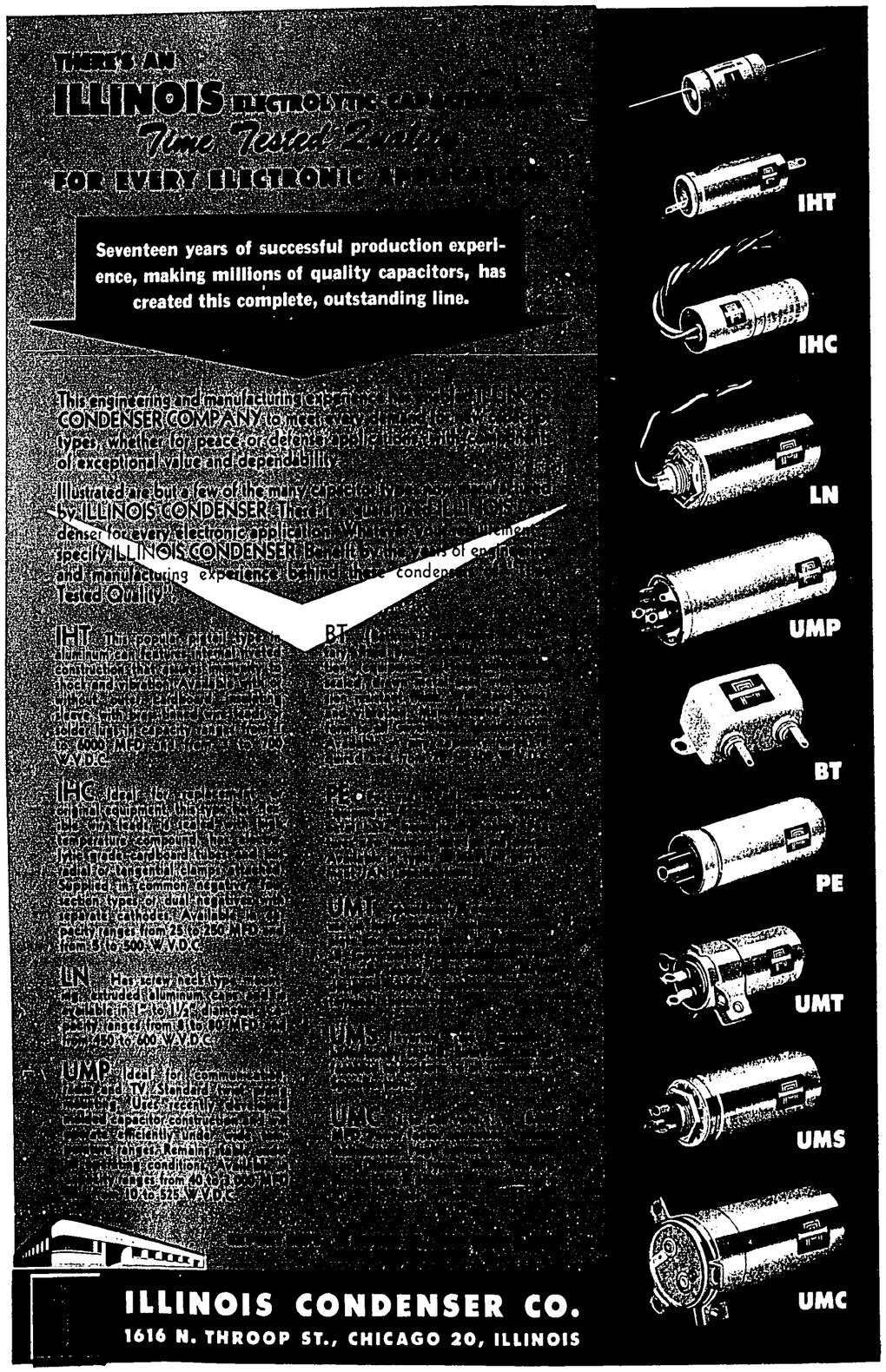
R. C. A. Tube Dept., 415 South Fifth St., Harrison, N.J., 0, 3, 6, 7
For details see ad on page 346-7

R. C. A. Institutes, Inc., 350 West 4 St., New York 7, N.Y., 8
For details see ad on p. 64, 294, 346-7

R. C. A. Review, R. C. A. Lab. Div., Princeton, N.J., 8
For details see ad on p. 64, 294, 346-7

(Continued on page 55)

Numbers after address refer to Product Directories in which firm is listed: 0—Audio, 1—Broadcasting, 2—Communications, 3—Components, 4—Electronic Equip., 5—Radar, 6—Services & Materials, 7—Test Equip., 8—Educational, 9—Distribution.



(continued from page 52)

Radio Craftsmen, Inc., 4401 N. Ravenswood Ave., Chicago 40, Ill., 0, 1
Radio Development & Research Corp., 26 Cornelison Ave., Jersey City 4, N.J., 0, 1, 2, 3, 6, 7
Radio-Electronic Engineering, 366 Madison Ave., New York 17, N.Y., 8
Radio Electronics Magazine, 25 W. Broadway, New York 7, N.Y., 8
Radio Engineering Lab., Inc., 36-40 37 St., Long Island City 1, N.Y., 1, 2, 5
Radio Engineering Co., 8 State St., New York 4, N.Y., 6
Radio Engineering & Maintenance, 208 W. Third St., Lexington, Ky., 1, 6
Radio Engineering Products, Ltd., 4305 Iberville St., Montreal 34, Canada, 0, 2, 3
Radio Essentials, Inc., 152 MacQuesten Pkwy. S., Mt. Vernon, N.Y., 0, 1, 2, 3, 6
For details see ad on page 288
Radio Hispano Suiza S. A., V, 93 Paseo de Gracia, Barcelona, Spain, 0, 1, 3
Radio Industries Corp., 1 East 57 St., New York 22, N.Y., 1, 3, 6
Radio Industries, Inc., 5225 N. Ravenswood Ave., Chicago 25, Ill., 3, 5
Radio Instrument Labs., 1205 Summer Pl., Fair Lawn, N.J., 6
Radio Kits, Inc., 120 Cedar St., New York 6, N.Y., 1, 3, 7
Radio Labs., Inc., 1846 Westlake, North Seattle 9, Wash., 0, 2
Radio Magazines, Inc., 342 Madison Ave., New York 17, N.Y., 8
Radio Mfg. Engineering, Inc., 304 First Ave., Peoria 6, Ill., 2
Radio Materials Corp., 3325 N. California Ave., Chicago 18, Ill., 3
For details see ad on page 350-1
Radio Merchandise Sales, Inc., 1105 Southern Blvd., New York 59, N.Y., 2, 3, 5, 6
Radio Receptor Co., Inc., 251 W. 19 St., New York 11, N.Y., 2, 3, 4
For details see ad on page 143
Radio Sonic Corp., 186 Union Ave., New Rochelle, N.Y., 3, 6, 7
Radio Specialty Mfg. Co., 2025 S.E. 6 Ave., Portland 14, Ore., 2, 3,
Radio Sup. & Eng. Co., Inc., 85 Selden Ave., Detroit 1, Mich., 7
Radio & TV News, 366 Madison Ave., New York 17, N.Y., 8
Radio Transceiver Labs., 123-10 Jamaica Ave., Richmond Hill 18, N.Y., 2
Radio Valve Co. of Canada, Ltd., 189 Dufferin St., Toronto, Ont., Canada, 3, 6
Radio Wire Mfg. Corp., New Augusta, Ind., 6
Radioactive Products, Inc., 443 W. Congress St., Detroit 26, Mich., 4, 7
Radiomarine Corp. of America, 75 Varick St., New York 10, N.Y., 1, 2, 5, 6
Rahm Instruments, Inc., 12 W. Broadway, New York 7, N.Y., 4
Ram Electronics, Inc., S. Buckhout St., Irvington, N.Y., 3
Rangertone, Inc., 73 Winthrop St., Newark 4, N.J., 0

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Rauland Borg Corp., 3515 W. Addison St., Chicago, Ill., 0
Rauland Corp., 4245 N. Knox Ave., Chicago 41, Ill., 3
Rawson Elec. Instr., 118 Potter St., Cambridge 42, Mass., 3, 7
Raymond Engineering Lab., Inc., Smith St., Middletown, Conn., 6
Raymond Mfg. Co., Div., 226 S. Center St., Corry, Pa., 6
Ray-O-Vac Co., 212 Washington Ave., Madison, Wis., 3
Raypar, Inc., 7800 W. Addison St., Chicago 34, Ill., 3, 6, 7
For details see ad on page 157
Raytheon Mfg. Co., 55 Chapel St., Newton 58, Mass., 3
Raytheon Mfg. Co., Foundry Ave., Waltham 54, Mass., 0, 2, 3, 4, 5, 6
Raytronic Lab., Inc., 9701 Reading Rd., Cincinnati 15, Ohio, 2, 6
Razdow, Adolph, 595 Riverside Dr., New York 31, N.Y., 3, 6
Rea Magnet Wire, 3600 E. Pontiac St., Fort Wayne 4, Ind., 6
Reading Batteries, Inc., P.O. Box 916, Reading, Pa., 3
Ready-Power Co., 11231 Freud Ave., Detroit 14, Mich., 3
Recoton Corp., 147 W. 22 St., New York 11, N.Y., 0
Redifon, Ltd., Broomhill Rd., Wandsworth, London, S.W. 18, England, 0, 1, 2, 4
Reed & Prince Mfg. Co., 1 Duncan Ave., Worcester 1, Mass., 6
Reed Research, Inc., 1048 Potomac St., Washington 7, D.C., 6
Reeve Electronics, Inc., 500 W. Lake St., Chicago 6, Ill., 4
Reeves Equipment Corp., 10 E. 52 St., New York 22, N.Y., 0
Reeves-Hoffman Corp., 145 Cherry St., Carlisle, Pa., 3
For details see ad on page 124
Reeves Instrument Corp., 219 E. 91 St., New York 28, N.Y., 0, 3, 4, 5
Reeves Soundcraft Corp., 10 E. 52 St., New York 22, N.Y., 0
Reflectone Corp., Post Rd., Stamford, Conn., 6
Regulator Equipment Corp., 55 MacQuesten Pkwy. So., Mount Vernon, N.Y., 3
Reiner Electronics Co., Inc., 152 W. 25 St., New York 1, N.Y., 3, 6, 7
Rek-O-Kut Co., 38-01 Queens Blvd., Long Island City 1, N.Y., 0
Relay Sales, 833 W. Chicago Ave., Chicago 22, Ill., 3
Reliable Spring & Wire Forms Co., 3167 Fulton Rd., Cleveland 9, Ohio, 3, 6
Remington Rand, Inc., Eckert-Mauchly Div., 2300 W. Allegheny Ave., Philadelphia 29, Pa., 4
Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif., 0, 3, 6
Repath Co., Paul R., 641 E. 61 St., Los Angeles 1, Calif., 3, 6

(Continued on page 57)

Numbers after address refer to Product Directories in which firm is listed: 0—Audio, 1—Broadcasting, 2—Communications, 3—Components, 4—Electronic Equip., 5—Radar, 6—Services & Materials, 7—Test Equip., 8—Educational, 9—Distribution.



Republic Foil & Metal, 55 Triangle St., Danbury, Conn., 6

Resdel Engineering, 2351 Riverside Dr., Los Angeles 39, Calif., 0, 1, 2, 3, 4, 5, 6, 7

Research Electronics Labs., 2459 Susquehanna Rd., Roslyn, Pa., 3, 4, 6, 7

Research Instrument Co., Inc., 233 Broadway, New York 7, N.Y., 3, 4, 6

Resinite Corp., 2035 W. Charleston, Chicago 47, Ill., 6

Resistance Products Co., 714 Race St., Harrisburg, Pa., 3
For details see ad on page 155

Resistoflex Corp., 39 Plansoen St., Belleville 9, N.J., 6
For details see ad on page 240

Resistors, Inc., 5226 W. 26 St., Chicago 50, Ill., 3

Resonant Co., 545 Harbor Blvd., Belmont, Calif., 5

Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N.Y., 6

Rex Corp., Haywood Rd., West Acton, Mass., and 51 Landsdowne St., Cambridge, Mass., 6
For details see ad on page 231

Rex Rheostat Co., Foxhurst Road No. 3, Baldwin, L.I., N.Y., 3

Reynolds Electric Co., 3000 River Rd., River Grove, Ill., 3

Rhode Island Insulated Wire Co., P.O. Box 7, Elmwood Sta., Providence 7, R.I., 6

Rhodes, Inc., M. H., 30 Bartholomew Ave., Hartford 6, Conn., 3, 7

Rich Electronics, Inc., 212 N.W. Eighth Ave., Miami 36, Fla., 2, 3, 4, 6

Richardson-Allen Corp., 116-15 Fifteenth Ave., College Point, L.I., N.Y., 3

Richardson Co., 2685 Lake St., Melrose Park, Ill., 3, 6

Richardson Labs., Kenneth, 254 Vincent Ave., Lynbrook, N.Y., 0, 3, 4, 6, 7

Richardson, William E., 1935 S.W. Moss, Portland 19, Ore., 6

Rich-Roth Labs., 673 Connecticut Blvd., East Hartford 8, Conn., 4, 6

Rider, Publisher, Inc., John F., 480 Canal St., New York 13, N.Y., 8

Riester & Thesmacher Co., 1526 W. 25 St., Cleveland 13, Ohio, 3

Rinehart Books, Inc., 232 Madison Ave., New York 16, N.Y., 8

Ripley Co., Inc., 1 Factory St., Middletown, Conn., 2, 3, 4

River Edge Industries, 5 River Edge Rd., River Edge, N.J., 3

Roanwell Corp., 662 Pacific St., Brooklyn 17, N.Y., 0

Robberson Marine Radio, 44 Suntsink Dr. E., Port Washington, N.Y., 2, 3

Robinson Aviation, Inc., Teterboro Air Terminal, Teterboro, N.J., 3, 6
For details see ad on page 60

Robinson, Inc., E. E., 95 Park Ave., Nutley 10, N.J., 6

Robinson Recording Labs., 35 S. Ninth St., Philadelphia 7, Pa., 0, 1

Rochester Electronics Co., Inc., Box 227, Penfield, N.Y., 0, 3, 4, 6, 7

Rockbestos Products Corp., 285 Nicoll St., New Haven 4, Conn., 6

Rogan Brothers, 2500 W. Irving Pk., Chicago 18, Ill., 6

Rogers Majestic Electronics, Ltd., 11-19 Brentcliffe Rd., Leaside, Ont., Canada, 2, 4, 5

Rohden Mfg. Co., 4739 W. Montrose, Chicago 41, Ill., 6
For details see ad on page 247

Rohm & Haas Co., Washington Sq., Philadelphia 5, Pa., 6

Rola Co., Inc., 2530 Superior Ave., Cleveland 14, Ohio, 0, 3

Rolab Studios & Photoscience Labs., Sandy Hook, Conn., 6

Rollan Electric Co., 8020 South Park, Chicago 19, Ill., 3, 6

Roller-Smith Corp., 1000 N. Eighth Ave., Bethlehem, Pa., 3, 4, 6, 7

Rollin Co., 2070 N. Fair Oaks, Pasadena 3, Calif., 7

Rosen Eng. Prods., Inc., Raymond, 32 & Walnut Sts., Philadelphia 4, Pa., 0, 2, 4, 5

Rosenberg Associates, Paul, 109 Stevens Ave., Mount Vernon, N.Y., 6
For details see ad on page 235

Ross Mfg. Co., 2405 Armitage Ave., Chicago 47, Ill., 3

Rostan Corp., 383 Kent Ave., Brooklyn 11, N.Y., 1, 3

Rotron Mfg. Co., Woodstock, N.Y., 3

Rowe Industries, 1702 Wayne St., Toledo 9, Ohio, 0, 2, 3, 4, 6
For details see ad on page 207

Rubatex Div., Great Amer. Ind., Railroad Ave., Bedford, Va., 6

Ruberoid Co., 500 Fifth Ave., New York 18, N.Y., 6

Rubicon Co., 3751 Ridge Ave., Philadelphia 32, Pa., 3, 7

Ruby Chemical Co., 68-70 McDowell St., Columbus 8, Ohio, 6

Ruckelshaus, John Greer, 110 Pomeroy Rd., Madison, N.J., 6

Ruckelshaus Labs., John G., 110 Pomeroy Rd., Madison, N.J., 3

Runzel Cord & Wire Co., 4727 Montrose Ave., Chicago 41, Ill., 0, 6

Rupps Assembling & Mfg. Works, 2341 N. Seminary Ave., Chicago 14, Ill., 3, 6

Russell Electric Co., 4501 S. Western Blvd., Chicago 9, Ill., 0, 3

Rutherford Electronics Co., 3707 S. Robertson Blvd., Culver City, Calif., 6, 7

S. N. C. Mfg. Co., Inc., P.O. Box 277, Oshkosh, Wis., 3

S. O. S. Cinema Supply Corp., 602 W. 52 St., New York 19, N.Y., 0, 1, 3

Saf-T-Flux Co., Box 64, Collegeville, Pa., 6

Saint Regis Paper Co., 230 Park Ave., New York 17, N.Y., 6

Sams & Co., Inc., Howard W., 2201 E. 46 St., Indianapolis 5, Ind., 8

Samuel & Co., Inc., J. A., 220 Broadway, New York 38, N.Y., 6

Sanborn Co., 39 Osborn St., Cambridge 39, Mass., 0, 4, 7
For details see ad on page 240

Sandvik Steel, 145 Hudson St., New York 13, N.Y., 6

Satsuma Electric Co., Marion, Ill., 3

Sattal Labs., 308 14-32 Ave., Flushing 58, N.Y., 6

Sattay Corp., 351 N. Crawford, Chicago 24, Ill., 6

Satterlee & Co., 45 Water St., New Haven 9, Conn., 6

Sawyer-Rayment Co., 212 Ninth St., Oakland 7, Calif., 0, 1

Sawyer-Swenson Cements Co., 1045 N. Canal St., Pittsburgh 15, Pa., 6

Savage Transformers, Ltd., Nursteed Rd., Devizes, Wilts, England, 3

Saville Ratchemics Labs., 2757 Observatory Ave., Cincinnati 8, Ohio, 6

Saxonbury Potteries, Saxonbury, Pa., 6

Schaaf Mfg. Corp., 4500 Alpine Ave., Cincinnati 36, Ohio, 3

Schott Co., Walter L., 5225 Exposition Place, Los Angeles 18, Calif., 0, 6

Schottland, Frederic D., 104-18 Metropolitan Ave., Forest Hills 75, N.Y., 4, 6

Schutte & Co., Inc., 9th & Kearny Sts., N.E., Washington 17, D.C., 2

Schweitzer, Inc., Peter L., 405 Lexington Ave., New York 17, N.Y., 6

Scientific Electric, 111 Monroe St., Garfield, N.J., 3, 4, 6
See complete catalog filed alphabetically in last section.

Scientific Electronic Lab., 808 Bergen St., Newark 8, N.J., 6

Scientific Instrument Labs., 3336 Hull Ave., New York 67, N.Y., 3, 6

Scientific Radio Products, Inc., 1009 Farnam St., Omaha, Nebr., 3

Scientific Radio Service, 4301 Sheridan St., University Park, Md., 3

Scientific Specialties Corp., 698 Massachusetts Ave., Cambridge 39, Mass., 3, 7

Scientific Wood Cabinet Co., 50-56 Holmes St., Belleville 9, N.J., 3

Scott, Inc., Herman Hosmer, 385 Putnam Ave., Cambridge 39, Mass., 0, 3, 7

Scott's Television, 2404 Columbia Pike, Arlington, Va., 1

Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn., 0, 3, 6

Seaboard Electric Co., 417 Canal St., New York 13, N.Y., 0, 2, 3, 4, 5, 6, 7

Sealtron Co., 9701 Reading Rd., Cincinnati 15, Ohio, 6

Secon Metals Corp., 228 E. 45 St., New York 17, N.Y., 6
For details see ad on page 207

Segel Co., Henry P., 143 Newbury St., Boston 16, Mass., 0
For details see ad on page 200

Seismograph Service Corp., P.O. Box 1590, Tulsa 1, Okla., 4

Self Winding Clock Co., Inc., 205 Willoughby Ave., Brooklyn 5, N.Y., 0, 1, 3, 6

Semco Electronics Corp., 103 Lafayette St., New York 13, N.Y., 3

Semrow Products Co., Inc., 9120 Northwest Highway, Chicago 31, Ill., 6

Senn Corp., 75 Senn & Rd. 421, New Augusta, Ind., 3

Sepmeyer, Ludwig W., 1-32 Comstock Ave., Los Angeles 25, Calif., 6

Sentinel Radio Corp., 2100 Dempster St., Evanston, Ill., 1

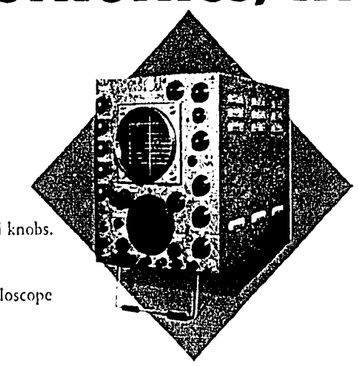
Servo Corp. of America, 2020 Jericho Turnpike, New Hyde Park, L.I., N.Y., 4, 5, 6, 7
For details see ad on page 344-5

(Continued on page 57)

LABORATORY for ELECTRONICS, INC.

MODEL 401 OSCILLOSCOPE

– a high gain, wide band, versatile, general purpose instrument for precise, quantitative studies of pulse waveforms, transients and other high or low speed electrical phenomena.



SPECIFICATIONS

Y-Axis

Deflection Sensitivity – 15 millivolts peak-to-peak/cm.
Frequency Response – DC to 10Mc.
Transient Response – Rise Time – 0.03 microseconds.
Signal Delay – 0.25 microseconds
Input line terminations

X-Axis

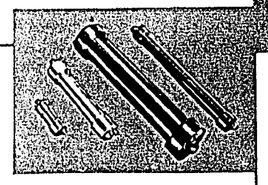
Sweep range – 0.01 sec/cm to 0.1 microseconds/cm.
Delayed Sweep Range – 0-5000 microseconds in three ranges – continuously adjustable.
Triggers – Internal or External, + and –, 60 cycles, or delayed trigger outputs.
Built-in trigger generator.

General

Low capacity probe.
Functionally colored control knobs.
Folding stand.
Adjustable scale lighting.
Facilities for mounting oscilloscope cameras. $895.00

Ask for Bulletin 052

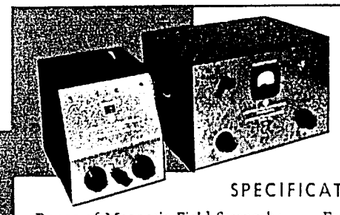
MERCURY DELAY LINES



LFE Mercury Delay Lines meet severe military requirements and are precision built under controlled conditions. Used for storage of information, comparison of two sets of information, correlations and sequential timing devices, they are the smallest, most compact lines available. Currently recognized as a foremost supplier of mercury delay lines, LFE furnishes a wide range of delays and assures quick delivery of all types.

Ask for Bulletin MDL51

MODEL 101 MAGNETOMETER



Accurately measures magnetic field strength using the principle of nuclear resonance.

SPECIFICATIONS

Range of Magnetic Field Strength:
Proton resonance: 300-8000 gauss.
Lithium resonance: 7000-25000 gauss.

Frequency to Field Ratio:
Protons: 4257.76 ± 0.10 ~/ gauss.
Lithium (Li7): 1654.61 ± 0.10 ~/ gauss.

Modulation Sweep Width Range:
1.6 to 16 gauss.

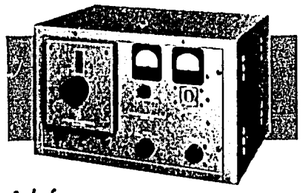
Frequency Range:
Probe 1: 1.18 to 2.84 mc.
Probe 2: 2.61 to 6.25 mc.
Probe 3: 5.6 to 13.5 mc.
Probe 4: 13 to 34 mc.

Area of Sample Material:
Probe 1: 0.5 sq. cm.
Probe 2: 0.3 sq. cm.
Probes 3 and 4: 0.32 sq. cm. $725.00

Ask for Bulletin M52

MODEL 802 STABLE MICROWAVE OSCILLATOR

Provides a highly stable source of microwave signals.



SPECIFICATIONS

Dial Calibration:
Calibrated directly in frequency – 5 Mc per divisions. Absolute frequency good to approximately 2 Mc.

Power Output:
5 milliwatts.

Output connection – 1/2" x 1" waveguide.

Frequency Coverage:
Model 802-X1: 8950-9325 Mc.
Model 802-X2: 9300-9650 Mc.

Frequency Stability:
During short time intervals: One part in 10^9.
Long term drift: Less than 100 Kc from original frequency setting.

Ask for Technical Bulletin

For complete information, phone or write your LFE engineering representative:

Boston 15, Mass.
Walter T. Hannigan Company
43 Leon Street
Garrison 7-2650

New York 23, New York
Land-C-Air Sales Co.
1819 Broadway
Plaza 7-7747

Cleveland 15, Ohio
M. P. O'Dell Company
2536 Euclid Avenue
Prospect 1-6171

Chicago 45, Illinois
Hugh Marsland & Company
6405 N. California Avenue
Ambassador 2-1555

Minneapolis 2, Minnesota
H. M. Richardson & Co.
2210 Foshay Tower
Geneva 4078

Hollywood 28, California
Gerald B. Miller Co.
1540 N. Highland Avenue
Hollywood 9-6305

Dallas 1, Texas
J. Y. Schoonmaker Co.
2011 Cedar Springs
Sterling 3335

Wichita, Kansas
George E. Harris & Co.
Administration Bldg.
Municipal Airport
62-2731

Alexandria, Virginia
W. A. Brown & Associates
3834 Mt. Vernon Avenue
Overlook 6100

LABORATORY for ELECTRONICS, INC.
75 PITTS STREET • BOSTON 14, MASS.

(Continued from page 57)

Servo-Tek Prods Co., 4 Graham Ave., Paterson 1, N.J., 3, 4
Servomechanisms, Inc., Post & Stewart Aves., Westbury, L.I., N.Y., 4
For details see ad on page 178
Sessions Clock Co., East Main St., Forestville, Conn., 3
Schutter, Carl W., 80-90 Montauk Highway, Lindenhurst, L.I., N.Y., 3
Shakeproof, Inc., St. Charles Rd., Elgin, Ill., 6
Shalleross Mfg. Co., 529 Pusey Ave., Collingdale, Pa., 0, 3, 6, 7
For details see ad on page 164
Shaw Insulator Co., 168 Coit St., Irvington 11, N.J., 6
Shaw, Robert F., 3504 Race St., Philadelphia 4, Pa., 4, 6
Shaw Television Corp., 195 Front St., Brooklyn 1, N.Y., 1
Shelbee Mfg. Co., 118 W. Bella Ave., Palisades Park, N.J., 3, 6
Sheldon Electric Co., 58-68 Court St., Irvington 11, N.J., 3
Shepard Labs., 430 Morris Ave., Summit, N.J., 6
Sherman Industrial Electronics Co., 305 Washington Ave., Belleville 9, N.J., 3, 4
Sherron Electronics Corp., 1201 Flushing Ave., Brooklyn, N.Y., 0, 3, 4, 7
Sherwood Co., Robert H., 122 E. 42 St., New York 17, N.Y., 6
Shores Lab., East Patchogue, L.I., N.Y., 6
Short Wave Plastic Forming Co., 2921 W. Alameda Ave., Burbank, Calif., 3, 4, 6
Shrader Mfg. Co., Inc., 2803 M St., N.W., Washington 7, D.C., 0, 1, 3, 6
Shultz & Assoc., E. Pat., 180 E. California St., Pasadena 1, Calif., 6
Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill., 0, 3
For details see ad on page 80
Simmie Meters, 61 Hamilton St., New Haven 8, Conn., 3
Sickles Dev., E. W., 195 Front St., Chicopee, Mass., 3
Sierra Electronics Corp., 1050 Bonair Ave., San Carlos, Calif., 0, 1, 2, 3, 4, 6, 7
Sigma Instruments, Inc., 170 Pearl St., South Braintree 85, Mass., 3
Signal Engineering & Mfg. Co., 154 W. 14 St., New York 11, N.Y., 3
Silverne, Inc., Philip, 100 Lafayette St., New York 12, N.Y., 6
Simmons Fastener Corp., N. Broadway, Albany 1, N.Y., 6
Simmonds Saw & Steel Co., Lockport, N.Y., 3
Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass., 6
Simpson Electric Co., 5200 W. Kinzie St., Chicago 44, Ill., 3, 7
For details see ad on page 134
Simpson Mfg. Co., Inc., Maspeth 78, 49 St., Long Island City 1, N.Y., 6

MODEL PFR POLINEAR RECORDER

FOR AUTOMATICALLY PLOTTING both ANGULAR and STRAIGHT LINE functions on either POLAR or RECTILINEAR coordinates in any COMBINATION . . .

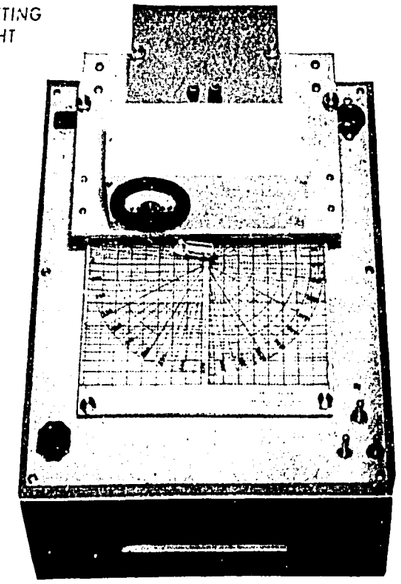
- Records both AC and DC voltage levels
- Designed for STANDARD 8½ x 11 chart sheet
- POLAR and LINEAR turntable movement
- TURNTABLE instantly set to any chart position
- Auxiliary Electrical linkage for synchronizing to turntable motion
  Oscillators Rotational Devices
  Test Turntables Analyzers
- Interchangeable range potentiometers
- Dependable and service free operation

Typical applications:

Beam Pattern Plotting of antennas, microphones, loudspeakers, lighting fixtures, ultrasonic devices;

Frequency Response Records of microphones, loudspeakers, amplifiers, Filters, Radio and television circuits;

Rectilinear Curves on vacuum tubes, potentiometers, amplifiers, counting and computing devices.



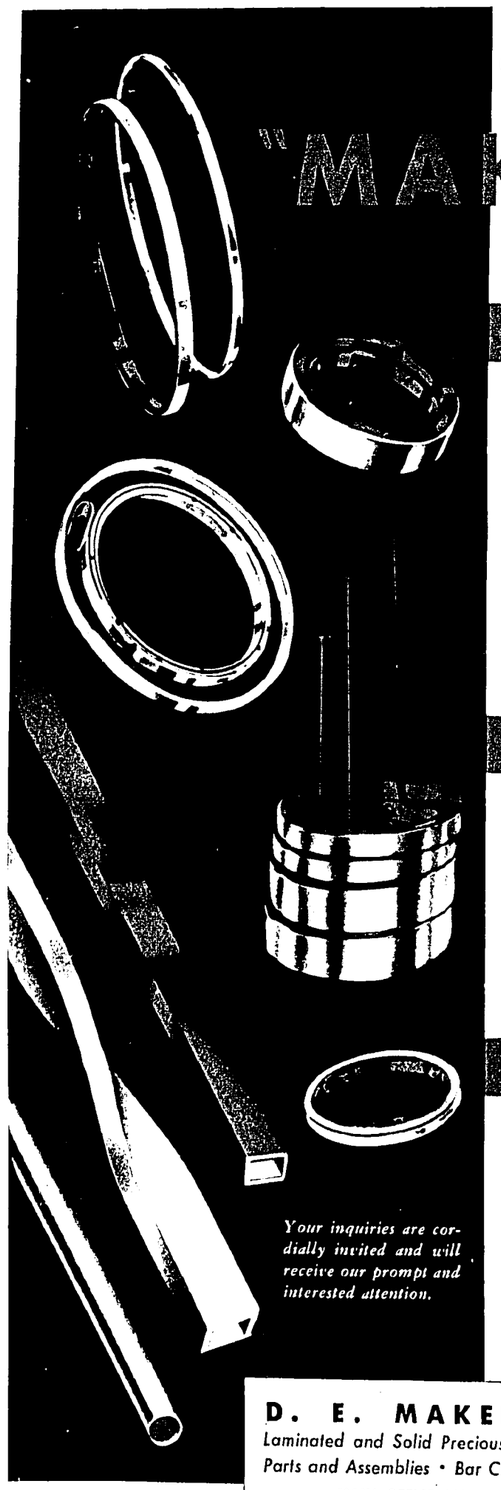
Descriptive literature mailed upon request.

Designers and Manufacturers of Graphic Recorders
SOUND APPARATUS COMPANY • STIRLING, N. J.
Instruments Engineered for Individual Requirements

Skarton Electronics & T.V. Corp., 30 E. 20 St., New York 3, N.Y., 0, 1, 3, 4, 6, 7
Skipsan & Co., Arthur, 2 Burroughs St., Bridgeport 8, Conn., 6
Smallwood, Ltd., S. G., 307 King St. E., Kitchener, Ontario, Canada, 3
Smiley, Lynne C., 1317 G Street N.W., Washington 5, D.C., 6
Smith, Inc., Herman H., 430 18 St., Brooklyn 15, N.Y., 0, 3, 6
See complete catalog listed alphabetically in last section
Smith Meeker Engineering Co., 137 Chambers St., New York 7, N.Y., 0, 3, 6, 7
Smith Mfg. Co., Nathan R., 305 Paseo de la Vera, South Pasadena, Calif., 2, 3, 6, 7
Smith & Sons, Ltd., Owen, Georgetown, Ontario, Canada, 3, 6, 7
Smithler & Co., Inc., A. J., 292 Fillaye St., Brooklyn 1, N.Y., 0, 2, 3, 4, 5, 6, 7
Snow & Schiele, Inc., Central Sq. Building, Cambridge 39, Mass., 6
Snyder Mfg. Co., 22 & Ontario, Philadelphia 40, Pa., 0, 2, 3, 6
Société Des Lampes Pierre Grammont, 100 Route d'Heerbrugg, Lyon 7, France, 3
Sola Electric Co., 4633 W. 16 St., Chicago 50, Ill., 3
For details see ad on page 167
Somers Brass Co., Inc., 94 Bridgeport Ave., Waterbury 20, Conn., 3
Sonar Radio Corp., 80 Marcy Ave., Brooklyn 1, N.Y., 0, 7
Sondyna, Ltd., Bolivar 837, Buenos Aires, Argentina, 1, 2, 3, 4, 7
Sonic Recording Products, Inc., 5 Mill Rd., Freeport, L.I., N.Y., 6
Sonotone Corp., 121 West Eighth St., New York 3, N.Y., 0
Sonotone Corp., Elmsford, N.Y., 0, 3, 6
Soparfi, 54 Rue du Docteur Paris, Puteaux, 2, 3
Sorbus Mfg. Corp., 9855 Belmont Ave., Schiller Pk., Ill., 3
Sorensen & Co., Inc., 375 Fairfield Ave., Stamford, Conn., 3, 7
Sound Apparatus Co., Maine Ave., Stirling, N.J., 7
For details see ad on page 59
Sound Devices Co., 129 E. 124 St., New York 35, N.Y., 0, 3
Southern Electric & Transmission, 3127 Holmes St., Dallas 9, Texas, 0, 2, 3
Sound Scriber Corp., 146 Munson St., New Haven 4, Conn., 0
South River Metal Prod. Co., Inc., 377-379 Emjaybe, South River, N.J., 1, 2, 3, 6
Southwest Technical Lab., 416 N. 4, Albuquerque, N.M., 0, 3, 6
Southwestern Industrial Electronics Co., 2831 Post Oak Rd. Bx 13058, Houston 19, Texas, 0, 3, 4, 7
Sparks-Withington Co., 2400 E. Gunson, Jackson, Mich., 1
Sparton of Canada, Ltd., Elm St., London, Ont., Canada, 0, 1, 3, 6
Sparton Radio Television Div., 2400 E. Gunson St., Jackson, Mich., 1

(Continued on page 61)

Numbers after address refer to Product Directories in which firm is listed: 0—Audio, 1—Broadcasting, 2—Communications, 3—Components, 4—Electronic Equip., 5—Radar, 6—Services & Materials, 7—Test Equip., 8—Educational, 9—Distribution.



Specify "MAKEPEACE" for

PRECISION RINGS

DEMCO collector rings and ring assemblies give you these advantages . . .

ECONOMY . . . laminated construction provides contact metal where required . . . base metal for strength.

HIGH FINISH . . . on contact surface for long wear and noise-free operation.

PRECISION MADE . . . it is unnecessary to add further machine operations.

COMPLETE . . . rotor or pancake type multi-ring and ring-and-brush assemblies supplied.

PRECISION TUBING

PRECISION DRAWN . . . ID held as close as ±.001. Solid coin silver, brass or aluminum Rev. MIL-T-85.

LAMINATED SILVER . . . on ID for

- Low attenuation
- Corrosion resistance
- Highest mirror finish

Laminated silver ID and OD for round tuned lines.

PRECISION "KNOW-HOW"

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Laminated and Solid Precious Metals for Industrial Use • Fabricated Parts and Assemblies • Bar Contact Material • Precious Metal Solders

MAIN OFFICE AND PLANT, ATTLEBORO, MASSACHUSETTS
NEW YORK OFFICE, 30 CHURCH STREET
CHICAGO OFFICE, 55 EAST WASHINGTON STREET

Speak-O Phone Rec. & Equip. Co., 23 W. 60 St., New York 23, N.Y., 0

Special Instruments Lab., Inc., 1003 Highland Ave., Knoxville, Tenn., 0, 4, 7

Special Products Co., 9115 Brookville Rd., Silver Spring, Md., 0, 4

Specialties, Inc., Skunks Misery Rd., Syosset, L.I., N.Y., 0, 3

Specialty Battery Co., 212 E. Washington Ave., Madison 3, Wis., 3
For details see ad on page 102

Specialty Eng. Div., 79 Clifton Pl., Brooklyn 5, N.Y., 0, 7

Specialty Insulation Mfg. Co., Inc., Center St., Hoosick Falls, N.Y., 3, 4, 6

Speer Resistor Div., Speer Carbon, St Mary's, Pa., 3

Spellman Television Co., Inc., 3029 Webster Ave., New York 67, N.Y., 3
For details see ad on page 142

Spencer-Kennedy Labs., Inc., 186 Massachusetts Ave., Cambridge 39, Mass., 0, 3, 6, 7
For details see ad on page 274

Spera Electronics Labs., 37 10 33 St., Long Island City, N.Y., 0, 2, 6, 7

Sperry Gyroscope Co., Great Neck, L.I., N.Y., 3, 4, 5, 7
See complete catalog filed alphabetically in last section

Spilsbury & Tindall, Ltd., 44 Water St., Vancouver 4, B.C., Canada, 0, 2, 3

Spinneraft, Inc., 4122 W. State St., Milwaukee 8, Wis., 6

Sprague Electric Co., North Adams, Mass., 3, 7

Spence Pure Mica Co., Spence Pure, N.C., 3

Square D Co., 4041 N. Richards St., Milwaukee 12, Wis., 3

Square Root Mfg. Corp., 391 Saw Mill River Rd., Yonkers 2, N.Y., 0, 2, 3, 4, 5, 6

Stackpole Carbon Co., Tannery St., St. Marys, Pa., 3, 6
For details see ad on page 348-9

Stainless, Inc., Third St., North Wales, Pa., 1, 3

Stancil-Hoffman Corp., 1076 N. Highland Ave., Hollywood 38, Calif., 0

Standard Coil Products Co., Inc., 2329 N. Pulaski Rd., Chicago 39, Ill., 3, 4, 5
For details see ad on page 68

Standard Crystal Co., 400 Armstrong, Kansas City, Kan., 3

Standard Electric Time Co., 89 Logan St., Springfield 2, Mass., 0, 3, 7
For details see ad on page 263

Standard Electrical Products Co., 2240 E. Third St., Dayton 3, Ohio, 3, 4

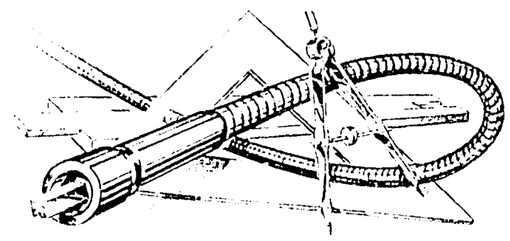
Standard Electronic Research Corp., 2 East End Ave., New York 21, N.Y., 0, 3, 4, 6

Stanley Engineering & Mfg. Co., 114 Liberty St., New York 6, N.Y., 3

Standard Piezo Co., 265 E. Pomfret St., Carlisle, Pa., 3
For details see ad on page 312

Standard Pressed Steel Co., Jenkintown, Pa., 3, 6, 7

Standard Transformer Corp., 3580 Elston Ave., Chicago 18, Ill., 0, 2, 3
For details see ad on page 166



MODERN DESIGN AND ENGINEERING

The automobile and aircraft industries owe much of the success of their products to the modern solution of their angular drive problems with flexible shafting. The right application of a flexible shaft can mean greater flexibility in alignment . . . better integration of units . . . less complex gearing.

The result is lower assembly costs and a product that is quiet, smooth, efficient and trouble-free in operation with minimum repair requirements. Circle Ess flexible shafts will stand the most rigid tests and scrutiny. They will help to solve your problems as they have those of many other manufacturers.

Write for our new book "Flexible Shaft Assemblies."

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WEST COAST PLANT: 1638 So. Flower St., LOS ANGELES 15, CALIF.

Standard Varnish Works, 2600 Richmond Ter., Staten Island 3, N.Y., 6

Star End Wood Products Corp., 43-02 38 St., Long Island City 1, N.Y., 3

Stanley Works, 111 Elm St., New Britain, Conn., 6

Stanwyck Winding Co., Inc., 137-151 Walsh Ave., Newburgh, N.Y., 3

Star Expansion Products Co., 147 Cedar St., New York 6, N.Y., 0, 3, 6
For details see ad on page 229

Star Tube Co., Inc., 235 Canal St., New York 13, N.Y., 3

Stark Electronic Instruments, Ltd., Stark Bldg., Ajax, Ont., Canada, 3, 6, 7

Starrett Television Corp., 205 W. 29 St., New York 1, N.Y., 0, 1, 2, 7

State University of New York, 300 Pearl St., Brooklyn 1, N.Y., 8

States Co., 19 New Park Ave., Hartford 6, Conn., 3, 6

Statham Labs., Inc., 12401 W. Olympic Blvd., Los Angeles 64, Calif., 7

Staver Co., Inc., 41-51 N. Saxon Ave., Bay Shore, L.I., N.Y., 3, 6
For details see ad on page 251

Stavid Engineering Inc., 312 Park Ave., Plainfield, N.J., 6

Stewart Ives Co., 5 Penn Plaza, New York 1, N.Y., 6

Stelma, Inc., 389 Lafayette St., Stamford, Conn., 2, 7

Stephens Mfg. Corp., 8538 Warner Dr., Culver City, Calif., 0, 1, 2, 3, 4, 7

Sterling Engineering Co., 301 Main St., Laconia, N.H., 3

Sterling Instrument Co., 3732 Kingswood Ave., Dearborn, Mich., 3, 6, 7

Sterling Mfg. Co., 7201 Westgate Ave., Cleveland 2, Ohio, 3

Stern, Roger M., 95 Nassau St., New York 38, N.Y., 6, 8
For details see ad on page 267

Stevens Arnold, 22 Pitman St., Roxbury, Boston, Mass., 3

Stevens Pearl, 86-88 Main St., East Orange, N.J., 6

Stevens Mfg. Co., Inc., 6027 N. Rogers Ave., Chicago 30, Ill., 6

Stevens Mfg. Co., Inc., 20 S. Walker St., Mansfield, Ohio, 3

Steward Mfg. Co., D. M., E. 36 St., Chattanooga 1, Tenn., 3, 6

Stewart Mfg. Corp., F. W., 4311-13 Ravenswood Ave., Chicago 13, Ill., 6
For details see ad on page 61

Stewart Warner Electric, 1826 W. Diversey Pkwy., Chicago 14, Ill., 1, 2, 3

Sticht Co., Inc., Herman H., 27 Park Pl., New York 7, N.Y., 3, 7
For details see ad on page 257

Stobbe, T. Albert, 50 Broad St., New York 4, N.Y., 6

Stockman Electronics Research Co., 543 Lexington St., Waltham 54, Mass., 6

Stoddart Aircraft Radio Co., 6644 Santa Monica Blvd., Hollywood 38, Calif., 7

Stokes Machine Co., F. J., 5500 Tabor Rd., Philadelphia 20, Pa., 6

Stokes Molded Products, Inc., Taylor St., Trenton 4, N.J., 6

Stover Lock Nut & Machinery Corp., Hilton & Holly Sts., Easton, Pa., 6

Strain Engineering Service, 1261 Niles Ave., N.W., Atlanta, Ga., 1

continued on page 553

Total % flux to solder less than many single cored solders

Rigid quality control insures same standards in every Multicore reel

Thin wall 3-core construction assures flux continuity . . . prevents "dry" joints

ERSIN Multicore

Perfect joints on difficult metals & alloys even if oxidized

Contains only Virgin tin & lead
Tin—99.75% pure
Lead—97.97% pure

SAVES TIME...

Leaves only pure rosin after soldering

Only Multicore has Ersin Flux—high grade water-white rosin, homogeneously activated

Vigorous fluxing action

Non-corrosive even after long exposure to humidity

Conforms with QQ-S-571-b and all other pertinent Federal Specifications.

Wets metal rapidly due to reduced surface tension



Too often in these urgent days little things like "dry" joints waste precious hours and cause unnecessary rejects.

Ersin Multicore Solder increases the efficiency of your plant, the dependability of your product and the profit in your pocket!

SAVE TIME • SAVE MONEY • PRODUCE MORE with MULTICORE—WORLD'S FINEST CORED SOLDER



MULTICORE SALES CORP.
MULTICORE SOLDERS LTD.



1952

Code Numbers TELL YOU

what each company does or makes. The number after each address refers you to the 10 Product Directories, in which detailed product or service information on the firm will be found. Key to codes is:

	Page
0. Audio Equipment	73
1. Broadcasting	87
2. Communications	93
3. Components	101
4. Electronic Applications	177
5. Radar-Microwave	191
6. Services, Materials and Consultants	201
7. Test Equipment	251
8. Educational	275
9. Distribution	277

	Page
PINK SECTION gives guide to Products Index by products in the 10 Product Directories.	i-viii
PART 2—Alphabetical List of Firms	3-72
PART 3—Product Directory in 10 Sections	73-295
PART 4—Complete Data Spreads	297-359
CATALOGS (Alphabetically)	360
Ad Indexes:	295 & Cover 3

Alphabetical Directory

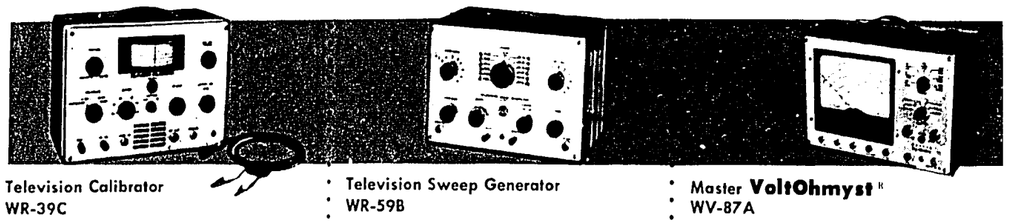
(Continued from page 57)

Strandberg Engineering Labs., 416 W. Market St., Greensboro, N.C., 0, 6
Stromer Amet Co., 4101 N. Ravenswood, Chicago 13, Ill., 4, 6, 7
Stromberg-Carlson Co., 100 Carlson Rd., Rochester 3, N.Y., 0, 1, 3, 6
Strong Electric Corp., 87 City Park Ave., Toledo 2, Ohio, 1
Stuedeman, W., 5 Washington St., East Orange, N.J., 0
Stupakoff Ceramic & Mfg. Co., Box 390, Latrobe, Pa., 3, 6
For details see ad on page 322-3
Sturtevant Co., Addison, Ill., 6
Suckle Electronics Co., 22 & Hayes Ave., Camden 5, N.J., 3, 6
Sun Copper & Wire Co., 132 Rockwell Ave., Paterson, N.J., 3, 6
Sun Dial Corp., P.O. Box 33, Caldwell, N.J., 6
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill., 3
Super Flow Solder Co., Inc., 90 State St., Albany, N.Y., 6
Superex Electronics Corp., 23 Alburton St., Yonkers 2, N.Y., 0, 1, 2, 3, 4, 5
Superior Electric Co., 83 Laurel St., Bristol, Conn., 3, 4
See complete catalog filed alphabetically in last section
Superior Instruments Co., 227 Fulton St., New York 7, N.Y., 3, 7
Superior Marine Radio Co., 15th St., George St., St. Augustine, Fla., 1, 2
Superior Porcelain Co., 931½ Market St., Parkersburg, W. Va., 3, 6
Superior Steatite & Ceramic Corp., 52-49 Gale Ave., Long Island City 1, N.Y., 6
Superior Tube Co., 2512 Germantown Ave., Norristown, Pa., 6
For details see ad on page 354-5
Supreme, Inc., Carlton Rd., Greenwood, Miss., 3, 7
Surprenant Mfg. Co., 172 Sterling St., Clinton, Mass., 6
Swift Industries, Inc., Physical Div., 10 Love Lane, Hartford 1, Conn., 5, 6, 7
For details see ad on page 230
Switchcraft, Inc., 1328-30 N. Halsted St., Chicago 22, Ill., 0, 3
For details see ad on page 78
Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 0, 1, 3, 6, 7
For details see ad on page 170, 352-3
Symphony Radio & Television Corp., 825 W. Pico Blvd., Los Angeles 15, Calif., 0, 1
Syncor Products Co., 26 Irving Ct., P.O. Box 51, Malden 48, Mass., 6
For details see ad on page 233
Synthane Corp., 12 River Rd., Oaks, Pa., 6
Synton Co., Homer City, Pa., 3
Syntronic Instruments, Inc., Industrial Rd., Addison, Ill., 0, 1, 3, 6, 7
Syracuse Ornamental Co., Inc., 581 S. Clinton St., Syracuse 2, N.Y., 6
Syracuse University, East Setauket, L.I., N.Y., 1, 2, 3, 4, 5, 8
TAB, 6 Church St., New York 6, N.Y., 9
For details see ad on page 291
Taco West, 525 N. Noble St., Chicago 22, Ill., 7
Talbot Radio & TV Co., 2550 Belmont Ave., Bronx 58, N.Y., 0, 1, 3, 6, 7
Talk Corp., Newark, Ohio, 3, 7
Talk V Phone Co., 1512 S. Pulaski Rd., Chicago 23, Ill., 0
Tape Recording Apparatus Co., Box 221, Caldwell, N.J., 0
Tartak-Stoffle Electronics, Inc., 3970 S. Grand Ave., Los Angeles 37, Calif., 1, 3, 6
Tarzian, Inc., Sarkes, Receiver Div., 415 N. College Ave., Bloomington, Ind., 3
Tarzian, Inc., Sarkes, Tuner Div., 537 S. Walnut St., Bloomington, Ind., 1, 3
Taylor Fibre Co., Norristown, Pa., 3, 6
For details see ad on page 70
Taylor Labs., Inc., 2552 W. Wabansia Ave., Chicago 47, Ill., 3
Tech Labs., Inc., Berrien & Edsall Blvds., Palisades Park, N.J., 0, 3, 6, 7
Teeblit Consultants, Inc., 146 Nassau St., New York 38, N.Y., 8
Tech-Master Products Co., 443 Broadway, New York 13, N.Y., 1
See complete catalog filed alphabetically in last section
Technical Advertising Assoc., Chelterham, Pa., 8
Technical Advisory Assoc., 50 Broad St., New York City 4, N.Y., 6
Technical Apparatus Builders, 111 Liberty St., New York 6, N.Y., 0, 2, 3, 6, 7
Technical Appliance Corp., 1 Linc. St., Sherburne, N.Y., 0, 1, 2, 3, 5, 7
Technical Associates, 140 W. Providencia St., Burbank, Calif., 3, 4, 5, 7
Technical Development Corp., 4900 Inca Blvd., Culver City, Calif., 0, 4
Technical Materiel Corp., 112 W. Boston Post Rd., Mamaroneck, N.Y., 2, 6
For details see ad on page 257
Technicraft Labs., Inc., Thomaston Aptersbury Rd., Thomaston, Conn., 3
Technicraft Supply Co., 1150 Commonwealth Ave., Boston 34, Mass., 3, 6
Technisonic Studios, 1201 Brentwood Blvd., St. Louis 17, Mo., 0
Technograph Printed Elect., Inc., 191 Main St., Tarrytown, N.Y., 3, 6
Technology Instrument Corp., 531 Main St., Acton, Mass., 0, 3, 4, 6, 7
Tektronix, Inc., P.O. Box 831, Portland 7, Ore., 7
Telechrome, Inc., 88 Merrick Rd., Amityville, L.I., N.Y., 1, 3, 5, 6, 7
For details see ad on pages 93, 237
Telechron Dept., Gen. El. Co., 199 Homer Ave., Ashland, Mass., 3
Telecomputer Corp., 133 E. Santa Anita Ave., Burbank, Calif., 4
Telectro Industries Corp., 35-10 37 St., Long Island City 1, N.Y., 0, 2, 3, 4, 5, 6, 7
Telectron Co., 4029 Prospect Ave., Cleveland 3, Ohio
Telemark, Inc., 300 Gretton, 21, Stamford, Conn., 2
Telephonics Corp., Park Ave., Huntington Station, L.I., N.Y., 0, 2, 3, 6
Telequip Radio Co., 2559 W. 21 St., Chicago 8, Ill., 1
Teletalk Engineering Corp., 99 Wall St., New York 5, N.Y., 3, 6

(Continued on page 7)

RCA Measuring Instruments

...for research, production, and servicing



Television Calibrator
WR-39C

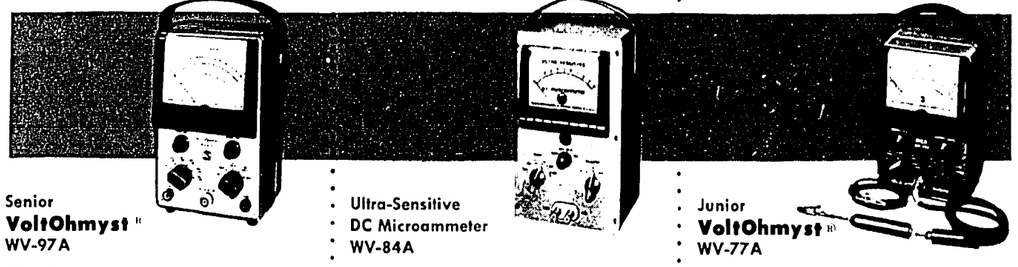
Variable-frequency oscillator provides fundamental output over entire range, with crystal-controlled check points at 2.5-Mc and 0.25-Mc intervals. Provides 4.5-Mc crystal-oscillator signal for inter-carrier alignment and for dual markers at TV carrier frequencies. Harmonic output useful in the UHF range. The WR-39C is a heterodyne frequency meter, a crystal standard (with 3 crystals supplied), a bar-pattern generator, and a TV re-broadcast transmitter.

Television Sweep Generator
WR-59B

Covers all TV channels on preset fixed positions. Continuous tuning range from 300 Kc to 50 Mc covers video and intermediate frequencies. High-precision vibrating capacitor provides up to 12-Mc maximum sweep width, flat within ±1 db, with good linearity. Has dual-piston attenuator for varying output voltage from 0.1 volt to 5 microvolts. Includes blanking for zero-reference line on 'scope.

Master VoltOhmyst®
WV-87A

Has big 8½" meter. Measures dc voltages accurately in high-impedance circuits, with ac present. Also reads rms values of sine waves and peak-to-peak values of complex waves or recurrent pulses, with dc present. Measures resistance from 0.1 ohm to 1000 megohms, current from 10 microamperes to 15 amperes. Features ±1% tolerance multiplier and shunt resistors, a meter movement having an accuracy within ±2% and a tracking error of only ±1%. Complete with cables and probes.



Senior VoltOhmyst®
WV-97A

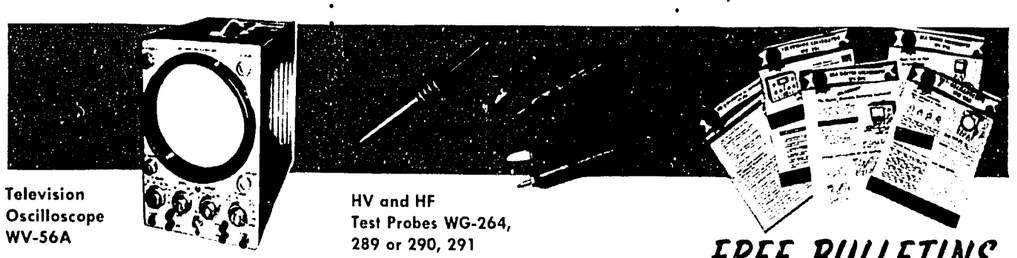
Directly measures complex waves from 0.2 volt to 2000 volts, peak-to-peak. Has an overall accuracy for dc measurements of ±3% full scale. Measures dc voltage from 0.02 volt to 1500 volts . . . rms values of sine-wave voltages from 0.1 volt to 1500 volts. Has 7 non-skip ranges for both resistance and voltage. Frequency response flat from 30 cps to approximately 3 Mc on low ranges. AC operated. Complete with cables and probes.

Ultra-Sensitive DC Microammeter
WV-84A

Reads from 0.0002 microampere to 1 milliampere in six ranges. Also useful for measuring extremely high values of resistance, or as a high-resistance voltmeter with a maximum sensitivity of 100 megohms per volt. Accuracy, ±5% or better . . . invaluable for conducting experiments involving mi. ute values of direct current. Battery operated.

Junior VoltOhmyst®
WV-77A

Measures dc from 0.05 volt to 1200 volts; ac from 0.1 volt to 1200 volts rms; and resistance from 0.2 ohm to 1 billion ohms; five overlapping ranges in each case. Uses electronic bridge circuit, 200-microampere meter movement, and ±1% carbon-film multiplier resistors. Over-all accuracy, ±3% for dc measurements on plus setting. Frequency response flat from 30 cps to 3 Mc on low ranges. AC operated. Complete with cables and probes.



Television Oscilloscope
WV-56A

Uses 7" CR tube and direct-coupled, 3-stage, push-pull, vertical and horizontal amplifiers. Dual controls for "coarse" and "fine" adjustments. Frequency-compensated and voltage-calibrated attenuators on both amplifiers. Response flat within −2 db from dc to 500 Kc, within −6 db at 1 Mc. Vertical deflection sensitivity, 10.6 rms millivolts per inch. Magnetic shield on CR tube reduces effects of external fields.

HV and HF Test Probes WG-264, 289 or 290, 291

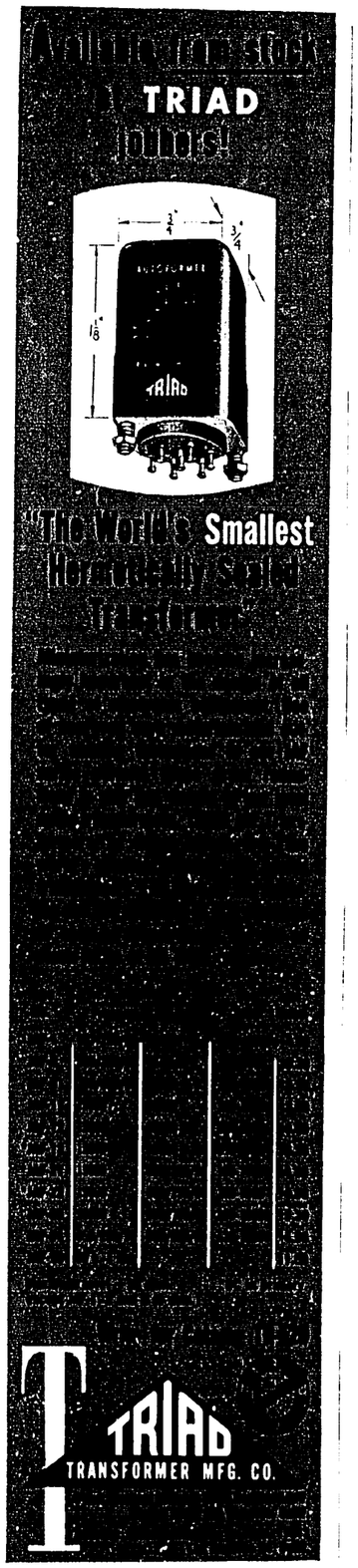
High-voltage probes for measuring voltage of TV power supplies and other high-voltage sources. *WG-289* has microphone-type connector; *WG-290* has phone-tip connectors. *WG-264* Crystal-Diode Probe, for measuring ac voltages at frequencies up to 250 Mc. *WG-291* Demodulator Probe, for measuring positive peaks of modulated waveforms.

FREE BULLETINS

For complete technical data bulletins on individual instruments, see your *RCA Test Equipment Distributor*, or write RCA, Commercial Engineering, Section 7-144 Harrison, N. J.

TMKS.®

RADIO CORPORATION of AMERICA
TEST EQUIPMENT **HARRISON, N.J.**



Alphabetical Directory

Te-Tr

(Continued from page 63)

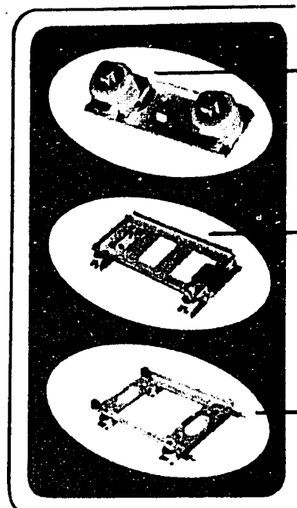
Teleregister Corp., 157 Chambers St., New York 7, N.Y., 4, 6
Teletronics Lab., Inc., 352 Maple Ave., Westbury, L.I., N.Y., 7
Televek, 474 W. 238 St., New York 63, N.Y., 0
Television Associates, Inc., E. Michigan St., Michigan City, Ind., 1, 6
Television Equipment Corp., 238 William St., New York 38, N.Y., 1, 7
Television Utilities Corp., 1261 Broadway, New York 1, N.Y., 1
Television Zoomar Corp., 500 Fifth Ave., Room 2223, New York 36, N.Y., 3
Televiso Corp., 7460 W. Irving Park Rd., Chicago 34, Ill., 1, 2, 3, 4, 6
Telewave Deposited Metal Film, 100 Metropolitan Ave., Brooklyn 11, N.Y., 3, 5
Telex, Inc., 1633 Eustis St., St. Paul 1, Minn., 0, 1, 3, 4, 6
Tel-Instrument Co., 50 Paterson Ave., East Rutherford, N.J., 1, 3, 7
For details see ad on page 259
Telmusic Service, Inc., 53 Amsterdam Ave., Passaic, N.J., 3
Tel-O-Tube Corp. of America, 180 Van Riper Ave., East Paterson, N.J., 3, 7
Tel-Rad Co., 274 Farmington Ave., Hartford 5, Conn., 0, 1, 3, 6
Tel-Rad Mfg. Co., Inc., 7 & Madison St., Fennimore, Wis., 3, 6, 7
Telrex, Inc., 26 Neptune Highway, Asbury Park, N.J., 1, 2, 3, 5, 6
For details see ad on page 237
Telvision Labs., Inc., 5045 W. Lake St., Chicago 44, Ill., 0, 3
Tempel Mfg. Co., 1939 Bryn Mawr Ave., Chicago 26, Ill., 6
Tennessee Eastman Co., Kingsport, Tenn., 6
Tenney Engineering, Inc., 26 Ave. B., Newark 5, N.J., 6, 7
For details see ad on page 255
Tensolite Insulated Wire Co., Inc., 198 Main St., Tarrytown, N.Y., 6
For details see ad on page 204
Tensor Electric Dev. Co., 343 Classon Ave., Brooklyn 5, N.Y., 3, 7
Terminal Radio Corp., 85 Cortlandt St., New York 7, N.Y., 9
For details see ad on page 292
Terpening Co., L. H., 16 W. 61 St., New York 23, N.Y., 5, 6
Tetrad Co., Inc., 4054 Ocean Park, Los Angeles, Calif., 0, 3
Tetrad Corp., 62 St. Mary St., Yonkers 2, N.Y., 0
Texas-T.V., 500 W. Hildebrand Ave., San Antonio 12, Texas, 1
Thall Plastic Eng. Co., 155 Chambers St., New York 7, N.Y., 3, 6
Theatre Equipment Co., 109 Michigan, Toledo 2, Ohio, 0
Thermionic Products Co., Inc., Box 1107, Plainfield, N.J., 6
Thomas Electronics, Inc., 118 Ninth St., Passaic, N.J., 3, 6
Thomas & Sons Co., R., Lisbon, Ohio, 3, 6
Thomas Clocks, Seth, 135 South St., Thomaston, Conn., 4, 6, 7
Thomas & Skinner Steel Prod. Co., 1113 E. 23 St., Indianapolis, Ind., 3, 6
Thompson Co., H. L., 1733 Cordova St., Los Angeles 7, Calif., 6
Thompson, Harris A., 2525 Pennsylvania St., Boulder, Colo., 6
For details see ad on page 209
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio, 3, 5, 7
Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 3, 6
For details see ad on page 207
Thordarson-Meissner Mfg. Div., 7 & Belmont Ave., Mt. Carmel, Ill., 0, 3, 4
Tibbetts Ind., Inc., Colvord Ave., Camden, Maine, 6
Tibbetts, D. Reginald, Moraga, Calif., 6
Times Facsimile Corp., 540 W. 58 St., New York 19, N.Y., 2, 6, 7
For details see ad on page 251
Timmerman Products, Inc., P.O. Box 6488, Cleveland 1, Ohio, 6
Titeflex, Inc., 500 Frelinghuysen Ave., Newark 5, N.J., 3, 5
For details see ad on page 200
Todd Products Co., Inc., 156 Granatan Ave., Mt. Vernon, N.Y., 3
Toeppen Co., P.O. Box 1012, Beverly Hills, Calif., 6
Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N.Y., 3
Torocoil Co., 1374 Mobile Ct., St. Louis, Mo., 3
Touchplate Mfg. Co., 1720 Seabright, Long Beach 13, Calif., 3, 6
Tracerlab, Inc., 130 High St., Boston 10, Mass., 3, 4, 6, 7, 8
Trad Television Corp., 1001 First Ave., Asbury Park, N.J., 0, 1, 2, 3, 4, 7
Transco Products, Inc., 12210 Nebraska Ave., Los Angeles 25, Calif., 3, 5, 6
Transducer Corp., 1085 Commonwealth Ave., Boston 54, Mass., 2, 4, 6, 7
Transelectric Mfg. Co., Hopewell Rd., Oxford, Pa., 0, 6
Transformer & Electr. Spec. Co., 400 N. 12 St., Philadelphia 23, Pa., 3
Transformer Engineers, 161 E. California St., Pasadena 1, Calif., 0, 3, 4
Transformer Specialty Co., 328 Rockhill Rd., Bala Cynwyd, Pa., 0, 3
For details see ad on page 167
Transformer Technicians, Inc., 2608 N. Cicero Ave., Chicago 39, Ill., 0, 3, 4, 6
Transicoil Corp., 107 Grand St., New York 13, N.Y., 4
For details see ad on page 190
Trans-Gel Products, Inc., 212-40 Jamaica Ave., Queens Village, N.Y., 3
Trans-Lux Corp., 1270 Sixth Ave., New York 20, N.Y., 1
Transmitter Equipment Mfg. Co., Inc., 345 Hudson St., New York 14, N.Y., 1, 2, 4, 5
Transradio, Ltd., 138A Cromwell Rd., London, S. W. 7, England, 3, 6
Transvision, Inc., 400 North Ave., New Rochelle, N.Y., 0, 1, 3, 4, 6, 7
Trenton Transformer Corp., P.O. Box 568, Trenton, N.J., 3
Triad Port. Case, 310 W. Lincoln Ave., Mt. Vernon, N.Y., 3
Triad Transformer Mfg. Co., P.O. Box 17813, Los Angeles 34, Calif., 3, 4, 6
For details see ad on page 65
Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill., 3, 5, 6
Tri-Dex Co., P.O. Box 643, Lindsay, Calif., 3, 6

(Continued on page 67)

MET-L-FLEX ALL-METAL MOUNTS FOR VIBRATION ISOLATION AND SHOCK PROTECTION

for Airborne Electronic Equipments, Instruments and Controls

SERIES 878 TWIN UNIT MOUNT ASSEMBLY



The assembly consists of two Series 7001 MET-L-FLEX Unit Mounts on a flanged tie-plate for attachment to your own tray or mounting base. S-1 and S-2 standard bases incorporate this assembly. Special widths and load ratings available. See Dwg. 878 B for details.

Robinson Model Number	Load Rating Lbs. Each End
878-1	½ to 1
878-2	⅞ to 1¾
878-3	1½ to 3
878-4	2½ to 5½
878-5	5 to 10

SERIES 892 UNIT MOUNTING BASE

Designed and manufactured in conformance with JAN-C-172A and included specifications. "Proof Tested" Construction. Uses two Series 878 MET-L-FLEX Twin Unit Mounts and Bonding Jumpers. See Dwg. 892 B for details.

Robinson Model No	Standard Designation	Load Range in Pounds	Weight in Lbs.
892-1	MT-S-1	6-12	1.25
892-2	MT-S-2	10-22	1.35

SERIES 831 UNIT MOUNTING BASE

Designed and manufactured in conformance with JAN-C-172A and included specifications. "Proof Tested" Construction. Employs four Series 7002 MET-L-FLEX Unit Mounts and Bonding Jumpers. See Dwg. 831 B for details.

Robinson Model No.	Standard Designation	Load Range in Pounds	Wgt. in Pounds
831-1	MT-A1-B	10-24	2.40
831-2	MT-A1-C	10-24	2.45
831-3	MT-A1-D	10-24	2.50
831-4		18-40	
831-5	MT-B1-B	10-24	2.60
831-6		18-40	
831-7	MT-B1(2)-C	10-24	2.65
831-8		18-40	
831-9	MT-B1(2)-D1	22.50	2.70
831-13	MT-B1(2)-D2	40-80	2.70
831-14	MT-C1(2)-C	40-80	2.80
831-15	MT-C1(2)-D	40-80	2.85

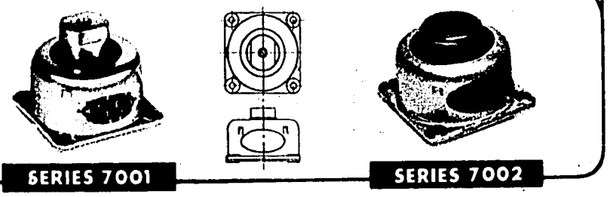
Robinson MET-L-FLEX Engineered Mounting Systems, Mounting Bases and Unit Mounts are compact, rugged and effective. They feature an exclusive all-metal resilient element, made of knitted stainless steel wire, fabricated and compressed. This cushion provides wide environmental tolerance with high built-in damping, resulting in "Sea level performance at any altitude". Its non-linear deflection characteristics permit optimum performance under load variations of as much as ±50% of mean ratings. Auxiliary MET-L-FLEX limiter pads afford additional protection against extreme overloads and impacts.

Further "Plus Features" exclusive with all MET-L-FLEX Mounts and Mounting bases are: negligible drift rate; wide temperature tolerance (-90°C to +175°C); and amazingly long service life without maintenance. They completely lack those faults and weaknesses inherent to mountings incorporating organic or plastic materials.

The "Plus Features" of Robinson Mountings, providing performance in excess of current specifications, pay off in maximum protection of the mounted equipment.

For complete performance and construction details, write for Technical Bulletin EB-700 and the telephone number of your local representative.

*MET-L-FLEX is the copyrighted designation for the all-metal resilient cushions developed and pioneered by Robinson.



SERIES 7001 SERIES 7002

Model Number	Application Range in Lbs.
7001-H	½ to 1
7001-J	¾ to 1¾
7001-K	1½ to 3
7001-L	2½ to 5½
7001-M	5 to 10

Model Number	Application Range in Lbs.
7002-G	1½ to 2¾
7002-H	2½ to 6
7002-J	4½ to 10
7002-K	5½ to 12½
7002-L	10 to 20
7002-M	18 to 40
7002-P	35 to 50
7002-R	45 to 75

ROBINSON AVIATION INC.

TETERBORO, NEW JERSEY

Vibration Control Engineers

(Continued from page 65)

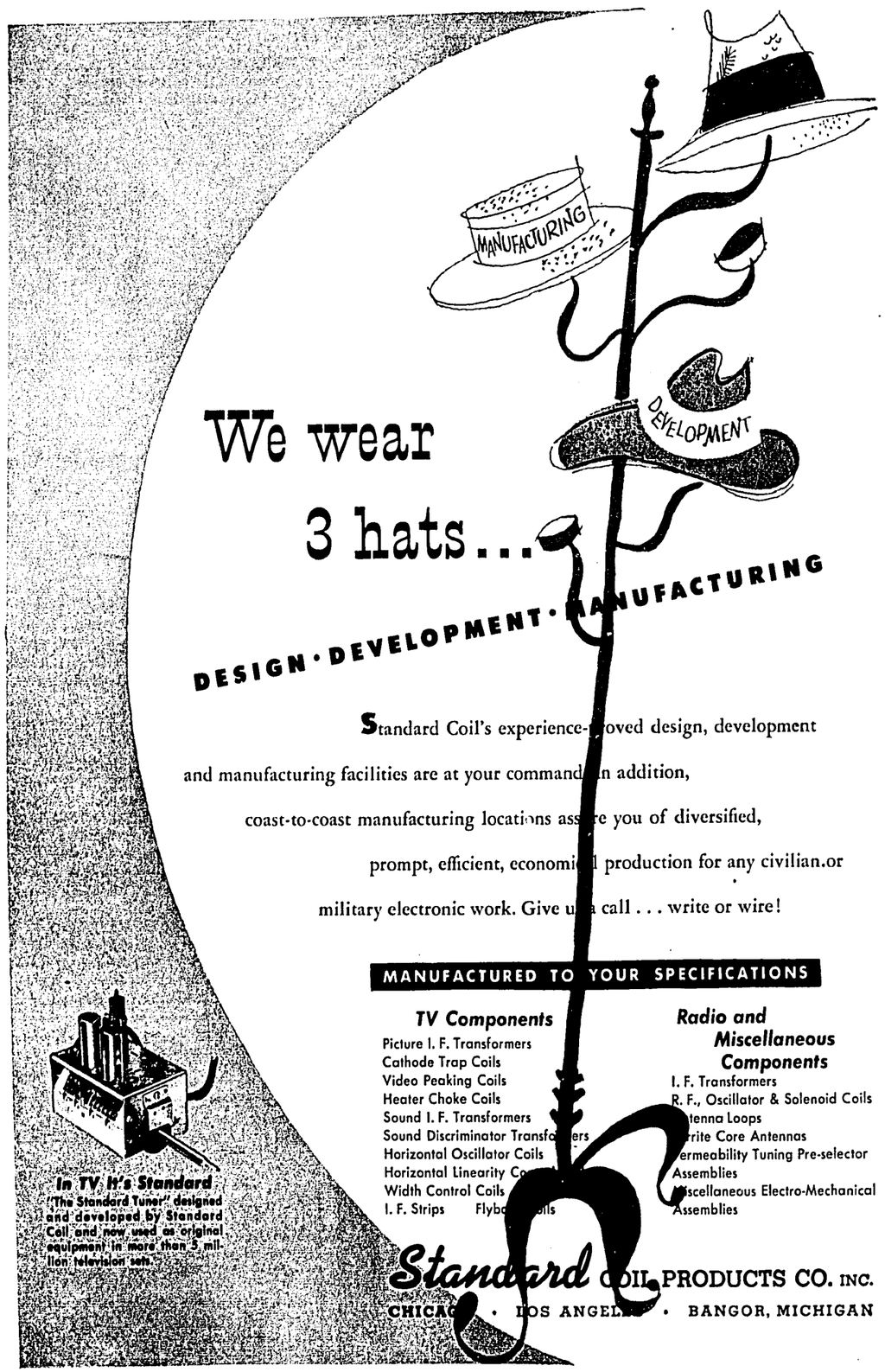
Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 0
For details see ad on page 78
Triplett & Barton, Inc., 831 N. Lake St., Burbank, Calif., 6
Triplett Electrical Instr., Co., Harmon Rd., Bluffton, Ohio, 3, 7
Triumph Mfg. Co., 913 W. Van Buren St., Chicago 7, Ill., 3, 5, 6, 7
Truelove & MacLean, Inc., Waterville St., Waterbury 14, Conn., 6
Tru-Ohm Products, 2800 N. Milwaukee Ave., Chicago 18, Ill., 3
Truscon Steel Co., Albert St., Youngstown 1, Ohio, 1, 2
For details see ad on page 88
Tucker & Co., 545 Fifth Ave., New York 17, N.Y., 6
Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N.J., 3
For details see ad on page 72
Turner Co., 909 17 St. N.E., Cedar Rapids, Iowa, 0
For details see ad on page 82
Tycho, Roberg A.-B., Packhusplatsen 1, P.O. Box Gothenburg, Sweden, 1, 2, 5, 6
Tyniswitch Div., Sessions Clock Co., Conn., E. Main St., Forestville, Conn., 3

U. H. F. Resonator Co., 224 7 St., Racine, Wis., 1, 3, 5
Ucinite Co., Div. of United-Carr Fas., 459 Watertown St., Newtonville 60, Mass., 3, 6
Ulanet Co., George, 413 Market St., Newark 5, N.J., 3, 6
For details see ad on page 161
Ultradyne Engineering Labs., Station C, Box 8172, Albuquerque, N.M., 2, 3, 8
Ungar Elec. Tools, Inc., 615 Ducommun St., Los Angeles 54, Calif., 6
Uniform Tubes, Level Rd., Collegeville 2, Pa., 4, 6
Unimax Switch Div., W. L. Maxson Corp., 460 W. 34 St., New York 1, N.Y., 3
For details see ad on page 253
Union Carbide & Carbon Co., Kemet Div., Madison Ave., & W. 117 St., Cleveland 1, Ohio, 6
Union Carbide & Carbon Co., Linde Div., 30 E. 42 St., New York 17, N.Y., 6
United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass., 3, 6
United Catalog Publishers, Inc., 106-110 Lafayette St., New York 13, N.Y., 8
United Condenser Corp., 337 E. 139 St., New York 54, N.Y., 3
United Electronics Co., 42 Spring St., Newark 2, N.J., 3
United Mfg. & Service Co., 405 S. Sixth St., Milwaukee 4, Wis., 6
United Specialties Co., Edmund & Shelmire Sts., Philadelphia 36, Pa., 3, 6
United States Electrical Tool Co., 1050 Findlay S., Cincinnati 14, Ohio, 6
U. S. Electronic Co., 84 Howard Ave., New Haven 11, Conn., 0
United States Electronics Corp., 275 Warren St., Lyndhurst, N.J., 0, 3
For details see ad on page 115
U. S. Engineering Co., 521 Commercial S., Glendale 3, Calif., 3, 6
United States Gasket Co., 602 N. 10 St., Camden 1, N.J., 3, 6
For details see ad on page 217
United States Instrument Corp., Summit, N.J., 3
U. S. Radium Corp., 535 Pearl St., New York 7, N.Y., 6, 7
U. S. Recording Co., 1121 Vermont Ave. N.W., Washington 5, D.C., 0, 1, 6
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N.Y., 6
United States Steel Co., 525 William Penn Pl., Pitsburgh 30, Pa., 6
United States Testing Co., Inc., 1415 Park Ave., Hoboken, N.J., 6
For details see ad on page 67
United Technical Labs., Morristown, N.J., 6
United Transformer Co., 150 Varick St., New York 13, N.Y., 0, 3, 4
See complete catalog filed alphabetically in last section.
United Wood Specialty Mfg. Co., 951 Broadway, Fall River, Mass., 3
Universal Aviation Corp., 230 Park Ave., New York 17, N.Y., 2, 3, 6
Universal Electronics Co., 2012 S. Sepulveda Blvd., Los Angeles 25, Calif., 3
Universal Elec. Stage Lighting Co., 321 W. 50 St., New York 19, N.Y., 1, 3
Universal Mfg. Co., Inc., 410 Hillside Ave., Hillside, N.J., 3
For details see ad on page 111
Universal Winding Co., 1655 Elmwood Ave., Providence 1, R.I., 6
Universal X-Ray Prod., Inc., 1140 N. Western Ave., Chicago 22, Ill., 3, 4, 6
University Loudspeakers, Inc., 80 S. Kensico Ave., White Plains, N.Y., 0
For details see ad on page 79
Utah Radio Products Co., Inc., 1123 E. Franklin, Huntington, Ind., 0, 3
Utica Drop Forge, 2415 Whitesboro St., Utica 4, N.Y., 6

V-M Corp., Benton Harbor, Mich., 0
Vaco Products Co., 317 E. Ontario, Chicago 11, Ill., 6
Vactron, 398 Ashford Ave., Dobbs Ferry, N.Y., 3
Vacuum-Electronic Eng. Co., 756 Third Ave., Brooklyn 32, N.Y., 7
Vacuum Tube Products, 506 S. Cleveland St., Oceanside, Calif., 3, 6
Vallorbs Jewel Co., P.O. Box 958, Lancaster, Pa., 0, 6
Valpey Crystal Corp., 1274 Highland St., Holliston 1, Mass., 3
Valverde Laboratories, 252 Lafayette St., New York 12, N.Y., 3
Vanby Corp., 122 E. 42 St., New York 17, N.Y., 6
Van Deventer, Inc., H. R., 342 Madison Ave., New York 17, N.Y., 6
Varflex Corp., 305 N. Jay St., Rome, N.Y., 6
Varian Associates, 990 Varian St., San Carlos, Calif., 3, 6
For details see ad on page 176

(Continued on page 69)





We wear 3 hats...

DESIGN · DEVELOPMENT · MANUFACTURING

Standard Coil's experience-proved design, development and manufacturing facilities are at your command. In addition, coast-to-coast manufacturing locations assure you of diversified, prompt, efficient, economical production for any civilian or military electronic work. Give us a call . . . write or wire!

MANUFACTURED TO YOUR SPECIFICATIONS

TV Components

Picture I. F. Transformers
Cathode Trap Coils
Video Peaking Coils
Heater Choke Coils
Sound I. F. Transformers
Sound Discriminator Transformers
Horizontal Oscillator Coils
Horizontal Linearity Coils
Width Control Coils
I. F. Strips Flyback Coils

Radio and Miscellaneous Components

I. F. Transformers
R. F., Oscillator & Solenoid Coils
Antenna Loops
Ferrite Core Antennas
Permeability Tuning Pre-selector Assemblies
Miscellaneous Electro-Mechanical Assemblies

In TV It's Standard
"The Standard Tuner" designed and developed by Standard Coil and now used as original equipment in more than 5 million television sets.

Standard COIL PRODUCTS CO. INC.
CHICAGO · LOS ANGELES · BANGOR, MICHIGAN

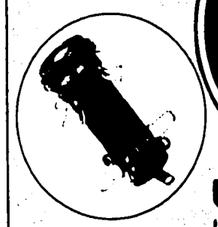
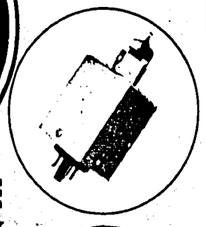
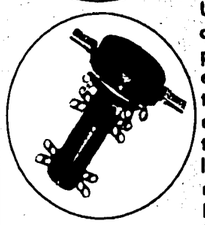
(Continued from page 67)

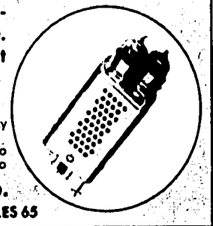
Varo Mfg. Co., Inc., 1801 Walnut St., Garland, Texas, 3, 7
Vector Electronic Co., 3352 San Fernando Rd., Los Angeles 65, Calif., 3, 6
For details see ad on page 69
Vectron, Inc., 235 High St., Waltham 54, Mass., 0, 7
Veri-Best Electronics Co., 655 Main St., Westbury, L.I., N.Y., 1, 3
Vibraloc Corp., 425 Bush St., San Francisco 8, Calif., 3
Vibroplex Co., Inc., 833 Broadway, New York 3, N.Y., 3
Vickers Elec. Div. of Vickers, Inc., 1815 Locust St., St. Louis 3, Mo., 3
Victoreen Instrument Co., 5806 Hough Ave., Cleveland 3, Ohio, 3, 4, 7
Victorlite Ind., 5350 Second Ave., Los Angeles 43, Calif., 1
Victory Engineering Corp., Springfield Rd., Union, N.J., 3
For details see ad on page 175
Vidaire Television Co., 576 W. Merrick Rd., Lynbrook, L.I., N.Y., 0, 1
Video Corp. of America, 229 W. 28 St., New York 1, N.Y., 0, 1, 3, 5
Video Industries Co., 42-46 Palmer Pl., Port Chester, N.Y., 3
Video Products Corp., 42 West St., Red Bank, N.J., 1, 3
Vitavox, Ltd., Westmoreland Rd., London, N. W. 9, England, 0
Vitramon, Inc., Box 544, Bridgeport 1, Conn., 3
Vitroseal Corp., 6325 Guilford Ave., Indianapolis 20, Ind., 6
Vokar Corp., Dexter, Mich., 0, 3, 4
Volkert Metal Stampings, Inc., John, 222-34 96 Ave., Queens Village 8, N.Y., 6
Vorac Co., 147 Meadow Rd., Rutherford, N.J., 6
Vulcan Electric Co., 88 Holten St., Danvers, Mass., 3, 6

Wadsworth Mfg. Associates, 509 Balsam St., Liverpool, N.Y., 3, 6
Waldes Kohinoor, 47-16 Austel Pl., Long Island City 1, N.Y., 6
Walker Electric Co., B., 354 Ocean Ave., Brooklyn 26, N.Y., 4
Walker Co., George, 118 Amsterdam Ave., Passaic, N.J., 6
For details see ad on page 229
Walker-Turner Div., Plainfield, N.J., 6
Walkirt Co., 145 W. Hazel, Inglewood, Calif., 0, 1, 3, 4, 6, 7
Walsh Press & Die Co., 4709 W. Kinzie St., Chicago 44, Ill., 6
Waltham Horological Corp., 899 Main St., Waltham 54, Mass., 0, 3
Wang Labs., 296 Columbus Ave., Boston 16, Mass., 3, 4, 6
Wappler, Inc., 27 West 24 St., New York 10, N.Y., 4
Ward Leonard Electric Co., Mt. Vernon, N.Y., 4
Ward Products Corp., 1523 E. 45 St., Cleveland 3, Ohio, 2, 3, 5

PATENT PENDING
Socket-Turrets for most tube types will carry a wide variety of circuit elements.

Plug-ins of many sizes with sockets and plugs as desired provide great flexibility in circuitry

Vector
SOCKET-TURRETS

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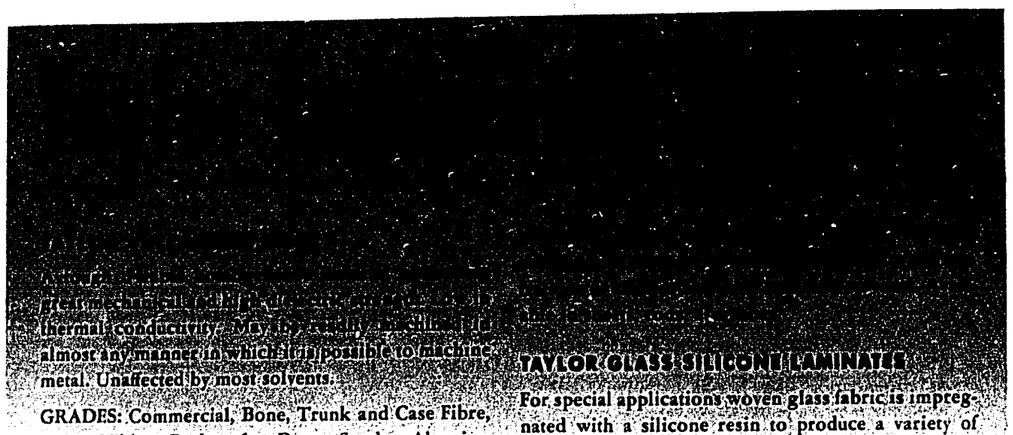
Unitize those tricky circuits for quick change or repair, compactness, top performance, ease and economy of fabrication. Hundreds of experimenters and designers have found the answer they have been looking for in the Socket-Turret Method of construction. New and improved models for the most exacting applications are now available. Let us tell you more about them. Send for catalog.

REPRESENTATIVES
B. B. Taylor Co., 150 Broadway, N.Y. City
Anderson Sales, 172 State St., Boston
R. J. Magnuson, 2323 W. Devon, Chicago
D. H. Ross Co., 1355 Market, San Francisco

Vector Electronic Co.
3352 SAN FERNANDO RD., LOS ANGELES 65

Vitreosil Corp., 6325 Guilford Ave., Indianapolis 20, Ind., 6
Vokar Corp., Dexter, Mich., 0, 3, 4
Volkert Metal Stampings, Inc., John, 222-34 96 Ave., Queens Village 8, N.Y., 6
Vorac Co., 147 Meadow Rd., Rutherford, N.J., 6
Vulcan Electric Co., 88 Holten St., Danvers, Mass., 3, 6

Wadsworth Mfg. Associates, 509 Balsam St., Liverpool, N.Y., 3, 6
Waldes Kohinoor, 47-16 Austel Pl., Long Island City 1, N.Y., 6
Walker Electric Co., B., 354 Ocean Ave., Brooklyn 26, N.Y., 4
Walker Co., George, 118 Amsterdam Ave., Passaic, N.J., 6
For details see ad on page 229
Walker-Turner Div., Plainfield, N.J., 6
Walkirt Co., 145 W. Hazel, Inglewood, Calif., 0, 1, 3, 4, 6, 7
Walsh Press & Die Co., 4709 W. Kinzie St., Chicago 44, Ill., 6
Waltham Horological Corp., 899 Main St., Waltham 54, Mass., 0, 3
Wang Labs., 296 Columbus Ave., Boston 16, Mass., 3, 4, 6
Wappler, Inc., 27 West 24 St., New York 10, N.Y., 4
Ward Leonard Electric Co., Mt. Vernon, N.Y., 4
Ward Products Corp., 1523 E. 45 St., Cleveland 3, Ohio, 2, 3, 5
Warrick, Frederick P., 1960 Graefield Rd., Birmingham, Mich., 7
Warren Wire Co., Pownal, Vt., 6
Washington Technological Assoc., 3000 Connecticut Ave., N.W., Washington 8, D.C., 6
Waterbury Companies, Inc., 835 S. Main St., Waterbury 20, Conn., 3, 6
Waterman Products Co., Inc., 2445-63 Emerald St., Philadelphia 25, Pa., 7
For details see ad on pages 326-7
Waters Conley Co., Rochester, Minn., 0
Waters, Inc., Robert A., 4 Gordon St., Waltham 54, Mass., 3, 4, 7
Waveforms, Inc., 333 Sixth Ave., New York 14, N.Y., 0, 1, 6, 7
Waveline, Inc., P.O. Box 470, N. Caldwell, N.J., 5, 7
For details see ad on page 265
Wayne Kerr Labs., Ltd., Sycamore Grove, New Malden, Surrey, England, 7
Webster-Chicago Corp., 5610 W. Bloomingdale, Chicago 39, Ill., 0
Webster Electric Co., 1900 Clark St., Racine, Wis., 0
Wein, Samuel, 2310 Holland Ave., Bronx 67, N.Y., 6
Weinschel Engineering Co., 919 Jessup Blair Dr., Silver Springs, Md., 0, 7
Weingarten Electronic Labs., Inc., 7356 Melrose Ave., Los Angeles 46, Calif., 0, 1, 6
Welch Mfg. Co., W. M., 1515 Sedgwick St., Chicago 14, Ill., 3, 6, 7
Weller Electric Corp., 808 Packer St., Easton, Pa., 6
Wells-Gardner & Co., 2701 N. Kildare Ave., Chicago 39, Ill., 0, 5
Weltronic Co., 19500 W. 8 Mile Rd., Detroit 19, Mich., 3, 4
West Coast Electronics Co., 1601 S. Burlington Ave., Los Angeles 6, Calif., 0, 2, 3, 5, 6, 7
West Michigan Sound Co., 1495 Lakeshore Dr., Muskegon, Mich., 0, 6
West Va. Pulp & Paper Co., 230 Park Ave., New York 17, N.Y., 3
Westchester Research & Dev. Labs., 28 Windermere Dr., Yonkers, N.Y., 6
Western Electronic Enterprises, P.O. Box 1116, Gardena, Calif., 2, 3, 5, 6
Western Gold & Platinum Works, 589 Bryant, San Francisco 7, Calif., 6, 7
Western Lithograph Co., 600 E. Second St., Los Angeles 54, Calif., 6
Western Sound & Elec. Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis., 0, 1, 3, 4, 6, 7
Western Union Telegraph Co., 60 Hudson St., New York 13, N.Y., 2
Westfield Metal Products Co., Inc., 163 Elm St., Westfield, Mass., 6
Westinghouse Electric Corp., 401 Liberty Ave., P.O. Box 2278, Pittsburgh 30, Pa., 1, 2, 3, 4, 5, 6, 7
Westinghouse Electric Corp., 95 Orange St., Newark 1, N.J., 3
Westinghouse Elec. Corp., MacArthur Ave., Bloomfield, N.J., 3
Westinghouse Electric Corp., P.O. Box 284, Elmira, N.Y., 3
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N.J., 1, 3, 7
For details see ad on page 258
(Continued on page 71)



GRADES: Commercial, Bone, Trunk and Case Fibre, Super White, Backer for Drum Sander Abrasive, Abrasive Disc Backing, and Flexible Fibre.

STANDARD COLORS: Red, Black, Gray, and a full range of trunk colors.

SIZES: Sheets 56″x90″, except Bone Fibre—52″x90″ and Super White—54″x90″; Rolls 56″ wide. Sheet thicknesses from .005″ to 1″; Roll thicknesses from .005″ to .060″.

TAYLOR INSULATION

Possesses the same general characteristics as Taylor Vulcanized Fibre. It is unusually free from foreign matter which might impair its efficiency as an insulator. Extremely tough with high dielectric strength and excellent bending qualities. Available in sheets and continuous rolls. Thicknesses range from .005″ to 1/8″. Approximate sheet size—56″x90″, roll widths from 3/16″ to 56″.

TAYLOR PHENOL LAMINATES

Waterproof insulating materials unaffected by normal ranges of heat and cold . . . may be used as the sole support for current-carrying parts in many types of electrical apparatus . . . will not warp when subjected to alternating wet and dry conditions . . . resistant to oils and most chemicals . . . especially suited to the machining of accurately sized parts. Available in sheets, tubes, rods, strips and coils. Type Fillers: Paper; Cotton Fabric or Mat; Asbestos Paper, Fabric or Mat; Glass Fabric or Mat; Nylon Fabric.

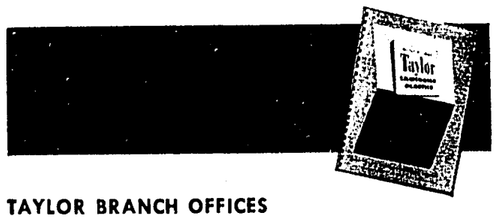
TAYLOR GLASS MELAMINE LAMINATES

These laminates possess excellent electrical properties with great mechanical strength. In addition to good

For special applications woven glass fabric is impregnated with a silicone resin to produce a variety of materials that combine high heat resistance with excellent mechanical and electrical properties. Taylor Silicone Laminates have a low loss factor, can withstand temperatures as high as 500° F., and offer excellent resistance to acids and alkalies.

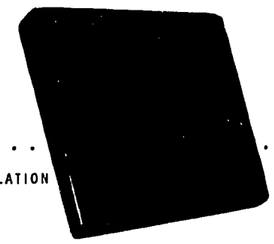
TAYLOR FABRICATING SERVICE

The Taylor Fabricating Division is equipped to handle any type of fabricating operation on Taylor Laminated Plastics. Skilled craftsmen operating precision machines turn out parts to meet the most exacting specifications.



TAYLOR BRANCH OFFICES

Los Angeles, California—5392 Alhambra Ave.
Tolland, Connecticut
Chicago, Illinois—4554 N. Ravenswood Ave.
Indianapolis, Indiana—6145 N. Ewing St.
Newton (Boston), Massachusetts—313 Washington St.
Detroit, Michigan—6560 Cass Ave.
St. Louis, Missouri—13 N. Meramec St., Clayton
Jersey City, New Jersey—26 Journal Square
New York, New York—26 Journal Square (Jersey City, N. J.)
Rochester, New York—214 Cutler Bldg., 42 East Ave.
Cleveland, Ohio—Euclid 71st Bldg., 7016 Euclid Ave.
Dayton, Ohio—238 Lafayette St.
Philadelphia, Pennsylvania—401 North Broad St.
Pittsburgh, Pennsylvania—822 Wood St.
Milwaukee, Wisconsin—2400 W. Clybourn St.



TAYLOR FIBRE CO.

NORRISTOWN, PA. • LA VERNE, CALIF.

VULCANIZED FIBRE • TAYLOR INSULATION

PHENOL, SILICONE & MELAMINE LAMINATES • FABRICATED PARTS

(Continued from page 69)

Wheaton Co., T. C., Millville, N.J., 3, 6
Wheeler, Harold A., 122 Cutter Mill Great Neck, L.I., N.Y., 6
For details see ad on page 237
Wheeler Insul. Wire Co., 150 E. Aurora St., Waterbury 20, Conn., 3, 6
Wheeler Labs, Inc., 122 Cutter Mill Rd., Great Neck, L.I., N.Y., 5, 6, 7
For details see ad on page 237
White Industrial Div., S. S., 10 E. 40 St., New York, N.Y., 3, 6
White Industries, Inc., 421 W. 54 St., New York 19, N.Y., 0, 2, 3, 4, 6
For details see ad on page 219
Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 15, Mich., 6
Whitney Blake Co., 1565 Dixwell Ave., New Haven 14, Conn., 6
Whitso, Inc., 2037 Churchill St., Chicago 47, Ill., 6
Wilbur & Williams Co., 130 Lincoln St., Brighton 35, Mass., 6
Wilcox Electric Co., Inc., 1400 Chestnut St., Kansas City 1, Mo., 2, 5
Wilder Mfg. Co., Inc., Mechanic St. & Erie RR., Port Jervis, N.Y., 6
For details see ad on page 244
Wiley & Sons, Inc., John, 440 Fourth Ave., New York 16, N.Y., 8
For details see ad on page 276
Wilkor Div., Aerovox Corp., 2882 Detroit Ave., Cleveland 13, Ohio, 3
For details see ad on page 298-301
Willard Storage Battery Co., 246-286 E. 131 St., Cleveland 1, Ohio, 3
Williams & Co., C. K., 2001 Lynch Ave., E. St. Louis, Ill., 6
Williams, Everard M., 619 S. Linden Ave., Pittsburgh 8, Pa., 6
Willor Mfg. Corp., 794 E. 140 St., New York 54, N.Y., 0, 2, 3, 6

Code Numbers TELL YOU



what each company does or makes. The number after each address refers you to the 10 Product Directories, in which detailed product or service information on the firm will be found.

Key to codes is:

	Page
0. Audio Equipment	73
1. Broadcasting	87
2. Communications	93
3. Components	101
4. Electronic Applications	177
5. Radar-Microwave	191
6. Services, Materials and Consultants	201
7. Test Equipment	251
8. Educational	275
9. Distribution	277

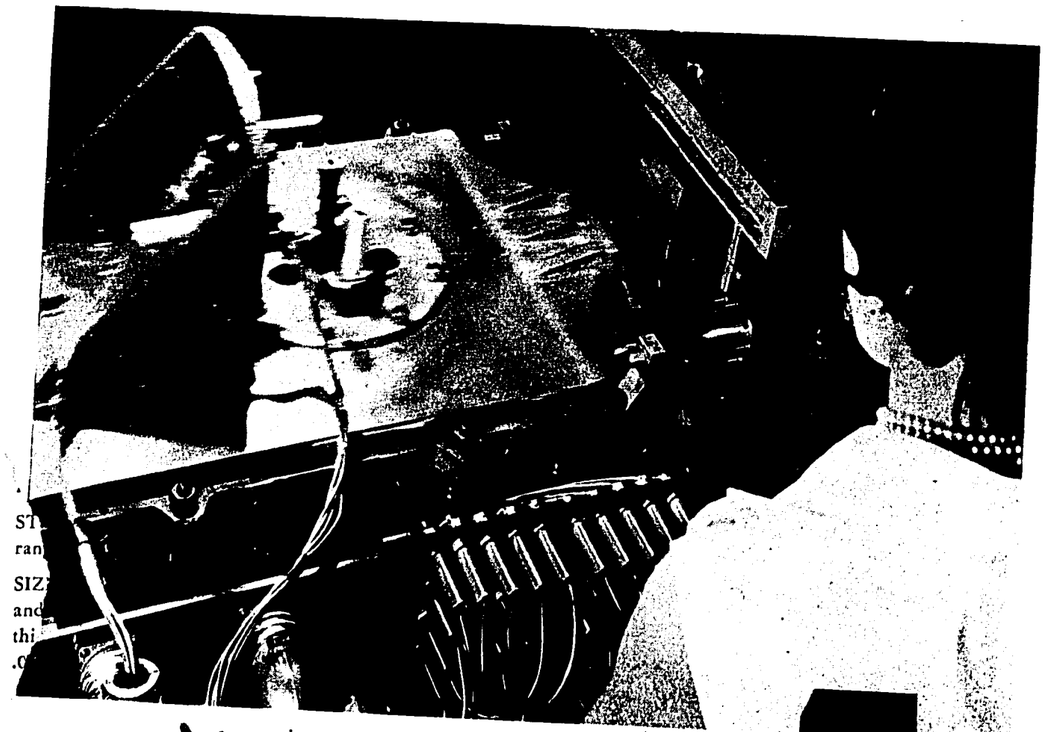
	Page
PINK SECTION gives guide to Products Index by products in the 10 Product Directories	I-viii
PART 2—Alphabetical List of Firms	3-72
PART 3—Product Directory in 10 Sections	73-295
PART 4—Complete Data Spreads	297-359
CATALOGS (Alphabetically)	360
Ad Indexes:	295 & Cover 3

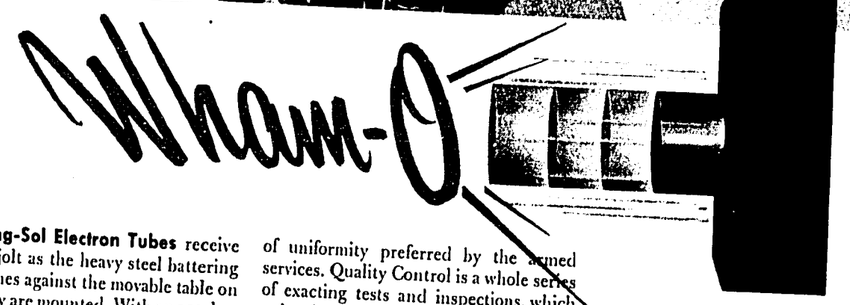
Wilmington Fibre Specialty Co., P.O. Drawer 1028, Wilmington 99, Del., 6
Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N.J., 3
Wilson Co., H. A., U. S. Route 22, Union, N.J., 6
Wincharger Corp., E. 7 & Division Sts., Sioux City 2, Iowa, 1, 2, 3
Winchester Electronics, Inc., 15 Crescent St., Glenbrook, Conn., 3, 6
For details see ad on page 118
Winchester Industries, Inc., 36 River Edge Rd., River Edge, N.J., 2, 6, 7
Wind Turbine Co., 248 E. Market St., West Chester, Pa., 1, 2, 3
For details see ad on page 87
Winslow Co., Inc., 9 Liberty St., Newark 5, N.J., 0, 3, 6, 7
Winsted Div., 981 Main St., Winsted, Conn., 6
Winters, T. Starling, 100 E. Palisade Ave., Englewood, N.J., 4, 6
Wireway Corp. of America, 1331 Halsey St., Brooklyn 27, N.Y., 0, 6
Wirt Co., 5221 Greene St., Philadelphia 44, Pa., 3
Witco Mfg. Co., Inc., Germantown, Ohio, 6
Wood Counter Laboratory, N., 3491 Blackstone, Chicago, Ill., 4
Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif., 4, 6
Worcester Pressed Steel Co., 100 Barber Ave., Worcester 6, Mass., 6
Workshop Associates, Div. of Gabriel Co., 135 Crescent Rd., Needham Hgts, 94, Mass., 1, 2, 3, 5
Worner Electronic Devices, Rankin, Ill., 0, 4
Wright Engineering Co., 4241 Melbourne Rd., Indianapolis 44, Md., 0, 2, 3, 5, 6
Wright, Inc., 2233 University Ave., St. Paul 4, Minn., 6
Wright & Sons Co., Wm. E., West Warren, Mass., 6
Wright-Zimmerman, Inc., New Brighton 12, Minn., 0, 3
For details see ad on page 81
Wrought Washer Mfg. Co., 2278 S. Bay St., Milwaukee 7, Wis., 6

Xcelite, Inc., Thorne Ave., Orchard Park, N.Y., 6

Yardney Electric Corp., 105-107 Chambers St., New York 7, N.Y., 3
Yonkers Industries, Inc., 28 School St., Yonkers, N.Y., 1, 3, 7
York Co., Inc., O. H., 69 Glenwood Pl., E. Orange, N.J., 6, 7

Zenith Optical Laboratory, 1940 Great Neck Rd., Copiague, L.I., N.Y., 3
Zephyr Products Co., 160 E. 116 St., New York 29, N.Y., 0
Zetka Television Tubes, Inc., 131 Getty Ave., Clifton, N.J., 3
Zophar Mills, Inc., 112 26 St., Brooklyn 32, N.Y., 6
For details see ad on page 237





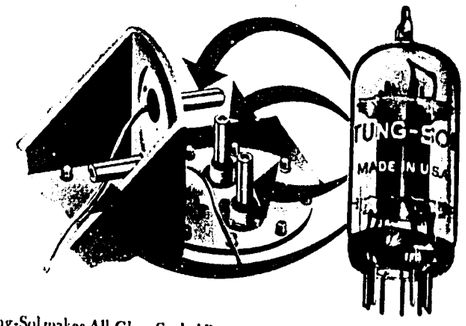
Four Tung-Sol Electron Tubes receive a terrific jolt as the heavy steel battering ram smashes against the movable table on which they are mounted. With an acceleration up to one thousand times the pull of gravity, this testing machine can give tubes a wicked beating.

Like other manufacturers, Tung-Sol is producing its share of defense requirements and it is vigorous Quality Control procedures such as this which give Tung-Sol Tubes the exceptionally high degree of uniformity preferred by the armed services. Quality Control is a whole series of exacting tests and inspections which point the way to better, more dependable tubes—sturdier both mechanically and electrically. Ruggedized Tubes we call them.

The ruggedized feature embodied in Tung-Sol Tubes for radio, TV and special industrial applications means top performance, longer and more efficient service life, plus lowest maintenance. So, for whatever purpose you use electron tubes, you'll find greater satisfaction with Tung-Sol Tubes and Tung-Sol Service.

Write for sales or engineering information, or for the name of the Tung-Sol distributor nearest you.

TUNG-SOL ELECTRIC INC., Newark 4, N. J.
Sales Offices: Atlanta · Chicago · Culver City
Dallas · Denver · Detroit · Newark



The four tubes are mounted in different positions to determine stability in all directions. Each tube is wired to a control panel where any electrical damage is recorded by indicator lights.

TUNG-SOL ELECTRON TUBES
RUGGEDIZED for Rugged Service

Tung-Sol makes All-Glass Sealed Beam Lamps, Miniature Lamps, Signal Flashers, Picture Tubes, Radio, TV and Special Purpose Electron Tubes.

Part Three—1952

The Business and Product Sections of this Directory are included for the service of IRE Members, so that this book will be complete as an index of an industry—listing Engineers, the Businesses they have founded, and the Products they have created for radio, television, communications and electronics.

Grateful acknowledgement is made to the nearly 3000 firms who so helpfully cooperated by answering our detailed questionnaires, and to the 367 advertisers whose informative advertising, and financial investment in space have made this project possible.

Parts 2 through 4 have been prepared by the Advertising Department, plan and make-up by William C. Copp; supervision, Lillian Petranek; research, Frank G. MacAloon; production, Martha Usdin. Directory 9 includes information supplied by NEDA and The Reps. All product data is from questionnaires, Product News Stories and salesmen's reports received in 1951 and 1952, and firms not answering within 18 months of publication have been omitted for the sake of accuracy.

The complete code-key to products is given in the pink pages between Parts 1 and 2, just after the membership section. A cross-index by products in alphabetical order is also included. The Machol Edge Index this year guides you to the ten separate product and service sections only; and the numbers at the end of each address in the List of Firms corresponds to these directories—thus classifying each firm. In the Product Directories 101 major groups are further defined by sub-class numbers after a firm's listing, which gives you great product detail, simply grouped.

MACHOL EDGE INDEX LICENSE NO. 25

Directory	Products	Page
0	Audio	73
1	Broadcast	87
2	Communications	93
3	Components	101
4	Applications of Electronics	177
5	Radar	191
6	Services & Raw Materials	201
7	Testing	251
8	Education	275
9	Distributors	277

How to Use the Machol Edge Index

INSTRUCTIONS

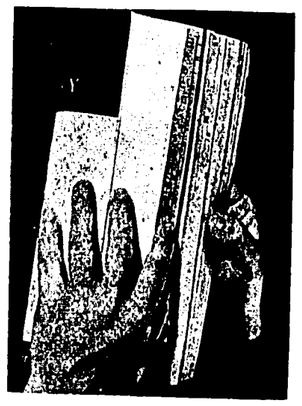
1 Place the four fingers of your RIGHT hand back of the last page of this book.

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3 Raise your RIGHT hand slightly and push it to the left bending the pages almost double. *This will spread the edges and cause the edge marks to show more clearly.*

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5 Open there—that will be the page you want.



Part One—Lists 26,500 IRE Member Engineers

Part Two—A Directory of Radio-Electronic Firms

Part Three—Products Index

Part Four—Catalogs and Complete Data Spreads

Ad. Index	295-6 Cov. III
Complete Spreads and Catalogs Part Four	297 360

1952 IRE DIRECTORY INDEX TO ADVERTISERS

Firm — Page

AGA Div. of Elastic Stop Nut Corp. of America 147
Ace Engineering & Machine Co., Inc. ..254
Acme Electric Corp. 163
Adams & Westlake Co., Relay Div. .Catalog
Advance Electronics Co. 269
Advance Insulated Wire & Cable Co. ...201
Aeronautical Electric & Manufacturing Co. 137
Aerovox Corp. 298-301
Aircraft Radio Corp. 3
Aircraft Transformer Corp. 4
Air-Marine Motors, Inc. ....Catalog
Airtron, Inc. 197
Alden Products Co. 116
Allied Radio Corp. 278
American Brass Co. 218
American Lava Corp. 8
American Phenolic Corp. 2
Amperex Electronic Corp. 169
Amperite Co., Inc. 5
Ampex Electric Corp. 84
Anton Electronic Laboratories, Inc. 172
Applied Science Corp. 159, 187
Arco Electronics, Inc. ....Catalog
Arma Corporation 12
Arrow Electronics, Inc. 280
Art Wire & Stamping Co. 213
Astron Corp. 106
Atlantic India Rubber Works, Inc. 7
Audio Development Co. 76

Ballantine Laboratories, Inc. 270
Barber Laboratories, Alfred W. 233
Barker & Williamson, Inc. 112
Bart Laboratories Co., Inc. 211
Bauman & Bluzat 279
Bead Chain Manufacturing Co. 9
Belden Manufacturing Co. ....Cover II
Bendix Aviation Corp., Eclipse-Pioneer Division 128, 133
Bendix Aviation Corp., Pacific Div. 189
Bendix Aviation Corp., Red Bank Div. 16, 171
Bentley Harris Manfacturing Co. 233
Berkeley Scientific Corp. 184
Berlant Associates 86
Birnbach Radio Co., Inc. ....Catalog
Biwax Corp. 237
Bliley Electric Co. 20
Bodnar Industries, Inc. 221
Bogart Manufacturing Corp. 194
Bogue Electric Manufacturing Co. 24
Bond Electronics Corp. 149
Borg Equipment Div., G. W. Borg Corp. 11, 151
Boyle Metalcraft Corp. 103
Brady Co., W. H. 219
Brainin Co., C. S. 219
Browning Laboratories, Inc. 267
Buchanan Electrical Products Corp. 221
Burgess Battery Co. 102
Burlington Instrument Co. 129
Burnell & Co. 6
Bussmann Manufacturing Co. 126

Cambridge Thermionic Corp. 220
Camera Equipment Co. 92
Cargo Packers, Inc. 13
Carter Motor Co. 137
Centralab Div. Globe-Union, Inc. ..Catalog
Century Metalcraft Corp., Electronics Div. 263
Chase Resistor Co. 148
Chatham Electronics Corp. 302-3
Cherry-Channer Corp. 157, 201
Chester Cable Corp. 28
Chicago Condenser Corp. 107
Chicago Rivet & Machine Co. 15
Chicago Telephone Supply Corp. 342-3
Chicago Transformer Co. 162
Cinch Manufacturing Corp. 222
Citation Products Co. 221
Clark-Reiss Distributors 281
Cohn Corp., Sigmund 203
Coil Winding Equipment Co. 243, 244
Collectron Corp. 117
Collins Radio Co. 304-5
Columbia Technical Corp. 205
Columbia Wire & Supply Co. 203
Communication Measurements Laboratory, Inc. 138
Communication Products Co., Inc. 96, 158, 192, 196, 238
Communications Equipment Co. 282
Condor Radio Manufacturing Co. 223
Content, Edward J. 208
Continental Diamond Fibre Co. ...Catalog
Cramer Co., Inc., R. W. 136
Crest Laboratories, Inc. 164
Crosby Laboratories, Inc. 89, 208

Firm — Page

Cross Co., H. 245
Crucible Steel Co. of America 32
Curtiss-Wright Corp. 186

Dale Products, Inc. 358-9
Dalis, Inc., H. L. 283
Dalmo Victor Co. 191
Davidoff, Charles 208
Decade Instrument Co. 271
DeCoursey Engineering Laboratory 19
DeJur-Amsco Corp. 117, 131, 151
Deutschmann Corp., Tobe 125
Dial Light Co. of America, Inc. 139
Dietz Design & Manufacturing Co. 110
Division Lead Co. 306-7
Dolin Metal Products, Inc. 105
Drake Electric Works, Inc. 239
Driver Co., Wilbur B. 36
Dumont Electric Corp. 34
DuMont Laboratories, Inc., Allen B., Instrument Div. 169

Eby, Inc., Hugh H. 21
Edison Inc., Thomas A., Instrument Div. 145
Eisler Engineering Co., Inc. 241
Elco Corp. 10
Eldico of New York, Inc. 234
Electra Manufacturing Co. 153
Electran Manufacturing Co. 23
Electrical Industries Div., Amperex Electronic Corp. 18
Electro-Impulse Laboratory 198
Electro-Motive Manufacturing Co., Inc. 38
Electro Precision Products, Inc. 119
Electro-Seal Corp. 212
Electro-Search 234
Electro Tec Corp. 40
Electro-Tech Equipment Co. 283
Electronic Instrument Co., Inc. 22
Electronic Manufacturing Co. 249
Electronic Mechanics, Inc. 230
Electronic Parts Manufacturing Co. 25
Electronic Specialty Products Co. 110
Electronics Center, Inc. 283
Electrons, Inc. 173
Elk Electronic Laboratories 234
Epco Products, Inc. 161
Erie Resistor Corp. 14

Fairchild Camera & Instrument Corp. 150
Federal Screw Products, Inc. 223
Federal Telephone & Radio Corp. 309-13
Federal Tool Engineering Co. 241
Federated Semi-Conductor Co. 154
Finn & Co., Inc., T. R. 223
Ford Instrument Co., Div. of Sperry Corp. 177
Franklin Institute of Pennsylvania 234
Freed Transformer Co., Inc. ....Catalog
Frequency Standards 27
Fugle-Miller Laboratories 111, 113

General Ceramics & Steatite Corp. ..42, 44
General Dyestuff Corp., Antara Chemicals Div. 210
General Hermetic Sealing Corp. 214
General Precision Laboratory, Inc. 46
General Radio Co. ....316-7, Cover IV
Glass Products Co. 143
Godley Co., Paul 208
Gombos Co., Inc., John 77, 121, 214
Gordon, Herman Lewis 208
Gramer Transformer Corp. 165
Grant Pulley & Hardware Co. 104
Graphite Metallizing Corp. 225
Griffin Co., John 225
Guardian Electric Manufacturing Co. .. 48

Hammarlund Manufacturing Co., Inc. 319-21
Harder Co., Donald C. 241
Harnett Electric Corp. 114
Harrison Radio Corp. 285
Hawley Products Co. 227
Haydon Co., The A. W. 29
Heath Co., The 31
Heiland Research Corp. 180
Heinze Electric Co. 103
Heldor Manufacturing Co. 224
Heminway & Bartlett Manufacturing Co. 226
Heppner Manufacturing Co. 113
Hermetic Seal Products Co. 50
Hewlett-Packard Co. ....Catalog
Heyman Manufacturing Co. 226
Hickok Electrical Instrument Co. 130
Highland Engineering Co. 163, 234
Hi-Q Division, Aerovox Corp. 298-301
Hogan Laboratories, Inc. 235
Howard Industries, Inc. 135
Hudson Radio & Television Corp. Catalog
Hudson Tool & Die Co. 26
Hughes Aircraft Co. 33
Hughey & Phillips 52

Firm — Page

Hunt Corp., The 123
Hycon Manufacturing Co. 94

Illinois Condenser Co. 54
Indiana Steel Products Co. 129
Industrial Control Co. 35
Instrument Corp. of America 56
Instrument Resistors Co. 324-5
Instrument Specialties Co., Inc. 227
Insuline Corp. of America 100
International Rectifier Corp. 144

JFD Manufacturing Co., Inc. 37, 109
Jennings Radio Manufacturing Co. 329-31
Johnson & Hoffman Manufacturing Co. 332-3
Jones Division, H. B., Cinch Manufacturing Corp. 222

Kahle Engineering Co. 240
Kalbfell Laboratories, Inc. 235
Kay Electric Co. 262
Kellogg Co., M. W. 1
Kenyon Transformer Co., Inc. 334-5
Kepco Laboratories, Inc. 140
Kester Solder Co. 248
Keystone Products Co. 236
King Laboratories, Inc. 250
Kings Electronics Co., Inc. 120, 232
Kings Microwave Co., Inc. 336-7
Kinney Manufacturing Co. 242
Knights Co., James 90
Kollsman Instrument Corp. 188

Laboratory for Electronics, Inc. 58
Lake Chemical Co. 39
Lambda Electronics Corp. 141
Langevin Manufacturing Corp. 74
Lavoie Laboratories, Inc. 266
Lehigh Structural Steel Co. 98
Lenz Electric Manufacturing Co. 202
Lepel High Frequency Laboratories, Inc. 182
Lerner Instrument & Electronics Manufacturing Corp. 199
Littelfuse, Inc. 127

McGraw-Hill Book Co., Inc. 275
McLaughlin, J. L. A. 43
Machlett Laboratories, Inc. 174
Macmillan Co., The 276
Magnecord, Inc. 85
Magnetic Amplifiers, Inc. 185
Magnetics, Inc. 123
Makepeace Co., D. E. 60
Malco Tool & Manufacturing Co. 227
Marion Electrical Instrument Co. 132
Maxson Corp., W. L. 253
Measurements Corp. 209, 338-9
Mepco, Inc. 152
Metal Textile Corp. 228
Methode Manufacturing Corp. 156
Mica Fabricators Association 215
Microwave Associates, Inc. 264
Millen Manufacturing Co., Inc., James 272
Model Rectifier Corp. 45
Multicore Sales Corp. 62
Mycalex Corp. of America ....Catalog
Mycalex Electronics Corp. ....Catalog
Mycalex Tube Socket Corp. ....Catalog

National Moldite Co. 206
National Union Radio Corp. 168
Newark Electric Co. 287
Ney Co., J. M. 228
Norman Laboratories, Ernst 261
Northern Radio Co., Inc. 340-1

Optical Film Engineering Co. .... .. .243
Oregon Electronic Manufacturing Co. .. 49
Orthon Corporation, The 127

Panoramic Radio Products, Inc. 252
Par-Metal Products Corp. 105
Perkin Engineering Corp. 141
Phaostron Co. 356-7
Phillips & Hiss Co., Inc. 245
Pickering & Co., Inc. 83
Pix Manufacturing Co., Inc. 215
Planet Manufacturing Corp. 108
Plastoid Corp. 30
Polytechnic Research & Development Co., Inc. 314-5
Ponn Machine Cutting Co. 216
Potter & Brumfield 146
Potter Instrument Co., Inc. 179
Precise Development Corp. 256
Precise Measurements Co. 245
Precision Apparatus Co., Inc. 268
Precision Paper Tube Co. 51
Premier Metal Products Co. 109
Product Development Co., Inc. 193
Production Tool & Fixture Co. 244
Publishers' Authorized Binding Service 55
Quam-Nichols Co. 81

Firm — Page

Radio Cores, Inc. 53
Radio Corp. of America, Special Employment 294
Radio Corp. of America, Test Equipment 64
Radio Corp. of America, Tube Department 346-7
Radio Essentials, Inc. 288
Radio Materials Corp. 350-1
Radio Receptor Co., Inc. 143
Raypar, Incorporated 157
Reeves-Hoffman Corp. 124
Resistance Products Co. 155
Resistoflex Corp. 246
Rex Corp., The 231
Robinson Aviation, Inc. 66
Rohden Manufacturing Co. 247
Rosenberg Associates, Paul 235
Rowe Industries 207

Sanborn Co. 260
Scientific Electric ....Catalog
Secon Metals Corp. 207
Segel Co., Henry P. 290
Servo Corporation of America 344-5
Servomechanisms, Inc. 178
Shallcross Manufacturing Co. 160
Shure Brothers, Inc. 80
Simpson Electric Co. 134
Smith, Inc., Herman H. ....Catalog
Sola Electric Co. 167
Sound Apparatus Co. 59
Specialty Battery Co. 102
Spellman Television Co., Inc. 142
Spencer-Kennedy Laboratories, Inc. 274
Sperry-Gyroscope Co., Div. The Sperry Corp. ....Catalog
Stackpole Carbon Co. 348-9
Standard Coil Products Co., Inc. 68
Standard Electric Time Co. 263
Standard Piezo Co. 122
Standard Transformer Corp. 166
Star Expansion Products Co. 229
Staver Co., Inc., The 251
Stern, Roger M. 209
Stewart Manufacturing Corp., F. W. 61
Sticht & Co., Inc., Herman H. 257
Stupakoff Ceramic & Manufacturing Co. 322-3
Superior Electric Co. ....Catalog
Superior Tube Co. 354-5
Swift Industries, Inc. 230
Switchcraft, Inc. 78
Sylvania Electric Products Inc. 170, 352-3
Syncor Products Co. 233

TAB 291
Taylor Fibre Co. 70
Tech-Master Products Co. ....Catalog
Technical Materiel Corp. 237
Telechrome, Inc. 93, 237
Tel-Instrument Co., Inc. 259
Telrex, Inc. 237
Tenney Engineering, Inc. 255
Tensolite Insulated Wire Co., Inc. 204
Terminal Radio Corp. 292
Thompson, Harris A. 209
Thor Ceramics, Inc. 207
Times Facsimile Corp. 251
Titeflex, Inc. 200
Transformer Specialty Co. 167
Transicoil Corp. 190
Triad Transformer Manufacturing Co. .. 65
Trimm, Inc. 78
Truscon Steel Co. 88
Tung-Sol Electric, Inc. 72
Turner Co. 82

Ulanet Co., George 161
United States Electronics Corp. 115
United States Gasket Co. 217
United States Testing Co., Inc. 67
United Transformer Co. ....Catalog
Universal Manufacturing Co., Inc. 111
University Loudspeakers, Inc. 79

Varian Associates 176
Vector Electronic Co. 69
Victory Engineering Corp. 175

Walker Co., George 229
Waterman Products Co., Inc. 326-7
Waveline, Inc. 265
Weston Electrical Instrument Corp. 258
Wheeler Laboratories, Inc. 237
White Industries, Inc. 219
Wilder Manufacturing Co., Inc. 244
Wiley & Sons, Inc., John 276
Wilkor Div. of Aerovox Corp. 298-301
Winchester Electronics, Inc. 118
Wind Turbine Co. 87
Wright-Zimmerman, Inc. 81

Zophar Mills, Inc. 237

0. Audio Frequency Equipment



This section is designed to serve IRE Audio Engineers. It lists eleven product groups, with detail on 62 specific audio products. The section renders a complete and specialized service to our IRE Professional Audio Group.

005. Amplifiers.

5. Decade amplifiers
10. DC amplifiers
15. Dynamic noise suppressors
20. Hearing aid
25. High fidelity
30. Inter-coms
35. Phonograph pre-amplifiers
40. Power amplifiers—recording
45. Public address

Acoustical Mfg. Co., Ltd., England, 35, 40, 45
Aero Electronics Co., Ill., 5, 10
Airtronix Development Corp., N.Y., 30, 35, 45
Akeley Camera & Instrument Corp., N.Y., 35, Medical
Alfax Paper & Engineering Co., Mass., 25
Altec Lansing Corp., Calif., 25, 40, 45
American Communications Corp., N.Y., 30, 35, 40, 45
American Electroneering Corp., Calif., 5, 10
Amplifier Corp. of America, N.Y., 25
Anchor Radio Corp., Ill., 35
Ansley Mfg. Co., Arthur, Pa., 25
Applegate & Co., C. J., Colo., 10
Approved Electronic Instr. Corp., N.Y., 25, 35
Ardente Acoustic Labs., Ltd., England, 20, 30, 45
Astatic Corp., Ohio, 35
Atlantic Electronics Corp., N.Y., 25
Audio Instrument Co., Inc., N.Y., 10
Audio-Tone Oscillator Co., Conn., 25
Aviation Accessories, Inc., Texas, 10
Avion Instrument Corp., N.J., 10
B & B Recording & Sound Service, N.J., 25, 30, 40, 45

Amplifiers

Ballantine Labs., Inc., Boonton, N.J., 5
For details see ad on page 270
Ballantyne Co., The, Neb., 25, 35, 40
Bardwell & McAlister, Calif., 25
Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa., 5, 10
For details see ad on page 112
Bell Sound Systems, Inc., Ohio, 25, 45
Belock Instrument Corp., N.Y., 10
Bendix Aviation Corp., Pacific Div., 11600 Sherman Way, N. Hollywood, Calif., 40
For details see ad on page 189
Berlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif., 25
For details see ad on page 86
Beta Electric Corp., N.Y., 10
Birmingham Sound Reproducers, Ltd., England, 30, 45
Bliss Warren Electronic Corp., N.J., 45
Bogen Co., Inc., David, N.Y., 25, 30, 45
Boom Electric & Amplifier Co., Ill., 45
Bowen & Co., Inc., Md., 30, 35, 45
Brelco Electronics Corp., N.Y., 25, 30, 35, 40, 45
Bright Radio Labs., Inc., N.Y., 20
British Radio Electronics, Ltd., D.C., 25, 35
Brociner Electronics Lab., N.Y., 35, 40
Brook Electronics, Inc., N.J., 25, 35, 40
Bruel & Kjaer, Denmark, 35
Calbest Engineering & Electr. Co., Calif., 45
Caltron Products Co., Calif., 35
Canadian General Electric Co., Ltd., Canada, 30, 35, 45
Canadian Marconi Co., Canada, 30, 35, 45
Canadian Research Institute, Canada, 10, 25, 30, 40, 45
Canadian Westinghouse Co., Ltd., Canada, 10
Central Rediffusion Services, Ltd., England, 35, 40, 45
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis., 20
See complete catalog filed alphabetically in last section
Century Projector Corp., N.Y., 25, 45
Chisholm Industries, Ltd., Canada, 35, 40, 45
Clarkstan Corp., Calif., 35
Collins Audio Products Co., N.J., 25, 35, 40, 45
Collins Radio Co., 855 35 St. N.E., Cedar Rapids, Iowa, 25, 40
For details see ad on page 304-5
Colortone Television Co., Inc., N.Y., 30
Communicating Systems, Inc., N.Y., 25, 45
Communication Equipment & Eng. Co., Ill., 45
Connecticut Telephone & Elec. Corp., Conn., 30
Cook Labs., Conn., 40
Cooper Electronic Products Co., Pa., 30
Corona Engineering Service, N.Y., 35
Cossor (Canada) Ltd., Canada, 10, 30, 45
Custom Craft Mfg. Co., N.Y., 25, 45
Dalmo Victor Co., 1414 El Camino Real, San Carlos, Calif., 10, 20, 30
For details see ad on page 191
Danby Radio Corp., Pa., 25, 35, 40, 45
Davies Labs., Inc., Md., 10
Delta Electronics, Inc., Ohio, 35
Denrad Mfg. Co., Texas, 25, 30, 35, 45
Dictograph Products, Inc., N.Y., 20, 30, 45
Dukane Corp., Ill., 25, 30, 35, 40, 45
Dynamic Electronics, N.Y., 10, 15, 25, 30, 35, 40, 45
Edin Co., Inc., Mass., 10
Electro-Mechanical Research, Inc., Conn., 10
Electro-Physics Co., N.Y., 10
Electrodyne Co., Mass., 5, 10
Electronic Control Corp., Mich., 10
Electronic Instruments, Ltd., England, 10
Electronic Signal Co., Inc., N.Y. 40
Electronics Devices Co., N.Y., 20
Elk Electronic Labs., 333 W. 52 St., New York 19, N.Y., 5, 10
For details see ad on page 234
Ellis Associates, N.Y., 35
Elm Laboratories, N.Y., 30
El-Tronics, Inc., Pa., 10, 25
Engineering Res. & Dev. Co., Ill., 10
Erwood, Inc., Ill., 25, 35, 40, 45
Espey Manufacturing Co., Inc., N.Y., 25
Executone, Inc., N.Y., 30, 45
Facsimile & Electronics Corp., N.J., 40
Fairchild Recording & Equipment Corp., N.Y., 25, 35, 40
Farmers Engineering & Mfg. Co., Pa., 30, 45
Feiler Engineering & Mfg. Co., Ill., 5, 10, 20, 25, 30, 35, 40, 45
Fisher Radio Corp., N.Y., 25, 35, 40
Five Star Radio & TV. Co., Mass., 35, 40, 45
Freed Transformer Co., Inc., 1718 Weirfield St., Brooklyn 27, N.Y., 5
See complete catalog filed alphabetically in last section
Furst Electronics, Ill., 5, 10
Gates Radio Co., Ill., 25, 35, 40, 45
Geddes, L. A., Canada, 10, 25, 35, 40
General Electric Co., Electronics Div., N.Y., 5, 35
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10
For details see ad on page 316-7, Cover IV
Geotechnical Corp., Texas, 10
Godfrey Mfg. Co., Ill., 30
Gulton Mfg. Corp., N.J., 5
Hallicrafters Co., Ill., 25
Harmon Electronics Co., Mo., 30
Hartley Co., Ltd., H.A., England, 25
Hathaway Instrument Co., Colo., 10
Heath Co., 305 Territorial Rd., Benton Harbor, Mich., 25, 35, kits
For details see ad on page 31
Hegeman Laboratories, N.J., 25
Hewlett-Packard Co., 395 Page Mill Road, Palo Alto, Calif., 5
See complete catalog filed alphabetically in last section
Highland Engineering Co., Main & Urban Sts., Westbury, L.I., N.Y., 25, 30, 45
For details see ad on page 163, 234
Hi-Video, Inc., N.Y., 25, 30, 35, 45
Hoffman Radio Corp., Calif., 30, 35, 40
Hogan Laboratories, Inc., 155 Perry St., New York 14, N.Y., 40
For details see ad on page 235
Holl Audio Industries, Calif., 25
(Continued on page 74)

Code number at end of each address refers to product or service sub-classifications listed at the head of the major classification.

Industrial Control Co., Straight Path & Arlington Ave., Wyandanch, L.I., N.Y., 10
For details see ad on page 35
Industrial Radio Labs., N.Y., 25, 35, 40
Industrial Television, Inc., N.J., 350
Interelectronics Corp., N.Y., 20, 25, 40, 45
International Sound Eng. Co., N.J., 25, 35, 45
Jackson Industries, Inc., Ill., 25, 40
Keithley Instruments, Ohio, 5, 10
Key Electronics Corp., N.Y., 20, 25, 30, 35, 40, 45
Kip Electronics Corp., N.Y., 20
Korb Engineering & Mfg. Co., Mich., 40
Lake Mfg. Co., Calif., 30, 45
Langevin Mfg. Corp., 37-43 W. 65 St., New York 23, N.Y., 10, 25, 35, 40, 45
For details see ad on page 74
Leonard Electric Products Co., Inc., N.Y., 30, 40
Liston-Becker Instrument Co., Inc., Conn., 10
Loge, J. M., Calif., 30, 35, 45
Lyman Electronic Corp., Mass., 30
Lytle Engineering & Mfg. Co., Ill., 10, 35
M P Concert Installations, Conn., 25, 35, 40, 45
Magnecord, Inc., 360 N. Michigan Ave., Chicago 1, Ill., 40
For details see ad on page 85
Magnetic Recorder & Reproducer Corp., Pa., 40
Magnetic Recording Industries, N.Y., 25, 35, 40



Maico Co., Inc., Minn., 5, 10, 15, 20
Marconi's Wireless Telegraph Co., England, 25, 30
Mauer, Inc., J. A., N.Y., 35, 40
McCurdy Radio Industries, Ltd., Canada, 25, 35, 40
McIntosh Lab., Inc., N.Y., 25, 35, 40, 45
Measurement Engineering, Ltd., Canada, 10
Melody Master Mfg. Co., Ill., 20, 25, 45
Mercury Electronic Labs., Inc., Ill., 30
Metal Products Co., Tenn., 25, 40
Meyers, James G., N.Y., 25, 35
Midwestern Geophysical Lab., Okla., 10
Miller Corp., William, Calif., 10
Millivac Instrument Corp., N.Y., 10
Moulic Specialties Co., Ill., 10
Mullard Overseas, Ltd., England, 45
National Inter-Commun. Systems, Inc., Ill., 30, 35, 45
National Radio Research Labs., N.Y., 25, 40
Newcomb Audio Products Co., Calif., 25, 35, 40, 45
Newton Scientific Co., Mass., 25
North American Philips Co., Inc., N.Y., 5
Oberline, Ltd., Calif., 25, 30, 35, 40, 45
Offner Electronics, Inc., Ill., 10
Paravox, Inc., Ohio, 20
Patterson Moos & Co., Inc., N.Y., 35, 40, 45
Pedersen Electronics, Calif., 35, 40
Pentron Corp., Ill., 40
Perkin-Elmer Corp., Conn., 10
Petty Labs., Inc., Texas, 10
Pfanstiehl Chemical Co., Ill., 35
Phillips Petroleum Co., Okla., 35
Phonograph Corp. of America, N.Y., 35
Photron Instrument Co., Ohio, 10
Pickard & Burns, Inc., Mass., 5
Pickering & Co., Inc., 309 Woods Ave., Oceanside, L.I., N.Y., 35, 40
For details see ad on page 83
Precision Electronics, Inc., Ill., 25, 35, 40, 45
Press Wireless Mfg. Co., N.Y., Peak Limiting
Presto Recording Corp., N.J., 40
Process & Instruments, N.Y., 10
Professional Electronics Co., Calif., 10. 25, 40
Pye, Ltd., England, 35, 40, 45
RCA Victor Division, Camden 2, N.J., 25, 30, 35, 40, 45
For details see ad on page 64, 294, 346-7
Radio Craftsmen, Inc., Ill., 25, 35
Radio Development & Research Corp., N.J., 25, 30, 35, 40, 45
Rauland-Borg Corp., Ill., 25, 30, 45
Redifon, Ltd., England, 45
Reeves Instrument Corp., N.Y., 10
Remler Co., Ltd., Calif., 45
Resdel Engineering, Calif., 10, 15
Rochester Electronics Co., Inc., N.Y., 35
Rosen Eng. Prods., Inc., Raymond, Pa., 30, 45
S.O.S. Cinema Supply Corp., N.Y., 40, 45
Sanborn Co., 39 Osborn St., Cambridge 39, Mass., 35, 40
For details see ad on page 260
Sargent-Rayment Co., The, Calif., 25, 35
Scott, Inc., Hermon Hosmer, Mass., 5, 15, 25, 35, 40
Seaboard Electric Co., N.Y., 5, 40, 45
Sherron Electronics Corp., N.Y., 40, 45
Shrader Mfg. Co., Inc., D.C., 25, 40, 45
Simpson Mfg. Co., Inc., Mark, N.Y., 25, 30, 35, 45
Skiatron Electronics & TV Corp., N.Y., 25, 35
Smuckler & Co., Inc., A. F., N.Y., 30, 35, 40, 45
Sondyna, Ltd., Switzerland, 5
Sonocraft Corp., N.Y., 30, 45
Sonotone Corp., N.Y., 20
Southwestern Industrial Electr. Co., Texas, 10, 40
Special Instruments Lab., Inc., Tenn., 10
Special Products Co., Md., 25, 35
Specialty Eng. Div., N.Y., 45
Spera Electronics Labs., N.Y., 25, 35, 45
Spilsbury & Tindall Ltd., Canada, 45
Standard Electronic Research Corp., N.Y., 10, 25
Stephens Mfg. Corp., Calif., 25
Stromberg-Carlson Co., N.Y., 25, 30, 35, 45
Superex Electronics Corp., N.Y., 10, 25, 30, 45
Symphony Radio & Television Corp., Calif., 25, 30, 40, 45
Syntronic Instruments, Inc., Ill., 35
Taffet Radio & TV. Co., N.Y., 30, 45
Talk-A-Phone Co., Ill., 30, 45
Tech Labs., Inc., N.J., 20
Technical Apparatus Builders, N.Y., 25, 35, 40, 45
Technisonic Studios, Mo., 40
Technology Instrument Corp., Mass., 5
Telectro Industries Corp., N.Y., 10, 25, 30, 40
Telephonics Corp., N.Y., 30, 45
Telex, Inc., Minn., 20
Tel-Rad Co., Conn., 25, 30, 45
Theatre Equipment Co., Ohio, 25
Thordarson-Meissner Mfg. Div., Ill., 10, 25, 35
Trad Television Corp., N.J., 30, 40, 45
Transelectric Mfg. Co., Pa., 30
Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 20
For details see ad on page 78
U. S. Electronic Co., Conn., Wide Band
U. S. Recording Co., D.C., 25
Vidaire Television Co., N.Y., 25
Video Corp. of America, N.Y., 30, 45
Walkirt Co., Calif., 10
Waveforms, Inc., N.Y., 25
Webster-Chicago Corp., Ill., 40
Webster Electric Co., Wis., 25, 30, 40, 45
Weingarten Electronic Labs., Inc., Calif., 25
West Coast Electronics Co., Calif., 40
Western Sound & Elec. Labs., Inc., Wis., 5, 20, 25, 30, 35, 40, 45
Willor Mfg. Corp., N.Y., 25, 30, 35, 40, 45
Wireway Corp. of America, N.Y., 30, 35, 40
Worner Electronic Devices, Ill., 30

010. Attenuators.

5. Decade
10. Impedance matching
20. Volume controlling

A. R. F. Products, Inc., Ill., 5
Airplane & Marine Instruments, Inc., Pa., 20
Atlas Coil Winders, Inc., Conn., 20
C. G. S. Labs., Inc., Conn., 20
(Continued on page 75)

Code number at end of each address refers to product or service sub-classifications listed at the head of the major classification.

Canadian General Electric Co., Ltd., Canada, 5, 10
Canadian Research Institute, Canada, 5
Centralab, Div. of Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis., 20
See complete catalog filed alphabetically in last section.
Clarke Instruments, Md., 10
Collins Radio Co., 855 35 St. N.E., Cedar Rapids, Iowa, 20
For details see ad on page 304-5
Corning Glass Works, N.Y., 5, 10, 15
Crown Engineering, N.M., 10
Dale Products, Inc., P.O. Box 326, Columbus, Neb., 5, 10
For details see ad on page 358-9
Daven Co., N.J., 5, 10, 15
Doolittle Radio, Inc., Ill., 5, 10
Electron-Radar Products, Ill., 10, 20
Elk Electronic Labs., 333 W. 52 St., New York 19, N.Y., 5
For details see ad on page 234
Empire Devices, Inc., N.Y., 5
Facsimile & Electronics Corp., N.J., 20
Frequency Standards, P.O. Box 66, Eatontown, N.J., Radio Frequency
For details see ad on page 27
Furzehill Labs., Ltd., England, 5
G. W. Associates, Calif., 10
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 5
For details see ad on page 316-7, Cover IV
Hewlett-Packard Co., 395 Page Mill Road, Palo Alto, Calif., 5
See complete catalog filed alphabetically in last section
Industrial Products Co., Conn., 10
Jensen Mfg. Co., Ill., 20
Kalbfell Labs., Inc., 1090 Morena Blvd., P.O. Box 1578, San Diego 10, Calif., Logarithmic
For details see ad on page 235
Kay Electric Co., 14 Maple Ave., Pine Brook, N.J., 10
For details see ad on page 262
Maico Co., Inc., Minn., 5, 20
Measurements Corp., Boonton, N.J., 10
For details see ad on page 209, 338-9
Microlab, N.J., Coax, UHF, Microwave
Muirhead & Co., Ltd., England, 20
Munston Mfg. & Service, Inc., N.Y., 20
Ohmite Mfg. Co., Ill., 10, 20
Orthon Corp., 198 Albion Ave., Paterson 2, N.J., 10
For details see ad on page 127
Painton & Co., Ltd., England, 5, 10, 20
Plessey Co., Ltd., England, 10, 20
R.C.A. Victor Division, Camden 2, N.J., 10
For details see ad on page 64, 294, 346-7
Self Winding Clock Co., Inc., N.Y., 10
Shallcross Mfg. Co., 520 Pusey Ave., Collingdale, Pa., 5, 10, 20
For details see ad on page 160
Southwest Technical Lab., N.M., 10
Tech Labs., Inc., N.J., 5, 10, 20
Technology Instrument Corp., Mass., 5
Trad Television Corp., N.J., 5, 10, 20
Weinschel Eng., Co., Md., RF Attenuators

015. Equalizers.

5. Dialogue equalizers
10. Line equalizers
15. Magnetic recording
20. Recording diameter equalizers
25. Sound effect equalizers

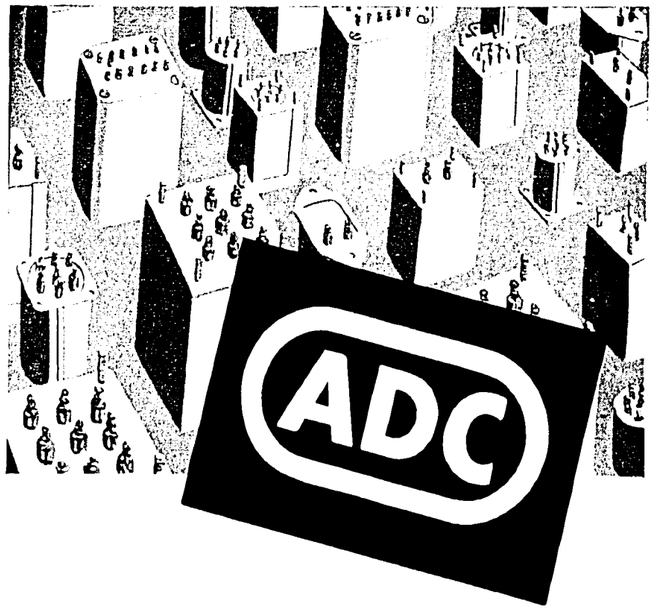
Audio Development Co., 2833 13 Ave. S., Minneapolis 7, Minn., 25
For details see ad on page 76
Audio Instrument Co., Inc., N.Y., 5
Berlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif., 15
For details see ad on page 86
Brelco Electronics Corp., N.Y., 5, 10
Brush Development Co., Ohio, 15
Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y., 10, 25
For details see ad on page 6
C. G. S. Labs., Inc., Conn., 25
Canadian General Electric Co., Ltd., Canada, 10, 15, 25
Clarkstan Corp., Calif., 15
Collins Radio Co., 855 35 St., N.E., Cedar Rapids, Iowa, 10
For details see ad on page 304-5
Communication Accessories Co., Mo., 10
D & R Ltd., Calif., 10, 15
Daven Co., N.J., 10, 25
De Coursey Engineering Lab., P.O. Box 235, West Los Angeles 25, Calif., 5, 10, 15, 25
For details see ad on page 19
Electronics of Staten Island, N.Y., 15
Fairchild Recording & Equipment Corp., N.Y., 5, 10, 15, 20, 25
Gates Radio Co., Ill., 10
Hycor Co., Inc., Calif., 5, 10
Industrial Specialties Corp., N.Y., 15
Korb Engineering & Mfg. Co., Mich., 15
Marconi's Wireless Telegraph Co., England, 10
Maryland Electronic Mfg. Corp., Md., 10
McCurdy Radio Industries, Ltd., Canada, 25
Pacific Transducer Corp., Calif., 10
Pickering & Co., Inc., 309 Woods Ave., Oceanside, L.I., N.Y., 15
For details see ad on page 83
Press Wireless Mfg. Co., N.Y., 15
Presto Recording Corp., N.J., 20
Professional Electronics Co., Calif., 5, 10, 15, 25
R.C.A. Victor Division, Camden 2, N.J., 5, 10, 15, 25
For details see ad on page 64, 294, 346-7
Radio Engineering Products, Ltd., Canada, 10
Sargent-Rayment Co., The, Calif., 15
Sonocraft Corp., N.Y., 15
Tech Labs., Inc., N.J. 10
Technical Materiel Corp., 112 W. Boston Post Rd., Mamaroneck, N.Y., 10
For details see ad on page 237
Transformer Engineers, Calif., 5, 10
Transformer Specialty Co., 328 Rock Hill Rd., Bala-Cynwyd, Pa., 10, 15
For details see ad on page 167
United Transformer Co., 150 Varick St., New York 13 N.Y., 10
See complete catalog filed alphabetically in last section
Waveforms, Inc., N.Y., 5

020. Filters.

5. Band pass & band rejection
15. Variable Band Pass
10. Loudspeaker dividing networks

Acme Electronics, Inc., Calif., 5
Aero Instrument Co., Calif., 5
Amplifier Corp. of America, N.Y., 5
Applegate & Co., C. J., Colo., 5
Atlas Sound Corp., N.Y., 10
Audio Development Co., 2833 13 Ave. S., Minneapolis 7, Minn., 5, 10
For details see ad on page 76
Balco Research Labs., N.J., 5
Bardwell & McAlister, Calif., 5
Barker & Williamson, Inc., 237 Fairfield Ave., Upper Darby, Pa., 5, 10
For details see ad on page 112
Bendix Aviation Corp., Pacific Div., 11600 Sherman Way, N. Hollywood, Calif., 5
For details see ad on page 189
Borg Equipment Div., G. W. Borg Corp., 120 S. Main St., Janesville, Wis., 5
For details see ad on page 11, 151
Brach Mfg. Corp., N.J., 5
Brociner Electronics Lab., N.Y., 10
Bruel & Kjaer, Denmark, 5
Burke Electric & X-Ray Co., Ltd., Canada, 10
Burnell & Co., 45 Warburton Ave., Yonkers 2, N.Y., 5, 10
For details see ad on page 6
Caddell-Burns Mfg. Co., N.Y., 5
Camburn, Inc., N.Y., 10
Central Transformer Co., Ill., 10
Chicago Electronic Eng. Co., Ill., 5
Coil Winders, Inc., N.Y., 5
Communication Accessories Co., Mo., 5, 10
Communication Parts, Ill., 5
Control Corp., Minn., 5
Copper Wire Products Ltd., Canada, 10
Custom Craft Mfg. Co., N.Y., 5
D & R Ltd., Calif., 5, 10
D X Radio Products Co., Inc., Ill., 5
Danbury Transformer Corp., Conn., 5
Daven Co., N.J., 10
De Coursey Engineering Lab., P.O. Box 235, West Los Angeles 25, Calif., 5
For details see ad on page 19
Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass., 5
For details see ad on page 125
Dietz Design & Mfg. Co., Grandview, Mo., 5
For details see ad on page 110
Dynamic Electronics, N.Y., 5
Eldico of New York, Inc., 44-31 Douglaston Parkway, Douglaston, L.I., N.Y., 5
For details see ad on page 234
Electro-Voice, Inc., Mich., 10
Electronic Systems Co., N.Y., 5
Electronic Transformer Co., Inc., N.Y., 5, 10
Electronics of Staten Island, N.Y., 10
Elk Electronic Labs., 333 W. 52 St., New York 19, N.Y., 5
For details see ad on page 234
Engineering Res. & Dev. Co., Ill., 5
Federal Electric Mfg. Co., Ltd., Canada, 5
Federal Telephone & Radio Corp., 100 Kingsland Road, Clifton, N.J., 5
For details see ad on page 309-13
(Continued on page 76)

Code number at end of each address refers to product or service sub-classifications listed at the head of the major classification.



TRANSFORMERS • REACTORS • FILTERS • JACKS AND PLUGS • PATCH CORDS • JACK PANELS



The initials "ADC" on a transformer, reactor or filter indicate a product custom-built by Audio Development Company for a definite function in a special field—and for a particular company.



Your own types of electrical or electronic construction may demand a transformer, reactor or filter of original design. When the question arises—to whom shall you go for competent design and construction of these component requirements — the answer is, ADC. For in ADC's efficient manufacturing plant capable engineers actually supervise each productive process from start to finish.



Moreover, the "Model Shop" maintained by ADC fashions precision models based on blue print instructions—and supplies you with sample units which permit dimensional check-up and observance of performance.

Our field representatives are trained men, well acquainted with our operation. For prompt response, summon the one in your area or contact our Home Office.

audio

DEVELOPMENT COMPANY

2833 THIRTEENTH AVENUE SOUTH
MINNEAPOLIS 7, MINNESOTA

Filters

(Continued from page 75)

Ferranti Electric, Inc., N.Y., 5
Filton Co., Inc., N.Y., 5
Foster Transformer Co., Ohio, 5
Freed Transformer Co., Inc., 1718 Weirfield St., Brooklyn (Ridgewood) 27, N.Y., 5
See complete catalog filed alphabetically in last section
General Electric Co., Electronics Div., N.Y., 5
General Electrosonics, Inc., N.Y., 5
General Instruments, Inc., Texas, 5
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 5
For details see ad on page 316-7, Cover IV
Geotechnical Corp., Texas, 5
Gertsch Products, Inc., Calif., 5
Glenco Corp., N.J., 5
Gulton Mfg. Corp., N.J., 5
Harnett Electric Corp., 138 Haven Ave., Port Washington, L.I., N.Y., 5
For details see ad on page 114
Highland Engineering Co., Main & Urban Sts., Westbury, L.I., N.Y., 5
For details see ad on page 103, 234
Hogan Laboratories, Inc., 155 Perry St., New York 14, N.Y., 5
For details see ad on page 235
Holl Audio Industries, Calif., 10
Hycor Co., Inc., Calif., 5
Industrial Radio Labs., N.Y., 10
Kalbfell Labs., Inc., 1090 Morena Blvd., P.O. Box 1578, San Diego 10, Calif., 5
For details see ad on page 235
Kellogg Switchboard & Supply Co., Ill., 5
Klipsch & Associates, Ark., 10
Krohn-Hite Instrument Co., Mass., 5
Lansing Sound, Inc., James B., Calif., 10
Lenkurt Electric Co., Calif., 5
Lynmar Engineers, Pa., 10
Lytle Engineering & Mfg. Co., Ill., 5
Meyers, James G., N.Y., 10
Microlab, NJ., Coax, UHF, Microwave
Mid-West Coil & Transformer Co., Ill., 5
Miller Co., J. W., Calif., 5
Orthon Corp., 198 Albion Ave., Paterson 2, N.J., 5, 10
Audio filters a specialty
For details see ad on page 127
Pickering & Co., Inc., 309 Woods Ave., Oceanside, L.I., N.Y., 5
For details see ad on page 83
Polyphase Instrument Co., Pa., 5
Potter Co., Ill., 10
Professional Electronics Co., Calif., 5, 10
R. K. Mfg. Co., Ill., 5
R.C.A. Victor Division, Camden 2, N.J., 5, 10
For details see ad on page 64, 294, 346-7
Radio Engineering Products, Ltd., Canada, 5
Resdel Engineering, Calif., 5
Richardson Labs., Kenneth, N.Y., 5
Rowe Industries, 1702 Wayne St., Toledo 9, Ohio, 10
For details see ad on page 207
Scott, Inc., Hermon Hosmer, Mass., 5
Sierra Electronics Corp., Calif., 5
Southern Electric & Transmission Corp., Texas, 5
Specialties, Inc., N.Y., 5
Spencer-Kennedy Labs., Inc., 186 Massachusetts Ave., Cambridge 39, Mass., 5
For details see ad on page 274
(Continued on page 77)

Filters

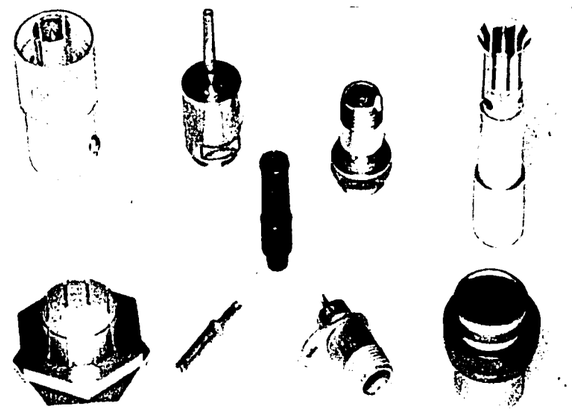
(Continued from page 76)

Square Root Mfg. Corp., N.Y., 5, 10
Standard Electronic Research Corp., N.Y., 5
Standard Transformer Corp., 3580 Elston Ave., Chicago 18, Ill., 5
For details see ad on page 166
Stephens Mfg. Corp., Calif., 10
Tech Labs., Inc., N.J., 5, 10
Technical Apparatus Builders, N.Y., 10
Technical Appliance Corp., N.Y., 5
Telephonics Corp., N.Y., 5
Television Labs., Inc., Ill., 5
Tetrad Co., Inc., Calif., 5
Thordarson-Meissner Mfg. Div., Ill., 5
Transformer Engineers, Calif., 5
Transformer Specialty Co., 328 Rock Hill Rd., Bala-Cynwyd, Pa., 5, 10
For details see ad on page 167
Transformer Technicians, Inc., Ill., 5
Transvision, Inc., N.Y., 5
U.S. Electronics Corp., 275 Warren St., Lyndhurst, N.J., 5
For details see ad on page 115
United Transformer Co., 150 Varick St., New York 13, N.Y., 5
See complete catalog filed alphabetically in last section
University Loudspeakers, Inc., 80 S. Kensico Ave., White Plains, N.Y., 10
For details see ad on page 79
Vectron, Inc., Mass., 5
Vitavox, Ltd., England, 10
Vokar Corp., Mich., 5, 10
Waveforms, Inc., N.Y., 5
West Coast Electronics Co., Calif., 5
White Industries, Inc., 421 W. 54 St., New York 19, N.Y., 5
For details see ad on page 219
Willor Mfg. Corp., N.Y., 5, 10

025. Industrial Sound Systems.

5. Complete systems
10. Installation & rental contractors

Altec Lansing Corp., Calif., 5
Ardente Acoustic Labs., Ltd., England, 5
Audio-Master Corp., N.Y., 5
Audio-Tone Oscillator Co., Conn., 5
Bell Sound Systems, Inc., Ohio, 5
Birmingham Sound Reproducers, Ltd., England, 5
Bogen Co., Inc., David, N.Y., 5
Boom Electric & Amplifier Co., Ill., 5, 10
Canadian General Electric Co., Ltd., Canada, 5
Canadian Marconi Co., Canada, 5
Communicating Systems, Inc., N.Y., 5
Communication Equipment & Eng. Co., Ill., 5
Cossor (Canada) Ltd., Canada, 5, 10
Dictograph Products, Inc., N.Y., 5
El-Tronics, Inc., Pa., 5
Erwood, Inc., Ill., 5
Executone, Inc., N.Y., 5
Farmers Engineering & Mfg. Co., Pa., 5, 10
Feiler Engineering & Mfg. Co., Ill., 5
Gates Radio Co., Ill., 5
Industrial Radio Labs., N.Y., 10
Interelectronics Corp., N.Y., 5
Lansing Sound, Inc., James B., Calif., 5
Lexington Audio Engineering Corp., Ky., 10
Loge, J. M., Calif., 5
M. P. Concert Installations, Conn., 5
Marconi's Wireless Telegraph Co., England, 5
Marsh-Theiss, Inc., N.Y., 10
Mullard Overseas, Ltd., England, 5
National Intercommun. Systems, Inc., Ill., 5
Newcomb Audio Products Co., Calif., 5
Oberline, Ltd., Calif., 5, 10
R.C.A. Victor Division, Camden 2, N.J., 5
For details see ad on page 64, 294, 346-7
Radio Labs., Inc., Wash., 5, 10
Rauland-Borg Corp., Ill., 5
Redifon, Ltd., England, 5, 10
Remler Co., Ltd., Calif., 5
Rosen Eng. Prods., Inc., Raymond, Pa., 5
Seaboard Electric Co., N.Y., 5
Shrader Mfg. Co., Inc., D.C., 5, 10
Simpson Mfg. Co., Inc., Mark, N.Y., 5
Smith-Meeker Engineering Co., N.Y., 5, 10
Sonocraft Corp., N.Y., 5
Stephens Mfg. Corp., Calif., 5
Stromberg-Carlson Co., N.Y., 5
Stuedeman, W., N.J., 10
Talk-A-Phone Co., Ill., 5
Tel-Rad Co., Conn., 5, 10
Theatre Equipment Co., Ohio, 5, 10
Trad Television Corp., N.J., 5
U. S. Recording Co., D.C., 5
Webster Electric Co., Wis., 5
West Michigan Sound Co., Mich., 5, 10
Western Sound & Elec. Labs., Inc., Wis., 5, 10



JACKS and DOUBLE Connector Assemblies

CUSTOM BUILT of Beryllium Copper and Phosphor Bronze. The Beryllium contact points are formed, heat treated and held to tolerances of one thousandth of an inch (.001). WRITE for FOLDER illustrating and describing details on this and other GOMBOS components and services.

Competent Design and Engineering Assistance

ELECTRONIC DEVICES GOMBOS PRECISION PARTS

JOHN GOMBOS CO., INC.
103-109 Montgomery Ave., Irvington 11, N.J.
Phone: ESsex 3-6633

028. Jacks, Jack Fields & Plugs.

5. Jacks **15. Patch cords**
10. Jack fields **20. Plugs**

Adler Communications Labs., N.Y., 15
Aerolite Electronics Corp., N.J., 5, 20
Aircraft-Marine Products, Inc., Pa., 20
Alden Products Co., 117 North Main St., Brockton 64, Mass., 5, 20
For details see ad on page 116
American Communications Corp., N.Y., 5, 10, 15, 20
American Phenolic Corp., 1830 S. 54 Ave., Chicago 50, Ill., 5, 20
For details see ad on page 2
American Radio Hardware Co., Inc., 152 MacQuesten Parkway S., Mt. Vernon, N.Y., 5, 10, 15, 20
See Radio Essentials ad on page 288
Audio Development Co., 2833 13 Ave. So., Minneapolis 7, Minn., 5, 10, 15, 20
For details see ad on page 76
Audio Equipment Sales, N.Y., 5, 10, 15, 20
Auto-Test, Inc., Ill., 20
Bead Chain Mfg. Co., 11 Mountain Grove St., Bridgeport 5, Conn., 5
For details see ad on page 9
Birnbach Radio Co., Inc., 145 Hudson St., New York 13, N.Y., 5, 20
See complete catalog filed alphabetically in last section
Breleo Electronics Corp., N.Y., 5, 10, 15, 20
Brilhart Plastics Corp., N.Y., 5, 20
Bud Radio, Inc., Ohio, 5, 20
Buggie & Co., H. H., Ohio, 5, 15, 20
(Continued on page 78)

for PRECISION

FREED TEST INSTRUMENTS

for QUALITY

MODEL 1040 A.C.-V.T. VOLTMETER



USES

The type 1040 Vacuum Tube Voltmeter is a high impedance wide frequency range voltmeter which can be used at audio and supersonic frequencies. It is particularly recommended for (1) vibration studies involving very low frequencies, (2) frequency characteristics and gain measurements on amplifiers, (3) transmission losses on telephone circuits: filter and carrier systems up to 250,000 cycles, and (4) acoustic measurements, such as, determination of frequency response of microphones and loudspeakers. Because of the high sensitivity of the instrument, the voltmeter can be advantageously used as a null detector in A.C. bridge measurements. In addition to its use as a voltmeter, the instrument can be used as an ammeter to measure a wide range of currents by connecting it across suitable resistors.

FEATURES

Because of the low input capacity, a high value of input impedance is maintained over the five ranges of the voltmeter. A balanced rectifier, a balanced D.C. amplifier circuit, and a high amount of degeneration throughout the amplifier makes it independent of line voltage variations and changes in tube characteristics. A very important feature of the instrument is the logarithmic voltage scale of the meter. With this type of scale, the percentage accuracy of reading is uniform over the entire scale. Another advantage of the logarithmic scale is that it provides a uniform decibel scale which is a very valuable feature in sound and communication measurements. A zero adjustment and full scale adjustment are provided. These two controls serve for all ranges and no re-setting is necessary when switching from one range to another. The time constant of the instrument is adjusted in order to read very low frequencies of 7 to 10 cycles without any vibration of the needle. The circuit of the meter is arranged so that it can not be burned out by any overload of the instrument. The vacuum tube voltmeter is small, compact, entirely self-contained, A.C. operated.

SPECIFICATIONS

Voltage Ranges: 0.001 volts to 100 volts in five ranges (0.01, 0.1, 10, and 100 volts full scale).

Accuracy: 2% on full scale on all five ranges, on sinusoidal voltages.

Waveform Error: The instrument is a peak voltmeter calibrated to read RMS values. On distorted waveforms, the percentage deviation of the reading from RMS values may be as large as the percentage of the harmonics present.

Frequency Ranges: 10 to 200,000 cycles, 0.1 db. variation from 20 cycles to 150,000 cycles: 0.50 db. variation from 10 cycles to 200,000 cycles.

Input Impedance: Equivalent to 500,000 ohm resistance in parallel with a 15 MMF. condenser.

Stability: Effect of variation in line voltage from 100 volts to 125 volts is 1%. Effect in changes of tubes is less than 0.5%.

Scale: Logarithmic voltage scale calibrated from 1 to 10 plus a linear decibel scale calibrated from 0 db. to 20 db.

Meter: 4" suppressed zero 1 MA meter protected against overloads.

Power Supply: The instrument is entirely self-contained and operates on 100-125 volts, 50-60 cycles. Total consumption, 40 Watts.

Dimensions: 4 7/8" High x 5 5/8" Wide x 9 7/8" Long.

Weight: 12 pounds.

NO. 1010 COMPARISON AND LIMIT BRIDGE

USES

This instrument is a comparison and limit bridge for use in both laboratory and production testing of resistors, condensers and inductors. The manufacturer of these components can use it for production tests, the user for incoming inspection and acceptance tests. The instrument is particularly useful for laboratory work (bridge or filters) where very accurate components are required.

FEATURES

For precision and production testing, the bridge has many advantages. Power line operation and the visual indicator make the instrument completely self-contained. It can be used in noisy locations. Its small size and light weight permit the instrument to be moved easily and to be set up wherever necessary.

SPECIFICATIONS

1–Frequency: Three frequencies are available: 50 – 60 cycles, 1000 cycles, and 10,000 cycles.

The 50 or 60 cycles are taken from the line. The 1000 and 10,000 cycles are generated by an oscillator and are accurate to within 10%.

2–Range: Two comparison ranges are provided: 10% and 20%. They are selected by a rotary switch. In the 10% position the percentage is read directly on a calibrated dial. In the 20% position the reading of the dial is multiplied by two.

3–Resistor Measurements: Resistors from 10 ohms up to 1 megohms are measured by the comparison method at 60 cycles. Resistors of greater value than 1 megohm can be measured by using the instrument as a limit bridge.

4–Condenser Measurements: Condensers from 500 micromicrofarads up to 10 microfarads are measured by the comparison method at 1000 cycles. Condensers above 10 microfarads are measured by the comparison method at 60 cycles.

Small condensers 500 micromicrofarads to 25 micromicrofarads are measured at 1000 cycles, with the intsrument used as a limit bridge.

5–Inductor Measurements: Inductors can be measured at 60 cycles, 1000 cycles or 10,000 cycles depending upon their values.

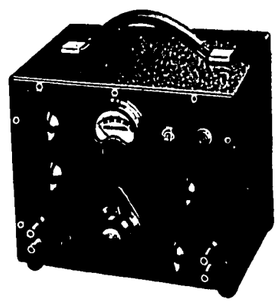
Ranges:

100Hy to 1 Hy	60 cycles
1Hy to 0.01 Hy	1,000 cycles
0.01Hy to .1mHy	10,000 cycles

6–Accuracy: On the 10% position the components can be adjusted to within an accuracy of 0.5%.

8–Power Supply: 105 to 125 volts, 50-60 cycles. The power consumption is 40 watts.

12–Portable: Carrying cabinet of all metal construction.



13–Net Weight: 15½ lbs.

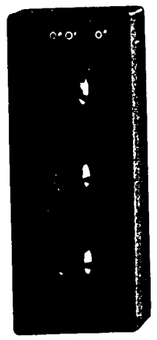
14–Dimensions: 10½" x 8¾" x 12".

for PRECISION

FREED TEST INSTRUMENTS

for QUALITY

DECADE INDUCTORS



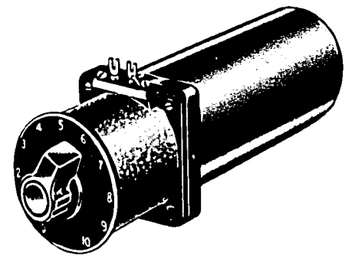
Primarily designed for use in wave filters, tuned circuits and equalizers for audio and supersonic frequencies. The stability, accuracy and high value of "Q" makes these Decade Inductors invaluable laboratory instruments.

No. 1160
10 x 1. HY Steps
10 x 0.1 HY Steps
10 x 0.01 HY Steps
500-15,000 Cycles

No. 1161
10 x 0.1 HY Steps
10 x 0.01 HY Steps
10 x 0.001 HY Steps
2000-50,000 Cycles

No. 1162
10 x 0.01 HY Steps
10 x 0.001 HY Steps
10 x 0.0001 HY Steps
10,000-300,000 Cycles

No. 1164
10 x 10 HY Steps
10 x 1 HY Steps
10 x 0.1 HY Steps
30-2,000 Cycles



SINGLE DECADE INDUCTOR

No. 1270 – 10 x 1 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1240 – 10 x 0.1 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1230 – 10 x 0.01 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1220 – 10 x 0.001 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1341 – Decade Inductor, 10 x 10 HY.
Frequency Range, 200-2,000 cycles.
Q = 80 @ 500 cycles.

3 DECADE INDUCTOR

No. 1163 – 3 Unit Decade Inductor
10 x 0.1 HY, 10 x 0.01 HY, 10 x 0.001 HY.
Frequency Range, 500-15,000 cycles.
Q = 60 @ 1,000 cycles.

No. 1280 – 3 Unit Decade Inductor
10 x 0.1 HY, 10 x 0.01 HY, 10 x 0.001 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1310 – 3 Unit Decade Inductor
10 x 1 HY, 10 x 0.1 HY, 10 x 0.01 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

No. 1342 – 3 Unit Decade Inductor
10 x 10 HY, 10 x 1 HY, 10 x 0.1 HY.
Frequency Range, 200-2,000 cycles.
Q = 80 @ 500 cycles.

No. 1260 – 4 Unit Decade Inductor
10 x 1 HY, 10 x 0.1 HY, 10 x 0.01 HY.
10 x 0.001 HY.
Frequency Range, 500-15,000 cycles.
Q = 60 @ 1,000 cycles.

No. 1290 – 4 Unit Decade Inductor
10 x 1 HY, 10 x 0.1 HY, 10 x 0.01 HY,
10 x 0.001 HY.
Frequency Range, 500-15,000 cycles.
Q = 160 @ 1,000 cycles.

NO. 1250 DECADE CONDENSER

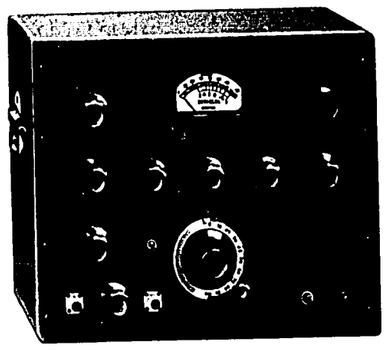


High quality Decade Condenser designed for use in Wave Filters, Tuned Circuits and Equalizers for Audio and Supersonic Frequency.

The stability, accuracy and low dissipation factor make this Condenser Decade an invaluable laboratory instrument. 1.110 mf in 0.001 mf steps ± 1% accuracy. Maximum Voltage 500 peak.

Dimensions: Width 6"; Depth 4½"; Height 13¾"
Weight: 8 pounds.

NO. 1410 HARMONIC DISTORTION METER



FOR CARRIER FREQUENCIES

Frequency range 20,000 cycles to one megacycle. Harmonic distortion range from 1/10% to 30%. Maximum input voltage 1000 volts. The instrument is self-contained and A.C. operated.

Dimensions: Width 19½"; Depth 10¼"; Height 15"
Weight: 45 pounds.

Precision-built -hp- instruments for every

-hp- Vacuum Tube Voltmeters — 2 to 700,000,000 cps

-hp- 410B VACUUM TUBE VOLTMETER



Wide range, flat response ± 1 db, 20 cps to 700 mc. Convenient, simple to use, occupies minimum bench space. Handy compartment for probe and leads. Diode probe places approximately 1.5 μμfd capacity across circuit under test. This, plus high shunt impedance (10 megohms at low frequencies) means circuits under test are not disturbed, and true voltage readings are assured. Also measures dc voltage to 1,000 volts and resistances to 500 megohms. $245.00.

Instrument	Primary Uses	Frequency Range	Voltage Range	Input Impedance	Price
-hp- 400A	General purpose ac measurements	10 cps to 1 mc	.005 to 300 v 9 ranges	1 megohm 24 μμfd shunt	$185.00
-hp- 400B	Low frequency ac measurements	2 cps to 100 kc	.005 to 300 v 9 ranges	10 megohms 24 μμfd shunt	195.00
-hp- 400C	Wide range ac measurements. High sensitivity	20 cps to 2 mc	.0001 to 300 v 12 ranges	10 megohms 15 μμfd shunt	200.00
-hp- 404A	Portable, battery operated	2 cps to 50 kc	.0005 to 300 v 11 ranges	10 megohms 20 μμfd shunt	185.00
-hp- 410B	Audio, rf, VHF measurements; dc voltages; resistances	20 cps to 700 mc	.1 to 300 v 7 ranges	10 megohms 1.5 μμfd shunt	245.00

-hp- Voltmeter Accessories (not listed) include voltage dividers, connectors, shunts and multipliers to extend the useful range of your equipment.

-hp- Signal Generators — 10 to 10,000 mc

-hp- 618A SIGNAL GENERATOR



3,800 to 7,600 mc. Provides a 1 mw signal into a 50-ohm coaxial load (zero dbm). Output attenuator directly calibrated in dbm and volts, reduces output level to less than −100 dbm. Frequency dial directly calibrated, accuracy ½ of 1%. Repellor voltage automatically tracked. No adjustment during operation. CW, pulsed or fm output. Internal square wave modulation. $2,250.00.

Instrument	Frequency Range	Characteristics	Price
-hp- 608A	10 to 500 mc	Output 0.1 μv to 1 v into 50 ohm load. Pulse or CW modulation. Direct calibration.	$ 850.00
-hp- 610B	450 to 1,200 mc	Output 0.1 μv to 0.1 v into 50 ohm load. Pulse, CW or Square wave modulation. Direct calibration.	925.00
-hp- 614A	800 to 2,100 mc	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, CW or FM modulation. Direct calibration.	1,950.00
-hp- 616A	1,800 to 4,000 mc	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, CW or FM modulation. Direct calibration.	1,950.00
-hp- 618A	3,800 to 7,600 mc	Output 1.0 μv to 0.223 v into 50 ohm load. Pulse, CW, FM or Square wave modulation. Direct calibration.	2,250.00
-hp- 623B	5,925 to 7,725 mc	Output 70 μv to 0.223 v into 50 ohm load. FM or Square wave modulation. Separate power meter and wave meter section.	1,650.00
-hp- 624A	8,500 to 10,000 mc	Output 3.0 μv to 0.223 v into 50 ohm load. Pulse, FM or Square wave modulation. Separate power meter and wave meter section.	2,250.00

-hp- Distortion, Wave Form Analyzers — 20 cps to 20 kc

-hp- 330B DISTORTION ANALYZER



Measures distortion as low as 0.1% at any frequency, 20 cps to 20 kc. Measures noise voltages as low as 100 μv. High sensitivity, high stability, broad applicability for broadcast, laboratory or production problems. Wide band 20 db gain input amplifier. Built-in vacuum tube voltmeter usable separately. $395.00.

FM, AM-FM MODELS

-hp- 330C, for FM broadcasters, includes VU meter meeting F.C.C. requirements. *-hp- 330D,* for AM, FM broadcasters, includes AM detector to rectify AM carrier, plus VU meter employed in model 330C. Model 330C, $425.00. Model 330D, $440.00.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 300A	Wave form analyzer	30 cps to 16 kc	Variable selectivity; measuring range 1 mv to 500 v	$625.00
-hp- 320A	Measures total distortion	400 cps and 5 kc	Requires external detector	75.00
-hp- 320B	Measures total distortion	50, 100, 400 cps, 1, 5 and 7.5 kc	Same as above	150.00
-hp- 330B	Measures total audio distortion	20 cps to 20 kc	Includes input amplifier, VTVM	395.00
-hp- 330C	For FM broadcast measurements	20 cps to 20 kc	Special VU meter to meet F.C.C. requirements	425.00
-hp- 330D	For AM, FM broadcast measurements	20 cps to 20 kc	AM detector and VU meter to meet F.C.C. requirements	440.00
SQUARE WAVE GENERATOR				
-hp- 210A	Transient and frequency response	20 cps to 10 kc	Output 50 v peak-to-peak. 1,000 ohm impedance	150.00

Data subject to change without notice. Prices f.o.b. factory.

-hp- Microwave Test Instruments For Coaxial and Waveguide Systems

-hp- 430B MICROWAVE POWER METER

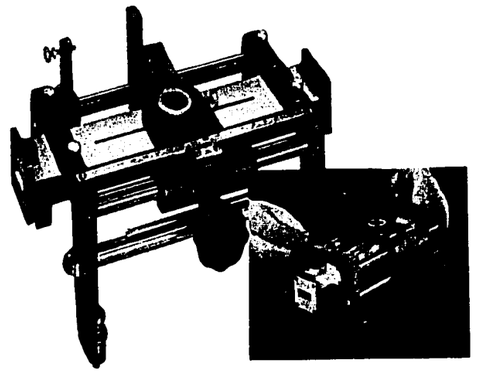


No computations! Provides instantaneous, automatic power readings *direct* in db or mw at all frequencies for which there are suitable bolometer mounts. For CW measurements, uses either 1/100 amp. fuse or Sperry 821 barretter. Also measures CW or pulsed power with negative coefficient thermistor. Operates with *-hp-* 475B or 476A Bolometer Mounts; also 485B Detector Mounts. $250.00.



-hp- 803A VHF BRIDGE

Gives fast, direct readings of any impedance between 50 and 500 mc. Measures by sampling electric and magnetic fields in transmission line. Usable for comparative measurements 5 to 700 mc. Impedance range 2 to 2,000 ohms. Phase angle −90° to +90°, at 52 mc and above. Also measures SWR, % reflected power, VHF system flatness. $495.00.

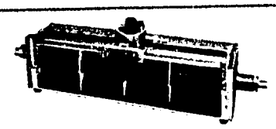


Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 360A-D Low Pass Filters	Eliminates harmonic voltages from UHF systems	Cutoff frequencies A- 700 mc. C-2,700 mc B-1,200 mc. D-4,100 mc	50 db rejection at 1.2 cutoff freq	$ 50.00
-hp- 415A Standing Wave Indicator	VSWR indicator or null indicator	300 to 2,000 cps. Normal freq. 1,000 cps	0 to 60 db amp. Max sensitivity 0.3 μv	200.00
-hp- 417A VHF Detector	VHF bridge detector (for -hp- 803A)	10 to 500 mc	Approx 5 μv sensitivity	200.00
-hp- 430B Microwave Power Meter	Measurement of rf power	Depends on Bolometer mount	01 to 10 mw ± 5% accuracy	250.00
-hp- 475B Tunable Bolometer Mount	Measurement of rf power (with 430B)	1,000 to 4,000 mc	Matches 50 Ohm line to 100 or 200 ohms	200.00
-hp- 476A Universal Bolometer Mount	Measurement of rf power (with 430B)	10 to 1,000 mc	No tuning required VSWR less than 1.25	125.00
-hp- 803A VHF Bridge	Measurement of VHF impedance, VSWR	50 to 500 mc	2 to 2,000 ohms impedance −90° to + 90° phase angle	495.00
-hp- 805A Coaxial Slotted Section	Measurement of VSWR	500 to 4,000 mc	For Type N Connectors flexible cables	475.00
-hp- 805B Coaxial Slotted Section	Same as above	Same as above	For rigid ⅞" RG-8A U line	475.00
-hp- 806B Coaxial Slotted Section	Same as above (mounts in 809B)	3,000 to 12,000 mc	For Type N Connectors flexible cables	200.00
-hp- 809B Universal Probe Carriage	Supports 806B section, also G, J, H, X and P 810 Waveguide sections		Accepts 442B and 444A probes	160.00

-hp- 809B UNIVERSAL PROBE CARRIAGE
-hp- 810 WAVEGUIDE SLOTTED SECTIONS

Convenient, all-purpose *-hp-* 809B carriage operates with six different *-hp-* slotted sections, waveguide and coaxial. Mounts sections covering frequencies 3,000 to 18,000 mc—*sections interchange in 30 seconds!* Precision-built carriage calibrated in mm to 0.1 mm; dial gauge may be mounted. Operates with *-hp-* 442B Broad Band Probe and *-hp-* 440A Coaxial Detector in combination; or with *-hp-* 444A Untuned Probe (See preceding page for probe details.) *-hp-* 809B, $160.00.

-hp- 810A/B Slotted Sections. -hp- 810B, for mounting in 809B carriage, is a flanged waveguide section with accurately machined slot tapered at ends to minimize reflection. Available in 5 waveguide bands, 3.95 thru 18.0 kmc. *-hp S810A,* complete slotted section assembly including probe carriage. Available for 2.6 to 3.95 kmc band only. (See table on preceding page for data, prices.)



-hp- 805A/B COAXIAL SLOTTED SECTION

Range 500 to 4,000 mc. High accuracy, high stability, negligible slope, minimum leakage. Exclusive parallel plane design. VSWR of basic section and connectors, 1.04. *-hp- 805A,* 50 ohms, Type N coax-connector. *-hp- 805B,* 46.3 ohms, for ⅞" rigid transmission lines. $475.00.

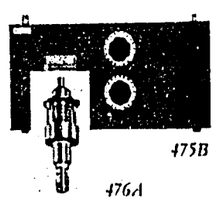
-hp- 806B Coaxial Slotted Section, 3,000 to 12,000 mc. For use with *-hp-* 809B carriage. Section and connector VSWR 1.04 to 8,000 mc. 50 ohm impedance, negligible slope. Type N connectors. $200.00.



-hp- 417A VHF Detector for use with 803A Bridge; or general laboratory use. Super-regenerative receiver, 10 to 500 mc. 5 bands. Approx. 5 μv sensitivity over entire band. Direct reading frequency control, thoroughly shielded. $200.00.



-hp- 415A Standing Wave Indicator for all waveguide or coaxial slotted sections. Gives direct readings in VSWR or db. Single frequency operation; 300 to 2,000 cps. Low noise level, 0.3 μv. sensitivity, 60 db calib. attenuator. $200.00.



475B

476A

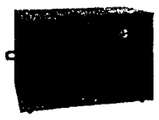
-hp- 476A Universal Bolometer Mount measures rf power 10 to 1,000 mc. No tuning or adjustment. VSWR less than 1.15, 20 to 500 mc; 1.25, 10 to 1,000 mc. $125.00. *-hp- 475B Tunable Mount,* continuous 1,000 to 4,000 mc. $200.00

Data subject to change without notice. Prices f.o.b. factory.

electronic measuring need. See your -hp- representative or write direct for details.

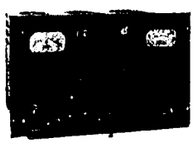
-hp- Frequency Measuring and Monitoring Equipment

-hp- 100D SECONDARY FREQUENCY STANDARD



Swift, sure frequency comparison, new convenience in standardizing with minimum external equipment. 100 μsec time markers, built-in oscilloscope, sine or rectangular waves. Low output impedance; short-time stability 1/1,000,000. Performs most functions of expensive primary standards in audio, rf or supersonic ranges. $600.00.

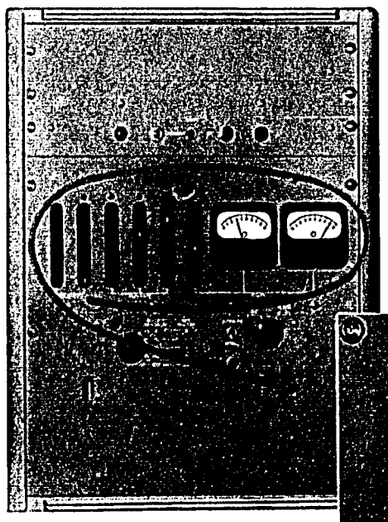
-hp- 335 FM, TV MONITORS

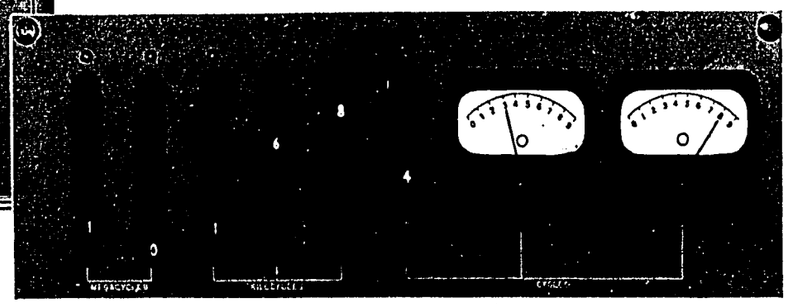


Precision frequency and modulation meters providing reliable, accurate monitoring of transmitters over long periods of time. No adjustment during operation, no reset F.C.C. approved Model 335B, 88 to 108 mc, for FM only. 335C, for aural monitoring TV Channels 2 thru 6. 335D, same except for Channels 7 thru 13. See table for prices.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 100C Secondary Standard	Audio, supersonic calibration	100 kc, 10 kc, 1 kc, 100 cps	Accurate within ± .001% Sine waves only.	$450.00
-hp- 100D Secondary Standard	Frequency, time measurements	100 kc, 10 kc, 1 kc, 100 cps, 10 cps	Stability 1/1,000,000 (short-time) Sine or rectangular output. Marker pips.	600.00
-hp- 335B Frequency Monitor	FM broadcast station monitor	88 to 108 mc	Frequency deviation ± 3 kc; accuracy ± .001% modulation 0 to 100 kc	935.00
-hp- 335C Frequency Monitor	TV station aural monitor	59.75 to 87.75 mc Channels 2 to 6 inc.	Frequency deviation ± 3 kc; modulation 0 to 33.3 kc	935.00
-hp- 335D Frequency Monitor	TV station aural monitor	179.75 mc to 215.75 mc, channels 7 to 13 inc.	Frequency deviation ± 6 kc, modulation 0 to 33.3 kc	935.00
-hp- 336C Frequency Monitor	TV station video monitor	59.75 to 87.75 mc channels 2 to 6 inc.	Frequency deviation ± 3 kc; accuracy ± .001%	400.00
-hp- 336D Frequency Monitor	TV station video monitor	179.75 to 215.75 mc channels 7 to 13 inc.	Frequency deviation ± 6 kc, accuracy ± .001%	400.00
-hp- 337A Frequency Monitor	Communication service monitor	30 to 175 mc (any one frequency)	Frequency deviation ± 15 kc, 20 kc modulation; accuracy .002%	300.00*
-hp- 337B Frequency Monitor	Communication service monitor	30 to 175 mc (any four frequencies)	Same as 337A	350.00*
-hp- 500A Frequency Meter	Rapid frequency measurements	10 cps to 50 kc	10 ranges ± 2% accuracy. Input 0.5 to 200 volts.	210.00
-hp- 505A Electronic Tachometer	Measurements of high speed machinery	600 to 3,000,000 rpm	10 ranges ± 2% accuracy.	$300.00
-hp- 505B Electronic Tachometer	Same as 505A	10 to 50,000 rps	Same as 505A except calibrated in rps.	300.00
-hp- 510A Mixer	Measure frequency continuously with -hp- 500A and 100 D/C	20 cps to 200,000 cps	Mixes two frequencies, delivers difference to -hp- 500A.	200.00
-hp- 520A Nuclear Scaler	For counting high-rate pulses	Capacity 100 counts in 2 decades. 10,000,000 pps counting rate	100:1 divider for operation of low speed scalers.	600.00
-hp- 524A Frequency Counter	Frequency, interval, time measurements	.01 cps to 10 mc	Direct reading, no interpolation, accuracy about 2/1,000,000 / week	2,000.00

*Less crystals and ovens. Crystal & oven per frequency: $27.50





Frequency counted above 10,168,438 cps.

-hp- 524A FREQUENCY COUNTER

Measures *instantly, automatically, presents results directly*—determines any frequency from 0.01 cps to 10 mc. This one instrument combines functions of a frequency standard, interpolating meter and detector. Outstandingly simple operation, easily used by non-technical personnel. Just connect unknown to input terminal, and exact frequency appears automatically on front panel. Result is presented repetitively or may be "held" by depressing "manual" button.

Time of count can be adjusted to 10, 1, .1, .01, or .001 seconds. Accuracy of measurement ± 1 count ± crystal stability (2/1,000,000 per week). For low frequency study, instrument measures duration of *one* low frequency cycle in microseconds, based on a 10 cycle sample. Accuracy .03%. External higher-accuracy standards usable if desired. Minimum voltage of unknown, 1 volt peak. $2,000.00.

- **No computation!**
- **No complex setup!**
- **Usable by anyone!**
- **Instantaneous results!**
- **Broad coverage!**

Data subject to change without notice. Prices f.o.b. factory.

-hp- Waveguide Test Equipment — 2.6 to 18 kmc

Basic, low-cost elements offer utmost flexibility for assembly of exact instrumentation required. Each unit covers entire range of its waveguide size. Simple, sturdy mechanical design; accurate, multi-purpose operation.

Instrument	Coaxial Type N. Conn.	"S" 3" x 1½" 2.6—3.95 kmc.	"G" 2" x 1" 3.95—5.85 kmc.	"J" 1½" x ¾" 5.85—8.2 kmc.	"H" 1¼" x ⅝" 7.05—10.0 kmc.	"X" 1" x ½" 8.2—12.4 kmc.	"P" .702" x .391" 12.4—18.0 kmc.
Adaptors, Waveguide to Coax		S281A $75.00	G281A $55.00	J281A $50.00	H281A $45.00	X281A $35.00	
Cover to choke flange		S290A $40.00	G290A $30.00	J290A $25.00	H290A $20.00	X290A $15.00	P290A $20.00
Attenuators, Fixed 6, 10, 20 db		S370 $75.00	G370 $65.00	J370 $65.00	H370 $60.00	X370 $55.00	P370 $60.00
Flap, 25 db max.		S375A $75.00	G375A $65.00	J375A $60.00	H375A $55.00	X375A $50.00	P375A $55.00
Calibrated		S380A $225.00					
Detector Mounts	440A† $85.00	S485A* $125.00	G485B† $95.00	J485B† $90.00	H485B† $85.00	X485B† $75.00	
Frequency Meters, Reaction				J530A $120.00	H530A $120.00	X530A $120.00	
Directional Couplers, Cross Guide: 20, 30 db		S750 $100.00	G750 $85.00	J750 $70.00	H750 $60.00	X750 $50.00	
Directional Couplers, Multi Hole: 10, 20 db		S752 $210.00	G752 $170.00	J752 $140.00	H752 $120.00	X752 $100.00	
Slotted Sections, Waveguide		S810A* $450.00	G810B† $90.00	J810B† $90.00	H810B† $90.00	X810B† $90.00	P810B† $90.00
Waveguide Tees, Series		S840A $60.00	G840A $50.00	J840A $40.00	H840A $35.00	X840A $30.00	P840A $35.00
Shunt		S841A $60.00	G841A $50.00	J841A $40.00	H841A $35.00	X841A $30.00	P841A $35.00
Hybrid		S845A $90.00	G845A $75.00	J845A $60.00	H845A $55.00	X845A $45.00	P845A $55.00
Transformers, Slide Screw		S870A $150.00	G870A $140.00	J870A $135.00	H870A $130.00	X870A $125.00	P870A $130.00
E-H		S880A $175.00	G880A $155.00	J880A $145.00	H880A $135.00	X880A $130.00	P880A $135.00
Terminations, Low Power		S910A $45.00	G910A $40.00	J910A $35.00	H910A $30.00	X910A $25.00	P910A $30.00
Terminations, High Power		S912A $125.00				X912A $75.00	
Moving Load		S914A $80.00	G914A $70.00	J914A $60.00	H914A $50.00	X914A $40.00	P914A $50.00
Adjustable Shorts		S920A $80.00	G920A $70.00	J920A $65.00	H920A $60.00	X920A $50.00	P920A $55.00
Broad Band Probe	442 $75.00	All Frequencies					
Broad Band Probe, Untuned	444A $50.00	All Frequencies					

†For use with bolometer or crystal *For use with bolometer only *Complete assembly including carriage §Mounts in 809B Carriage—See next page

Equipment below available for most waveguide bands. Table above shows data, prices.

-hp- 281A WAVEGUIDE-COAX ADAPTERS



For convenient transition between waveguide and coax systems. Each unit covers a full waveguide range with VSWR less than 1.25. Equipped with Type N connectors.

-hp- 750 CROSS-GUIDE COUPLERS



Directional couplers offered in 2 models with coupling factors of 20 or 30 db ± 1.5 db over full range of a waveguide. VSWR less than 1.15; directivity approx. 20 db. Available as a 4-terminal network.

-hp- 485B DETECTOR MOUNTS



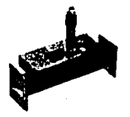
To measure power over complete waveguide range in conjunction with -hp- 430B Power Meter and barretter. Also measures relative level, or detects rf energy using 1N21 or 1N23 crystal. Semi-turned by movable short to VSWR 1.25.

-hp- 530A FREQUENCY METERS



General-purpose reaction meter. Covers a complete waveguide frequency range. High "Q" resonant cavity tuned by plunger. Quick-reference chart converts micrometer reading to frequency. Accuracy 0.1%. No spurious modes or resonances.

-hp- 870A SLIDE SCREW TUNERS



For flattening waveguide systems. The position and penetration of a probe is adjusted to set up a VSWR which is used to cancel existing VSWR in system. VSWR values up to 20 can be corrected with accuracy of 1.02 VSWR.

-hp- 444A UNTUNED PROBE



A 1N26 crystal plus small antenna in a convenient, easy-to-use housing. Variable penetration depth, no tuning required. Sensitivity equal to single- or double-tuned probes. Frequency range: 2.6 to 18.0 kmc. Mounts in 809B Carriage. (See next page.)

-hp- 375A FLAP ATTENUATORS



Simplifies adjusting power level in waveguide. Attenuation is quickly adjustable 0 thru 20 db. Approximate calibration. VSWR less than 1.15 over attenuation range. No leakage.



-hp- 752 MULTI-HOLE COUPLER

Directional couplers available in 2 models with coupling factors of 10 and 20 db ± 0.7 db over full range of a waveguide. VSWR better than 1.05. Directivity 40 db or better over entire range. Available as a 3-terminal network.



-hp- 914A MOVING LOAD

Low-reflection load covering full frequency range of guide. Load position variable at least ½ wavelength to reverse phase of reflection so that small residual reflections can be evaluated. Coefficient of reflection less than ½%.

Data subject to change without notice. Prices f.o.b. factory.

-hp- POWER SUPPLIES

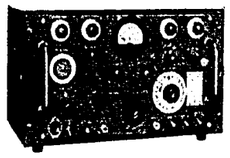


-hp- 715A (illustrated) is a versatile source of regulated beam and reflector voltage for operating most test bench klystron tubes. Beam voltage 250 to 400 v; reflector voltage 0 to 900 v; 6.3 v filament. Internal, 1,000 cps square wave modulation, also 60 cps FM modulation, both on reflector voltage. $300.00.

-hp- 710A—Highly stable regulated dc supply, output variable 180 to 360 v at 75 ma., 6.3 v filament. Either terminal may be grounded. Total hum and noise less than 5 mv. $85.00.

-hp- 712A. Stabilized, variable power supply providing 0 to 500 v at 200 ma and ½% regulation. Also variable bias voltages, 0 to 150 v at 5 ma, and 6.3 v filament at 10 amps. Main supply completely metered. Either terminal may be grounded. Hum less than 8 mv. For laboratory, production or general use. $250.00.

-hp- 624A X-BAND TEST SET



High level, direct reading, *portable* test set simplifies lab or field work at frequencies 8,500 to 10,000 mc. Rf output .223 v max. High stability attenuator reduces level by 100 db. May be pulsed or fm modulated. Separate section measures external rf power or external frequency. Ideal one-piece unit for measuring sensitivity and selectivity, tuning and power level of radar, gunfire and beacon systems. $2,250.00.

-hp- 623B SHF Test Set, like 624A but operates over frequencies determined by klystron installed. Six klystrons available (each with 300 mc band width) for frequencies between 5,925 and 7,725 mc. Fm modulated. Includes 1,000 cps square wave modulator. $1,650.00 *(with one Klystron).*

-hp- AMPLIFIERS

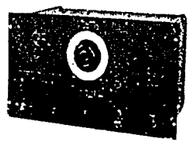


Complete instrumentation for distortion-free fast pulse measurement. *-hp- 460A Wide Band Amplifiers,* in cascade with *-hp- 460B Fast-Pulse Amplifiers* offer up to 90 db gain, 125 v open circuit output. This permits full deflection of 5XP CRT, or 2-inch deflection of 5CP tubes. Rise time 0.0026 μsec; can amplify milli-microsecond pulses; gives over 100 mc bandwidth to your standard oscilloscope. 460A, $185.00; 460B, $225.00. Connecting cables, plugs, accessories—prices on request.

-hp- 450A Amplifier—general purpose instrument, 20 db or 40 db gain, for use wherever wide frequency range and high stability are needed. 10 cps to 1 mc. Negligible phase shift, no spurious responses. $140.00.

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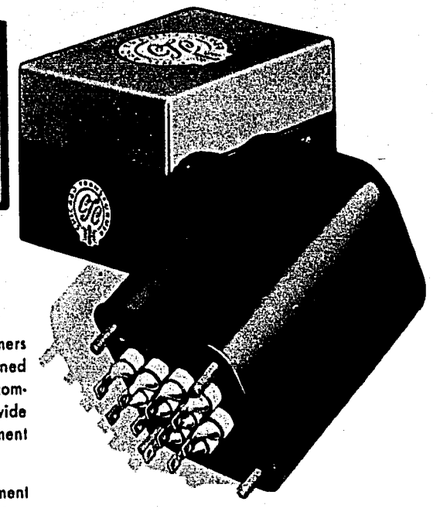
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Mfr's Type	Plate VCT	Plate Ma	Rect. V	Rect. A	Fil. VCT	Fil. A	Wt. Lbs.	NET EACH
PHC-55	540	55	5	2	6.3	2	3½	12.75
PHC-70	670	70	5	2	6.3	3	4½	13.79
PHC-85	660	85	5	2	6.3	3	6	14.79
PHC-105	690	105	5	2	6.3	3.5	6½	16.29
PHC-120	750	120	5	3	6.3	4	9½	17.23
PHC-150	740	150	5	3	6.3	4	11½	21.34
PHC-200	770	200	5	3	6.3	4.5		22.46
					6.3	1	12	

POWER TRANSFORMERS
FOR REACTOR INPUT SYSTEMS (117 v., 50-60 cy. primaries)

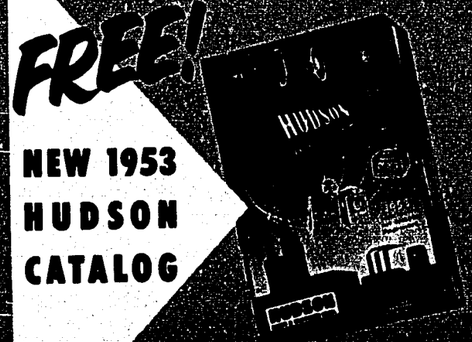
PHR-55	700	55	5	2	6.3	2	3¼	12.75
PHR-70	850	70	5	2	6.3	3	4½	13.79
PHR-85	880	85	5	2	6.3	3	6	14.79
PHR-105	900	105	5	2	6.3	3.5	6½	16.29
PHR-120	1000	120	5	3	6.3	4	9½	17.23
PHR-150	1020	150	5	3	6.3	4	11½	21.34
PHR-200	1040	200	5	3	6.3	4.5		22.46
					6.3	1	12¼	
PHR-300	1100							30.68
	740				6.3	5		
	150	300	5	6	6.3	1	17½	

FILTER REACTORS

Mfr's Type	Hys.	Ma	Ohms	Test Volts	Wt. Lbs.	NET EACH
RH-1540	15	40	475	2,500	1½	6.12
RH-1055	10	55	230	2,500	1¾	6.32
RH-1555	15	55	420	2,500	2	6.32
RH-1085	10	85	175	2,500	2½	6.70
RH-1585	15	85	285	2,500	2¾	6.70
RH-8105	8	105	100	2,500	3¾	7.85
RH-12105	12	105	170	2,500	4	7.85
RH-8150	8	150	100	2,500	5¼	9.00
RH-12150	12	150	150	2,500	5½	9.00
RH-8200	8	200	85	2,500	7	10.58
RH-12200	12	200	140	2,500	7	10.58
RH-8300	8	300	70	2,500	12½	15.20

FILAMENT TRANSFORMERS (115-230 v., 50-60 cycle primaries)

Type	Sec. VCT	Sec. A	Test V.	Lbs.	NET
FH-210	2.5	10	5,000	3	13.02
FH-210H	2.5	10	9,000	4	15.14
FH-54	5	4	2,500	2¼	9.37
FH-58	5	10	2,500	3½	13.02
FH-516	5	20	2,500	6½	18.82
FH-530	5	30	2,500	10½	24.25
FH-65	6.3	5	2,500	3	10.91
FH-610	6.3	10	2,500	5	15.43
FH-104	10	4	2,500	3¼	11.20
FH-1010	10	10	2,500	6½	18.20



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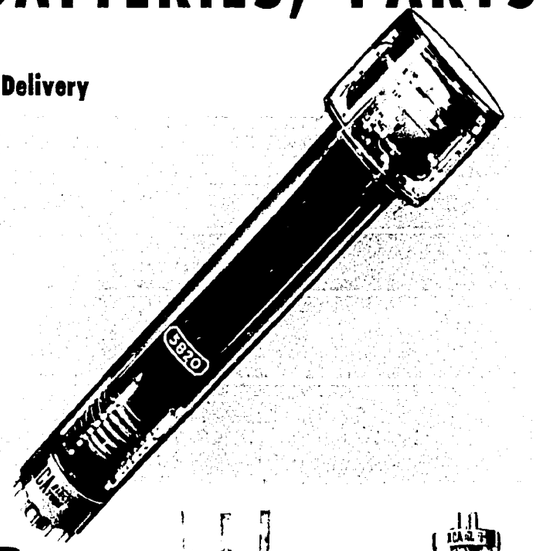
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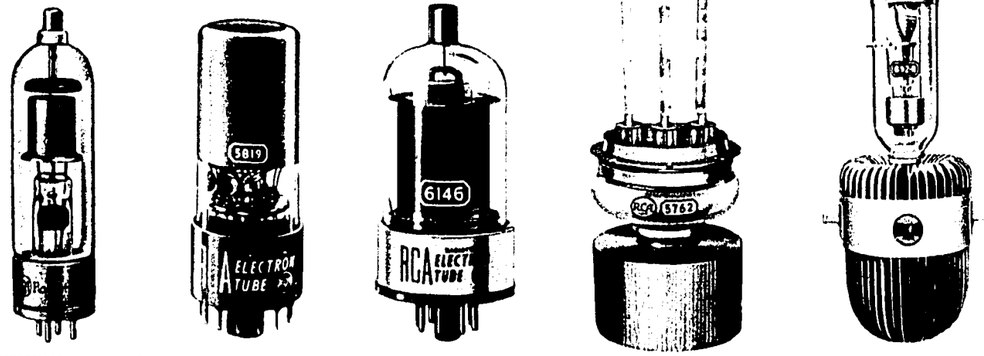
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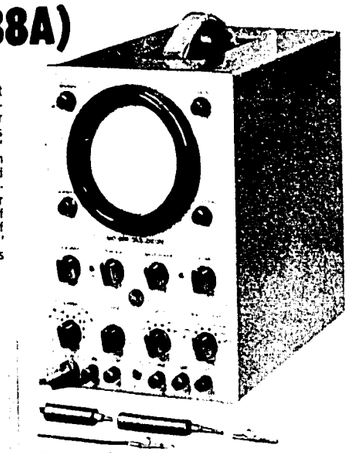
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Deflection Sensitivity:
Vertical Amplifier ..... 25 Millivolts rms per 1"
Input Resistance and Capacitance:
Vertical Amplifier:
At Input Terminals ..... 1 megohm shunted by 30 uuf
With WG-218 Direct Probe and Cable ..... 1 megohm shunted by 75 uuf
With WG-216B Low-Capacitance Probe ... 10 megohms shunted by 9.5 uuf
Sweep-Circuit Frequency ..... 15 cps to 30 Kc
Power Requirements:
Voltage ..... 105-125 volts
Frequency ..... 50-60 cps
Mechanical
Width ..... 9 inches
Height ..... 13½ inches
Depth ..... 16½ inches
Weight ..... (Approx.) 25 lbs.
Finish ..... Blue-gray hammered case, frosted-aluminum panel, black knobs and bezel

RCA WO-88A Price **$159.50**
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WV 97A
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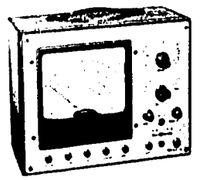


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RMS VOLTAGE: 0 to 1.5, 5, 15, 50, 150, 500, 1500 volts
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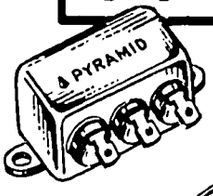
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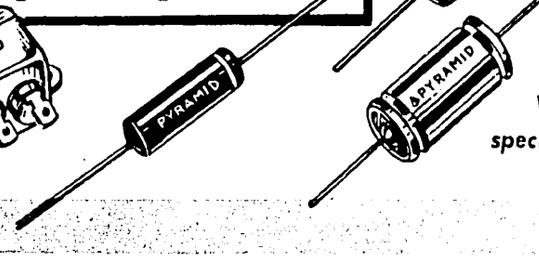
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EXTENDED FOIL CONSTRUCTION	TYPE EPGX - Section grounded to container. TYPE EPGIX – Section insulated from container.

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EPGH	178P	TWH····EG
EPGM	181P	TWC····EG
EPGX	186P	
EPGIH	188P	TWH····E
EPGIM	191P	TWC····E
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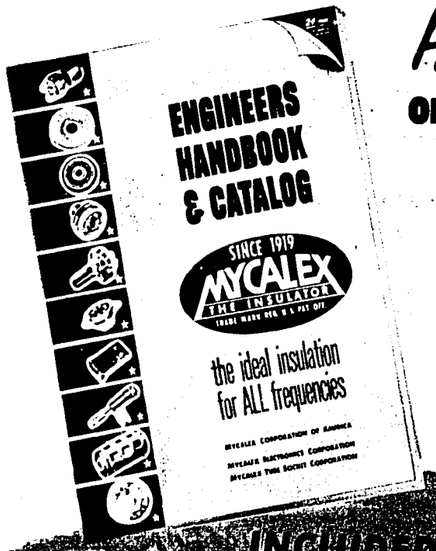
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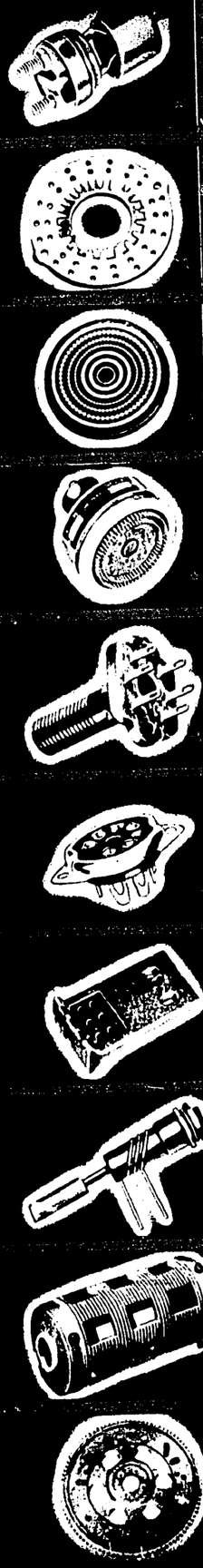
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Mycalex Corp. of America

The MYCALEX Story

SINCE 1919 — MYCALEX — AIRE-IN SULATOR — TRADE MARK REG. U.S. PAT. OFF.

The mining and production of sheet and block mica results in the accumulation of large amounts of scrap mica which, though free from impurities, for long had no commercial use. Shortly after World War I, Percy B. Crossley, a young chemical engineer employed by Hoare Miller & Co., the well-known British-Indian firm, endeavored to find some use for the mountains of mica which had accumulated over the centuries that mica has been mined in India.

After many unsuccessful experiments, Crossley discovered that if high grade powdered mica were mixed with the proper grades of powdered electrical glass and the mixture fused under tremendous pressure at an extremely high temperature, the ensuing plastic material, if cooled under proper pressures and conditions, would form a new composition which inherited all the insulating advantages of both materials and yet eliminated the lack of homogeneous structure of mica sheets and the brittleness of glass.

This glass-bonded mica material was found to combine all the advantages of its constituents — low loss factor, high dielectric strength, imperviousness to water and oil, perfect resistance to extremely high temperatures and humidity, freedom from carbonization, dimensional stability—together with other surprising, and useful, characteristics, such as its ability to be machined and molded to close tolerances.

Crossley's ingenious invention was granted basic patent protection and Mycalex Company, Ltd. was organized in England to develop and market the new glass-bonded mica insulation. This organization issued non-exclusive licenses in the United States to the General Electric Co. in 1923 and to the Westinghouse Electric Corporation in 1930, and to companies of comparable standing in other countries. In 1931 the Mycalex Corporation of America was formed, with 50% of the stock owned by the Mycalex Company, Ltd. and was given exclusive licenses under the English company's patents and improvements, subject only to the existing non-exclusive licenses previously granted to General Electric and to Westinghouse. Mycalex Corporation of America, which became wholly American-owned in 1941, is thus heir to the original methods, formulations, and developments of the English company—accumulated knowledge which goes back to 1919, well over thirty years.

In 1942, Mycalex Corporation of America, which had been importing Mycalex glass-bonded mica sheets and rods from England, commenced its own manufacturing operations. The initial formulations were those of the English company; but the Mycalex Corporation's own intensive development program soon led to the production of superior and special types of glass-bonded mica materials.

Mycalex 400 was developed as an all-purpose glass-bonded mica insulation particularly suited for high frequency use and was brought to its present high level of quality and performance in May, 1944. It was the first compression-molded glass-bonded mica dielectric to receive Grade L-4A ASESA approval.

Mycalex K-10 was manufactured in 1943 to meet the urgent demands of the Navy for a capacitor dielectric that not only possessed all the advantages of the best ceramic materials but could also be machined or molded to close tolerances.

In 1944, the introduction of injection-molded Mycalex 410 filled the great need of the electrical industry for a non-organic insulation that, while possessing all the advantages of Mycalex glass-bonded mica, could also be molded to close tolerances and in which metallic inserts could be incorporated.

New injection-molding equipment and techniques were developed in 1944, to make possible the injection-molding of Mycalex 410 in production quantities. Our continuing progress in this field now makes possible large-scale production of insulators whose designs represent a degree of intricacy undreamed of only a few years ago. Mycalex 410X was perfected and introduced in 1949. This leadless formulation of glass-bonded mica is valuable in the many applications where, though the loss factor need not be as low as Grade L-4, all the other characteristics of Mycalex 410 are desired. Among the special advantages of this injection-molded material are its lower density (30% less) and its lower cost — a superior insulation which, in volume production, is competitive in price with general purpose phenolics.

An Important Statement

Occasionally, engineers and purchasing executives ask questions as to the relationship of the MYCALEX CORPORATION OF AMERICA to other companies manufacturing glass-bonded mica insulation under other trade-names, and as to the proper use of the words "Mycalex" and "glass-bonded mica". Here are the answers to the most frequently asked questions:

1. The MYCALEX CORPORATION OF AMERICA is not connected or affiliated with any other company manufacturing or distributing glass-bonded mica insulation materials, except Mycalex Electronics Corporation and Mycalex Tube Socket Corporation. These "Mycalex" companies are exclusively licensed by the Mycalex Corporation of America to distribute Mycalex glass-bonded mica components.

2. The word "MYCALEX" is not a generic term. "Glass-bonded mica" is the generic or common name of the material. "Mycalex" is a trade-mark registered in the United States Patent Office, and owned by the MYCALEX CORPORATION OF AMERICA, and identifies the glass-bonded mica products of formulae and design developed and manufactured in the plant of the MYCALEX CORPORATION OF AMERICA.

3. The General Electric Company, by virtue of a non-exclusive license it had under a MYCALEX patent through the MYCALEX COMPANY, LTD., of Great Britain, has been permitted to identify its glass-bonded mica insulating materials made under such license as "G-E Mycalex."

4. All products of the MYCALEX CORPORATION OF AMERICA are given distinctive identifications incorporating the trade-marked name "Mycalex", such as "MYCALEX 410", "MYCALEX 410X", "MYCALEX 400", and "MYCALEX K". The trade-mark "Mycalex", as such, and these identifications may be used only by the MYCALEX CORPORATION OF AMERICA and those authorized by it.

Outstanding Properties

- Low electrical loss factor
- High dielectric strength
- Complete dimensional and age stability with freedom from cold flow, warpage and distortion
- Closer dimensional tolerances can be held than with ceramics or organic plastics
- Unaffected by high humidity conditions
- Mycalex is impervious to water, oil and organic solvents
- Very high arc resistance with complete freedom from carbonization
- Continuous operating temperature stability up to 650°F.
- Shrinkage is very close to that of cold-rolled steel—permitting very tight inserts over a wide temperature change
- Mycalex parts may be used as inserts in die casting
- Approved as grade L-4 material under JAN-I-10

New MYCALEX Developments

Mycalex Corporation of America, the world leader in glass-bonded mica production and development, is actively continuing its research program to meet the increasingly stringent requirements of the electronics industry.

Among the projects involving the use of glass-bonded mica, on which our engineers are currently engaged, are:

- Development of Mycalex hermetic seals
- Production of synthetic mica for improved Mycalex formulations
- Production of a Mycalex Grade L-5 Dielectric capable of resisting temperatures up to 900°F.
- Printed circuits on Mycalex base
- Mycalex Tuning Coil
- Standard Mycalex Relay Spacer
- Mycalex Transistor sockets

TABLE OF CONTENTS

PAGE

THE MYCALEX STORY 2
Discovery and Development of Mycalex
An Important Statement of Facts Vital to users of electrical insulation

CHARACTERISTICS OF MYCALEX 4
A comparison with other electrical insulators
Eight major advantages of Mycalex insulation

MYCALEX, THE MODERN INSULATION 5
Properties of Mycalex and other materials

INJECTION-MOLDED GRADES 6
Mycalex 410 Glass-Bonded Mica
Mycalex 410X Glass-Bonded Mica
Mycalex KM Glass-Bonded Mica

COMPRESSION-MOLDED GRADES 7
Mycalex 400 Glass-Bonded Mica
Mycalex K Glass-Bonded Mica

MYCALEX 410, INJECTION-MOLDED GRADE 8
General Description
Data and Specifications

MYCALEX 410X, INJECTION-MOLDED GRADE 10
General Description
Data and Specifications

DESIGN OF MOLDED INSULATORS 11

MYCALEX 400, COMPRESSION-MOLDED GRADE 12
Data and Specifications
Sizes and Weights

MACHINING AND FABRICATING METHODS 14
Mycalex 400

MYCALEX K SERIES, GENERAL CAPACITOR DIELECTRIC 15
Electrical Advantages
Shapes and Sizes Available

DESIGN OF MACHINED INSULATORS 16
Mechanical Design Criteria

SWITCHES AND COMMUTATOR PLATES 18
Mycalex Model TM51 Telemetering Switch
Mycalex 410 Contact Plate
Air Material Command Precision Commutator

TUBE SOCKETS 19
Five pages of data and specifications on Miniature, Subminiature and Ultra High Frequency Types

MYCALEX ADVISORY SERVICE 24
Technical assistance
How to reach Mycalex Offices and Plant

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The role of Mycalex glass-bonded mica in the advanced electronic devices of tomorrow is not dependent upon a few outstanding advantages. The main reason for the success of Mycalex is its unique ability to combine all the important characteristics required of a thoroughly modern, permanently efficient insulating material. In Mycalex, every one of the eight desirable qualities featured below is incorporated into a single powerful unit. Thus Mycalex—with its invaluable combination of attributes—offers a dynamic challenge to designers of electrical and electronic devices: a challenge to the development of new techniques, new ideas, new products. American ingenuity has been quick to take advantage of this highly efficient insulating material. Mycalex is influencing advanced trends of invention, and the future holds a wealth of untapped potentialities. The table below shows at a glance how Mycalex compares with other insulating materials. It is evident that Mycalex leads the list with 91% of the requirements for an ideal insulator.

COMPARISON OF MYCALEX GLASS-BONDED MICA WITH OTHER INSULATING MATERIALS

REQUIREMENT	MYCALEX 400 MYCALEX 410	Steatite	Thermo-setting plastics*	Thermo-plastics*	Porcelain	Electrical Glass	KEL-F	TEFLON
loss factor less than 0.016 at 1 megacycle	yes	yes	no	yes	no	yes	no	yes
volume resistivity greater than $1x10^{12}$ ohm-cm	yes	yes	yes	yes	yes	yes	yes	yes
dielectric strength greater than 300 v/mil	yes	no	yes	yes	no	yes	yes	yes
sp gr less than 3.0	no	yes	yes	yes	yes	yes	yes	yes
dimensional precision and stability after molding and upon aging	yes	no	no	no	no	no	yes	yes
moldability or machinability to close tolerances	yes	no	yes	yes	no	no	yes	no
flexural strength greater than 12,000 psi	yes	yes	no	no	no	no	no	no
water absorption less than 0.1% (48 hrs.)	yes	yes	no	yes	no	yes	yes	yes
freedom from carbonization	yes	yes	no	no	yes	yes	yes	yes
metal inserts molded into insulator	yes	no	yes	yes	no	yes†	yes	no
operating temp. above 600° F.	yes	yes	no	no	yes	yes	no	no
average rating	91%	64%	45%	64%	36%	73%	72%	64%

Note: The specific gravity of Mycalex 410X is 2.6 — refer to table on page 5, and data on page 10.

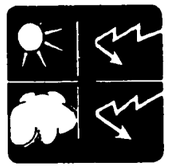
*The type which most closely meets requirements listed.
†Usually special alloys.



DIMENSIONAL PRECISION AND STABILITY — Where accuracy of dimensions is important, Mycalex is invaluable because it does not warp. Sheets maintain their original flatness and size. Machined forms hold their shape indefinitely. This quality of "unwarpability" makes Mycalex useful in many applications where other materials fall short.



MACHINED OR MOLDED TO CLOSE TOLERANCES Although a hard vitreous material, Mycalex can be machined or molded to close tolerances: thicknesses of ±0.001 inch on flat strips up to about 100 square inches in area; diameters of ±0.001 inch on rods and for reamed holes, ±0.002 inch for drilled holes.



RESISTANCE TO HIGH TEMPERATURE AND HUMIDITY — In modern worldwide electronics, tropical temperature and humidity create new problems which many insulating materials cannot meet. Mycalex, however, retains its original physical and electrical properties under conditions of extreme temperature and humidity.



LOW LOSS FACTOR — Mycalex glass-bonded mica has a lower loss factor than any other material except a few of the steatites, glasses and thermo-plastics. The low loss factor not only means less loss of electrical energy but more stable circuit characteristics at high frequencies. The loss factor of Mycalex 400 is only 0.015 at one megacycle after 48 hours immersion; that of Mycalex 410 is 0.014.



HIGH DIELECTRIC STRENGTH — In dielectric strength, Mycalex matches most thermoplastic organic insulations; probably outstrips phenolics and laminates; and definitely surpasses steatites and porcelains. While many conditions cause variations in dielectric strength, the average for Mycalex is 500 volts per mil for ¼ inch thickness.



HIGH FLEXURAL STRENGTH — Mycalex has a flexural strength of 15,000 to 20,000 psi: 25% lower than the best phenolic laminates; equal to many laminates; only 10 to 15% lower than steatite. The high flexibility of Mycalex enables it to withstand a greater degree of bending or vibration than any other vitreous material.



FREEDOM FROM CARBONIZATION — Any insulator which is susceptible to carbonization in case of arcing is seriously handicapped. Many organic plastic materials are restricted by this drawback. Mycalex, however, is free from this limitation — due to the absence of any ingredients which can carbonize.



IMPERVIOUS TO WATER, OIL — Mycalex glass-bonded mica does not absorb water. It has no reaction with oils or any organic solvents. Mycalex, therefore, does not have the surface leakage found in many other insulators. The smoother the insulator surface, the less moisture it retains.

MYCALEX CORPORATION OF AMERICA

-of Today's Modern Insulation

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COMPARISON OF MYCALEX GLASS-BONDED MICA WITH OTHER INSULATING MATERIALS

	GLASS-BONDED MICA "MYCALEX 410"	GLASS-BONDED MICA "MYCALEX 400"	GLASS-BONDED MICA "MYCALEX 410X"	STEATITE	* MICA-FILLED PHENOLIC	* ALKYD (Polyester Molding Compound Mineral-Filled)	* MELAMINE (Asbestos Filled)	* GENERAL PURPOSE PHENOLIC (Wood-Flour Filler)	* "TEFLON"	* "KEL-F"	* POLYSTYRENE	ELECTRICAL GLASS	PORCELAIN
Dimensional Precision and Stability	A	A	A	C	B	B	C	C	C	B	B	B	C
Heat Distortion, °F	650	700	650	1800	230-350	350-400	320	265	266 (66 psi)	160 (66 psi)	200-210	925-1679	2200
Thermal Expansion/°C	10×10^{-6}	10×10^{-6}	10×10^{-6}	7×10^{-6}	19×10^{-6}	35×10^{-6}	.....	$20\text{-}45 \times 10^{-6}$	$30\text{-}45 \times 10^{-6}$	99×10^{-6}	78×10^{-6}	3.3-13.0x10⁻⁶	5×10^{-6}
Power Factor 10^6 cycles/sec.	0.0015	0.0018	0.012	0.0025	0.005-0.013	.014-.018	0.041-0.050	0.03-0.07	.002	.0082	.0001-.0002	0.0006-0.009	0.008-0.01
Dielectric Constant 10^6 cycles/sec.	9.2	7.4	6.9	5.8-6.3	4.2-5.2	4.6-4.9	6.1-6.7	4.0-7.0	2.0-2.05	2.43	2.40-2.42	4.0-7.2	6.5
Loss Factor 10^6 cycles/sec.	0.014	0.013	0.08	0.014-0.016	0.021-0.065	0.064-0.088	.25-.33	.12-.49	.0004	.019	.0002-.0005	0.0024-0.065	0.05-0.07
Dielectric Strength ⅛" thickness, volts/mil 25°C (Step-by-Step) 100°C (Step-by-Step)	400 400	500 500	400 400	240 240	250-390	325-335 508-525+	....	320	100-375	430	600	500 500	200 200
ARC Resistance ASTM Seconds	250	300	250	500	Tracks	190+	120-140	Tracks	700	360	70-130	500	500
Mold Shrinkage, in./in.	nil	.....	nil	.....	0.0005-0.005	0.004-0.007	0.005-0.007	0.004-0.009	.005-.010	.005-.010	.02-.05	.....	.....
Tensile Strength, PSI	5,000-7,000	6,000	5,000-7,000	9,000	5,000-7,000	3,000-4,000	5,500-7,000	6,500-8,500	1,500-2,500	5,700	8,500-9,500	8,000-14,000	4,500
Compressive Strength, PSI	23,000-27,000	35,000	27,000-30,000	80,000	15,000-25,000	18,000-20,000	30,000	22,700-36,000	1,700	32,000-88,000	12,000-13,500	60,000-175,000	40,000
Flexural Strength, PSI	12,000-14,000	15,000	12,000-14,000	20,000	8,000-12,000	8,000-10,000	9,000-11,000	8,500-12,000	2,000	8,200	12,000-13,000	11,000-16,000	11,000-18,000
Modulus of Elasticity, PSI	7.2×10^6	11×10^6	8.0×10^6	12×10^6	$3.0\text{-}5.0 \times 10^6$	2.5×10^6	1.6×10^6	$0.8\text{-}1.2 \times 10^6$	$.058 \times 10^6$	$.226 \times 10^6$	$.017\text{-}.47 \times 10^6$	7.1-11.5 x 10⁶	10×10^6
Impact Strength, Izod ft.-lbs./in. of notch	0.70	1.85	0.60	1.90	0.30-0.38	0.30-0.35	0.28-0.40	0.24-0.60	4.0	3.62	0.30-0.45	.....	0.70-1.25
Water Absorption, 24 hr. ⅛" thickness, %	nil	nil	nil	0-0.05	0.01-0.10	0.5-0.8	0.08-0.14	0.3-1.0	nil	nil	0.04-0.06	nil	0-0.5
Specific Gravity	3.8	3.0	2.6	2.7	1.75-1.92	2.18-2.22	1.70-2.00	1.32-1.55	2.1-2.3	2.1	1.05-1.07	2.13-3.18	2.35-2.45



Injection-Molded Grades

Precision Molded to Size

MYCALEX 410 Glass-Bonded Mica

An injection-molded material (molded in transfer-type molds) of great versatility in design. It is an all-purpose low-loss insulation suitable for use over the whole range from power frequencies to ultra-high frequencies. Arc resistance and dielectric strength are high; mechanical strength is good. A variety of metals may be incorporated directly into the insulators during the molding operation. Mycalex 410 meets all the requirements for Grade L-4B under Joint Army-Navy Specification JAN-I-10. (Qualification Approval Certificate #ASESA-13385 dated 21 February '51.)

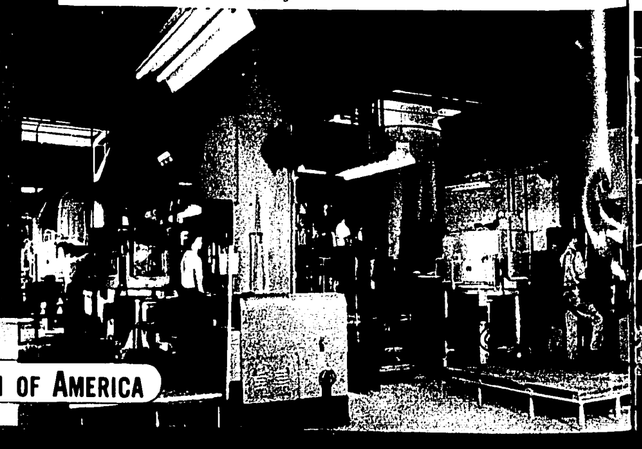
MYCALEX 410X Glass-Bonded Mica

This grade is an injection-molded type intended for the field of applications occupied by general-purpose phenolics and similar materials. Its cost is competitive but the electrical properties are much superior. The safe operating temperature is high. It is completely inorganic and therefore has excellent arc resistance. Mycalex 410X weighs approximately 30% less than Mycalex 410.

MYCALEX KM Glass-Bonded Mica

Type KM is the injection-molded counterpart of Mycalex K. Higher dielectric constants can be obtained with the KM materials, and metal inserts can be molded directly into the dielectric.

Ultra modern production machines like this battery of high speed molding presses assure efficiency and economy in manufacturing.



Compression-Molded Grades

Sheet and Rod for Fabrication

MYCALEX 400 Glass-Bonded Mica

A machinable type of Mycalex available as sheets or rods or as insulators machined to specifications. This type of material has low dielectric losses over a large portion of the frequency spectrum. The dielectric strength is high, arc resistance is good, and mechanical strength is satisfactory for all except unusually severe requirements. Mycalex 400 is used extensively in electronic circuits, especially at high frequencies. It is fully approved as Grade L-4A insulation under Joint Army-Navy Specification JAN-I-10. (Qualification Approval Certificate #ASESA-13332 dated 14 February '50.)

Mycalex 400 glass-bonded mica can be readily machined using regular machine shop equipment. This low-loss insulator can be cut, drilled, tapped, threaded, flycut, slotted and ground. Finishing and polishing require only the usual abrasive wheels found in the average plant. Machining and fabricating techniques are discussed fully on Page 14.

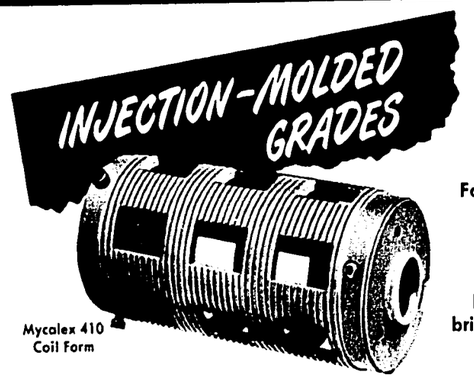
For applications and forms available, refer to Page 12.
Complete electrical and mechanical data, on Page 13.

MYCALEX K Glass-Bonded Mica

A machinable capacitor dielectric which is manufactured to special order. Dielectric constants of 10, 15 and 20 at one megacycle can be produced. Dielectric strength and arc resistance are good. Mechanical strength is satisfactory.

Precision lathes and millers occupy a corner of the tool room where all Mycalex production tools are made.





Mycalex 410
Coil Form

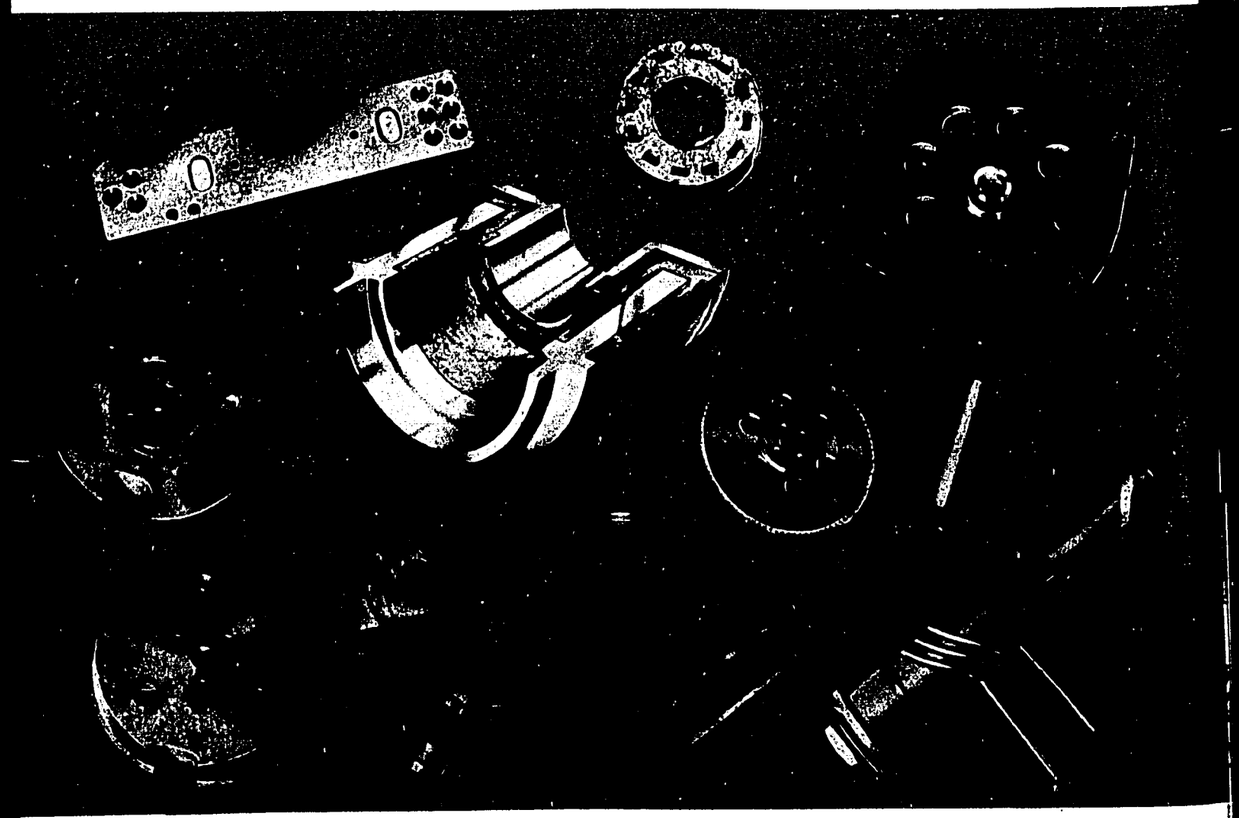
Mycalex 410

For many years there existed in the electrical and electronic industries a great need for an inorganic insulation which could be molded to close tolerances and which could incorporate metallic inserts when necessary. Sporadic attempts to fill this need resulted in some small success but it remained for the Mycalex Corporation of America to bring the product to the present high degree of development.

The variety of shapes possible with Mycalex 410 glass-bonded mica is remarkable; and when this varied geometry is coupled with very low dielectric losses over the electromagnetic spectrum from 60 cycles per second to 24,000 megacycles per second, an insulation of unusual versatility results.

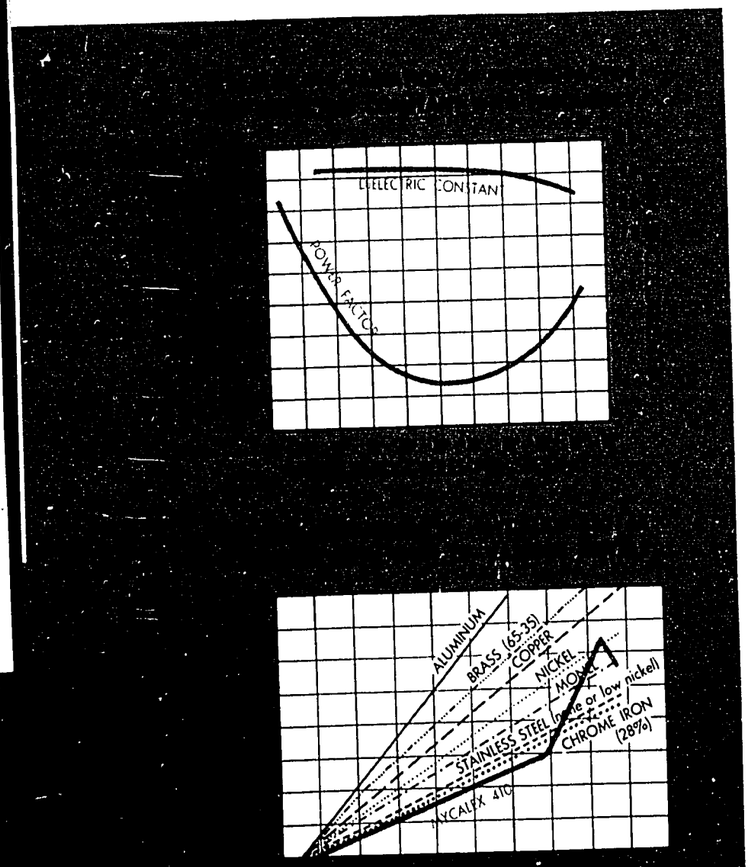
There are no fillers or plasticizers in Mycalex 410. The ingredients consist solely of mica of the highest quality and a special glass, developed for the purpose, as the matrix in which the mica is carried. Mica, however, is not simply dispersed in the glass. There are selective chemical reactions, with consequent chemical bonding, which occur at the interfaces of glass and mica; and these bonds give a degree of strength and electrical excellence not obtainable when one phase is merely dispersed throughout another.

Mycalex 410 cannot be undercured or overcured, as in the case of organic plastics. The necessary time in the mold is only that required for the material to become rigid through drop in temperature. Hence, there are no changes of any kind which could produce distortions. The precision dimensions molded into a Mycalex insulator are the dimensions which remain indefinitely so long as the material is not heated above 650°F. Mycalex 410 products have complete dimensional stability.



Data and Specifications

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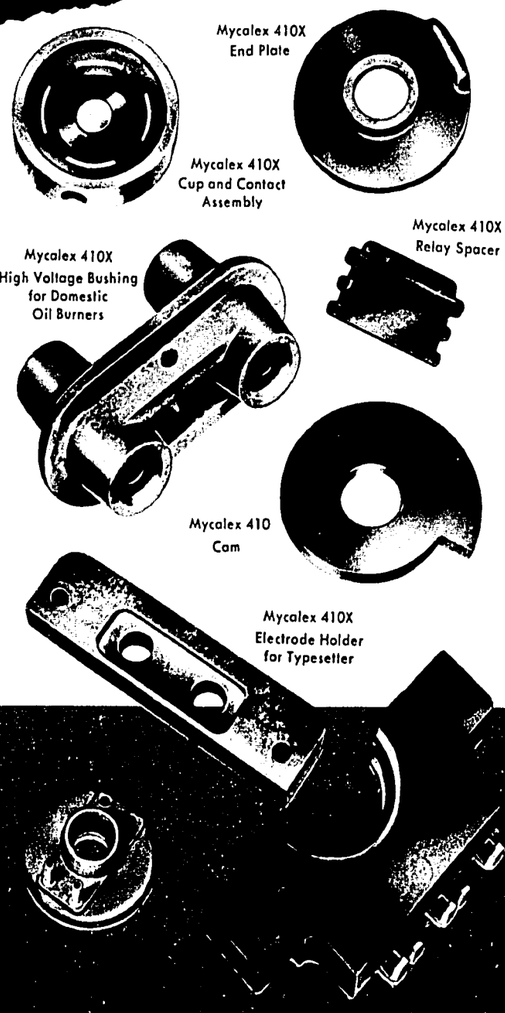
● Mycalex 410 glass-bonded mica is a precision molded inorganic insulator with very low dielectric losses. It fills an obvious need at all frequencies and particularly in the high frequency bands. Mass produced high frequency products require close tolerances, both on dimensions and electrical properties. Mycalex 410 has a loss factor of 0.014 at one megacycle after immersion for 48 hours in water, and is therefore classifiable as Grade L-4 insulation.

● Electrically, then, it may be considered the injection-molded counterpart of Mycalex 400. Mycalex 410 lends itself to precision molding at high production rates in multi-cavity molds. It is consequently a most desirable insulation for all parts which are required in large quantities, for example, miniature and subminiature tube sockets, relay spacers, television tuner components, etc.

● Dimensional reproducibility with close tolerances is inherent in Mycalex 410 insulators, and this material should be considered for all applications where such precision is necessary. Mycalex 410 may be used to supersede mineral-filled, alkyd, and similar organic insulations which have been used extensively in the past. Improved production techniques have put Mycalex 410 within the cost range of less desirable materials.

It is now possible to substitute Mycalex 410 directly for phenolics, alkyds, melamines, and similar less effective molded organic insulations.

INJECTION-MOLDED GRADES (CONTINUED)



There is a large field of applications where good electrical characteristics are desirable but where the loss factor need not be so low as to place the insulation in the Grade L-4 category. Certain economies and reduced weight result from these less stringent electrical requirements. Nearly all other characteristics of the low-loss materials are retained. Mycalex 410X glass-bonded mica is the only moldable insulation of this type.

Mycalex 410X permits increased latitude in formulation, and as a result of this factor the composition has been so adjusted as to produce a considerably lower density—about 30% lower than that of Mycalex 410. All mechanical properties, arc resistance, resistance to heat distortion, etc. are comparable in both cases.

Because of the above factors Mycalex 410X can be produced at a cost low enough to permit its direct substitution in place of general-purpose phenolics and other organics. A much superior insulation is thus obtainable at competitive prices. The loss factor of Mycalex 410X is only about one-fourth of that of general-purpose phenolics. Its greater arc resistance, high dielectric strength, negligible water absorption, and dimensional stability offer still further advantages to the purchaser of Mycalex 410X.

Power factor, 1 megacycle	0.012
Dielectric constant, 1 megacycle	6.9
Loss factor, 1 megacycle	0.083
Dielectric strength, volts/mil	400
Volume resistivity, ohm-cm	5×10^{14}
Arc resistance, seconds	250
Specific gravity	2.6
Density, lb./cu. in.	0.095
Impact strength, Izod, ft.-lb./in. of notch	0.6
Maximum safe operating temperature, °C	350
°F	650
Specific heat, cal/gm/°C	0.20
Thermal conductivity, btu/sq ft/hr/(°F/in.)	2.9
Thermal conductivity, cal/sq cm/sec/(°C/cm)	0.0010
Water absorption, % in 24 hours	Nil
Hardness, Brinell	150
Coefficient of linear expansion, °C	12×10^{-6}
Modulus of elasticity, psi	8×10^{6}
Flexural strength, psi	12,000
Compressive strength, psi	28,000
Tensile strength, psi	6,000



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● **GENERAL DESIGN** — Good plastic flow is desirable for best results. Rounded corners and gradually changing contours permit the material to fill the mold in the shortest possible time.

● **HIGH VOLTAGE** — A special report covering the design of Mycalex high voltage components is available upon request.

● **THICKNESS** — It is rarely practicable to mold insulators thinner than 1/16 inch. Short tubes of small diameter (about ¼ inch) have been molded with wall thickness of 0.030 inch; but the wall thickness must be increased when the length exceeds about ¾ inch. Walls should be as nearly uniform in thickness as possible.

● **TAPER** — Mycalex 410 and Mycalex 410X shrink at the same rate as the mold in cooling. It is necessary, therefore, to allow a rather generous taper on all vertical surfaces. Liberal radii on corners and edges are also essential. Normally, a wall taper of ½° is recommended (about 0.008 inch per inch) to permit easy ejection. For small parts, where the entire bottom of the mold cavity may serve as a knockout pin, and where the thickness of the part is not greater than 1/16 inch, as little as 0.002 inch per inch taper may be permissible.

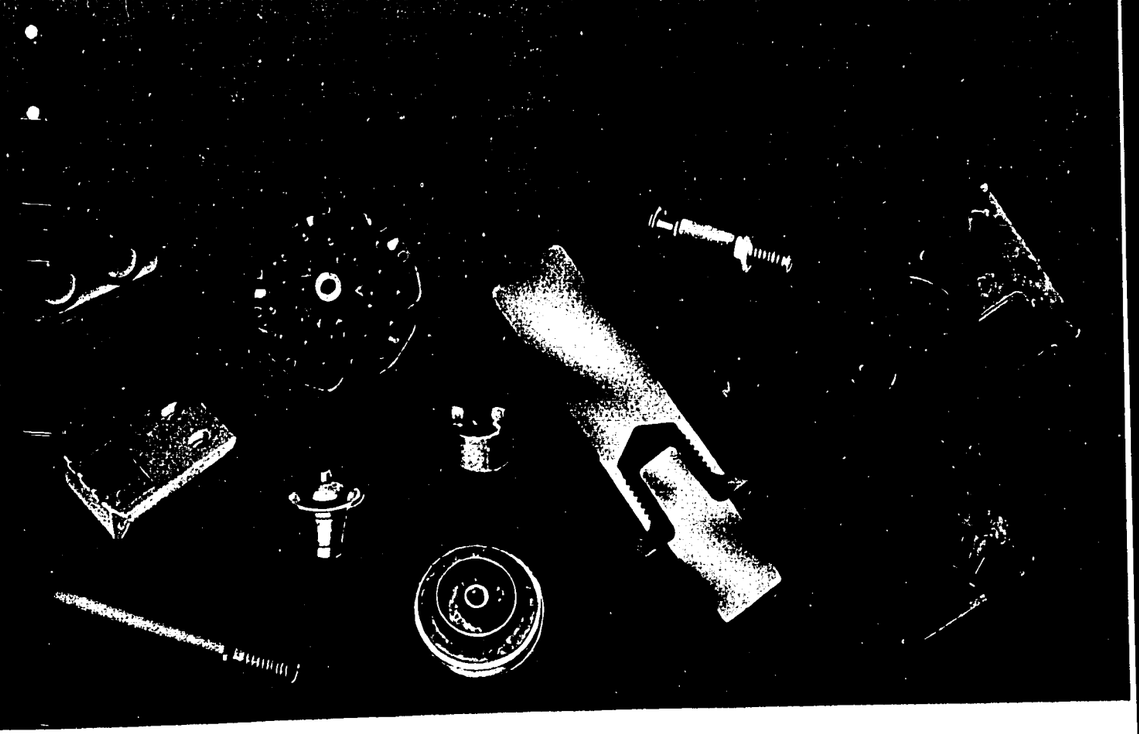
● **FLATNESS** — Flatness is generally about 0.003 inch per inch

rates, increase rejects, and consequently increase cost. Loose wedges, which are used in other plastic molding, are difficult to employ with Mycalex glass-bonded mica because of the high mold temperatures involved, but can be used when necessary.

● **HOLES** — The distance between holes should be a minimum of ⅛ inch, and the distance from the edge of a hole to the edge of the insulator should be a minimum of 1/16 inch. For large holes it is well to increase this latter dimension.
In general, the depth of a hole should be not greater than one and one-half its diameter. For small diameter holes, the pin breakage becomes excessive if the length is too great.

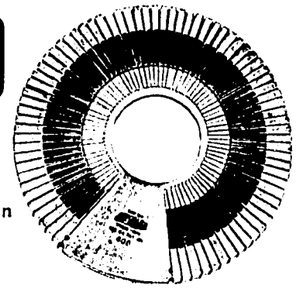
● **TOLERANCES** — Very close tolerances can be held if necessary, but the cost will, of course, go up in proportion. Normal tolerances are: ±0.002 inch on length or width up to 1 inch; 0.005 inch on length or width up to 2½ inches; 0.010 inch on length or width up to 5 inches; ±0.003 inch on hole centers up to 1 inch; ±0.005 inch on hole centers over 1 inch; ±0.5° of arc on hole centers for holes arranged in circle; ±0.003 inch on radius up to 1 inch for holes arranged in circle; ±0.005 inch on radius up to 3 inches for holes arranged in circle; ±0.005 inch on thicknesses (dimension perpendicular to parting line of mold).

● **INSERTS** — Metal inserts are normally anchored into Mycalex glass-bonded mica by grooving, thread-

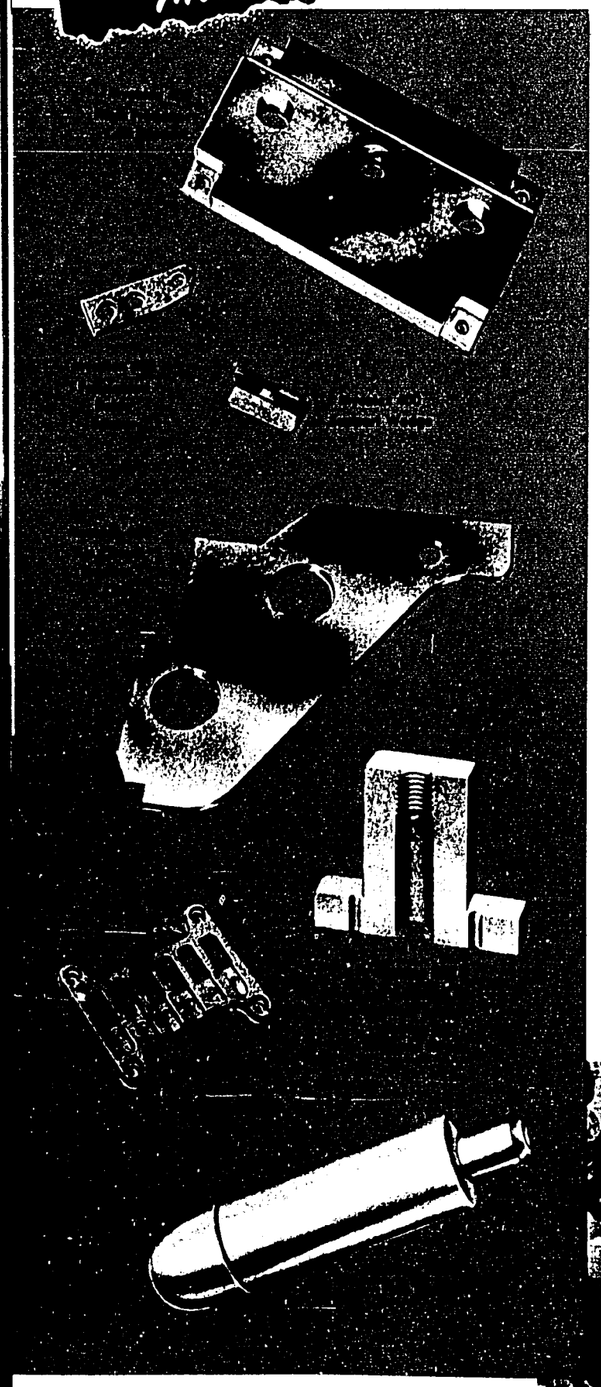


COMPRESSION-MOLDED GRADES

Mycalex 400



Mycalex 400 is an all-purpose glass-bonded mica insulation particularly suited for high-frequency use.



Even at 10^{10} cycles, the loss factor of Mycalex 400 is well within requirements for operation in this portion of the electromagnetic spectrum. An outstanding characteristic is the long frequency range over which the loss factor is a minimum.

With a background of steady development since 1919, Mycalex 400 in its present form was brought to fulfillment in May 1944. It is one of the most highly developed and efficient insulating materials on the market today.

● **HIGH VERSATILITY** — One of the advantages of Mycalex 400 glass-bonded mica is its unusually fine and uniform texture. This feature not only enhances strength and ability to withstand vibration, but improves machinability. As a result Mycalex 400 can be machined into a wide variety of complex shapes.

● **APPLICATIONS** — There is almost no limit to the exacting uses to which Mycalex 400 can be put. In tropical climates its excellent electrical and physical properties are unimpaired. Prominent among the many devices for which Mycalex 400 provides adequate insulation are radio transmitters, radio receivers, panels for radio applications, switchboard panels for coal mines, arc shields in high-tension switches, relay contact supports, brush holders, and X-ray equipment.

● **FORMS AVAILABLE** — Mycalex 400 glass-bonded mica is made in sheets 14 x 18 inches; ordinarily in thicknesses of 1/8 to 1 inch; on special order in thicknesses of 3/32 and 1/16 inch. Rods 18 inches long have diameters from 1/4 to 1 inch. (See page 13 for a table of the standard sizes of Mycalex 400 sheets and rods which are available from stock.)



Production lathes of tool room accuracy perform one step in fabricating Mycalex glass-bonded mica to the highest precision standards.

Data and Specifications

SINCE 1919 MYCALEX THE INSULATOR TRADE MARK REG. U.S. PAT. OFF.

Electrical Properties

Grade L-4A in accordance with JAN-I-10

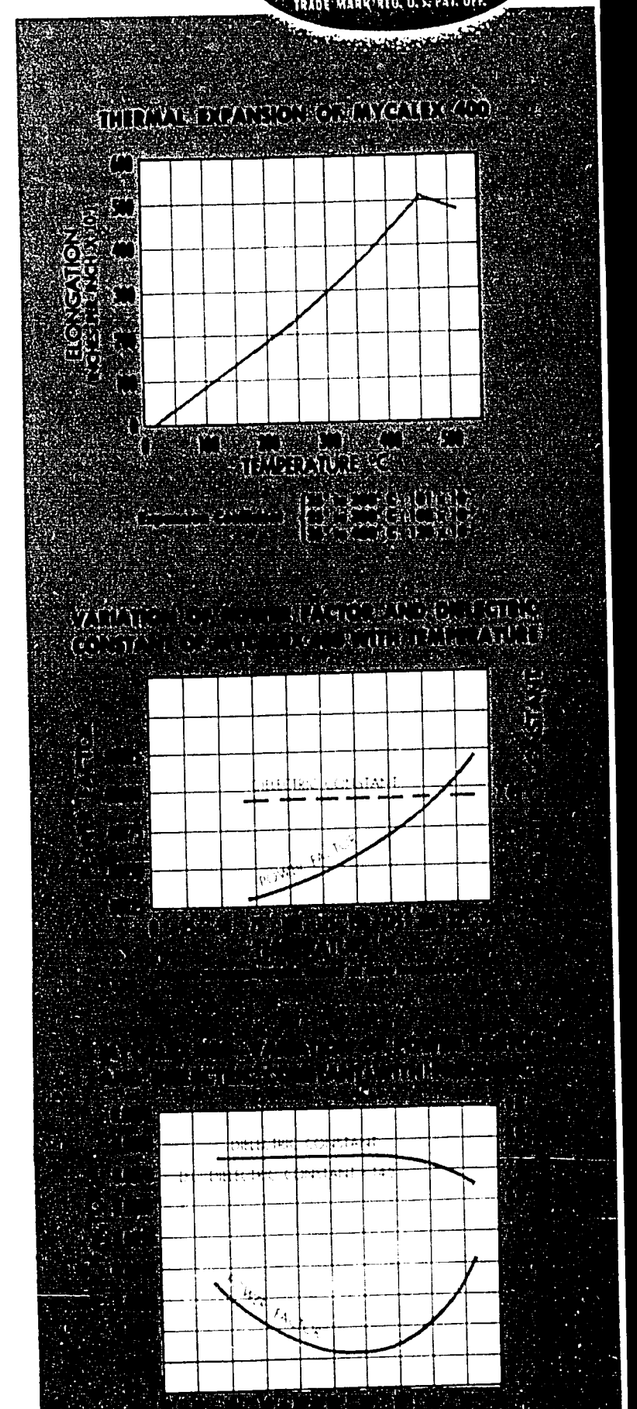
Power factor, 1 megacycle	0.0018
Dielectric constant, 1 megacycle	7.4
Loss factor, 1 megacycle	0.013
Dielectric strength, volts/mil	500
Volume resistivity, ohm-cm	2×10^{15}
Arc resistance, seconds	300

Mechanical Properties

Specific gravity	3.0
Density, lb./cu. in.	0.11
Impact strength, Izod, ft.-lb./in. of notch	1.85
Maximum safe operating temperature, °C	370
°F	700
Specific heat, cal/gm/°C	0.17
Thermal conductivity, btu/sq ft/hr/(°F/in.)	3.5
Thermal conductivity, cal/sq cm/sec/(°C/cm)	0.0012
Water absorption, % in 24 hours	Nil
Hardness, Brinell	70
Coefficient of linear expansion, °C	10.2×10^{-6}
Modulus of elasticity, psi	11×10^{6}
Flexural strength, psi	15,000
Compressive strength, psi	35,000
Tensile strength, psi	6,000

Sizes and Weights

SHEETS: 14 in. x 18 in.		RODS: 18 in. long	
THICKNESS, IN.	WEIGHT, LB.	DIAMETER, IN.	WEIGHT, LB.
1/8	3.4	1/4	0.096
3/16	5.1	3/8	0.21
1/4	6.9	1/2	0.38
3/8	10.3		
1/2	13.7	5/8	0.60
5/8	17.1	3/4	0.86
3/4	20.5	7/8	1.18
7/8	24.0		
1	27.4	1	1.54



COMPRESSION-MOLDED GRADES (CONTINUED)

● **MACHINING** — In machining Mycalex glass-bonded mica, ordinary machine shop equipment may be used; tungsten carbide tools are preferable when available; also a generous supply of water for a coolant and lubricant is important. It is usually advisable to work across the grain of the material, as this procedure does not call for so much care. The following methods are recommended for performing the various machining operations:

● **CUTTING** — Three methods are recommended. For thicknesses up to and including ⅜ inch use band saw with 12 teeth per inch and speed of about 1100 feet per minute. Rough edge may be finished on wet sanding belt. Another method is the use of resinoid-bonded silicon carbide wheel ⅛ inch thick, or rubber-bonded silicon carbide wheel 1/16 inch thick. 2700 to 3300 rpm. Water for coolant and lubricant applied in steady stream. For thicknesses from ½ to 1 inch use Rimlock diamond wheel (Felker Di-met), 8 to 10-inch diameter, heavy duty. 2000 to 2500 rpm. Steady stream of water for coolant and lubricant.

● **DRILLING** — There are two recommended methods. Use high-speed steel drills (to be touched up after every 3 or 4 holes). Double-plate drill jig most satisfactory. Copious supply of water. Drill part way through; turn piece over; drill from other side. Diameters up to ¼ inch: 1500 rpm; ¼ to ½ inch: 900 rpm; over ½ inch: decrease speed accordingly. The preferred method; however, is the use of drills of tungsten carbide, Carboloy 44-A or Firthite HA. Drill from both sides. Diameters up to ¼ inch: 2500 rpm; ¼ to ½ inch: 1500 rpm; over ½ inch: decrease speed accordingly.

● **THREADING** — There are two good methods. On lathe with tool-post grinder, use fine-grain silicon carbide or aluminum oxide wheel with V-edge. The second is the use of tungsten carbide tool, and chasing thread as with metals. May also be used for internal threading if hole is sufficiently large. Water as lubricant preferred.

● **TAPPING** — Use high-speed steel tap with long lead. Countersink both ends of hole before tapping. Use water as lubricant. Gives Class 1 fit with 60 to 70% of thread obtained on metals.

● **FLYCUTTING** — Use tungsten carbide tool at slow speed. Cut halfway through; reverse piece; cut from other side. Use at least ¼ inch diameter pilot hole. Copious supply of water as lubricant.

● **SLOTTING** — There are three methods of slotting. The use of metal-bonded diamond wheel of proper width on cutter or milling machine. Silicon carbide wheel may be used, but is less satisfactory. Water as lubricant. A second method is the use of milling cutter, preferably tungsten carbide tipped. Water preferred as lubricant. The third method is to use shaper with tungsten carbide tool bit. Take small cuts, about 0.005 inch. Water preferred as lubricant.

● **GRINDING** — For flat surfaces. On any surface grinder (Pratt & Whitney, Landis, Portman, Blanchard, Besley) use silicon carbide resinoid-bonded wheels at speeds recommended by manufacturer. Use soft coarse-grained wheel for heavy grinding; hard fine-grained wheel for polishing. Copious supply of water as lubricant. For round rods — Use centerless grinder. In grinding it is desirable to use 50 gallons of soluble oil per 5,000 gallons of water for longer grinding wheel life.

● **FINISHING EDGES OF ROUND DISCS** — There are three methods. Use resinoid-bonded silicon carbide wheel with tool-post grinder on lathe. Run at slow speed. Finish each disc separately or place several discs on mandrel. Continuous stream of water as lubricant. Another method is the use of tungsten carbide tool bit on lathe. Follow above method. A third, the use of wet sanding belt with suitable holder.

● **LATHE OPERATIONS**—Two methods are recommended. Use tool bits of Carboloy No. 883 or Firthite grade HA. Water preferred as lubricant. Use wheels of silicon carbide on tool-post grinder. Water is preferable as a lubricant.

● **CEMENTING "MYCALEX 400" AND "410"** — "Araldite* CN502 or CN503" ethoxyline resins may be used for bonding Mycalex to other plastics, ceramics, metals, etc. The resulting high strength bond will be heat resisting to about 300F. "Sauereisen"† adhesive cement will also produce a satisfactory high-temperature bond between Mycalex and metals, glass, plastics, etc. "Cycleweld"§ is also a satisfactory adhesive.

*Ciba Company, Inc., New York 14, N. Y.
†Sauereisen Cements Company, Pittsburgh 15, Pa.
§Cycleweld Division, Chrysler Corp., Detroit 31, Mich.

(Reprints of this page on Recommended Machining and Fabricating Methods, are available for shop use, without charge)

NOTICE: to former "G-E Mycalex" customers for fabricated parts and standard shapes of compression-molded glass-bonded mica

In October, 1949, the Mycalex Corporation of America purchased from General Electric Co. (which then discontinued the Fabricated "G-E Mycalex" Insulation Division at Taunton, Mass. that it had been operating since 1923) G-E's entire stock of standard sizes of sheets and rods made of compression-molded "G-E Mycalex". However, the General Electric Co. continues its custom-molding "G-E Mycalex" operations, having discontinued only the Fabricated "G-E Mycalex" Insulation Division.

Mycalex Corporation of America also underlook, in connection with such purchase, the supplying of compression-molded Mycalex glass-bonded mica both in standard shapes and fabricated to order, to G-E's former customers and to G-E directly, the General Electric Co. recognizing that the Mycalex Corporation of America, by virtue of experience dating back to 1919, its up-to-date facilities, special equipment, and "know-how", was best able to satisfy all such requirements.

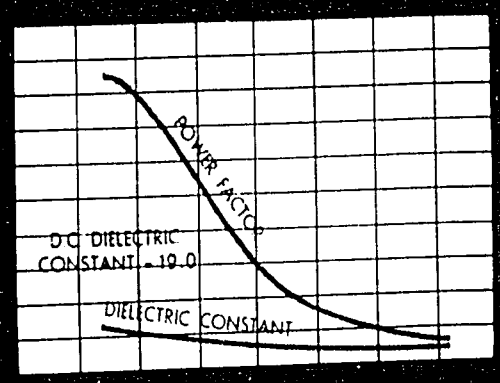
To expedite the filling of orders, all inquiries concerning such stock shapes and fabricated parts should be addressed to Mycalex Corporation of America, Clifton Blvd., Clifton, N.J.

MYCALEX CORPORATION OF AMERICA

Mycalex K Series—

General Capacitor Die

Characteristics of Mycalex K-10 Pr





A

General Offices and Plant: Clifton, New Jersey

MYCALEX

SINCE 1919
MYCALEX
THE INSULATOR
TRADE MARK REG. U. S. PAT. OFF.

lectric

perties of Mycalex K-10

vailable in Sheets, Rods

Design of Machined Insulators

1. PREFERRED SHAPES.—To provide maximum production, reduce fabrication time, and reduce costs, it is recommended that rectangular parts be used where possible and that irregular or curved sections be avoided.

2. TAPPED HOLES.—Although holes in glass-bonded mica insulation can be tapped, it is recommended that such holes be avoided if possible. If tapped holes are required, they should be slightly countersunk to prevent chipping.

2a. Bottoming of tapped or blind holes should be avoided.

2b. Threads in tapped holes should conform to Class 1 fit as outlined in Screw-Thread Standards for Federal Services, 1942 (NBS Handbook H28).

3. COUNTERBORING.—Although it is possible to counterbore glass-bonded mica, it is not always possible to secure sharp edges around the counterbore.

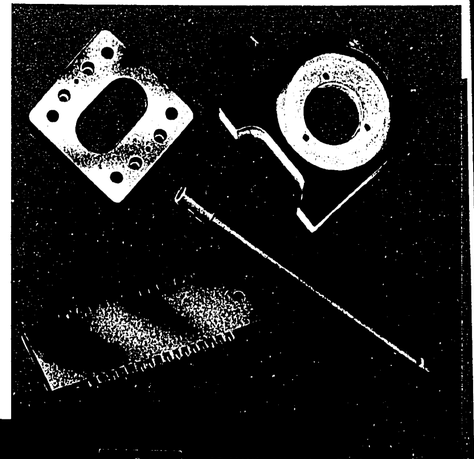
4. THICKNESS OF FLAT PARTS.—Flat plates or sheets from which most parts are fabricated are available in standard thicknesses of ⅛, 3/16, ¼, ⅜, ½, ⅝, ¾, ⅞, and 1 inch. In the design of flat parts, standard thicknesses should be specified wherever possible. It should be noted that the nominal minimum thickness of flat parts is ⅛ inch. Although thicknesses less than ⅛ inch can be produced, special grinding operations involving high cost and increase in production time are required. In any case, the thickness should be not less than 3/32 inch where the maximum dimension (length or width) of the part is 3 inches. For dimensions above 3 inches, the minimum thickness should be ⅛ inch.

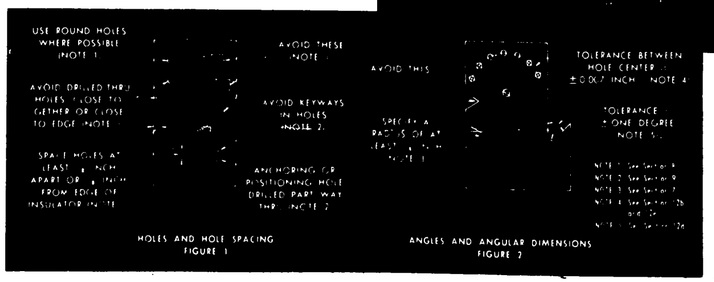
5. ROUND RODS.—Round rods are available in standard dimensions of ¼, ⅜, ½, ⅝, ¾, ⅞, and 1 inch. In the design of parts to be machined from rod stock, such as bushings, washers, or spacers, standard diameters should be specified wherever possible. (See 12g next page.)

6. CORNERS.—On flat plate designs, right-angle outside corners should be specified where possible to avoid additional time-consuming machining operations. Where it is essential that sharp outside corners be eliminated, a chamfer should be used in place of a definite radius, as the latter requires the use of special jigs. (See Fig. 3.)

7. ANGLES.—Where angles or "V" cuts are required in the edges of flat pieces, a radius of not less than ⅛ inch should be specified at the apex of the angle or "V" cut. (See Fig. 2.)

8. HOLES.—Round holes should be specified in preference to square, rectangular, or elongated holes as the latter involve costly, time-consuming machine operations. The distance between edges of holes and between an edge of the insulator and the edge of a hole should be not less than ⅛ inch. (See Fig. 1.)





HOLES AND HOLE SPACING
FIGURE 1

ANGLES AND ANGULAR DIMENSIONS
FIGURE 2

SINCE 1919
MYCALEX
THE INSULATOR
TRADE MARK REG. U. S. PAT. OFF.

9. KEYWAYS IN HOLES. — The machining of keyways, slots, or notches in holes is costly and time-consuming since milling, grinding, or filing operations are required. Alternative methods of anchoring metal parts should be considered by the designer. A small hole close to the main mounting hole may be used to receive an anchoring or positioning pin. Such small holes are usually drilled partially through the insulator. If a keyway is essential, a radius of 0.032 inch should be allowed on the inside corners. (See Fig. 1.)

10. BUSHINGS. — The wall thickness of bushings should be not less than as shown in Table III.

TABLE III

MAXIMUM BUSHING LENGTH (inch)	OUTSIDE DIAMETER (inch)	MINIMUM PERMISSIBLE WALL THICKNESS (inch)
1/4	Up to 3/8	1/16
1	Up to 1/2	1/8
1	1/2 to 3/4	3/16
1	3/4 to 1	1/4

11. SLOTTED BARS.—A radius of 0.032 inch should be allowed on the inside corners of slots cut in the edge of parts. (See Fig. 4.)

12. TOLERANCES.—In general and unless otherwise specified, the following tolerances should apply to all dimensions of insulators.

12a. Overall Dimensions (Length, Width, and Thickness.)—The tolerance for any overall dimension shall be in accordance with Table IV.

12b. HOLE SPACING.—A tolerance of ±0.007 inch shall apply to dimensions for distances between hole centers and distances from hole centers to reference edges or reference lines. Although it is possible to fabricate to closer tolerances, such tolerances involve special fabricating tools and technique and should therefore be avoided unless essential. (See Fig. 2.)

TABLE IV

LENGTH (inches)	TOLERANCES (±inch)		
	Length	Width	Thickness
Up to 16	1/64	1/64	1/64
16 or greater	1/64	0.020	1/64

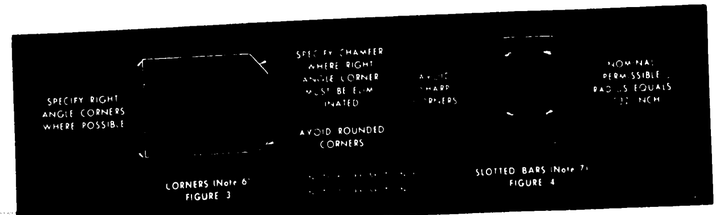
12c. HOLE SIZE.—Standard tolerances for all hole diameters shall be ±0.005 inch for all diameters up to 0.5 inch, then ±1 per cent of hole diameter for all diameters 0.5 inch and greater.

12d. ANGULAR DIMENSIONS.—Where angles or "V" cuts are required in the edges of flat pieces, the tolerance on such angular dimensions shall be ±1 degree. (See Fig. 2.)

12e. Where angular dimensions are specified for the layout of holes, the tolerance on dimensions between hole centers shall be ±0.007 inch. It is recommended that the chord distance between hole centers be indicated on drawings to assist in the layout of hole centers. (See Fig. 2.)

12f. FLATNESS.—Where flatness limits are not indicated on the drawing or specification, the limit shall be 0.0015 inch per inch of length for any dimension.

12g. DIAMETER OF RODS.—A tolerance of ±0.005 inch shall apply to the diameter of all round rods.





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High efficiency 500 ton hydraulic hot press used in making Mycalex 400 sheets and other compression molded forms.

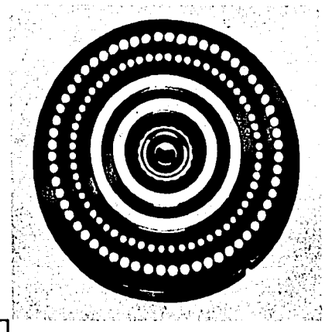


MYCALEX MODEL TM51 SERIES— This Mycalex Telemetering Switch was designed to meet the need for a precision-built motor-driven commutating switch of greatly reduced size capable of long-life, trouble free service. The heart of this switch is the commutator plate injection-molded of Mycalex 410 glass-bonded mica insulation. This material not only insures permanent dimensional stability but provides a very tenacious bond to the metal inserts.

There is no loosening of contacts after repeated soldering or under continuous temperatures of 650°F or short time exposures to 1500°F. Nor is there any resistance change. The commutator shows absolute age and dimensional stability with no distortion or change in 100% humidity. High acceleration loads and vibrational fields produce no ill effects.

MYCALEX 410 TELEMETERING COMMUTATOR is a mechanical production achievement. The following data offer convincing evidence that this commutator plate is a great accomplishment in precision fabrication. Its dimensional accuracy and functional efficiency are a combination that could probably not be duplicated in any material other than Mycalex 410.

The contact rings have 60 contacts per ring. Contact spacing is held to 6° ±1 minute and the center lines of the contact and annular rings are held to within ±.001". The assembly height from the face of the slip rings and contacts to the Mycalex 410 glass-bonded mica insulation is held to +.002", −.000". The contact ring and slip ring surfaces however are finished to a flatness of 5 microinches by lapping to attain precision, low noise level switching, and a very high degree of sampled channel uniformity.



"MYCALEX 410" CONTACT PLATE

ELECTRICAL DATA

- Adjacent contact insulation tested 100% for infinity on a 500-volt megger
- Inter-contact capacity (adjacent pins) 2.2 mmfd.
- Contact to ring capacity 0.3 mmfd.
- With properly designed rotor brushes, contact potential effects may always be balanced out
- Connections may be made by soldering leads directly to pins on reversed side of commutator
- Contacts are made from coin silver

Motor — Motors and gear reduction units are presently available for operation on 6, 12 or 24 volts dc or 400-cycle ac with rectifier supplied. The gear reduction units are tailor-made, using brass gears and stainless steel pinions. All bearings are precision-micro type. Gear centers are located with a jig borer for extreme accuracy. All fastenings are of stainless steel.
Units will be available with a variety of motor types, and capable of operation at speeds from 60 rpm to 1800 rpm.

Dimensions — Total weight—12 oz. (without rectifier). Rectifier weight—1⅛ oz. Mounting — May be clamped in position or held with screws tapped into aluminum housing. Motor is offset to provide maximum space factor. May be mounted in any position. Units which are to be operated under high accelerated fields should be mounted so motor axis is in line with the direction of acceleration.

Contacts — Silver contacts are carefully lapped to extreme smoothness and must be protected by careful handling during installation to insure maximum performance. Foreign particles — dust, solder flux, etc. — can easily damage these finely finished surfaces.

ANOTHER MYCALEX PRECISION COMMUTATOR



MYCALEX ELECTRONICS CORPORATION

Mycalex Tube Sockets

SINCE 1919 MYCALEX THE INSULATOR

TRADE MARK REG. U.S. PAT. OFF.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

MYCALEX 410 (color grey)		MYCALEX 410X (color light green)
600 V. ac	Rated working voltage	600 V. ac
.015	Insulation loss factor (at 1 mc)	.083
10,000 megohms	Insulation resistance (minimum)	10,000 megohms
80°C 350°C	Safe operating temperatures: Brass contacts Socket body	80°C 350°C



CHARACTERISTICS

- LOW LOSS FACTOR OF .015 AT 1 MC.
- ARC RESISTANCE, ASTM SECS. 250+
- OPERATING TEMPERATURE 135°C (LIMITATION DUE TO CONTACT METAL)
- INSULATION RESISTANCE (MIN.) 50,000 MEGOHMS
- Q-VALUE AT 40°C—50% RH— NOT LESS THAN 1000
- Q-VALUE AT 40°C—90% RH MIN.— NOT LESS THAN 333

The Mycalex 410 glass-bonded mica insulation used in these sockets offers outstanding advantage for use with T3 type sub-miniature tubes. It has proven an invaluable aid in meeting rigid government specifications covering the operating performance of many end products.

These sockets are also available with an alternate assembly having contact tabs flared out to approximately .360" diameter. This design provides excellent mounting for printed circuit applications (See page 23).

General Offices and Plant: Clifton, New Jersey

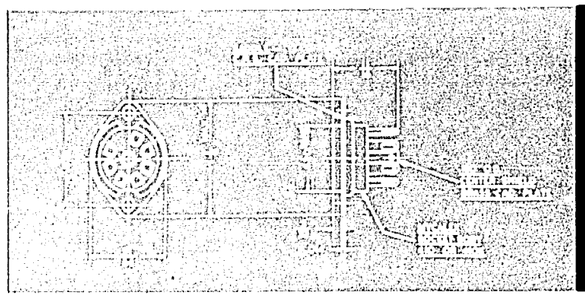
MYCALEX TUBE SOCKET CORPORATION

MYCALEX
TUBE SOCKETS
(CONTINUED)

7-Pin Miniature

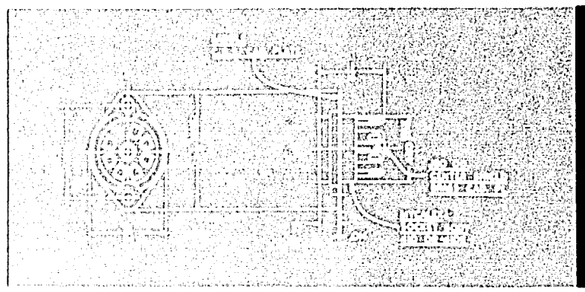
COMMERCIAL SERIES





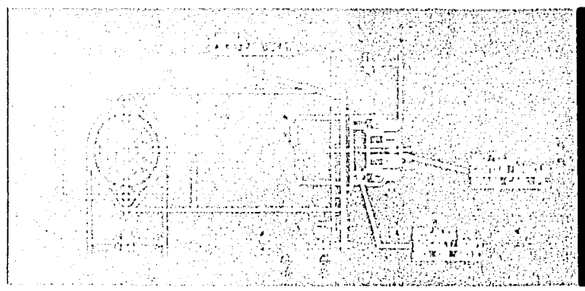
SADDLE TYPE — BOTTOM MOUNTING





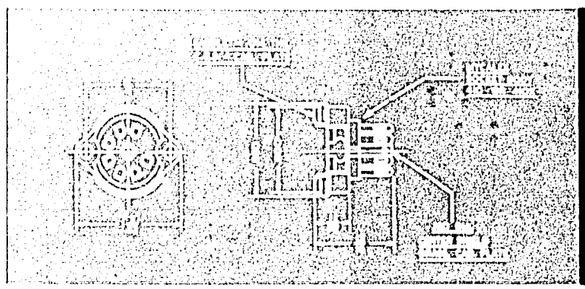
SADDLE TYPE — TOP MOUNTING



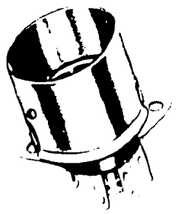


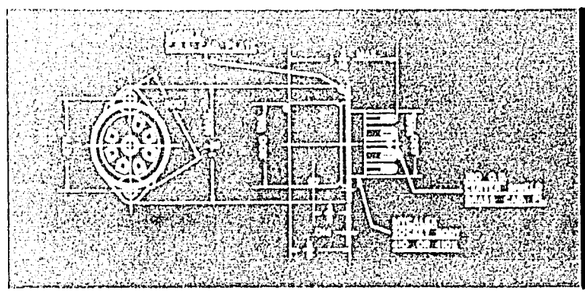
SADDLE TYPE — WITH FOUR GROUND LUGS — BOTTOM MOUNTING





SNAP SADDLE TYPE — TOP MOUNTING





SHIELD BASE TYPE — TOP MOUNTING

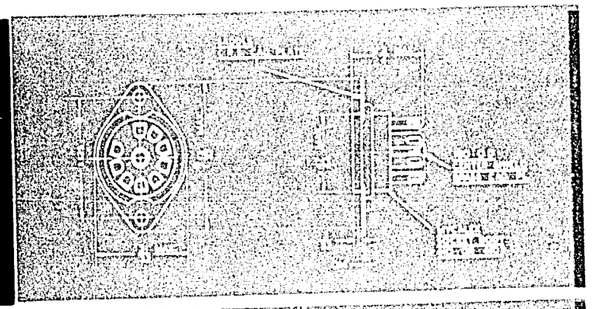
Under Exclusive License of Mycalex Corp. of America

9-Pin Miniature

COMMERCIAL SERIES

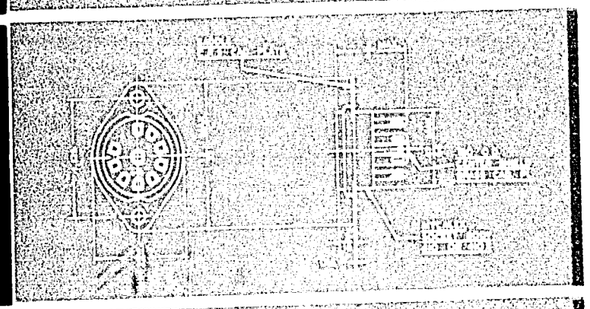
SINCE 1919
MYCALEX
THE TIN SULATOR





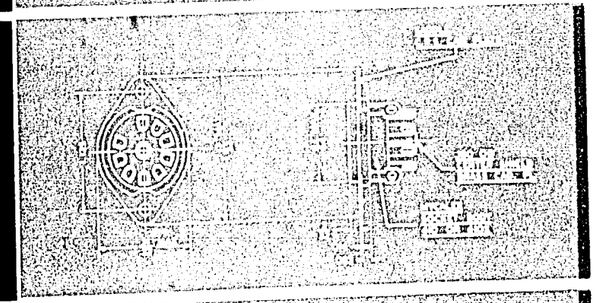
SADDLE TYPE — BOTTOM MOUNTING





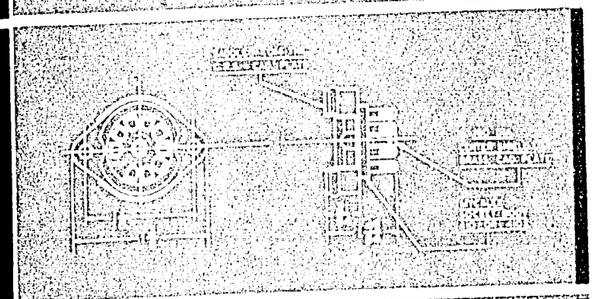
SADDLE TYPE — TOP MOUNTING





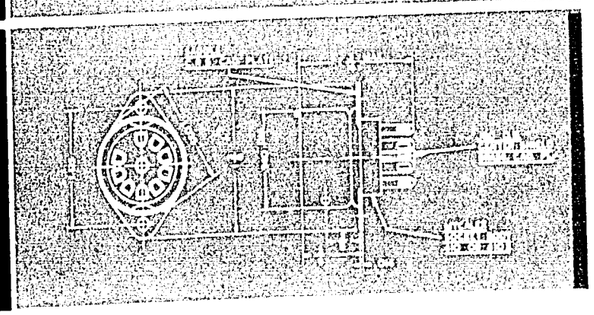
SADDLE TYPE — WITH FOUR GROUND LUGS — BOTTOM MOUNTING





SNAP SADDLE TYPE — TOP MOUNTING



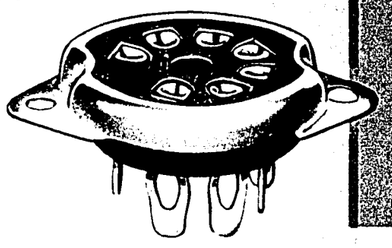


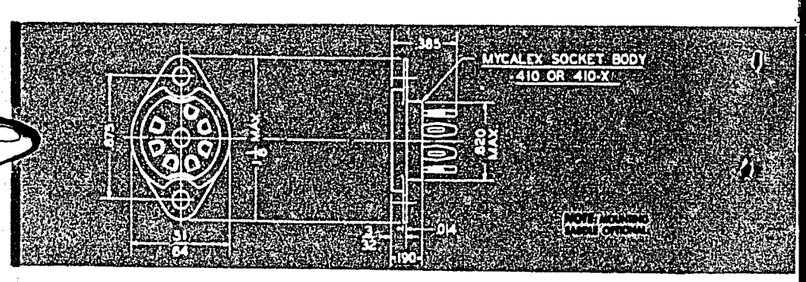
SHIELD BASE TYPE — TOP MOUNTING

General Offices and Plant: Clifton, New Jersey

MYCALEX
TUBE SOCKETS (CONTINUED)

UHF Sockets 7 and 9-PIN





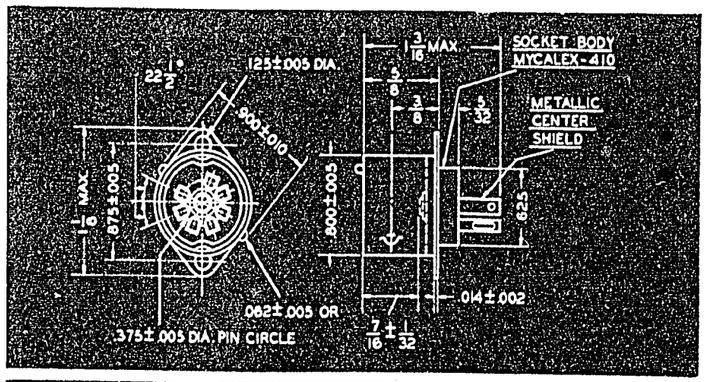
"MYCALEX 410"
7-PIN SADDLE TYPE
TOP MOUNTING

CONTACT TERMINALS The contact terminals are designed so that the inductive length is no greater than the tube pin. This is an important gain to the circuit designer. Direct ground connections to chassis by 90° bending of contact tab is possible without fracturing or weakening of the tab.

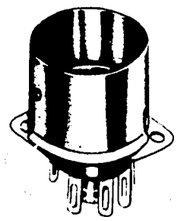
These sockets are molded of MYCALEX 410 injection molded glass-bonded mica and feature extremely low inter-electrode capacitance. Use of MYCALEX 410, with its great dimensional stability, permits a minimum amount of dielectric to be employed hence air is utilized as the insulator to a maximum degree.

In addition to many other desirable features — high arc resistance, high dielectric strength non-porosity, etc.—MYCALEX 410 has a very low dielectric loss at all frequencies including UHF and thereby offers great advantage over all phenolic dielectrics. MYCALEX 410 will operate continuously in temperatures up to 700°F with practically no change in electrical properties. Ability to withstand sustained high temperature definitely eliminates any possibility of body distortion or breakage during soldering operations.

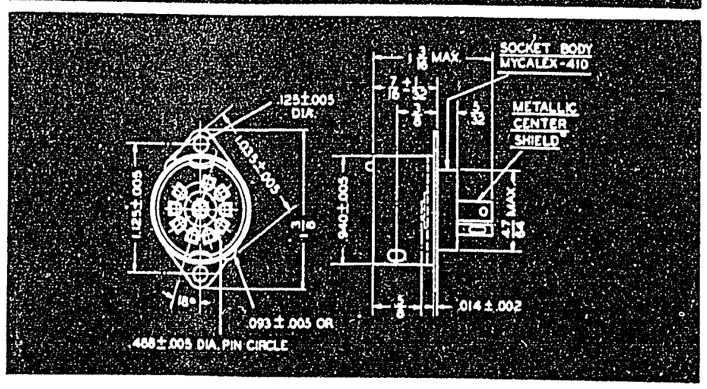
JAN Series Sockets



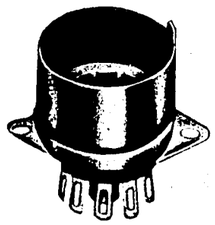
7-CONTACT MINIATURE



TYPE TS102C01



9-CONTACT MINIATURE



TYPE TS103C01

Under Exclusive License of Mycalex Corp. of America

Printed Circuit Sockets

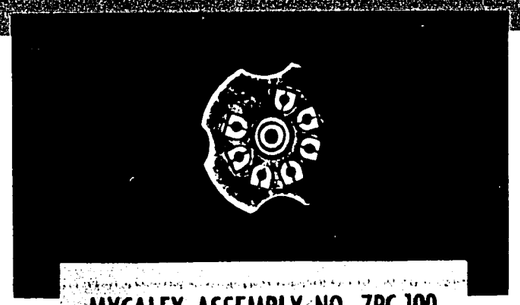
SINCE 1919 MYCALEX THE INSULATOR TRADE MARK REG. U.S. PAT. OFF.

7 AND 9-PIN

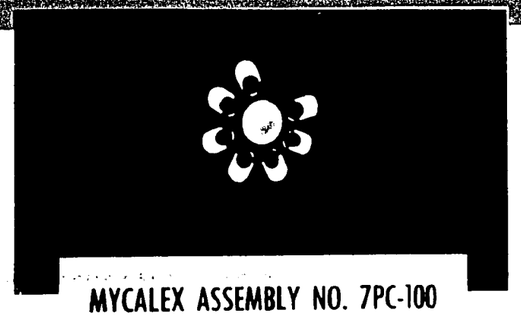
Thermal conductivities of MYCALEX 410 glass bonded mica will permit dip soldering without any dimensional change or distortion.

Ease of securing socket to chassis by eyelet or rivet offers large advantages for economical assembly in production.

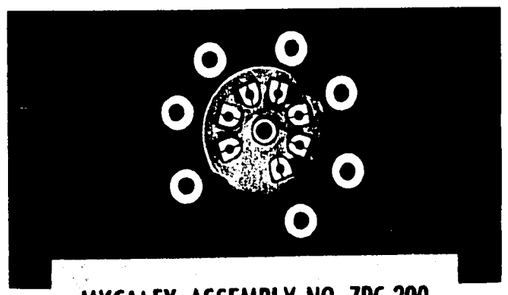
Contact design offers alternate use of either pins or eyelets for connection to printed circuit.



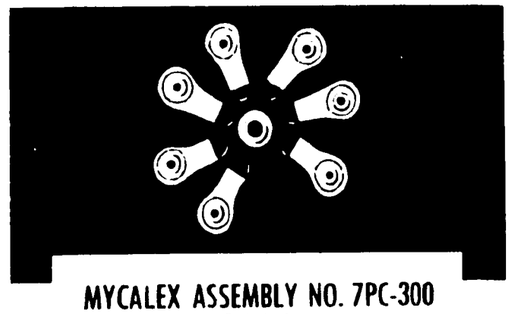
MYCALEX ASSEMBLY NO. 7PC-100
(FRONT VIEW)



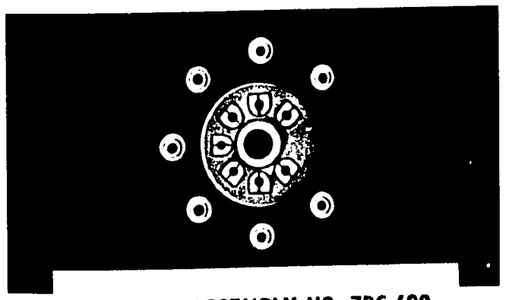
MYCALEX ASSEMBLY NO. 7PC-100
(REAR VIEW)



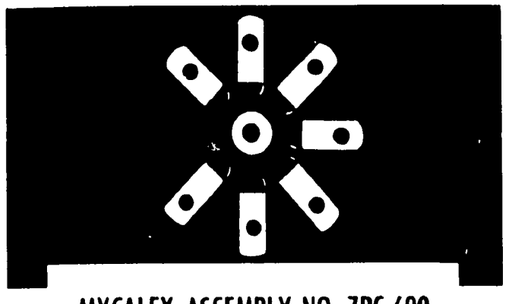
MYCALEX ASSEMBLY NO. 7PC-300
(FRONT VIEW)



MYCALEX ASSEMBLY NO. 7PC-300
(REAR VIEW)



MYCALEX ASSEMBLY NO. 7PC-600
(FRONT VIEW)



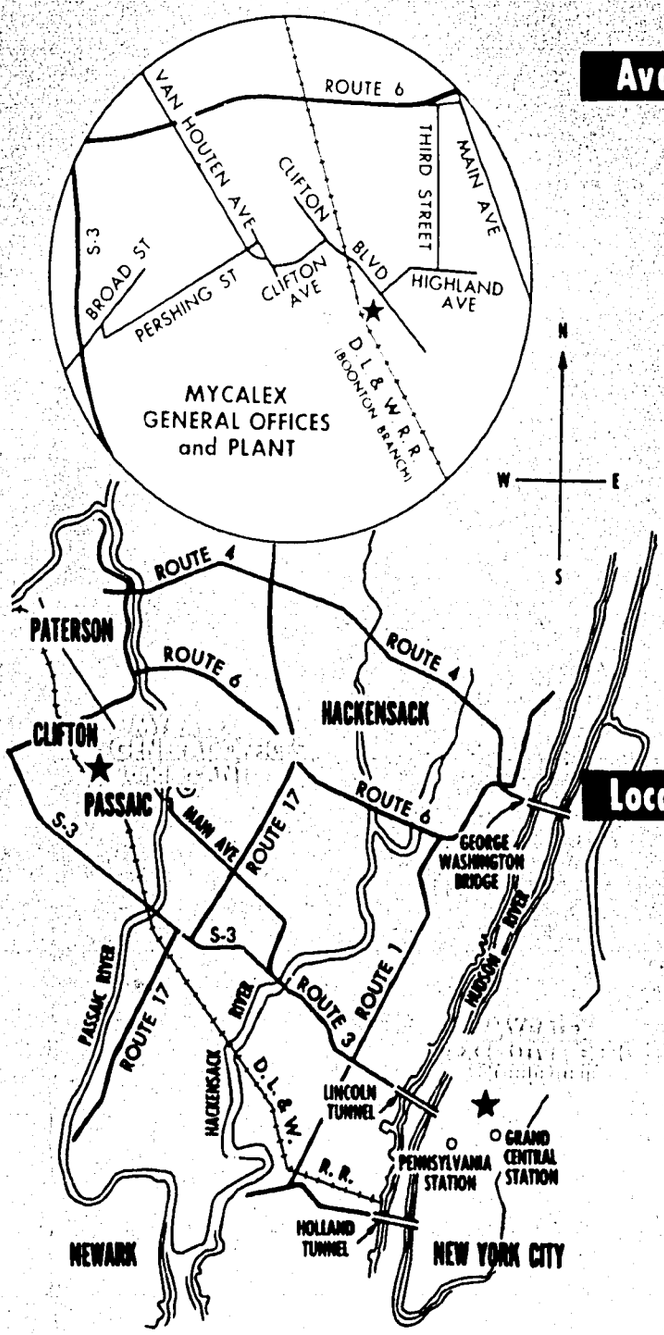
MYCALEX ASSEMBLY NO. 7PC-600
(REAR VIEW)

VIEWS SHOWN ARE ACTUAL SIZE

Produced by George Homer Martin Associates

MYCALEX TUBE SOCKET CORPORATION

The MYCALEX Advisory Service



Available without Obligation—

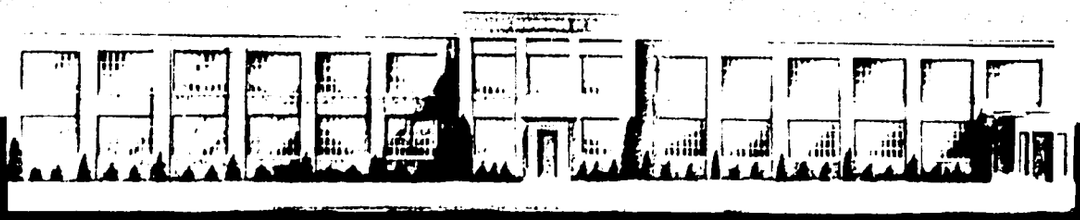
For manufacturers of electrical and electronic devices, Mycalex Corporation maintains an advisory service to aid in the solution of insulation problems. This Mycalex service is one of the most important functions of the Mycalex engineering staff. These engineers are trained in the techniques of advanced high frequency insulation and are constantly assisting manufacturers and product designers in the planning of new equipment and in the modernization of existing products to meet present demands for improvement.

The Mycalex advisory service is rendered without charge and no obligation is involved. Designers and plant engineers are invited to use it to the full. Inquiries should be addressed to the general offices in Clifton, New Jersey, where they will receive prompt, capable attention.

Located in the Heart of Industry—

Executive Offices—Occupying a suite in Rockefeller Center selected for its convenience to mid-town New York which is served by train, plane and bus in all directions.

Plant and General Offices—The modern, completely equipped Mycalex plant and general offices are easy to reach over express highways from the north, east, south and west. A 25 minute drive from New York through the Lincoln Tunnel or over the George Washington Bridge, via New Jersey Route S-3, places the motorist or trucker within 3 minutes drive of the plant. Ample parking facilities are at the disposal of visitors.



Litho in U.S.A.

SINCE 1919 MYCALEX THE INSULATOR TRADE MARK REG U S PAT OFF

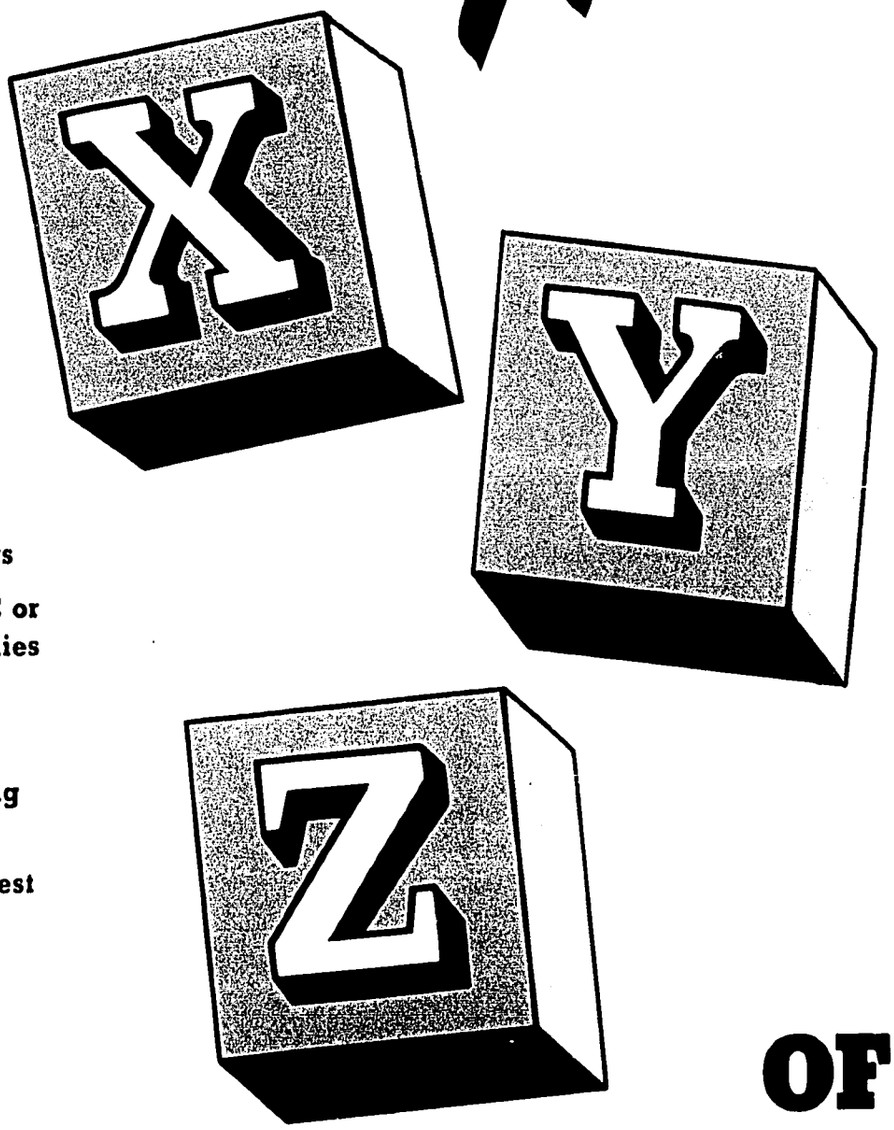
MYCALEX CORPORATION OF AMERICA

Owners of MYCALEX Patents and Trade-Marks

EXECUTIVE OFFICES: 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

Please address all inquiries to the GENERAL OFFICES and PLANT: CLIFTON BOULEVARD, CLIFTON, N. J.

the



- High frequency bombarders or induction heaters
- High voltage AC or DC power supplies
- Spot Welders
- High frequency dielectric heating units
- Test units and test racks
- Industrial applications

OF

ELECTRONICS

HIGH FREQUENCY HIGH VOLTAGE

OUR SPECIALTY

SCIENTIFIC ELECTRIC

105-119 MONROE STREET GARFIELD, NEW JERSEY

DESIGNERS AND MANUFACTURERS OF HIGH FREQUENCY AND HIGH VOLTAGE EQUIPMENT SINCE 1921

During this time we have built up the technical "know-how" and engineering experience which can prevent you from making costly errors in equipment selection and application.

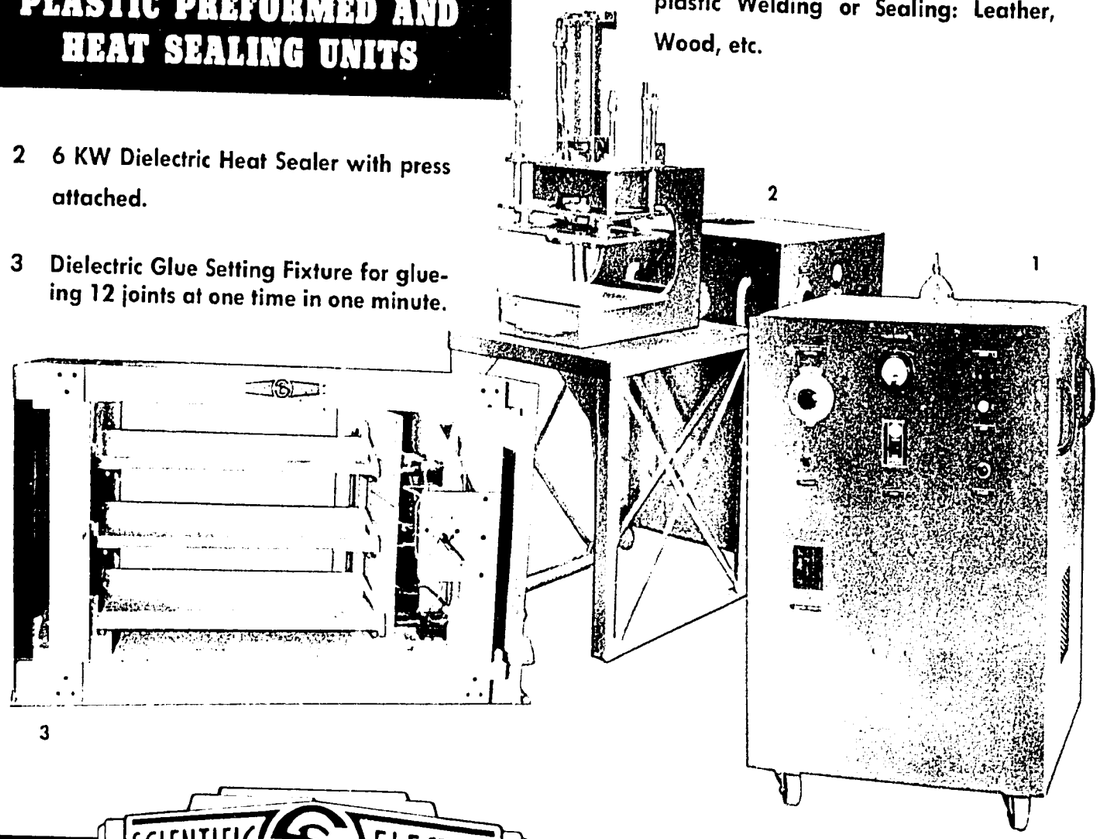
Our units are "standard" in the general usage of the term. They are the products of exhaustive research and field use—and are also made to your individual requirements. Let us solve your electronic equipment problems by giving you exactly the right machine to do a specific job. You'll find our engineers completely qualified to make sound recommendations which generally result in better, faster, quality-controlled production at lower unit cost. Your samples and requirements will bring immediate expert recommendations.

HIGH FREQUENCY DIELECTRIC PLASTIC PREFORMED AND HEAT SEALING UNITS

1 **6 KW Dielectric Heat Sealer for Thermoplastic Welding or Sealing: Leather, Wood, etc.**

2 **6 KW Dielectric Heat Sealer with press attached.**

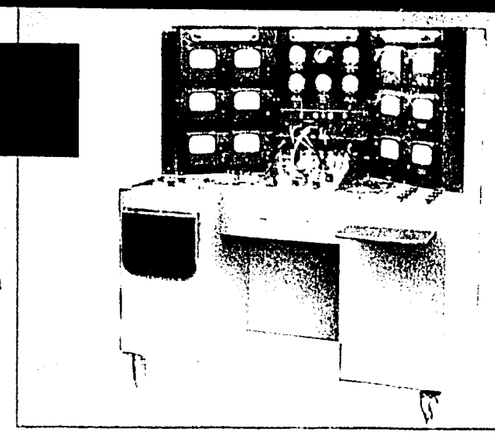
3 **Dielectric Glue Setting Fixture for glueing 12 joints at one time in one minute.**



1 2 3

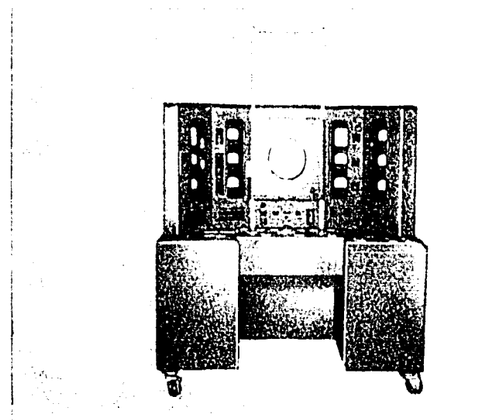
TEST UNITS

4 This set is designed to give maximum flexibility for development laboratory testing of small multi-element vacuum tubes. Three positive D.C. Power supplies of the series tube regulated type are available. These are continuously variable from 0 to 450 v. at 200 ma. Two negative glow tube regulated supplies are also available and controllable from 0 to 300 v. D.C. Filament supplies variable to 120 v. A.C. and D.C. are also incorporated. A separate regulated supply is available for emission tests. Static characteristics as well as mutual conductance, Mu, and Rp. can be read on a General Radio bridge. Conversion conductance from cut-off to zero bias can be made under standard J.A.N. conditions.



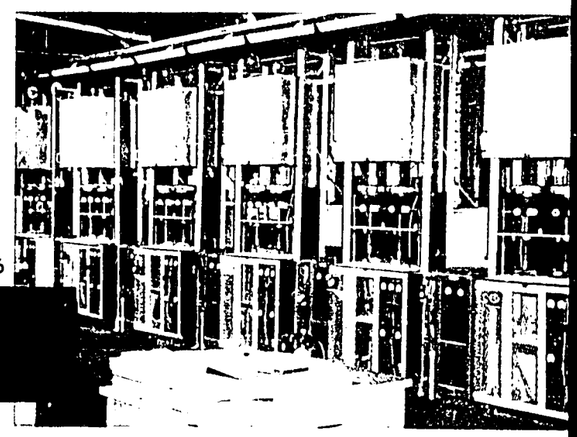
4

5 This Universal Cathode Ray tube test set is designed to accommodate all magnetically deflected, magnetically focused types through the 24" size. All power supplies are completely variable regulated and designed for 24 hour per day operation. Scanning is designed to accommodate 55 degree and 70 degree types up to 30 kv second anode. A wide band-pass video amplifier is contained to picture modulate the tube under test. A monoscope signal generator is recommended for supply of video to the set. All standard R.M.A. tests including gas can be made on this set.



5

SCIENTIFIC ELECTRIC BOMBARDERS



6

6 Scientific Electric Bombarders in production at one of the largest radio receiving tube manufacturing plants in the East. Approximately 250 Scientific Electric Bombarders are now in use at this plant.

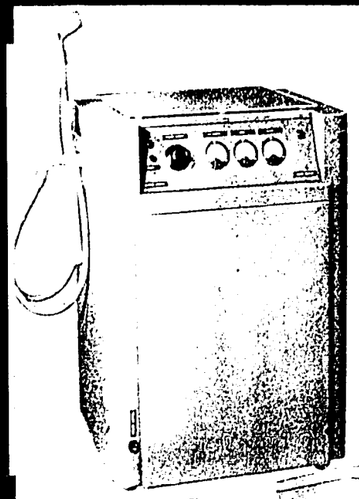
7 Eight 5 KW Bombarders connected to an inline exhaust unit for cathode ray tube production.



7

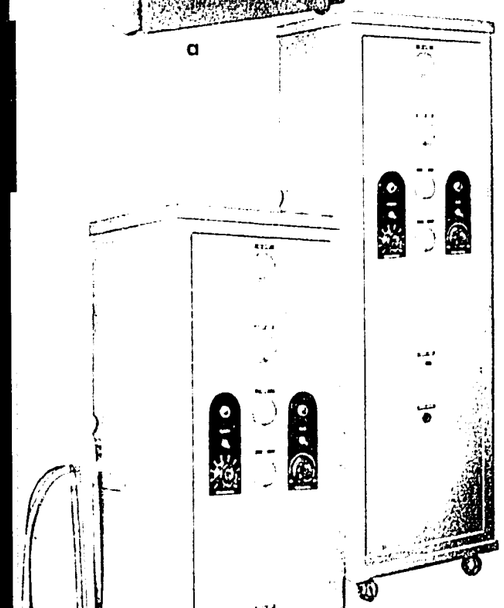
Bombarders

(Induction Heaters)



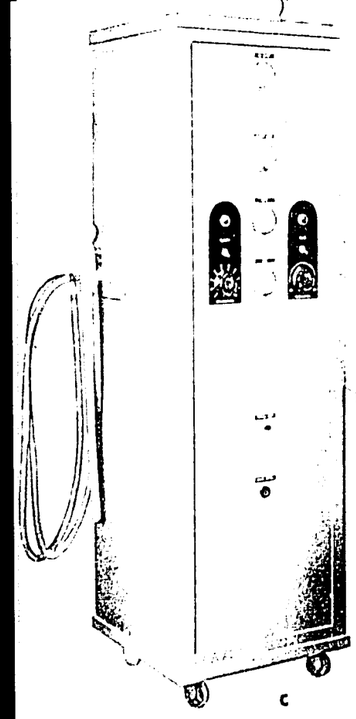
a

Although electronic heating is generally regarded as an entirely new technique and the number of manufacturers of equipment for the process is not very large, Scientific Electric enjoys the distinction of being a pioneer in the field. We are designers and manufacturers of electronic heaters of the Induction and Dielectric types; and one of the first to build any kind of equipment for this technique. For more than three decades, leading manufacturers of Electronic, Neon, X-ray, Fluorescent and Cathode Ray TV tubes, have used our custom built equipment for such operations as: Degassing, sealing glass to glass or glass to metal. And in the greater field of electronic heating Scientific Electric High Frequency Generators of all types are now performing a great variety of specific heat treating jobs—economically, faster, and with better results over all previous methods.

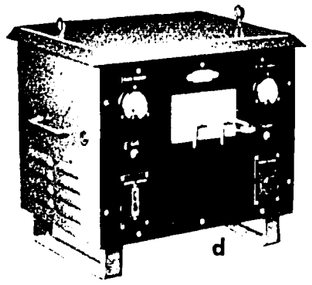


b

Of particular interest to the prospective buyer of electronic heating equipment is the fact that the maximum economies effected by the application of the technique to manufacturing processes, can only be realized by utilizing equipment of the correct frequency and power combination. It is significant that only Scientific Electric in the present market, can offer you a selection of frequencies depending on power required, in wide power range . . . 3½-5-6-7½-10-12½-15-18-25-40-60-80-100-125-250 KW. This means that electronic heating equipment produced by Scientific Electric is tailored to your needs . . . fitted perfectly to the task entrusted to it, enabling you to keep your initial investment in equipment to a minimum while affording you all the proven advantages of electronic heating.



c



d

a 6 KW Induction Heating Unit (Lowboy).

b 5 & 7½ KW Induction Heating Generator.

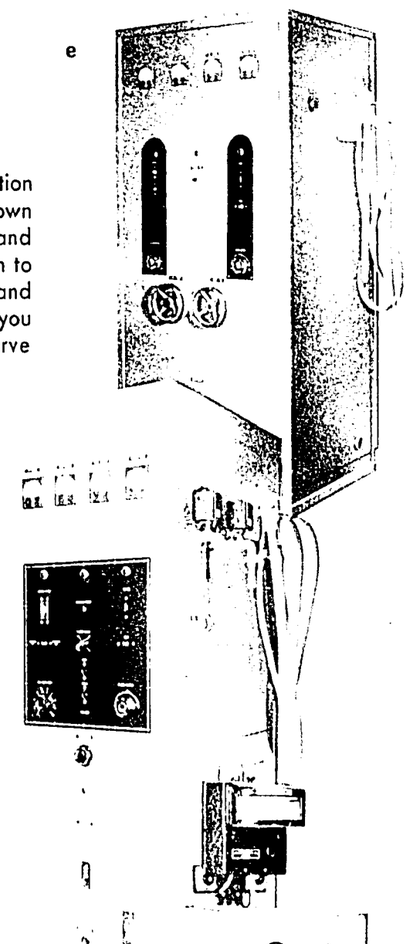
c 10 & 12½ KW Induction Heating Unit (Highboy).

d 2 KW Induction Heating Unit.

PROOF BY TRIAL...is the motto of Scientific Electric

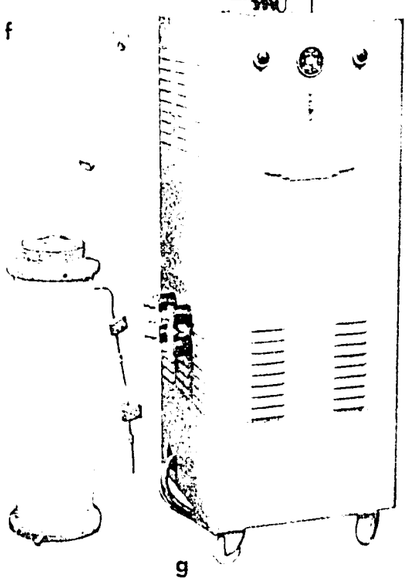
In our factory showroom we are ready to demonstrate the operation of any Scientific Electric Electronic Heater in its application to your own specific heating problem. Our laboratory engineers will gladly, and without obligation, make a study of the process to which you wish to apply electronic heating. They will then make recommendations and demonstrations on the equipment best suited for your needs. Before you invest in any electronic heating equipment, you will be able to observe at first hand how your heat treating jobs can be accomplished better . . . faster . . . and more economically with Scientific Electric equipment. You will be able to estimate the actual saving in cost of operation to a degree that will make it possible to approximate the time required to amortize the cost of equipment with the savings resulting from its use.

Submit your heat treating problems to Scientific Electric with the assurance that absolute secrecy will be observed, if so desired. Investigate the possibilities of applying Electronic Heating in your manufacturing processes now. Make a survey and consult with us at your earliest opportunity.

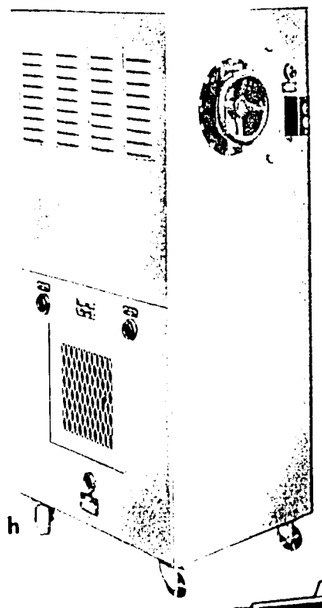


e

f



g



h

e 40 KW bombarder or induction heating unit 200-500 KC.

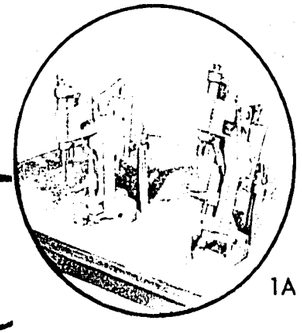
f 30 KW bombarder or induction heater custom built—200-500 KC.

g 50-60 cycles low frequency 20 KW induction heating unit. Units available from 5 to 200 KW power-factor 95%.

h High voltage neon tube bombarder 10 KVA 25 KV Stepless Control side view — Model PS-196 custom built.

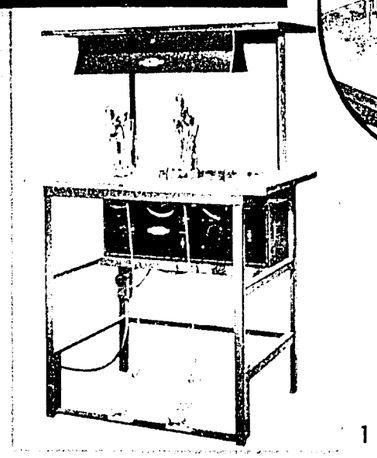
SCIENTIFIC ELECTRIC

SPOT WELDERS



1A

1A–**Model J Spot Welder** complete with 2 K.V.A. 110 Volt, 50 or 60 Cycle Power Supply, including Power Control, Foot Pedal and Electronic Timer.



1

1–**Model JT Spot Welder** complete with 2 K.V.A. 110 Volt, 50 or 60 Cycle Power Supply including Power Control, Foot Pedal and Electronic Timer. Unit mounted ready for operation with metal framework bench designed for side by side production or may be used individually. For convenience of operator a fluorescent lamp is mounted on each bench and serves as a work light and pilot for the electronic timer.

FEATURES:

1) Micrometer pressure adjustment ½ to 9 lbs. 2) 30 degree adjustable base. 3) Oilless bearings. 4) Adjustable master micro switch for timer. 5) Heavy duty aluminum frame. 6) Adjustable electrode holder. 7) Vertical motion eliminates rocker arm roll. 8) Sturdy chucks allow quick and simple electrode adjustment. 9) Narrow width suitable for side by side mounting (3½ inches). 10) Substantial work area due to compact size.

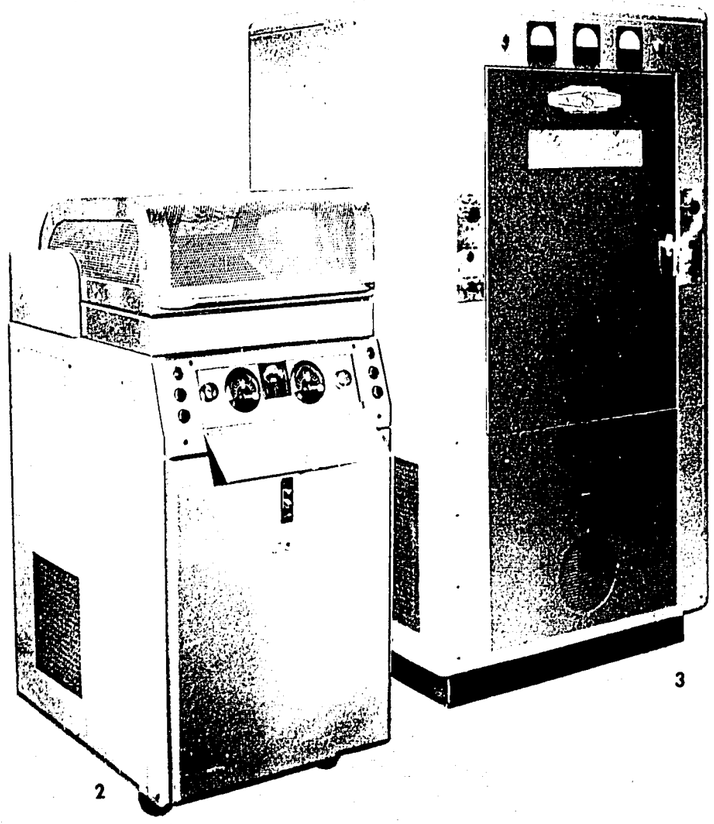
DIELECTRIC HEATERS

2 **10 KW Preform Dielectric Heating unit with two timers**

3 **30 KW Dielectric Custom Built High Frequency Heating Unit**

These units are custom built to meet your specific requirements. Their tremendous advantage in production speed and quality make them a necessity to many fields of manufacturing. No technical skill is required by the operator. Working conditions are cleaner.

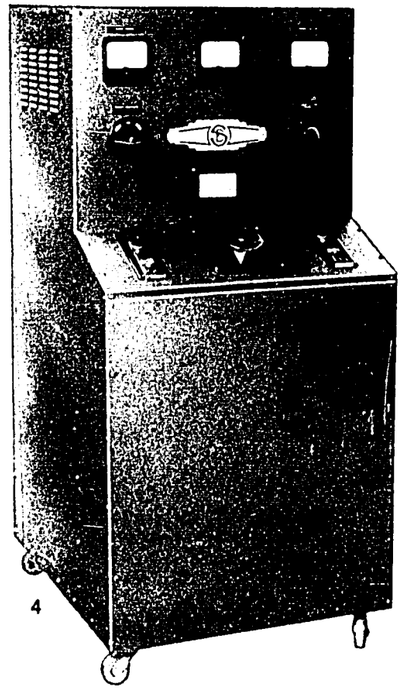
We will be glad to advise you on the particular type of unit needed to perform the job you need. Let us have your requirements.



2

3

INDUSTRIAL HIGH VOLTAGE POWER SUPPLIES



4

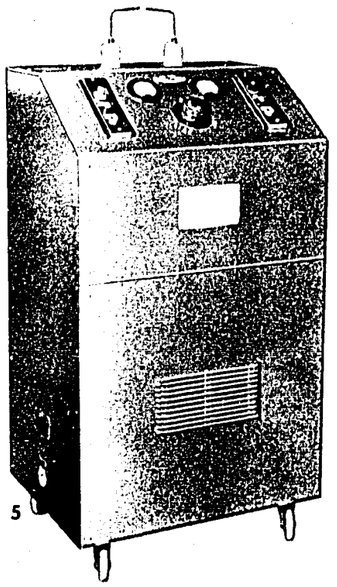
4 **High Voltage Rectifier, 0-40 KV Stepless, 100 MA input 3 phases 220 volts 50-60 cycles**

5 **High Voltage Power Supply Stepless 0-20 KV 35 MA, 1 phase 110 volts 50-60 cycles custom built**

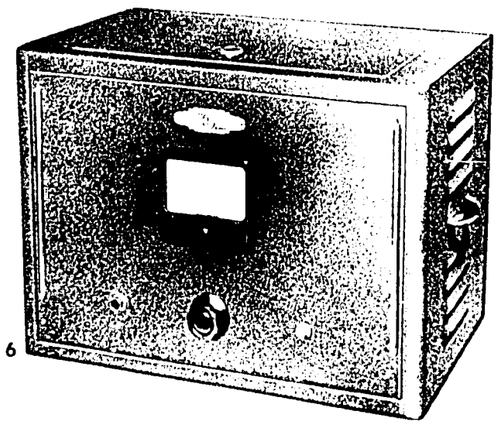
6 **40 KV at .25 MA High Voltage R.F. Power Supply**

High Voltage.... low current positive or negative ground up to 140 KV units, are used in laboratories and on production lines for electrostatic coatings, insulation cable and cathode ray tube testing, etc.

We will welcome the opportunity to give you complete information on this unit and any other one shown here and make recommendations on your specific requirements.

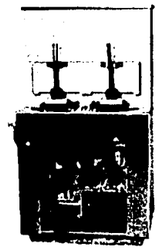


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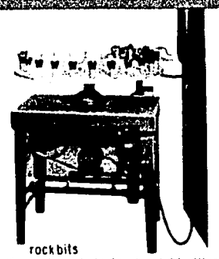


6

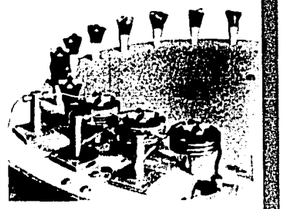
SCIENTIFIC ELECTRIC



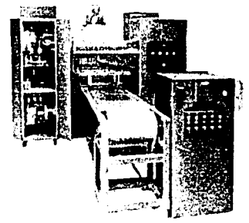
(1) Setup for induction soldering battery cable lugs.



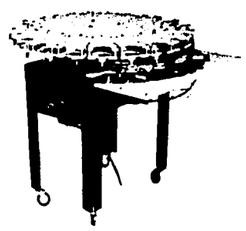
rock bits
(2) 24 head indexing turntable illustrating the coils loaded and ready for operation. The production is determined by the size of the part and the power employed.



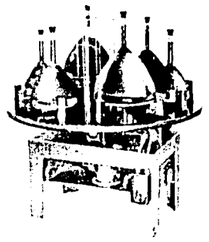
(2)(3) Close view of 24 head indexing turntable illustrating the coils loaded and ready for operation. The operator loads and unloads the rock bits into the wter quench when the parts are indexed out of the range of the heating coils.



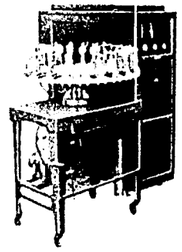
(4) Front view of Belt Conveyor using 3-6 KW dielectric heating units and control cabinet showing exposure of one 6 KW dielectric heating unit.



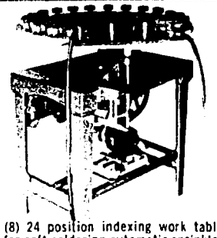
(5) Fully automatic fixture for induction soldering loudspeaker magnets to frames.



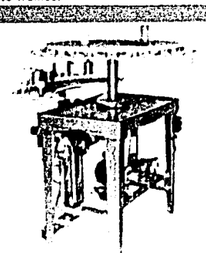
(6) Preheating turntable for cathode ray tubes unit used for pre-heating filaments before testing.



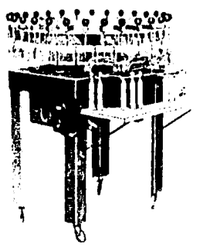
(7) 18 KW induction heater and automatic soldering turntables for cigarette lighters.



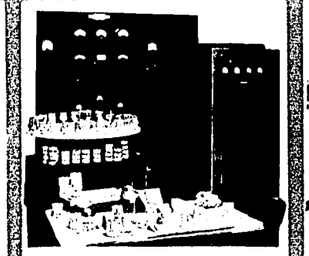
(8) 24 position indexing work table for soft soldering automatic sprinkler safety links. A special solder which will melt at 165° is used. Production of this table with a 10 KW high frequency induction heating unit is 4 every 6 seconds.



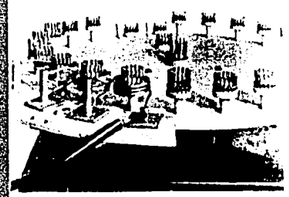
(9) Melting metal for production of precision castings with a 24 position indexing turntable used with 6 – 25 KW high frequency induction heating units.



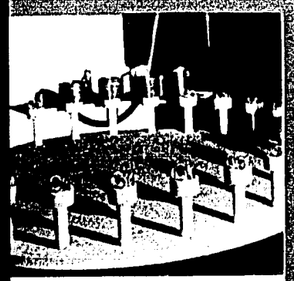
(10) Automatic soldering turntable for cigarette lighters.



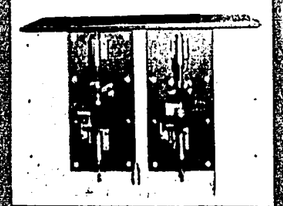
(11) Soldering cigarette lighters with a 25 KW In'uction Heater (with turntable).



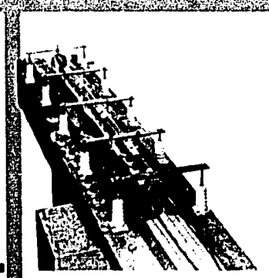
(12) Soldering radio trimmer condensers at a rate of 15 pieces per six seconds with a 25 head turntable. The brass condenser is attached to a specially treated glass tubing preloaded on a special fixture.



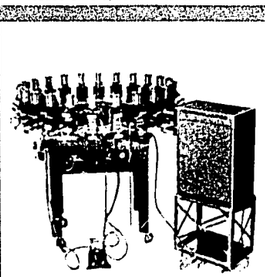
(13) 24 position indexing work table for silver soldering sterling silver rings on a 6 cycle for 5 rings.



(14) Sealing glass to metal for "Lighthouse" Tube manufacturing.



(15) Continuous conveyor silver soldering unit.



(16) 24 position plastic high frequency belt sealer.

APPLICATIONS Here are a few typical examples of Scientific Electric custom built electronic equipment on the production line. Each one is designed and built expressly to meet specific requirements. We welcome the opportunity to discuss your need for similar machines.

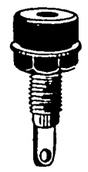
SCIENTIFIC ELECTRIC

[illegible] CARTERET, NEW JERSEY



It's Sound Planning to Count On SMITH Components

INSULATED PHONE TIP JACK



Accommodates all standard insulated and non-insulated phone tip plugs. Recommended for use with our Nos. 200 and 201 phone tip plugs. Available in Black, Red, Yellow, Green and Blue. Mounts in a 5/16" hole. Complete with insulating shoulder washer and nut. Specify color.

No.	Head Dia.
202	7/16"
223	½"

ALL INSULATED TIP JACK



Standard phone tip all insulated jack with phosphor bronze contact. Mounts in 3.8" hole in panels up to 5/16" thick; overall length 1" supplied with nut.

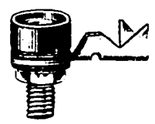
No. 240

INSULATED BANANA JACK



Accommodates all standard banana type plugs. Mounts in a 5/16" hole in panels up to 3/8" thick. Insulated head 7/16" dia. available in Black, Red, Yellow, Green and Blue. Complete with insulated shoulder washer, soldering lug, and nut. Specify color. No. 205

INSTRUMENT BANANA JACK



Made of brass, nickel plated. Jack receptacle countersunk to accept all standard Banana type plugs for a snug and positive contact. Insulated head ½" diameter, supplied complete with insulating washer, lock washer, heavy duty soldering lug and nut. Available in Black, Red, Yellow and Green. Specify color.

No. 219

INSULATED MIDGET BANANA JACK



Accommodates all standard banana type plugs. Mounts in a 3/8" hole in panels up to ¼" thick. Supplied with soldering lug; overall length 1⅜". The insulated head as well as the washer insulates the body of jack from the panel to prevent possibility of shock or grounding. Insulated head ⅜" dia. Available in Black and Red colors. Specify color. No. 221

INSULATED COMBINATION JACK



This combination jack accommodates all standard plugs, of the phone tip type or banana type construction. Mounts in a 3/16" hole in panels up to ½" thick. Overall length 1⅜". Complete with insulating shoulder washer and nut. Insulated head available in Black, Red, Yellow and Green. Specify color.

No. 206

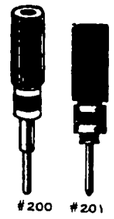
COMBINATION BINDING POST



Knurled insulated head binding post. Top of post accommodates standard banana plugs. Hole in side of stud accommodates any standard phone tips. Length 1¾" overall with head open, 1¼" with head closed. 6-32 x ½" long stud, supplied with 2 hex nuts. Black and Red. Specify color.

No. 220

INSULATED SOLDERLESS TIP PLUGS



#200 #201

Insulated sleeve ¾" long, cable opening .13", available in Black, Red, Yellow and Green. Fits all standard phone tip jacks. Wire fits through sleeve of plug, and is wrapped around screw portion, then tightened with the knurled nut provided, making soldering unnecessary. Specify color.

No.	Length
200	1⅛"
201	1⅝"

FIBRE HANDLE SOLDERLESS PLUGS

Fibre handles available in Black and Red colors.

No.	Length
230	1⅛"
231	1⅝"

INSULATED SOLDERLESS BANANA PLUGS



Spring type construction designed to fit all types of banana jacks. Plug portion made of Hexagon brass, designed to set into our No. 219 Banana Jack. Small machine screw stud screws into rear of plug so that wire can be wrapped around and tightened without soldering. All external set screws removed to prevent possibility of shock or grounding. Insulated handle 1" long, overall length 1⅛", cable opening ⅜". Available in Black, Red, Yellow and Green. Specify color. No. 212



Spring type construction with machine screw stud. Same as described above except that plug portion is not Hexagon but made of round brass, and handle is only ¾" long, overall length 1⅛", cable opening ⅜". Available in Black, Red, Yellow and Green. Specify color. No. 211

INSULATED BANANA PLUG
Spring Type



Fits all standard banana type jacks. Set screw provided in side of plug to secure wire to plug without soldering. Cable opening .13" Available in Red, Black, Yellow and Green. Specify color.

No.	Sleeve	Overall
204	⅞" Lg.	1½" Lg.
214	1½" Lg.	2¼" Lg.

INSULATED BANANA PLUG
Split Type



Fits all standard banana type jacks. Set screw provided in side of plug to secure wire to plug without soldering. Cable opening .13" Available in Red, Black, Yellow and Green. Specify color.

No.	Sleeve	Overall
213	⅞" Lg.	1½" Lg
243	1½" Lg.	2¼" Lg.

INSULATED BANANA PLUG



Insulated handle ½" O.D. x 1" long. Set screw provided in side of plug to secure wire to plug without soldering. Overall length 1⅝", cable opening .13". Available Black and Red. Specify color.

No.	Description
233	Split Type
234	Spring Type

WE MANUFACTURE A COMPLETE LINE OF ELECTRONIC COMPONENTS. ITEMS SHOWN ABOVE ARE ONLY A SAMPLING OF OUR PRODUCTION. **SEND TODAY FOR OUR COMPLETE 1952 CATALOG.** WE ALSO MANUFACTURE ELECTRONIC COMPONENTS TO YOUR SPECIAL REQUIREMENTS. INQUIRIES WELCOMED.

HERMAN H. SMITH, INC. • **436 18th STREET, BROOKLYN 15, N. Y.**

It's Sound Planning to Count On SMITH Components

SOLDERLESS PHONE TIP PLUG
Signal Corps Approved



Solderless steel, case hardened phone tip made in accordance with Signal Corps drawing and specifications. Supplied with insulated handle ⅞" long made in accordance with JAN specifications. Overall length 1⅞". Red and Black colors. Specify color. No. 259

MOLDED METER TIP PLUG



No. 235 Tip Plug

Molded Meter Type plug molded in two halves for easy assembling with screw and nut. Brass nickle plated tip fits in all standard tip jacks. Available in Red and Black. Specify color. Also available on attractive display card consisting of 24 envelopes, one each Red and Black Tip per envelope.

HEAVY DUTY PHONE TIP PLUGS



Heavy duty threaded phone tip plugs, 2³⁄₁₆" overall. Insulated handle 1" long, tip threaded ¼-32. Cable opening ³⁄₁₆", rear of plug will accommodate heavy wire.

No.
215 ..... Phone tip plug
125 ..... Tip Only

INSULATED SHORT PHONE TIP



Fits all standard phone tip jacks of the insulated or non-insulated types. Insulated sleeve ¾" long, overall length 1¼", cable opening ¼". Available in Black, Red, Yellow and Green. Specify color.

No. 203

INSULATED SPADE LUG



Insulated sleeve ¾" long, overall length 1⅝", cable opening ⅛". Available in Black and Red. Barrel of the insulated sleeve accommodates all standard type banana plugs.

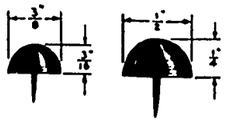
No.	Type
218	Insulated Lug
129	Lug only

BANANA PLUG AND TIP JACK COMBINATION



Insulated banana type plug of the spring type construction. Fits all standard banana type jacks. Rear of plug has standard phone tip jack inserted which assures positive contact and accommodates all standard phone tips so that a phone tip plug can be converted to a banana plug. Insulated handle 1³⁄₁₆" long, overall length 1⅞". Available in Black, Red, Yellow and Green colors. Specify color.
No. 214

RUBBER TACK BUMPERS



No. 2190 No. 2191

SEND TODAY FOR OUR COMPLETE 1952 CATALOG.

ALLIGATOR CLIP



Clips are made so that the jaws match accurately, permitting them to grip all sizes wire securely. The barrel of clip will accommodate all standard banana type plugs. Made of steel, cadmium plated. Overall length 2". No. 300

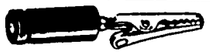
INSULATED ALLIGATOR CLIP



Embodies our No. 300 Alligator Clip. Insulated handle ¾" long and will accommodate all standard banana type plugs. Insulated handle available in Black and Red colors. Specify color.

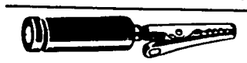
No.	Handle	Overall
301	¾"	2⅞"
306	1¼"	2¹⁵⁄₁₆"

ALLIGATOR CLIP PHONE TIP JACK



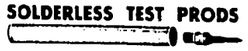
Insulated alligator clip with phone tip jack in rear of handle. The jack portion will accommodate all standard phone tip plugs. Handle 1" long, overall length 2⅝". Available in Black and Red colors. Specify color. No. 304

ALLIGATOR CLIP COMBINATION JACK



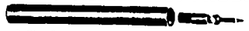
Insulated alligator clip with combination jack in rear of handle. Jack will accommodate standard phone tip plugs or banana plugs. Handle 1⅞" long, overall length 3". Available in Black and Red colors. Specify color. No. 305

SOLDERLESS TEST PRODS



Insulated handles, available in Black and Red colors. The wire is fed through the insulated handle, and is wrapped around the screw portion of the plug, and then tightened with the knurled nut provided, making soldering unnecessary. Specify color. Cable opening ⅛". No. 302 5¼" No. 303 6¾"

PHONO NEEDLE TEST PRODS



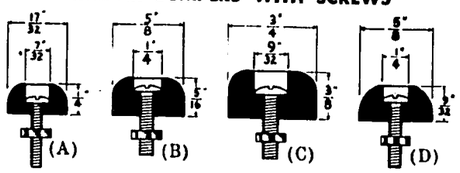
Insulated handles available in Black and Red colors. Wires can be assembled to the metal tip by unscrewing the tip from the prod handle. Removable chuck for replacing broken needles. Specify color. Cable opening ⅛". No. 317 5" No. 318 6⅜"

HEAVY DUTY TEST PROD



Heavy duty threaded brass nickel plated phone tips in Tenite plastic handle. Overall length 5⅛". Supplied in Red or Black. Specify color. No. 319

RUBBER BUMPERS WITH SCREWS



Rubber bumpers supplied complete with ½" screw and hex nut. Will accommodate panels up to ³⁄₁₆" thick. For larger panels specify larger screw.

With Screw & Nut No.	Illustration	Bumper Only No.
2196	(A)	2192
2197	(B)	2193
2198	(C)	2194
2199	(D)	2184

It's Sound Planning to Count On SMITH Components

BANANA TYPE PLUG



This plug is hexed brass, nickel plated. The spring is made of spring brass assuring positive and lasting contact. Plug is constructed with a 6-32 female thread inside and is supplied with a 6-32 screw and soldering lug. No. 100

BANANA PLUG SPLIT TYPE



Made of hexed brass, heavily nickel plated overall. Will fit all standard banana type jacks. Overall length 1¼". Threaded portion 6-32 x ½" long. Supplied with two 6-32 hexagon nuts.

No. 104

BANANA TYPE PLUG
Spring type



Plug and spring are made of brass, nickel plated. The spring type of construction assures positive and lasting contact. Plug is threaded 6-32 and the threaded portion is ½" long. Supplied with two 6-32 hexagon nuts. No. 103

BANANA PLUG JACK



Recommended as the mate for the No. 100 Banana type plug, but will accommodate all standard banana type plugs. Jack is made of brass, heavily nickel plated overall. Mounts in a ¼" hole and will fit in panels up to ⅞" thick. Jack is furnished with ¼-32 nut and soldering lug. No. 101

BANANA PLUG JACK



Will accommodate all standard banana type plugs and specially recommended as the mate for Nos. 103 and 104 banana plugs. Made of brass, nickel plated, and mounts in ¼" hole in panels up to ⅜" thick. Supplied with nut and soldering lug. No. 109

MIDGET PLUGS AND JACKS
Banana Type



Midget banana type plugs and jacks, for use where a minimum amount of space is available. Both plugs and jacks made of brass, nickel plated. A hexagon nut is provided with each plug and jack.

No.	Item
111	Plug
112	Jack

BANANA TYPE PLUG
Spring Type



Hex Brass, nickel plated banana plug 1¼" long overall. Threaded portion 6-32 x ⅜" long. Fits all standard banana jacks. Supplied with hex nut.

No. 102

BANANA TYPE PLUG
Spring Type



Hex brass, nickel plated banana plug 1¼" long overall. Thread portion ¼-32 x ⅜" long. Supplied with machine screw stud in rear for solderless connection and one hex nut. Fits all standard banana jacks.

No. 145

MIDGET BANANA PLUG
Rivet Type



Four leaf phosphor bronze spring with brass stud. Entire plug silver plated. ¹³⁄₁₆" long overall, plug portion ⁹⁄₁₆". Plug fits all standard banana jacks. Stud can be supplied according to rigid specifications.

No. 121

SOLDERLESS PHONE TIPS



These tips are constructed so that the wire fits through the body of the tip, and is wrapped around the screw portion, and tightened with the knurled nut provided, making soldering unnecessary.

No.	Length
105	1⅝"
106	1⅛"

PHONE TIP JACK



Will accommodate all standard phone tip plugs of insulated and non-insulated types. Made of brass, nickel plated. Mounts in a ¼" dia. hole in panels up to ⅜" thick, and is supplied with hexagon nut. No. 107

SOLDER TYPE PHONE TIPS No. 108



Made of brass, nickel plated. Overall length 1".

Dia. of tip will fit all standard phone tip jacks.

LARGE DIAMETER PHONE TIP

Material of Brass and Nickel-plated finish. The barrel is drilled extra large to accommodate heavy wire. Diameter hole ⅛"—length of barrel ½" and overall length 1". No. 123

HEAVY DUTY PHONE TIP



Brass Nickel plated tip, 1¹⁵⁄₁₆" long overall. Barrel O.D. ¼", tip O.D. ⅛", tip length ¾". Barrel I.D. ³⁄₃₂". Ideally suited for testing heavy voltage.

No. 155

PHONO ADAPTER ATTACHMENT PLUG



R.C.A. type phono plug. For use with record players, recording and reproducing equipment, etc. Extra long pin for new type jacks and large hole in cap for coaxial cable. No. 1201

PHONO JACK



Female for No. 1201 plug. Single prong positive grip jack mounted on ⅛" bakelite with ⅛" mounting centers.

No.
1203

DUAL PHONO JACK



Two positive grip jacks mounted on ⅛" bakelite. Double mounting holes spaced ½" x 1⅞". Jacks are ¾" center to center. Used on recording units and phono players, etc., where dual application is necessary. No. 1214

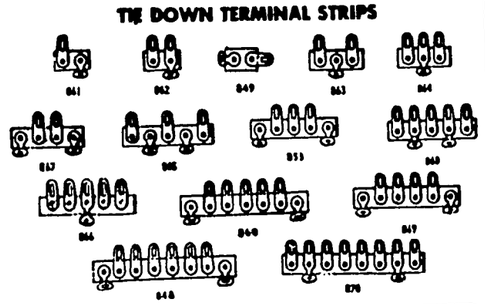
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It's Sound Planning to Count On

SMITH Components

TIE DOWN TERMINAL STRIPS



TERMINAL BOARDS Screw Type

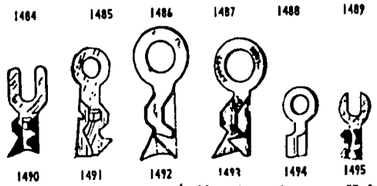


Brass hot tinned lugs mounted on ⅛" bakelite. Lugs are spaced 7/16" center to center.

No.	Terminals	Mounting Center
872	2	1⅛"
873	3	1¾"
874	4	2⅜"
875	5	2⅞"
876	6	3⅛"
877	7	3½"

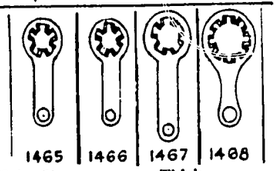
SOLDER TYPE LUGS Brass Hot Tinned





No.	Length	Hole	No.	Length	Hole
1484	5/8"	No. 6	1490	1"	No. 10
1485	5/8"	No. 6	1491	1⅛"	No. 10
1486	7/8"	No. 6 & No. 8	1492	1-1/8"	¼"
1487	5/8"	No. 6	1493	1"	¼"
1488	¾"	No. 6	1494	5/8"	No. 6 & No. 8
1489	7/8"	No. 8	1495	5/8"	No. 8

LOCKING TYPE TERMINAL LUGS



Brass Electro Plated

No.	Hole Size	Thick
1465	No. 4	.020
1466	No. 6	.020
1467	No. 8	.020
1468	¼"	.020

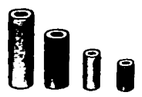
BRASS AND INSULATED COUPLINGS

Overall length ¾", O.D. ½". Set screws are provided in coupling for tightening to shaft.



No.	Type	Material
120	¼"-¼"	Brass
140	¼"-¼"	Insulated
131	3/8"-¼"	Brass
141	3/8"-¼"	Insulated
133	3/8"-3/8"	Brass
142	3/8"-3/8"	Insulated

BRASS BUSHINGS



These brass bushings are ideal for use in raising sub panels, chassis, condensers, transformers, etc. Hole in bushing to accommodate a No. 6 or No. 8 screw.

¼" O.D. For No. 6 No.	¼" O.D. For No. 8 No.	Length	⅛" O.D. For No. 6 No.	⅛" O.D. For No. 8 No.
2100	2105	¼"	2110	2115
2101	2106	3/8"	2111	2116
2102	2107	½"	2112	2117
2103	2108	¾"	2113	2118
2104	2109	1"	2111	2119

INSULATED BUSHINGS

For No. 6 No.	For No. 8 No.	¼" O.D. Length
2130	2140	¼"
2131	2141	3/8"
2132	2142	½"
2133	2143	¾"
2134	2144	1"

THREADED BRASS BUSHINGS

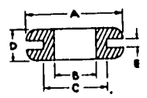
Threaded 6-32 No.	Threaded 8-32 No.
2120	2125
2121	2126
2122	2127
2123	2128
2124	2129

BEARING FOR PANEL ASSEMBLY



Made of brass, nickle plated and fits in 3/8" diameter hole in panels up to ⅛" thick. Bearing is made to accommodate ¼" shafts. Overall length ½". No. 119

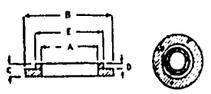
RUBBER GROMMETS



A: O.D.
B: I.D.
C: PANEL
D: THICK
E: P. THICK.

No.	A	B	C	D	E
2185	1/16"	1/8"	1/16"	1/16"	1/16"
2172	1/16"	1/8"	1/16"	1/16"	1/16"
2170	5/16"	¼"	3/16"	3/16"	1/16"
2174	5/16"	1/8"	1/16"	¼"	1/16"
2175	1/4"	1/8"	½"	¼"	1/16"
2177	¾"	1/16"	1/16"	¼"	1/16"
2186	1 1/16"	½"	¾"	5/16"	1/16"
2187	1 1/16"	5/16"	7/16"	5/16"	1/16"
2188	1 1/16"	1/16"	1/2"	1/16"	1/16"
2189	1"	¾"	7/8"	5/32"	1/32"

FIBRE SHOULDER WASHERS



A. Inside Diameter
B. Outside Diameter
C. Thickness Overall
D. Height of Shoulder
E. Diameter of Shoulder

No.	A	B	C	D	E
2150	.140	.375	.093	.031	.237
2151	.110	.250	.062	.031	.187
2152	.136	.250	.093	.031	.187
2153	.136	.312	.093	.031	.187
2154	.250	.500	.068	.028	.312
2155	.172	.375	.093	.031	.246
2156	.196	.375	.093	.031	.308
2157	.375	.750	.093	.031	.500
2158	.385	.625	.093	.031	.500

FLAT FIBRE WASHERS

No.	I.D.	O.D.	Thickness	No.	I.D.	O.D.	Thickness
2160	.136	.250	1/16	2165	.250	.500	1/16
2161	.110	.250	1/32	2166	.250	.500	3/32
2162	.140	.375	1/16	2167	.312	.500	1/16
2163	.172	.375	1/16	2168	.385	.625	1/16
2164	.196	.375	1/16	2169	.375	.750	1/16

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HERMAN H. SMITH, INC. • **436 18th STREET, BROOKLYN 15, N. Y.**

SPERRY GYROSCOPE COMPANY

KLYSTRON TUBES and MICROLINE† INSTRUMENTS

Stemming from its sponsorship of the development of the klystron in 1939, Sperry has had vast experience in the manufacture of these tubes for transmitting, for multiplying and for use as local oscillators. As a result of Sperry's pioneering in microwave measuring techniques, this company has a complete line of Microline instruments which include every type of device essential to precision measurement, in the entire microwave field.

For further information on the equipment listed below or on new development of klystrons and microwave test units, write or telephone our Special Electronics Department.

KLYSTRONS

Type	Description	Frequency Range in MC	Output Power	Beam Voltage	Reflector Voltage	R-F Fittings
SRL17	Reflex Oscillator	750 to 990	5w	1000	0 to −1500	1-SKL
3K23	Reflex Oscillator	950 to 1150	5w	1000	0 to −1500	2-SKL
SRL7C	Reflex Oscillator	1850 to 2160	10w	1000	0 to −1000	1-Type N
2K41	Reflex Oscillator	2660 to 3310	250mw*	1250	0 to −750	2-SKL
2K42	Reflex Oscillator	3300 to 4200	250mw*	1250	0 to −750	1-SKL
2K43	Reflex Oscillator	4200 to 5700	250mw*	1250	0 to −750	1-SKL
2K44	Reflex Oscillator	5700 to 7500	250mw*	1250	0 to −750	1-SKL
2K39	Reflex Oscillator	7500 to 10,300	250mw*	1250	0 to −750	1-SKL
SRC-64 Series	Reflex Oscillator	3950 to 5930	1.2w	900	0 to −500	UG149A/U
SRC-43 Series	Reflex Oscillator	5925 to 8100	1w	750	0 to −300	UG344/U
SRU-55	Reflex Oscillator	14,000 to 17,500	25mw	300	0 to −150	UG419/U
3K22	Amplifier/ Oscillator	3300 to 4000	20w*	3000	none	4-SKL
SAC-19	Amplifier/ Oscillator	6000 to 6300	6w	625	none	2-Waveguide 1¼"x¼"
SAS28	Cascade Amplifier	** 2600 to 2800	225w	4000	none	2-SKL
2K35	Cascade Amplifier	2730 to 3330	25w	3000	none	1-1"-32 special 3-SKL
SAC41	Cascade Amplifier	3700 to 4200	10w	750	none	2-BNC 1-Waveguide (WR-229)
SAC9G	Cascade Amplifier	** 4970 to 5034	9w	1000	none	2-BNC 1-SKL
SAC33	Cascade Amplifier	** 4800 to 5300	500w	5200	none	2-BNC 1-Waveguide 2"x1"
SAL39	Pulsed Cascade Amp. (1% duty cycle)	960 to 1215	30kw	20,000	none	2-BNC 1⅝" coaxial (female)
SAX30	Pulsed Amplifier (3.5% duty cycle)	** 9100 to 9500	325w	5000	none	2-Waveguide 1"x½"
SAX22	Pulsed Amplifier (2.5% duty cycle)	** 9100 to 9500	7.5kw	17,000	none	2-Waveguide 1"x½"
2K34	Oscillator-Buffer	2730 to 3330	14w	1900	none	2-SKL
2K47	Frequency Multiplier	250 to 280 in 2250 to 3360 out	140mw	1000	none	4-SKL
SMS27	Frequency Multiplier	** 250 to 270 in ** 2500 to 2700 out	350mw	1000	none	2-BNC 1-SKL
SMC11 Series	Frequency Multiplier	** 715 to 875 in ** 3750 to 6000 out	400mw	1000	none	2-BNC 1-SKL
SMX32	Amp.-Freq. Multiplier	** 4500 to 5250 in ** 9000 to 10,500 out	1.5w	1000	none	1-BNC 1-SKL 1-Waveguide 1"x½"
SMK40	Amp.-Freq. Multiplier	** 4700 to 5200 in **23,500 to 26,000 out	600mw	1500	none	1-BNC 1-SKL 1-Waveguide ½"x¼"

*Minimum Output Power.

**Pretuned by manufacturer to center frequency specified by customer. An individual tube has only trimmer tuning.

(See Adapter Section for klystron tube fittings).

†T.M. Reg. U.S. Pat. Off.

BARRETTER AND THERMISTOR MOUNTS

Model	Description	Barretter Type	Frequency Range-kmc	Max. VSWR	Fittings Input	Fittings Output
148	½" Coaxial (tunable)	811	2.5-2.5	2.0	UG-46/U	UHF
163	Type N Coaxial	821	2.5-2.7	1.8	Type N Plug	UHF
85	Type N Coaxial	821	2.7-2.9	1.8	Type N Plug	UHF
164	Type N Coaxial	821	2.9-3.1	1.8	Type N Plug	UHF
285	Type N Coaxial	821	3.1-3.3	1.8	Type N Plug	UHF
245	2"x1" Waveguide	821	3.7-4.5	1.5	UG-149A/U	UHF
83A	2"x1" Waveguide	821	4.6-5.65	1.5	UG-149A/U	UHF
253	1½"x½" Waveguide	821	5.3-6.6	1.7	UG-344/U	UHF
212	1½"x¼" Waveguide	821	6.0-7.6	1.5	UG-344/U	UHF
184	1"x½" Waveguide	821	8.5-9.6	1.5	UG-39/U	UHF
219A	1"x½" Thermistor Waveguide	—	8.5-9.6	1.5	UG-39/U	BNC

BARRETTER ELEMENTS

811 125 OHMS (see Mounts)
821 200 OHMS (see Mounts)

IMPEDANCE METERS

Model	Frequency Range-kmc	Reading Accuracy	Transmission Line Size	Detector Element	Flanges Input	Flanges Output
361A	.65-4.0	0.1mm	⅞" Coaxial	1N21B*	UG-46/U	UG-45/U
299	2.6-4.0	0.1mm	3"x1½"	1N21B*	UG-214/U	UG-214/U
103B	3.95-6.0	0.1mm	2"x1"	1N23B*	UG-149A/U	UG-149A/U
116A	3.5-7.0	0.1mm	⅞" Coaxial	1N23B*	UG-141/U	UG-140/U
201	5.3-8.2	0.1mm	1½"x½"	1N23B*	UG-344/U	UG-344/U
145	8.1-12.4	0.1mm	1"x½"	1N23B*	UG-39/U	UG-39/U
320	18.0-26.5	0.01mm	½"x¼"	1N26	UG-425/U	UG-425/U
346	26.5-40.0	0.01mm	.360"x.220"	1N53	UG-381/U	UG-381/U

*The Model 821 barretter element can also be used.

IMPEDANCE TRANSFORMERS

Model	Type	Description	Frequency Range-kmc	Max. VSWR	Fittings
363	Double-Slug	⅞" Coaxial	.665-3.7	5-6	UG-46/U and UG-45/U
34A	Triple-Stub	⅞" Coaxial	1.7-3.75	50	UG-46/U and UG-45/U
137	Double-Stub	⅞" Coaxial	2.66-10.3	—	Type N Jack
301	Double-Slug	3"x1½"	2.6-4.0	10	UG-214/U
109B	Double-Slug Waveguide	2"x1"	3.95-6.0	8-14	UG-149A/U
117B	Susceptance Waveguide	2"x1"	3.95-6.0	40	UG-149A/U
202	Susceptance Waveguide	1½"x¾"	5.3-8.1	40	UG-344/U
178	Susceptance Waveguide	1"x½"	8.1-12.4	40	UG-39/U
146	Double-Slug Waveguide	1"x½"	8.1-12.4	8-14	UG-39/U
347	Susceptance Waveguide	0.360"x0.220"	26.5-40.0	35	UG-381/U

FREQUENCY METERS

Model	Description	Type*	Frequency Range-kmc	Absolute Accuracy	Fittings R-F	Fittings Video
124C	Broadband Coaxial	T	.66-3.0	1/1000	Type N	UHF
S22	Detector Wavemeter Kit	T&A	2.4-3.4	1/2000	Type N	UHF
291A	Cavity	T&A	2.575-3.78	1/10,000	Type N	UHF
27A	Coaxial	T	3.5-6.5	1/1000	Type N	UHF
28B	Cavity	T&A	4.01-6.0	1/10,000	UG-149A/U	UHF
207	Coaxial	T	5.3-8.1	1/2000	Type N	UHF
208A	Cavity	T&A	5.49-8.1	1/10,000	UG-344/U	UHF
273	Cavity	T&A	8.1-11.9	1/10,000	UG-39/U	UHF
348	Cavity	T&A	13.8-18.0	1/1000	UG-419/U	
349	Cavity	T&A	19.0-26.0	1/1000	UG-425/U	
350	Cavity	T&A	26.5-39.0	1/1000	UG-381/U	
126	Coaxial	A	8.1-10.2	1/2000	UG-39/U	
138A	Cavity Direct Reading	A	8.43-9.66	1/4000	UG-39/U	

*T—Transmission, A—Absorption

DIRECTIONAL COUPLERS

Model	Description	Frequency Range-kmc	Attenuation-db	Fittings
517	⅛" Coaxial	.24-.48	20-30-40	UG-46/U*
519	¼" Coaxial	.48-.96	20-30-40	UG-46/U*
480	½" Coaxial	.96-1.99	20-30-40	UG-46/U*
467	¾" Coaxial	1.99-4.0	20-30-40	UG-46/U*
306	3"x½" Waveguide	2.6-4.0	30	UG-214/U
233	2"x1" Waveguide	4.0-6.0	24	UG-149A/U
321	2"x1" Waveguide	4.0-6.0	30	UG-149A/U
322	2"x1" Waveguide	4.0-6.0	40	UG-149A/U
209	1½"x¼" Waveguide	5.3-8.1	24	UG-344/U
237	1½"x¼" Waveguide	5.3-8.1	30	UG-344/U
235	1"x½" Waveguide	8.1-12.4	20	UG-39/U
236	1"x½" Waveguide	8.1-12.4	24	UG-39/U
234	1"x½" Waveguide	8.1-12.4	40	UG-39/U
388	0.702"x0.390" Waveguide	12.4-17.0	20	UG-419/U
413	½"x¼" Waveguide	18.0-26.5	20	UG-425/U
415	½"x¼" Waveguide	18.0-26.5	40	UG-425/U
405	0.360"x0.220" Waveguide	26.5-36.0	20	UG-381/U
712	⅛" Coaxial	1.08-1.30	40	UG-46/U
794	¼" Coaxial	.83-1.05	40	UG-46/U

*Input fitting. Main line output, UG-45/U. Secondary line output, UG-46/U. Adapters (Models 352A and 217) convert these units to Type N.

ATTENUATORS

Model	Description	Frequency Range-kmc	Attenuation Range-db	Waveguide Size	Fittings
127A	Precision ± .2db	29-32mc	15-95	—	UHF
294	Variable	2.6-4.0	2-16.5	3"x1½"	UG-214/U
110	Variable	4.0-6.0	0-20	2"x1"	UG-149A/U
216	Variable	5.3-8.1	2-20	1½"x¼"	UG-344/U
292	Variable	7.0-10.0	2-20	1¼"x⅝"	UG-51/U
134A	Calibrated ± .5db	8.5-9.6	2-45	1"x½"	UG-39/U
173	Fixed ± .5db	8.5-9.6	3	1"x½"	UG-39/U
174	Fixed ± .5db	8.5-9.6	6	1"x½"	UG-39/U
183	Fixed ± .5db	8.5-9.6	10	1"x½"	UG-39/U
152A	Variable	8.1-12.4	0.5-20	1"x½"	UG-39/U
375	Variable	12.4-18.0	0.5-20	0.702"x0.391"	UG-419/U
290	Variable	3.95-6.0	2-20	2"x1"	UG-149A/U

TERMINATIONS

Model	Description	Frequency Range-kmc	Power Capacity Watts	Max. VSWR	Fittings
637	⅛" Coaxial	.65-3.5	12	1.4	UG-46/U
308	3"x1½" Waveguide	2.6-4.0	1	1.04	UG-214/U
105	2"x1" Waveguide	3.95-6.0	1	1.04	UG-149A/U
113	2"x1" Waveguide	4.0-6.0	210	1.10	UG-149A/U
214	1½"x¼" Waveguide	5.3-8.2	1	1.04	UG-344/U
213	1½"x¼" Waveguide	5.3-8.2	150	1.10	UG-344/U
150	1"x½" Waveguide	8.1-12.4	1	1.04	UG-39/U
246	1"x½" Waveguide	8.1-12.4	100	1.10	UG-39/U
401	0.702"x0.391" Waveguide	12.4-18.0	100	1.15	UG-419/U
402	0.360"x0.220" Waveguide	26.5-40.0	18	1.15	UG-381/U
495	1"x½" Waveguide	8.1-12.4	5	Tunable	UG-39/U

WATTMETER BRIDGES—SIGNAL SOURCES

Model 84C Wattmeter Bridge*
Model 123B Wattmeter Bridge*
Model 555 Klystron Power Supply—see Klystrons
Model 296B Microwave Receiver
Model 38A F. M. Test Set (Commercial equivalent of the TS-147/B)

*See Barretter & Thermistor Section for units applicable to these bridges.

DETECTORS AND MIXERS

Model	Description	Frequency Range-kmc	Crystal	Fittings Input	Fittings Local Osc.	Fittings Output
111A	Detector Sect.	3.95-6.0	1N23B	UG-149A/U	none	UHF
206	Detector Sect.	5.3-8.2	1N21B*	UG-344/U	none	UHF
360	Detector 1"x½" Waveguide	7.5-9.6	1N23B*	UG-39/U	none	UHF
357	Detector 0.702" x0.391" Waveguide	12.4-18.0	1N26	UG-419/U	none	UHF
358	Detector ½"x¼" Waveguide	18.0-26.5	1N26	UG-425/U	none	UHF
359	Detector 0.360" x0.220" Waveguide	26.5-40.0	1N53	UG-381/U	none	UHF
337	Mixer ⅛" Coaxial	2.6-4.0	1N23	Type N Female	Type N	UHF
379	Mixer	8.1-12.4	1N23B	UG-39/U	UG-39/U	UHF

*The Model 821 barretter element can also be used.

ADAPTERS

Model	Description	Frequency Range-kmc	Fittings	
352A	⅛" Coaxial to Type N	0-4.0	UG-45/U	Type N Jack
217	⅛" Coaxial to Type N	0-4.0	UG-46/U	Type N Jack
354A	⅛" Coaxial to ¼" Coaxial	0-4.0	UG-45/U	UG-45/U
355A	¼" Coaxial to ½" Coaxial	0-4.0	UG-46/U	UG-46/U
101A	½" Coaxial to Type N	0-7.0	UG-140/U	Type N Jack
286A	½" Coaxial to BNC	0-7.0	UG-140/U	UG-290/U
398	3" to 1½" Waveguide to ⅝" Coaxial	2.6-4.0	UG-214/U	UG-140/U
250	3"x1½" Waveguide to Type N	2.6-4.0	UG-214/U	Type N Jack
144A	3"x½" Waveguide to ⅛" Coaxial	2.6-4.0	UG-214/U	UG-45/U
248	2"x1" Waveguide to Type N	3.95-6.0	UG-149A/U	Type N Jack
100A	2"x1" Waveguide to ⅜" Coaxial	3.95-6.0	UG-140/U	UG-149A/U
204	1½"x¼" Waveguide to Type N	5.3-8.2	UG-344/U	Type N Jack
251	1½"x¼" Waveguide to ⅝" Coaxial	5.3-7.0	UG-344/U	UG-140/U
249	1¼"x⅝" Waveguide to Type N	7.0-10.0	UG-51/U	Type N Jack
167A	1"x½" Waveguide to Type N	8.1-12.4	UG-39/U	Type N Jack
486A	SKL to 1"x½" Waveguide Transformer Adapter	8.1-12.4	UG-39/U	SKL

UG-275/U SKL Cable End Plug.
UG-276/U SKL Right Angle Plug.
UG-131/U SKL Type N Jack Adapter.

MAGIC TEES

Model	Description	Frequency Range-kmc	Max. VSWR (Any Arm)	Min. Isolation (Shunt to Series)	Fittings
406	1"x½"	8.1-12.4	2	35	UG-39/U
391	0.360"x0.220"	26.5-40.0	2	35	UG-381/U

TEES AND BENDS

Model	Description	Frequency Range-kmc	Fittings
274	3"x1½" Waveguide—Series Tee	2.6-4.0	UG-214/U
275	3"x1½" Waveguide—Shunt Tee	2.6-4.0	UG-214/U
106A	2"x1" Waveguide—Series Tee	3.95-6.0	UG-149A/U
107A	2"x1" Waveguide—Shunt Tee	3.95-6.0	UG-149A/U
276	1½"x¼" Waveguide—Series Tee	5.3-8.2	UG-344/U
277	1½"x¼" Waveguide—Shunt Tee	5.3-8.2	UG-344/U
278	1¼"x⅝" Waveguide—Series Tee	7.0-10.0	UG-51/U
279	1¼"x⅝" Waveguide—Shunt Tee	7.0-10.0	UG-51/U
165A	1"x½" Waveguide—Series Tee	8.1-12.4	UG-39/U
166A	1"x½" Waveguide—Shunt Tee	8.1-12.4	UG-39/U
170	1"x½" Waveguide—E-Plane Bend	8.1-12.4	UG-39/U
171	1"x½" Waveguide—H-Plane Bend	8.1-12.4	UG-39/U
392	0.702"x0.391" Waveguide—Series Tee	12.4-18.0	UG-419/U
393	0.702"x0.391" Waveguide—Shunt Tee	12.4-18.0	UG-419/U
394	½"x¼" Waveguide—Series Tee	18.0-26.5	UG-425/U
395	½"x¼" Waveguide—Shunt Tee	18.0-26.5	UG-425/U

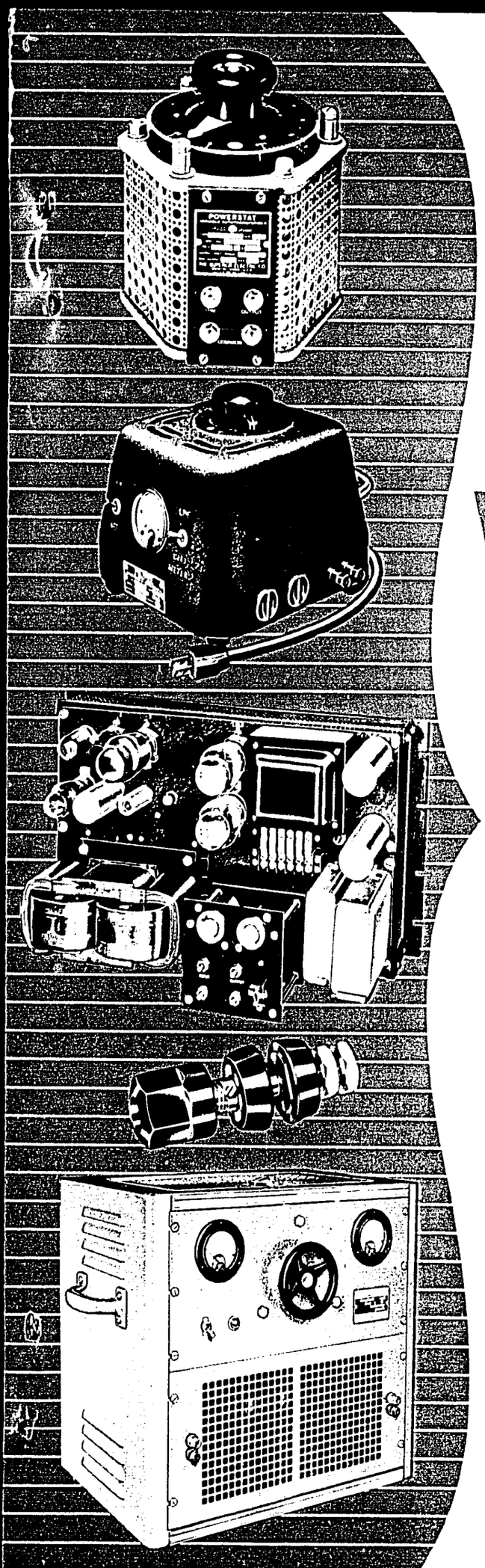
SHORTS

Model	Description	Frequency Range-kmc	Fittings
636	¼" Coaxial	.7-4.0	UG-46/U
114A	2"x1" Waveguide	3.95-6.0	UG-149A/U
203	1½"x¾" Waveguide	5.3-8.2	UG-344/U
377	1"x½" Waveguide	8.1-12.4	UG-39/U
372	0.702"x0.391" Waveguide	12.4-18.0	UG-419/U
371	0.360"x0.220" Waveguide	26.5-40.0	UG-381/U

SPERRY GYROSCOPE COMPANY

DIVISION OF THE SPERRY CORPORATION • GREAT NECK, NEW YORK

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THE ONE SOURCE FOR VOLTAGE CONTROL EQUIPMENT

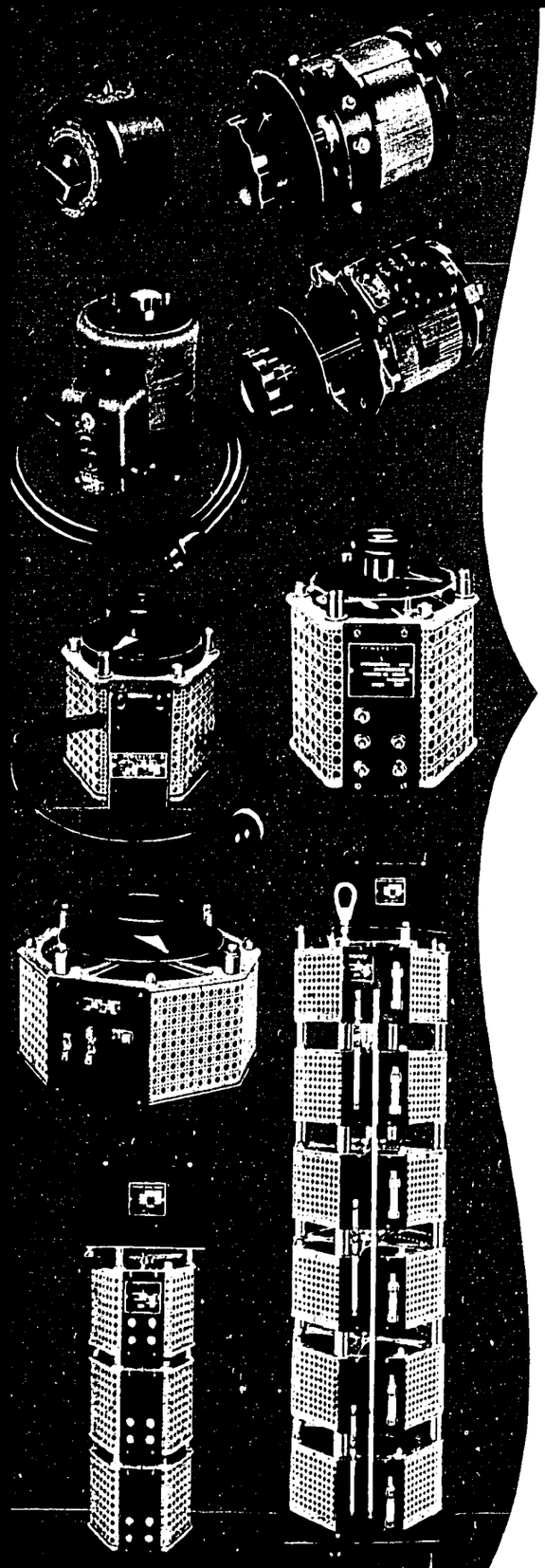
THE SUPERIOR ELECTRIC COMPANY
BRISTOL, CONNECTICUT

The performance demanded of today's electrical apparatus dictates the practice of voltage control. The one source offering voltage control equipment to meet the needs of almost all applications is THE SUPERIOR ELECTRIC COMPANY and its authorized distributors.

POWERSTAT Variable Transformers provide a continuously-adjustable output voltage from a-c power lines. STABILINE Automatic Voltage Regulators maintain a constant output voltage regardless of line or load changes. VARICELL D-C Power Supplies deliver stabilized-regulated variable low d-c voltages from a-c lines. The VOLTBOX A-C Power Supplies are a much needed instrument providing all the facilities for variable a-c voltage testing. The SUPERIOR 5-WAY Binding Post provides complete insulation and fast, complete connection. Look to SUPERIOR ELECTRIC and its distributors for the finest selection in voltage control equipment.

POWERSTAT VARIABLE TRANSFORMERS

A Complete Line for every
VARIABLE A-C VOLTAGE REQUIREMENT



POWERSTAT variable transformers are autotransformers of toroidal core design with a movable brush tap which rotates to deliver a continuously adjustable output voltage from a-c power lines. Features of every POWERSTAT are excellent regulation, high efficiency, conservative ratings, zero waveform distortion, rugged mechanical construction, smooth control and standard mountings. Numerous types are available for 115, 230 and 460 volts, single and three phase operation in ratings from 150 VA to 100 KVA. Most types are offered for either manual or motor-driven operation. In the chart are listed some of the standard types. In addition, oil-cooled and explosion-proof types are available. Therefore, if one of the units listed does not suit your particular need, consult us. There's a POWERSTAT for every variable a-c voltage control requirement. The complete POWERSTAT line is described in Bulletin P550.

Line Volt.	Output Volt.	Max. Output Amp.	Output KVA	Frequency	Type	Approximate Net Wt. (Lbs.)	Approximate Shipp. Wt. (Lbs.)	**Standard Motor Speeds	Manually-operated List Price
0-120	0-132	1.25	0.165	‡60	*10	1.8	3	.....	$ 8.50
115	0-135	3.0	0.4	‡60	*20	4	6	.....	12.50
	0-135	7.5	1.0	50/60	*116U	10	11	.....	18.00
	0-135	7.5	1.0	50/60	116	11	12	.....	23.00
	0-135	7.5	1.0	50/60	3PF116	11	12	.....	30.00
	0-135	7.5	1.0	50/60	3TF116	11	12	.....	30.00
	0-135	15.0	2.0	50/60	1126	21	25	W,X,Y,Z	46.00
	0-135	15.0	2.0	50/60	F1126	21	25	W,X,Y,Z	50.00
	0-135	30.0	4.0	50/60	1126-2P	48	55	W,X,Y,Z	105.00
	0-135	45.0	6.1	50/60	1156	73	80	W,X,Y,Z	118.00
	0-135	45.0	6.1	50/60	F1156	74	81	W,X,Y,Z	126.00
	0-135	90.0	12.1	50/60	1156-2P	150	170	W,X,Y,Z	269.00
	0-135	135.0	18.2	50/60	1156-3P	225	295	W,X,Y,Z	418.00
	0-135	180.0	24.3	50/60	1156-4P	330	420	W,X,Y	613.00
	0-135	270.0	36.4	50/60	1156-6P	500	600	W,X,Y	1,015.00
230	0-270	3.0	0.81	50/60	*216U	10	11	.....	20.00
	0-270	3.0	0.81	50/60	216	11	12	.....	26.00
	0-270	3.0	0.81	50/60	3PF216	11	12	.....	33.00
	0-270	3.0	0.81	50/60	3TF216	11	12	.....	33.00
	0-270	7.5	2.0	50/60	*116U-2S	17	22	.....	44.50
	0-270	7.5	2.0	50/60	*116-2S	18	23	.....	49.50
	0-270	9.0	2.4	50/60	1226	25	29	W,X,Y,Z	46.00
	0-270	9.0	2.4	50/60	F1226	25	29	W,X,Y,Z	50.00
	0-270	15.0	4.0	50/60	1126-2S	45	52	W,X,Y,Z	97.00
	0-270	28.0	7.5	50/60	1256	73	80	W,X,Y,Z	118.00
	0-270	28.0	7.5	50/60	F1256	74	80	W,X,Y,Z	128.00
	0-270	45.0	12.1	50/60	1156-2S	144	164	W,X,Y,Z	261.00
	0-270	56.0	15.1	50/60	1256-2P	150	170	W,X,Y,Z	269.00
	0-270	84.0	22 7	50/60	1256-3P	225	295	W,X,Y,Z	418.00
	0-270	112.0	30.2	50/60	1256-4P	330	420	W,X,Y	613.00
	0-270	168.0	45.3	50/60	1256-6P	500	600	W,X,Y	1,015.00
460	0-540	3.0	1.6	50/60	216U-2S	17	22	.....	49.00
	0-540	3.0	1.6	50/60	216-2S	18	23	.....	54.00
	0-540	9.0	4.9	50/60	1226-2S	53	60	W,X,Y,Z	97.00
	0-540	28.0	15.1	50/60	1256-2S	144	164	W,X,Y,Z	261.00
	0-540	56.0	30.2	50/60	1256-4PS	330	420	W,X,Y	597.00
	0-540	84.0	45.3	50/60	1256-6P	500	600	W,X,Y	999.00
Three Phase									
115	0-135	3.0	0.7	‡60	*20-2D	9	15	.....	37.00
	0-135	7.5	1.8	50/60	*116U-2D	17	22	.....	44.50
	0-135	7.5	1.8	50/60	*116-2D	18	23	.....	49.50
	0-135	15.0	3.5	50/60	1126-2D	45	52	W,X,Y,Z	97.00
	0-135	45.0	10.5	50/60	1156-2D	144	164	W,X,Y,Z	261.00
	0-135	90.0	21.0	50/60	1156-4D	320	410	W,X,Y	597.00
	0-135	135.0	31.6	50/60	1156-6D	490	590	W,X,Y	1,015.00
230	0-230	3.0	1.2	60	20L-3Y	15	24	.....	59.50
	0-270	3.0	1.4	50/60	*216U-2D	17	22	.....	49.00
	0-270	3.0	1.4	50/60	*216-2D	18	23	.....	54.00
	0-270	7.5	3.5	‡60	*116U-3Y	26	36	.....	61.50
	0-270	7.5	3.5	‡60	*116-3Y	27	37	.....	68.00
	0-270	9.0	4.2	50/60	1226-2D	53	60	W,X,Y,Z	97.00
	0-270	15.0	7.0	‡60	1126-3Y	65	75	W,X,Y,Z	148.00
	0-270	28.0	13.1	50/60	1256-2D	144	164	W,X,Y,Z	261.00
	0-230	45.0	17.9	50/60	1156L-3Y	215	280	W,X,Y,Z	394.00
	0-270	56.0	26.2	50/60	1256-4D	320	410	W,X,Y	597.00
	0-270	84.0	39.3	50/60	1256-6D	490	590	W,X,Y	1,015.00
	0-230	90.0	35.8	50/60	1156L-6Y	500	600	W,X,Y	991.00
460	0-540	3.0	2.8	‡60	*216U-3Y	26	36	.....	69.50
	0-540	3.0	2.8	‡60	216-3Y	27	37	.....	76.00
	0-540	9.0	8.4	‡60	1226-3Y	76	86	W,X,Y,Z	148.00
	0-540	28.0	26.2	‡60	1256-3Y	215	280	W,X,Y,Z	394.00
	0-540	56.0	52.5	‡60	1256-6Y	500	600	W,X,Y	991.00

* These units are supplied with an "L" terminal which allows connecting in the field to limit the output voltage to the applied voltage. If "L" type connection is required on other models, the "L" must be included in the type number when ordering.

‡ When these POWERSTATS are "L" connected so that the output voltage does not exceed the applied voltage, the frequency range is 50/60 cycles.

** When a motor-drive is required, prefix the letter "M" together with the speed designation letter to the type number. Z — 6 seconds, Y — 14 seconds, X — 19 seconds and W — 45 seconds for full range travel. Since the driving motors are frequency sensitive, be sure to specify whether 50 or 60 cycles is required. Only manually-operated unit weights are listed. For motor-drives add 10, 11 and 14 pounds to the 116-216, 1126-1226 and 1156-1256 types, respectively.

STABILINE Auto

VOLTAGE R

Mainrain consta
regardless of li

IE

Two types of automatic voltage regulators are built by The Superior Electric Company stant voltage to electrical equipment. Type IE is instantaneous in action with no mov corrects faster than most regulators and is ideal for maintaining constant voltage to l types are described in detail in Bulletin S351.

INSTANTANEOUS ELECTRONIC MODELS

Completely electronic, instantaneous in action, with no moving parts. Waveform dist held to within ± 0.1 per cent of nominal for wide line variations; to within ± 0.15 per or load power factor change from lagging .5 to leading .9. Listed below are standard

Output Voltage Range	Input Voltage Range	Frequency In Cycles	Load Range In Amperes	Load Power Factor Range	Rated Output KVA	Type	List Price
110-120	95-135	60 ± 10%	0 - 2.2		0.25	IE51002	$175.00
110-120	95-135	60 ± 10%	0 - 2.2		0.25	IE51002R	175.00
110-120	95-135	60 ± 10%	0 - 4.5	0.5 lagging	0.50	IE51005	210.00
110-120	95-135	60 ± 10%	0 - 4.5		0.50	IE51005R	200.00
110-120	95-135	60 ± 10%	0 - 8.5		1.0	IE5101	225.00
110-120	95-135	60 ± 10%	0 - 8.5		1.0	IE5101R	215.00
110-120	95-135	60 ± 10%	0 - 22.0		2.5	IE5102	335.00
110-120	95-135	60 ± 10%	0 - 22.0		2.5	IE5102R	325.00
110-120	95-135	60 ± 10%	0 - 43.5	to	5.0	IE5105	475.00
220-240	195-255	60 ± 10%	0 - 1.1		0.25	IE52002	175.00
220-240	195-255	60 ± 10%	0 - 1.1		0.25	IE52002R	175.00
220-240	195-255	60 ± 10%	0 - 2.2		0.50	IE52005	210.00
220-240	195-255	60 ± 10%	0 - 2.2		0.50	IE52005R	200.00
220-240	195-255	60 ± 10%	0 - 4.5	0.9 leading	1.0	IE5201	225.00
220-240	195-255	60 ± 10%	0 - 4.5		1.0	IE5201R	215.00
220-240	195-255	60 ± 10%	0 - 11.0		2.5	IE5202	335.00
220-240	195-255	60 ± 10%	0 - 11.0		2.5	IE5202R	325.00
220-240	195-255	60 ± 10%	0 - 22.0		5.0	IE5205	475.00
110-120	95-135	50 ± 10%	0 - 4.5		0.50	IEL51005	245.00
110-120	95-135	50 ± 10%	0 - 4.5		0.50	IEL51005R	235.00
110-120	95-135	50 ± 10%	0 - 8.5		1.0	IEL5101	260.00
110-120	95-135	50 ± 10%	0 - 8.5		1.0	IEL5101R	250.00
220-240	195-255	50 ± 10%	0 - 2.2		0.50	IEL52005	260.00
220-240	195-255	50 ± 10%	0 - 2.2		0.50	IEL52005R	250.00
220-240	195-255	50 ± 10%	0 - 4.5		1.0	IEL5201	275.00
220-240	195-255	50 ± 10%	0 - 4.5		1.0	IEL5201R	265.00
220-240	195-255	50 ± 10%	0 - 11.0		2.5	IEL5202	390.00
220-240	195-255	50 ± 10%	0 - 11.0		2.5	IEL5202R	380.00

EM

ELECTROMECHANICAL MODELS

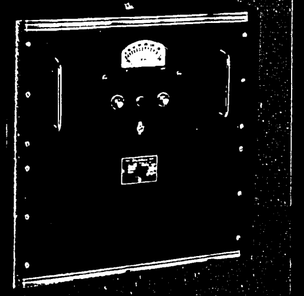
Consist of an electronic detector circuit controlling a motor-driven POWERSTAT v boost auxiliary transformer. Feature zero waveform distortion together with insen of load. Have no effect on system power factor. There are no critical adjustments different values. High efficiency is an inherent characteristic. Constant output volt tions in input voltage or load current.

Nominal Output Voltage	Input Voltage Range	Output Voltage Range	Output Current (Amperes)	Output KVA	Type	List Price
Single Phase						
115	95-135	110-120	17.5	2.0	EM4102	$ 325.00
			17.5	2.0	EM4102R	315.00
			52.0	6.0	EM4106	350.00
			130.0	15.0	EM4115	550.00
230	195-255	220-240	32.5	7.5	EM4207	440.00
			120.0	27.5	EM4228	600.00
460	400-520	420-460	15.0	6.6	EM4407	490.00
			40.0	17.6	EM4418	630.00
Three Phase						
230	195-255	220-240	25.0	10.0	EM6210Y	770.00
			38.0	15.0	EM6215Y	800.00
			50.0	20.0	EM6220Y	830.00
			113.0	45.0	EM6245Y	1,354.00
			175.0	70.0	EM6270D	1,675.00
460	400-520	420-460	16.0	12.5	EM6412Y	875.00
			22.0	17.5	EM6417Y	915.00
			33.0	25.0	EM6425Y	955.00
			66.0	50.0	EM6450Y	1,360.00
			100.0	75.0	EM6475Y	1,440.00
	420-500	420-460	131.0	100.0	EM64100Y	1,545.00

ALL PRICES F.O.B. BRISTOL, CONN., SUBJECT TO CHANGE WITHOUT NOTICE

tomatic
REGULATORS
nstant output voltage
f line or load changes





VARICELL

THE IDEAL SOURCE OF LOW D-C VOLTAGE

The VARICELL provides a source of stabilized-regulated adjustable low d-c voltages from a-c power lines. Essentially, its basic components are a POWERSTAT variable transformer, a fixed-ratio rectifier transformer, a saturable core reactor, a rectifier stack and an electronic control circuit. By turning a handwheel a variable range of d-c voltages is available. Any setting of output is unaffected by line voltage changes or load current variations. Type 13015, illustrated, is rated 95-135 volts, 60 cycles, single phase a-c input and 0-30 volts, 15 amperes d-c output. Stabilization and regulation is ± 0.25 volts and R.M.S. ripple voltage never exceeds 0.1 volts for the output range of 6 to 30 volts. LIST PRICE: $765.00. Complete information is given in Bulletin V1051.

VOLTBOX A-C POWER SUPPLIES

A COMPACT, PORTABLE SOURCE OF A-C VOLTAGE

The VOLTBOX is a very handy instrument for use in chemical, physical, electrical and other laboratories, the factory inspection department and the plant. It eliminates the task of collecting a variable transformer, voltmeter and connection leads when a test must be performed involving variable a-c voltage. In the VOLTBOX are all the necessary components conveniently placed for ease of operation. Various types are offered. Type UC1M, shown, is rated 115 volts, 50/60 cycles, single phase input; 0-135 volts, 7.5 amperes output. Type UC2M operates from 230 volts, 50/60 cycles, single phase to deliver 0-270 volts, 3.0 amperes. LIST PRICE: UC1M, $46.00; UC2M, $52.00. Additional types described in Bulletin P550.

SUPERIOR 5-WAY BINDING POST

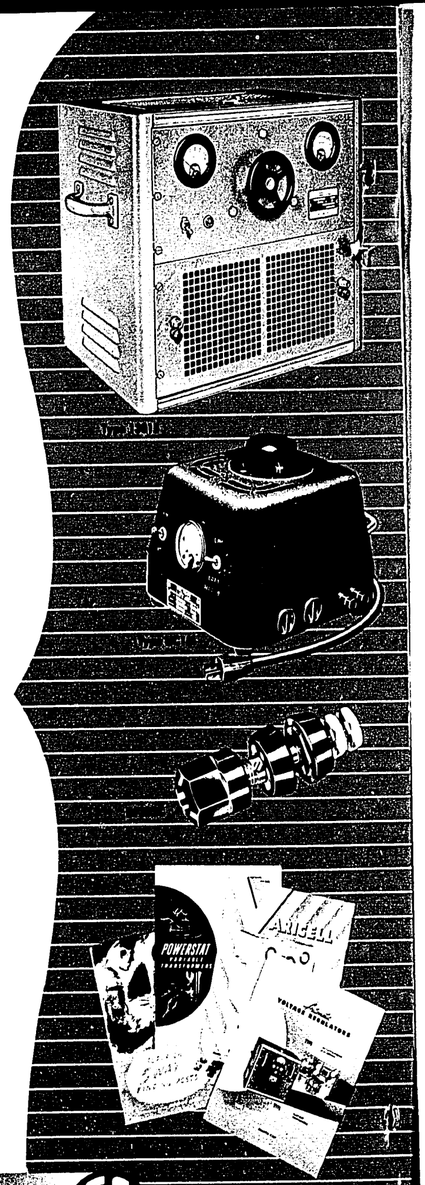
INCREASED FLEXIBILITY AND SAFE POSITIVE CONNECTIONS

The 5-WAY Binding Post offers complete insulation, a current capacity of 30 amperes, and a working voltage of 1000 volts. It's easy to install. Available in black or red phenolic for polarity or circuit identification. Connections can be permanent clamping, spade lug, clip-lead, banana plug, or looping and clamping. LIST PRICE: $0.40 each. Details are described in Bulletin BP652.

SEND FOR DESCRIPTIVE LITERATURE

A 4-page folder cannot provide details. If you wish further information on any product described in this folder, write to The Superior Electric Company, 5200 Meadow Street, Bristol, Connecticut, or ask your distributor. Complete technical bulletins are available on all Superior Electric products.

ALL PRICES F.O.B. BRISTOL, CONN. SUBJECT TO CHANGE WITHOUT NOTICE



THE SUPERIOR ELECTRIC CO.
BRISTOL, CONNECTICUT

SECO

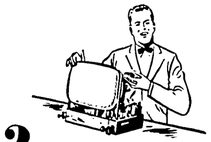
MANUFACTURERS OF
STABILINE AUTOMATIC VOLTAGE REGULATORS • VOLTBOX A-C PO...
SUPERIOR 5-WAY BINDING POSTS • POWERSTAT LIGHT DIMMI...
VARICELL D-C POWER SUPPLIES • POWERSTAT VARIABLE TRA...

SECO Form 4523

THERE ARE 3 GROUPS WHO KNOW THAT TECH-MASTER PRODUCTS ARE THE FINEST MONEY CAN BUY!



1. THOSE WHO BUILD THEM



2. THOSE WHO SELL THEM



3. THOSE WHO OWN THEM

630 TYPE TV CHASSIS
630 TYPE TV KIT
UNIVERSAL TV KIT
TV BOOSTER KIT
WILLIAMSON AMPLIFIER KIT
PRE-AMPLIFIER KIT

TECH-MASTER CUSTOM-BUILT TELEVISION RECEIVERS AND TECH-MASTER HIGH FIDELITY AMPLIFIER AND PRE-AMPLIFIER KITS are designed and engineered for those quality-minded, discriminating people who refuse to compromise with quality.

TM
ELECTRONIC EQUIPMENT

TECH-MASTER Deluxe TV Chassis and Kits

The World's Most Powerful, Most Dependable TV Receiver

Gold Medal Series

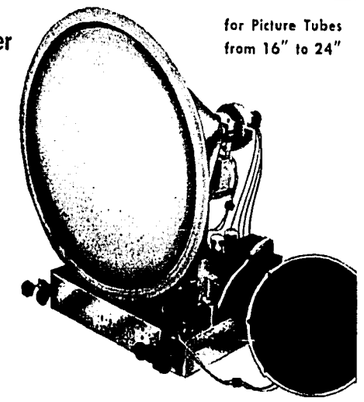
CUSTOM BUILT DELUXE TV CHASSIS

Tech-Master's Gold Medal Series Chassis is no ordinary mass-produced "commercial" set. It is truly custom-built, carefully, precisely, painstakingly — custom-built to provide your most quality-minded customers with the ultimate in sight and sound and value!

Tech-Master design and custom-construction are as fine as human hands and technical know-how can produce. The most advanced engineering methods, the finest components, rigid alignment and test standards and the pledged determination to produce the OPTIMUM in Television . . . these and other Tech-Master features add up to the finest in a TV Chassis that the industry has to offer. In fringe areas as well as normal range areas, the Gold Medal Series brings modern motion picture brilliance and clarity to the TV screen.

Compare These Features

★ **TECH-MASTER 630 TYPE CIRCUIT:** Of all the circuits known to the TV industry, the RCA-630 type is still acclaimed the finest. But, even the 630 is only as good as the Engineering, the Components and the Workmanship that go into it. These three factors are inherent in every Tech-Master Custom-Built Chassis.
★ **ADVANCED standard TURRET TUNER, Adaptable to UHF Without Tools:** Employs a Cascode RF amplifying stage, affords a high signal-to-noise output resulting in a sharper picture, with a minimum of "snow", even in weak signal areas. **UHF channel strips may be inserted at any time, without the use of tools.**
★ **Full 4 Mc Band Width** for better picture definition
★ **Quick-Action Keyed AGC Circuit** assures stabilized control.
★ **New Hi-Sweep Auto Transformer System** for outstanding brilliance.
★ **5 Microvolt Sensitivity** — Excellent for Fringe Areas
★ **Full Horizontal and Vertical blanking.**



for Picture Tubes from 16" to 24"

Model 2430:—Designed specifically for all picture tubes requiring 60 to 70 degrees horizontal deflection. Has quality PM speaker, Universal picture tube mounting brackets, Phono-input jack. **$189.50**

Model 2431P:—Same as Model 2430, but with Push-Pull Audio, True Fidelity Output **$199.95**

Dimensions: 21¾" wide, 16¼" deep.

Shipping Weight: 70 lbs.

Chassis is beautifully plated in gleaming nickel finish . . . comes completely wired, aligned and tested . . . with all tubes, (less picture tube).

America's Finest TV Kit—Model 630-D

Also available factory wired, assembled and aligned. See below.*

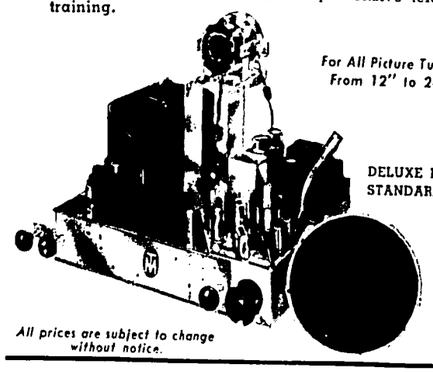
Tech-Master Model 630-D is acknowledged by the entire industry as the finest TV Kit available! Tech-Master engineers have again demonstrated their skill by developing new and better features for the world famous RCA-630 type circuit. All components used are the best available . . . rigid factory test standards are your assurance of years of trouble-free performance.

With a minimum of tools you will have a TV receiver with unsurpassed picture quality . . . at a cost considerably less than a manufactured set. Special Tech-Master schematic and pictorial diagrams guide every move and make assembly utterly simple and enjoyable! MODEL 630-D IS USED BY LEADING SCHOOLS all over the country! Established multiple tube circuits, rather than compromise economy circuits, make this Tech-Master TV Kit ideal for comprehensive television training.

No Other TV Kit Offers All Of These Important Features

★ **ADVANCED standard TURRET TUNER, Adaptable to UHF Without Tools:** High signal-to-noise ratio results in a sharper picture, with a minimum of "snow" even in weak signal areas.
★ AFC horizontal synchronization employing 6AL5 phase detector, 6AC7 Reactance tube, and Sync. Discriminator Transformer in a Hartley Oscillator circuit assures optimum noise immunity and horizontal stability.
★ 3 Stage Sync. Amplifier, Clipper and Separator circuit provides unexcelled interlace characteristics and the finest picture detail.
★ Noise saturation circuits utilized throughout minimize effect of external interference.
★ 4 Stage stagger tuned Video IF system produces full 4 MC band width and complete picture definition.
★ Adjacent Channel Traps.
★ 2 Stage Video Amplifier.
★ Direct Coupling Used for Keyed AGC Circuit.
★ Improved Picture Brilliance — Due to New "Hi-Sweep" Voltage Multiplier System.
★ Shielded High Voltage Supply for Maximum Protection.

Chassis Dimensions: 21¾" wide x 15¼" deep.
Shipping Weight: Approximately 70 lbs.



For All Picture Tubes From 12" to 24"

DELUXE KIT, all principal components mounted ..... **MODEL 630D24 ... $159.50**
STANDARD KIT, same as above but unassembled. **MODEL 630S24 ... $154.50**

Kits supplied complete with all components, picture tube mounting brackets, speaker, and all tubes (less kine, wire and solder).

***MODEL 1930, Deluxe TV CHASSIS:**
Similar to TV Kit 630D24 described above but completely factory wired, tested and aligned, ready for installation $179.50

All prices are subject to change without notice.

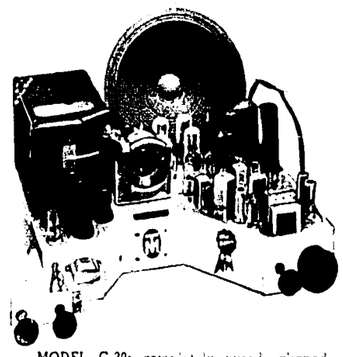
TECH-MASTER Economy TV Chassis and Kits

MODEL C-30 TV, WIRED CHASSIS

For Picture Tubes Up To 24"

Here again is Top TV Performance attained through skilled engineering and finest set-tested components embodied in a completely factory-wired chassis, pre-aligned, pre-adjusted and ready for use. MODEL C-30 has been designed for the utmost in value, retaining every important feature necessary for quality of image and sound.

★ **Basic 630-Type Circuit Features Include:**
  Full 4 mc bandwidth reception
  4-Stage Video IF
  3-Stage Audio IF
  2-Stage Video Amplifier
★ **30 Tubes**, including picture tube and rectifiers.
★ **Advanced, improved 12 channel turret tuner, adaptable to UHF without tools.**
★ 4 Stage Synchronous Amplifier and Separator
★ 5 Microvolt Sensitivity.
★ 16 kv 2 mA Anode Voltage
★ New Automatic Horizontal Stabilizer
★ Automatic Background Control.
★ Retrace Blanking Circuit
★ Permanent Dynamic Focusing System
★ Double-time Constant AGC.



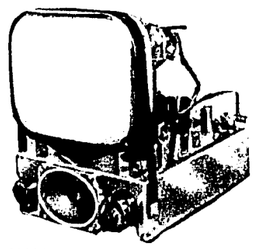
MODEL C-30: completely wired, aligned and tested . . . with quality PM speaker and all tubes (less picture tube) **$149.50**

UNIVERSAL TELEVISION KIT

Tech-Master brings high quality television within reach of the most economy-minded customer, with the lowest price ever for a top-performing, precision-engineered, AC/DC kit.

Tech-Master's development of the IF "Synchro-Strip" cuts in half the amount of work required to assemble and wire the kit! It comes mounted in place, on the main chassis, together with the tuner, and is completely wired, aligned and tested. The newest engineering advancements have been utilized in the design of the horizontal and vertical sync circuits to assure excellent stability and noise immunity characteristics. Complete step by step instructions and diagrams (both pictorial and schematic) permit complete wiring and assembly over a week-end!

IDEAL FOR SCHOOLS: Requires minimum bench equipment; affords maximum opportunities for comprehensive TV training.

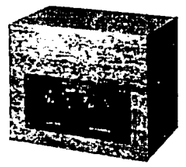


MODEL 5116: "UNIVERSAL" Kit complete with **set of 16 Circuit Tested Tubes**, all hardware, instructions and picture tube mounting brackets, (less kine, wire and solder) **$99.95**

★ **Compact, light-weight** easily portable unit operates on both AC and DC; for use with picture tubes up to 17" rectangular.
★ **Advanced and improved 12 channel turret tuner, adaptable to UHF without tools!**
★ **Latest type hi-gain stagger-tuned IF system incorporating bi-filar coils — for excellent picture definition.**
★ **New AGC system,** without special delay network — for clarity of picture regardless of variant transmission conditions.
★ **High efficiency beam power amplifier and ceramic core horizontal output transformer** provide clear, bright pictures and full horizontal deflection.
★ **Two-knob control** on front panel provides automatically synchronized picture and sound.

BOOSTER KIT

Precision-designed and tested to reduce noise from 3 to 5 db. Signals are boosted to such proportions that you receive outdoor antenna results with an indoor antenna. Amplifies signals in weak or fringe areas!



SPECIFICATIONS: Fixed grid, variable plate tuning. Separate coils for low and high channels. Matches 300 or 72 ohm line. High channel input coil may be tuned for any desired channel. Complete with 6AK5 tube, cabinet, and pre-aligned coils.
MODEL 3375 ..... **$9.95**

MIGHTY VERSATILE MIDGET

3 Instruments in One!



(1)—A Complete AM Superhet Receiver which connects to any speaker system.
(2)—A Sensitive AM Tuner with output connections for any external amplifier and speaker system.
(3)—A Complete Audio Amplifier with input connections for high-impedance microphone or phono-pickup and output connection for any speaker system.

This compact, versatile 3-in-one chassis affords the most economical method of adding radio, phono or P.A. operation to any TV receiver, speaker system or record player.

SPECIFICATIONS: Quadruple-tuned IF circuit ★ Ferrite core, omni-directional antenna ★ 2 Watts audio output ★ AVC for both RF and IF circuits ★ Simple 2-point suspension mounting ★ Electrically isolated chassis safe to handle ★ Fits into 630 type 3 piece front opening ★ AC (105-125V 50-60 cycles) and DC operation ★ Supplied complete with tubes: 12BE6, 12BA6, 12AV6, 50C5, 35W4 ★ Weighs only 1¼ lbs. ★ Dimensions: Length 7¼", Height 3⅛", Depth 3⅛".
MODEL B-15 ..... **$19.95**

Complete Line of Quality 630 Replacement Parts and Conversion Kits

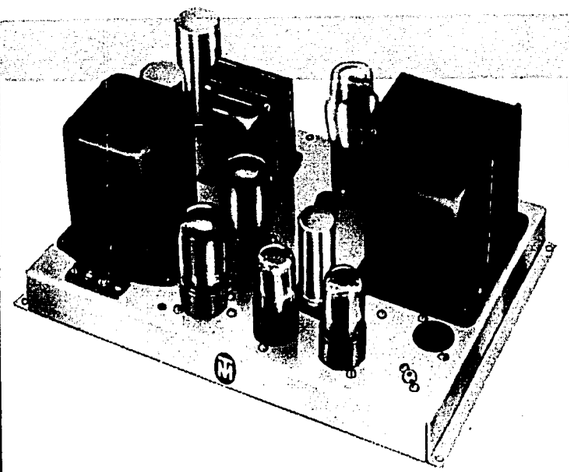
TRANSFORMERS
I.F. TRANSFORMERS
VIDEO PEAKING COILS
HORIZONTAL OUTPUT and H.V. TRANSFORMERS
WIDTH and LINEARITY COILS
FOCUS COILS
CONTROLS
ELECTROLYTIC CONDENSERS
BLEEDER RESISTORS
DEFLECTION YOKES
KNOBS and ESCUTCHEON PLATES
PLASTIC SLEEVE and RING SETS
KEYED A.G.C. KITS for 630-TYPE CHASSIS
HI-SWEEP VOLTAGE MULTIPLIER KITS
UNIVERSAL PICTURE TUBE MOUNTING BRACKETS

Detailed, illustrated literature and listing available upon request.

TECH-MASTER
High Fidelity
AMPLIFIER KITS

Wherever quality custom television installations are desired, TECH-MASTER chassis are the overwhelming favorites. TECH-MASTER products are built to a standard, not to a price. They are the result of advanced engineering coupled with an honest determination to obtain the optimum in reception, performance and value.

TECH-MASTER . . . first name in custom-built TV receivers . . . is rapidly earning a similiar reputation in the high fidelity audio field. The TECH-MASTER Williamson Amplifier Kit and the TECH-MASTER Pre-Amplifier Kit are made with the same "custom-quality" attention that is given to our TV receivers. We have cut no corners . . . our components are the finest . . . our workmanship is meticulous. When you buy a TECH-MASTER Amplifier Kit, you get a world of pleasure, years of satisfaction . . . and great economy, too.



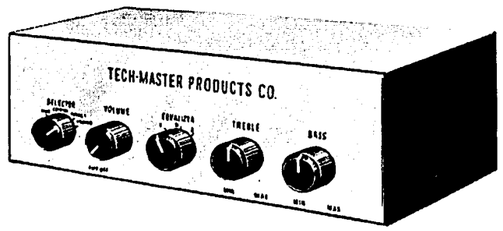
TECH-MASTER TM-15A Ultra-Linear WILLIAMSON-Type Amplifier Kit

Uses the famous WILLIAMSON circuit with unique modification for true high fidelity reproduction at increased power output. Only top quality products are used—specially wound Altec Lansing PEERLESS audio transformer—ruggedly constructed power transformer. A few hours of assembly, and the builder will be repaid with the finest listening quality he has ever heard. Frequency response flat and smooth beyond the two extremes of the audible range, and distortion is less than .25% at normal listening levels, with excellent transient characteristics. The kit is furnished complete with punched chassis, transformers, tubes and all other components, together with full detailed wiring and assembly instructions.

Power Output ..... 15 watts undistorted
Output Impedance ..... 4-8-16 ohms
Input Impedance ..... High for crystal pickups, tuners pre-amps, etc.
Input Voltage ..... 1.1 VRMS (for 15W out)

Intermodulation and Harmonic Distortion .25% at 2W .45% at 5W
Hum and Noise Level ..... 70 db below rated output
Feedback ..... 20 db
Response at 5 Watts ..... 8 cps to 80,000 cps ± 1 db
Response at 10 Watts ..... 12 cps to 56,000 cps ± 1 db
Tube Complement 2 6SN7 2 5881 1 5V4G
Power Requirements ..... 105-125V, 50-60 cycles, 120 w

Dimensions ..... 9" x 12" x 6½"
Shipping Weight ..... 27 pounds
Net Price $49.95



TECH-MASTER TM-15P Four Channel PRE-AMPLIFIER KIT

Input Selector—Phono Pre-Amp—Tone Control

TECH-MASTER design and TECH-MASTER quality—for discriminating listening. Has four input channels and selector switch for: FM—AM or TV Tuner, crystal pickup, reluctance style pickup, tape or wire recorder, or other signal source. 3 position equalizer switch in high gain input circuit permits selection of turnover and roll-off characteristics to match most types of recordings. Two independent, continuous controls provide full base and treble boost and attenuation. Power is obtained from main amplifier. AC outlet on chassis permits main amplifier and associated equipment to be controlled by master switch.

The Kit is furnished complete with punched chassis (preprinted with pictorial diagram for easy assembly), all components, tubes, cabinet and detailed instruction.

Input channels ..... 1. Low level – high gain
3. Hi-impedance
Base Frequency control ..... ±15 db boost or attenuation at 20 cycles
Treble frequency control ..... ±15 db boost or attenuation at 20 KC

EQUALIZATION CONTROL

POSITION	TURNOVER	ROLL-OFF
1	300 Cps	none-flat } for 78 RPM
2	500 Cps	none-flat }
3	400 Cps	12 db at 10 KC for 33⅓ and 45 RPM

Tube Complement ..... 1 — 12AX7, 1 — 12AU7
Power Requirement ..... 125 volts DC at 6 ma, 6.3 volts at 600 ma

Dimensions ..... 10¾" x 4" x 4"
Shipping Weight ..... 4 pounds
Net Price $19.95

TECH-MASTER Products Co.
443-445 BROADWAY, NEW YORK 13, N. Y.

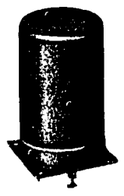
for *Stock* Hermetically Sealed Components



RCOF CASE
Length 1 25/64
Width 61/64
Height 1 13/32
Mounting 1 1/8
Screws ..... 4-40 FIL.
Cutout ..... 7/8 Dia.
Unit Weight ..... 1.5 oz.

MINIATURE AUDIO UNITS...RCOF CASE

Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	DC in Pri., MA	Response ± 2db. (Cyc.)	Max. level dbm	List Price
H-1	Mike, pickup, line to grid	TF1A10YY	50,200 CT, 500 CT*	50,000	0	50-10,000	+ 5	$16.50
H-2	Mike to grid	TF1A11YY	82	135,000	50	250-8,000	+21	16.00
H-3	Single plate to single grid	TF1A15YY	15,000	60,000	0	50-10,000	+ 6	13.50
H-4	Single plate to single grid, DC in Pri.	TF1A15YY	15,000	60,000	4	200-10,000	+14	13.50
H-5	Single plate to P.P. grids	TF1A15YY	15,000	95,000 CT	0	50-10,000	+ 5	15.50
H-6	Single plate to P.P. grids, DC in Pri.	TF1A15YY	15,000	95,000 split	4	200-10,000	+11	16.00
H-7	Single or P.P. plates to line	TF1A13YY	20,000 CT	150/600	4	200-10,000	+21	16.50
H-8	Mixing and matching	TF1A16YY	150/600	600 CT	0	50-10,000	+ 8	15.50
H-9	82/41:1 input to grid	TF1A10YY	150/600	1 meg.	0	200-3,000 (4db.)	+10	16.50
H-10	10:1 single plate to single grid	TF1A15YY	10,000	1 meg.	0	200-3,000 (4db.)	+10	15.00
H-11	Reactor	TF1A20YY	300 Henries-0 DC, 50 Henries-3 Ma. DC, 6,000 Ohms.					12.00



RC-50 CASE
Length 1 5/8
Width 1 5/8
Height 2 5/16
Mounting 1 5/16
Screws ..... #6-32
Cutout ..... 1 1/2 Dia.
Unit Weight ..... 8 oz.

COMPACT AUDIO UNITS...RC-50 CASE

Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	DC in Pri., MA	Response ± 2db. (Cyc.)	Max. level dbm	List Price
H-20	Single plate to 2 grids, can also be used for P.P. plates	TF1A15YY	15,000 split	80,000 split	0	30-20,000	+12	$20.00
H-21	Single plate to P.P. grids, DC in Pri.	TF1A15YY	15,000	80,000 split	8	100-20,000	+23	23.00
H-22	Single plate to multiple line	TF1A13YY	15,000	50/200, 125/500**	8	50-20,000	+23	21.00
H-23	P.P. plates to multiple line	TF1A13YY	30,000 split	50/200, 125/500**	8 BAL.	30-20,000	+19	20.00
H-24	Reactor	TF1A20YY	450 Hys.-0 DC, 250 Hys.-5 Ma. DC, 6000 ohms . . . 65 Hys.-10 Ma. DC, 1500 ohms.					15.00



SM CASE
Length 11/16
Width 1/2
Height 29/32
Screw ..... 4-40 FIL.
Unit Weight ..... 8 oz.

SUBMINIATURE AUDIO UNITS...SM CASE

Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	DC in Pri., MA	Response ± 2db. (Cyc.)	Max. level dbm	List Price
H-30	Input to grid	TF1A10YY	50***	62,500	0	150-10,000	+13	$13.00
H-31	Single plate to single grid, 3:1	TF1A15YY	10,000	90,000	0	300-10,000	+13	13.00
H-32	Single plate to line	TF1A13YY	10,000****	200	3	300-10,000	+13	13.00
H-33	Single plate to low impedance	TF1A13YY	30,000	50	1	300-10,000	+15	13.00
H-34	Single plate to low impedance	TF1A13YY	100,000	60	.5	300-10,000	+ 6	13.00
H-35	Reactor	TF1A20YY	100 Henries-0 DC, 50 Henries-1 Ma. DC, 4,400 ohms.					11.00

The impedance ratings are listed in standard manner. Obviously, a transformer with a 15,000 ohm primary impedance can operate from a tube representing a source impedance of 7700 ohms, etc. In addition, transformers can be used for applications differing considerably from those shown, keeping in mind that impedance ratio is constant. Lower source impedance will improve response and level ratings . . . higher source impedance will reduce frequency range and level rating.

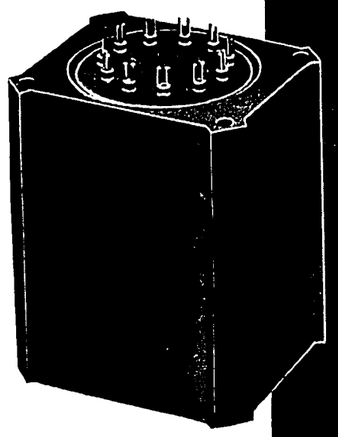
* 200 ohm termination can be used for 150 ohms or 250 ohms, 500 ohm termination can be used for 600 ohms.
** 200 ohm termination can be used for 150 ohms or 250 ohms, 125/500 ohm termination can be used for 150/600 ohms.
*** can be used with higher source impedances, with corresponding reduction in frequency range. With 200 ohm source, secondary impedance becomes 250,000 ohms . . . loaded response is –4 db. at 300 cycles.
**** can be used for 500 ohm load . . . 25,000 ohm primary impedance . . . 1.5 Ma. DC.

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EXPORT DIVISION 13 EAST 40th STREET NEW YORK 16 N. Y. CABLES ARLAB

Linear Standard Units...

THE ULTIMATE IN QUALITY...

UTC Linear Standard Audio Transformers represent the closest approach to the ideal component from the standpoint of uniform frequency response, low wave form distortion, high efficiency, thorough shielding and utmost dependability.



UTC Linear Standard Transformers feature . . .

- **True Hum Balancing Coil Structure** . . . maximum neutralization of stray fields.
- **Balanced Variable Impedance Line** . . . permits highest fidelity on every tap of a universal unit . . . no line reflections or transverse coupling.
- **Reversible Mounting** . . . permits above chassis or sub-chassis wiring.
- **Alloy Shields** . . . maximum shielding from inductive pickup.
- **Hiperm-Alloy** . . . a stable, high permeability nickel-iron core material.
- **Semi-Toroidal Multiple Coil Structure** . . . minimum distributed capacity and leakage reactance.
- **Precision Winding** . . . accuracy of winding .1%, perfect balance of inductance and capacity; exact impedance reflection.
- **High Fidelity** . . . UTC Linear Standard Transformers are the *only* audio units with a *guaranteed* uniform response of ± 1 DB from 20-20,000 cycles.

TYPICAL LS LOW LEVEL TRANSFORMERS

Type No.	Application	Primary Impedance	Secondary Impedance	±1 db from	Max. Level	Relative hum-pickup reduction	Max. Unbalanced DC in prim'y	List Price
LS-10	Low impedance mike, pickup, or multiple line to grid	50, 125, 200, 250, 333, 500/ 600 ohms	60,000 ohms in two sections	20-20,000	+15 DB	—74 DB	5 MA	$25.00
LS-10X	As Above	As above	50,000 ohms	20-20,000	+14 DB	—92 DB	5 MA	35.00
LS-12	Low impedance mike, pickup, or multiple line to push pull grids	50, 125, 200, 250, 333, 500/ 600 ohms	120,000 ohms overall, in two sections	20-20,000	+15 DB	—74 DB	5 MA	28.00
LS-12X	As above	As above	80,000 ohms overall, in two sections	20-20,000	+14 DB	—92 DB	5 MA	35.00
LS-26	Bridging line to single or push pull grids	5,000 ohms	60,000 ohms in two sections	15-20,000	+20 DB	—74 DB	0 MA	30.00
LS-19	Single plate to push pull grids like 2A3, 6L6, 300A. Split secondary	15,000 ohms	95,000 ohms; 1.25:1 each side	20-20,000	+17 DB	—50 DB	0 MA	26.00
LS-21	Single plate to push pull grids. Split primary and secondary	15,000 ohms	135,000 ohms; turn ratio 3:1 overall	20-20,000	+14 DB	—74 DB	0 MA	26.00
LS-22	Push pull plates to push pull grids. Split primary and secondary	30,000 ohms plate to plate	80,000 ohms; turn ratio 1.6:1 overall	20-20,000	+20 DB	—50 DB	.25 MA	32.00
LS-30	Mixing, low impedance mike, pickup, or multiple line to multiple line	50, 125, 200, 250, 333, 500/ 600 ohms	50, 125, 200, 250, 333, 500/600 ohms	20-20,000	+17 DB	—74 DB	5 MA	26.00
LS-30X	As above	As above	As above	20-20,000	+15 DB	—92 DB	3 MA	32.00
LS-27	Single plate to multiple line	15,000 ohms	50, 125, 200, 250, 333, 500/600 ohms	30-12,000 cycles	+20 DB	—74 DB	8 MA	26.00
LS-50	Single plate to multiple line	15,000 ohms	50, 125, 200, 250, 333, 500/600 ohms	20-20,000	+17 DB	—74 DB	0 MA	26.00
LS-51	Push pull low level plates to multiple line	30,000 ohms plate to plate	50, 125, 200, 250, 333, 500/600 ohms	20-20,000	+20 DB	—74 DB	1 MA	28.00
LS-141	Three sets of balanced windings for hybrid service, centertapped	500/600 ohms	500/600 ohms	30-12,000	+10 DB	—74 DB	0 MA	30.00

TYPICAL LS OUTPUT TRANSFORMERS

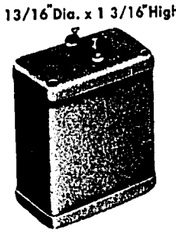
Type No.	Primary will match following typical tubes	Primary Impedance	Secondary Impedance	±1 db from	Max. Level	List Price
LS-52	Push pull 245, 250, 6V6, 42 or 2A5 A prime	8,000 ohms	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	25-20,000	15 watts	$35.00
LS-55	Push pull 2A3's, 6A5G's, 300A's, 275A's, 6A3's, 6L6's	5,000 ohms plate to plate and 3,000 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	25-20,000	20 watts	35.00
LS-57	Same as above	5,000 ohms plate to plate and 3,000 ohms plate to plate	30, 20, 15, 10, 7.5, 5, 2.5, 1.2	25-20,000	20 watts	25.00
LS-58	Push pull parallel 2A3's, 6A5G's, 300A's, 6A3's	2,500 ohms plate to plate and 1,500 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	25-20,000	40 watts	50.00
LS-6L6	Push pull 6L6's self bias	9,000 ohms plate to plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	25-20,000	30 watts	50.00

Write for our Catalog PS-520

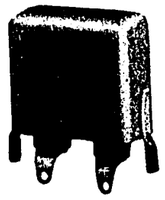
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EXPORT DIVISION 13 EAST 40th STREET NEW YORK 16 N Y CABLES ARLAB



HQA, HQC, HQD CASE
1 13/16"Dia. x 1 3/16"High

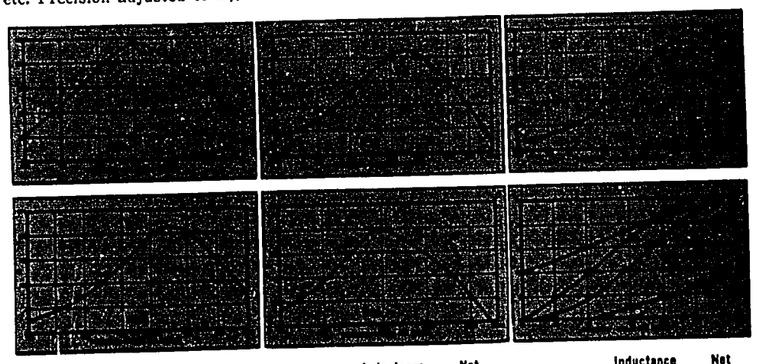


HQB CASE
1 5/8"x 2 5/8"x 2 1/2"High

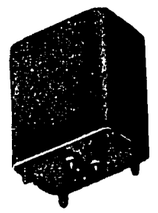


HQE CASE
1/2"x 1 5/16"x 1 3/16"High

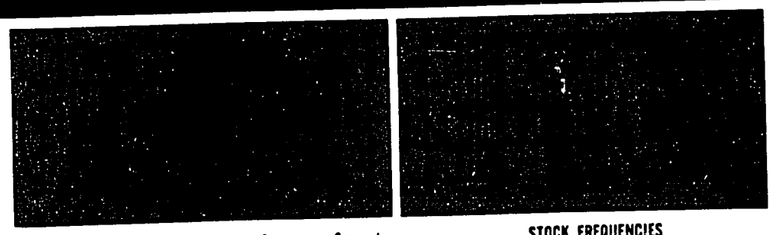
The UTC type HQ permalloy dust toroids are ideal for all audio, carrier and supersonic applications. HQA coils have Q over 100 at 5,000 cycles... HQB coils, Q over 200 at 4,000 cycles... HQC coils, Q over 200 at 30 KC... HQD coils, Q over 200 at 60 KC... HQE (miniature) coils, Q over 120 at 10 KC. The toroid dust core provides very low hum pickup... excellent stability with voltage change... negligible inductance change with temperature, etc. Precision adjusted to 1% tolerance. Hermetically sealed.



Type No.	Inductance Value	Net Price	Type No.	Inductance Value	Net Price	Type No.	Inductance Value	Net Price
HQA-1	5 mhy.	$7.00	HQA-16	7.5 hy.	$15.00	HQC-1	1 mhy.	$13.00
HQA-2	12.5 mhy.	7.00	HQA-17	10. hy.	16.00	HQC-2	2.5 mhy.	13.00
HQA-3	20 mhy.	7.50	HQA-18	15. hy.	17.00	HQC-3	5 mhy.	13.00
HQA-4	30 mhy.	7.50	HQB-1	10 mhy.	16.00	HQC-4	10 mhy.	13.00
HQA-5	50 mhy.	8.00	HQB-2	30 mhy.	16.00	HQC-5	20 mhy.	13.00
HQA-6	80 mhy.	8.00	HQB-3	70 mhy.	16.00	HQD-1	.4 mhy.	15.00
HQA-7	125 mhy.	9.00	HQB-4	120 mhy.	17.00	HQD-2	1 mhy.	15.00
HQA-8	200 mhy.	9.00	HQB-5	.5 hy.	17.00	HQD-3	2.5 mhy.	15.00
HQA-9	300 mhy.	10.00	HQB-6	1. hy.	18.00	HQD-4	5 mhy.	15.00
HQA-10	.5 hy.	10.00	HQB-7	2. hy.	19.00	HQD-5	15 mhy.	15.00
HQA-11	.75 hy.	10.00	HQB-8	3.5 hy.	20.00	HQE-1	5 mhy.	6.00
HQA-12	1.25 hy.	11.00	HQB-9	7.5 hy.	21.00	HQE-2	10 mhy.	6.00
HQA-13	2. hy.	11.00	HQB-10	12. hy.	22.00	HQE-3	50 mhy.	7.00
HQA-14	3. hy.	13.00	HQB-11	18. hy.	23.00	HQE-4	100 mhy.	7.50
HQA-15	5. hy.	14.00	HQB-12	25. hy.	24.00	HQE-5	200 mhy.	8.00



FILTER CASE M
1 3/16 x 1 11/16,
1 5/8 x 2 1/2 High



These U.T.C. stock units take care of most common filter applications. The interstage filters, BMI (band pass), HMI (high pass), and LMI (low pass), have a nominal impedance at 10,000 ohms. The line filters, BML (band pass), HML (high pass), and LML (low pass), are intended for use in 500/600 ohm circuits. All units are shielded for low pickup (150 mv/gauss) and are hermetically sealed.

STOCK FREQUENCIES
(Number after letters is frequency)
Net Price $25.00

BMI-60	BMI-1500	LMI-200	BML-400
BMI-100	BMI-3000	LMI-500	BML-1000
BMI-120	BMI-10000	LMI-1000	HML-200
BMI-400	HMI-200	LMI-2000	HML-500
BMI-500	HMI-500	LMI-3000	LML-1000
BMI-750	HMI-1000	LMI-5000	LML-2500
BMI-1000	HMI-3000	LMI-10000	LML-4000
			LML-12000

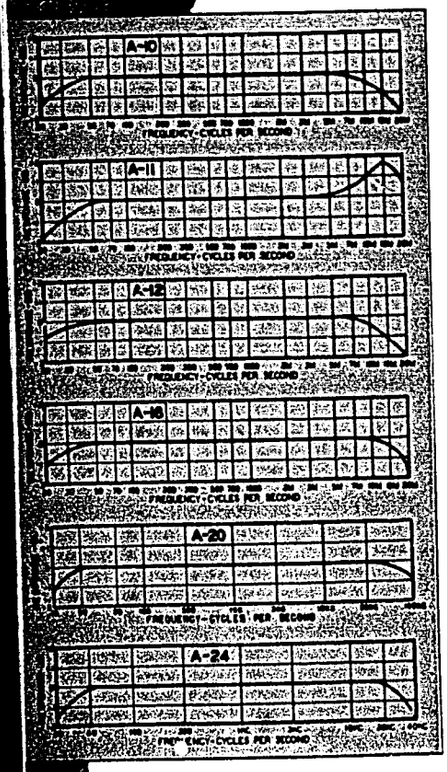
150 VARICK STREET NEW YORK 13 N Y
EXPORT DIVISION 13 EAST 40th STREET NEW YORK 16 N Y CABLES ARLAB

ULTRA COMPACT UNITS...OUNCER UNITS

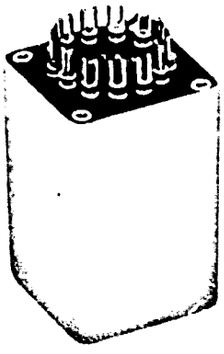
HIGH FIDELITY.... SMALL SIZE.... FROM STOCK

UTC Ultra compact audio units are small and light in weight, ideally suited to remote amplifier and similar compact equipment. High fidelity is obtainable in all individual units, the frequency response being ± 2 DB from 30 to 20,000 cycles.

True hum balancing coil structure combined with a high conductivity die cast outer case, effects good inductive shielding.



Type No.	Application	Primary Impedance	Secondary Impedance	List Price
A-10	Low impedance mike, pickup, or multiple line to grid	50, 125, 150, 200, 250, 333, 500, 600 ohms	50 ohms	$16.00
A-11	Low impedance mike pickup, or line to 1 or 2 grids, multiple shields for low hum pickup	50, 200, 500	50,000 ohms	18.00
A-12	Low impedance mike pickup, or multiple line to grids	50, 125, 150, 200, 250, 333, 500, 600 ohms	50,000 ohms overall, in two sections	16.00
A-14	Dynamic microphone to one or two grids	30 ohms	50,000 ohms overall, in two sections	17.00
A-20	Mixing, mike, pickup, or multiple line to line	50, 125, 150, 200, 250, 333, 500, 600 ohms	50, 125, 150, 200, 250, 333, 500, 600 ohms	16.00
A-21	Mixing, low impedance mike, pickup, or line to line, multiple shields for low hum pickup	50, 200, 250, 500, 600	200, 250, 500, 600	18.00
A-16	Single plate to single grid	15,000 ohms	50,000 ohms, 2:1 ratio	15.00
A-17	Single plate to single grid 8 MA unbalanced D C	As above	As above	17.00
A-18	Single plate to two grids Split primary	15,000 ohms	80,000 ohms overall, 2.3:1 turn ratio	16.00
A-19	Single plate to two grids 8 MA unbalanced D C	15,000 ohms	80,000 ohms overall, 2.3:1 turn ratio	19.00
A-24	Single plate to multiple line	15,000 ohms	50, 125, 150, 200, 250, 333, 500, 600 ohms	16.00
A-25	Single plate to multiple line 8 MA unbalanced D C	15,000 ohms	50, 125, 150, 200, 250, 333, 500/600 ohms	17.00
A-26	Push pull low level plates to multiple line	30,000 ohms plate to plate	50, 125, 150, 200, 250, 333, 500, 600 ohms	16.00
A-27	Crystal microphone to multiple line	100,000 ohms	50, 125, 150, 200, 250, 333, 500, 600 ohms	16.00
A-30	Audio choke 250 henrys @ 5 MA 6000 ohms D C	65 henrys @ 10 MA 1500 ohms D C		12.00
A-32	Filter choke 60 henrys @ 15 MA 2000 ohms D C	15 henrys @ 30 MA 500 ohms D C		10.00



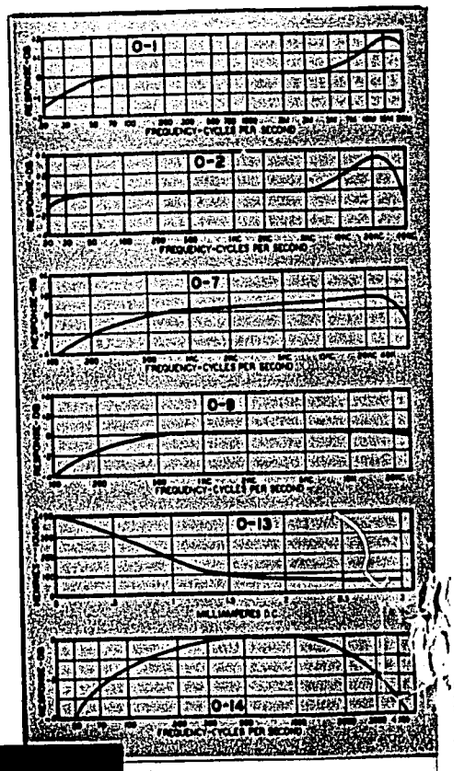
TYPE A CASE
1½" x 1½" x 2" high

UTC OUNCER components represent the acme in compact quality transformers. These units, which weigh one ounce, are fully impregnated and sealed in a drawn aluminum housing ⅞" diameter....mounting opposite terminal board. High fidelity characteristics are provided, uniform from 40 to 15,000 cycles, except for 0-14, 0-15, and units carrying DC which are intended for voice frequencies from 150 to 4,000 cycles. Maximum level 0 DB.



OUNCER CASE
⅞" Dia. x 1⅛" high

Type No.	Application	Pri. Imp	Sec. Imp	List Price
0-1	Mike, pickup or line to 1 grid	50, 200, 250, 500, 600	50,000	$14.00
0-2	Mike, pickup or line to 2 grids	50, 200, 250, 500, 600	50,000	14.00
0-3	Dynamic mike to 1 grid	7.5, 30	50,000	13.00
0-4	Single plate to 1 grid	15,000	60,000	11.00
0-5	Plate to grid, D.C. in Pri.	15,000	60,000	11.00
0-6	Single plate to 2 grids	15,000	95,000	13.00
0-7	Plate to 2 grids, D.C. in Pri.	15,000	95,000	13.00
0-8	Single plate to line	15,000	50, 200, 250, 500, 600	14.00
0-9	Plate to line, D.C. in Pri.	15,000	50, 200, 250, 500, 600	14.00
0-10	Push pull plates to line	30,000 ohms plate to plate	50, 200, 250, 500, 600	14.00
0-11	Crystal mike to line	50,000	50, 200, 250, 500, 600	14.00
0-12	Mixing and matching	50, 200, 250	50, 200, 250, 500, 600	13.00
0-13	Reactor, 300 Hys. no D.C., 50 Hys. 3 MA D.C.,		6000 ohms	10.00
0-14	50:1 mike or line to grid	200	½ megohm	14.00
0-15	10:1 single plate to grid	15,000	1 megohm	14.00



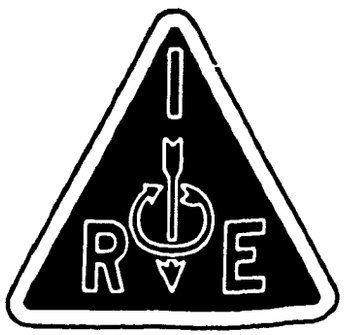
150 VARICK STREET • NEW YORK 13, N. Y.
EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y., CABLES: "ARLAB"

1952 IRE DIRECTORY INDEX TO ADVERTISERS

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1953

IRE DIRECTORY



A YEARBOOK CONTAINING

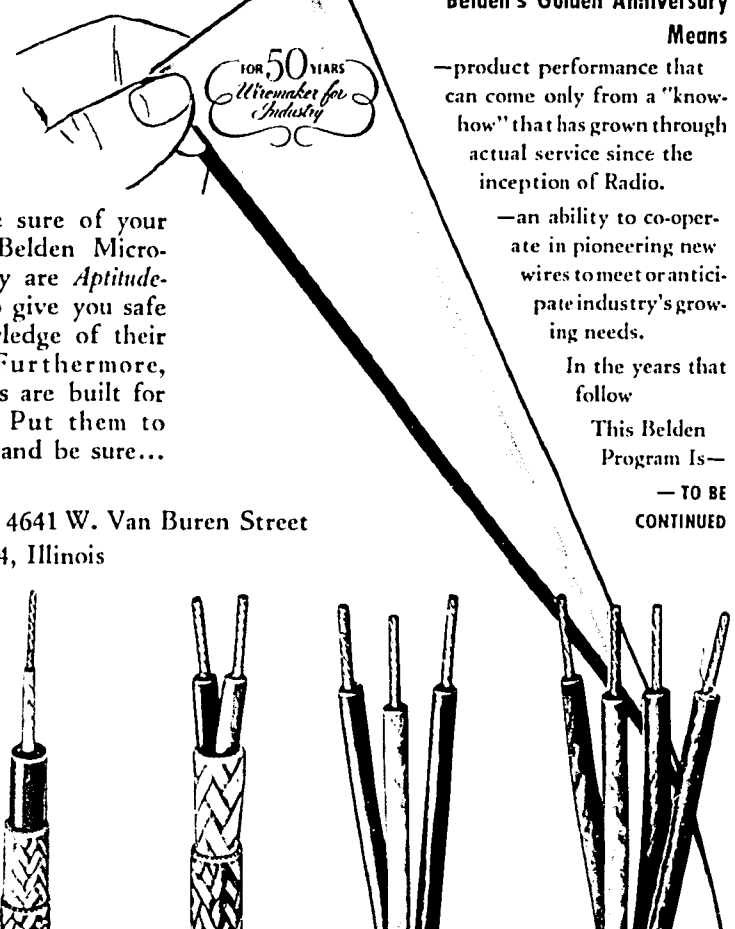
- A RADIO ENGINEERS' DIRECTORY
- A LIST OF FIRMS AND PRODUCTS

The Institute of Radio Engineers

Be Sure of Your Installations...Next Year

Use

Aptitude-Tested MIKE CABLE *Now!*



•Now, you can be sure of your installations with Belden Microphone Cables. They are *Aptitude-Tested* and rated to give you safe and complete knowledge of their characteristics. Furthermore, Belden Mike Cables are built for maximum service. Put them to work for you now—and be sure... specify Belden.

To You, Belden's Golden Anniversary Means

—product performance that can come only from a "know-how" that has grown through actual service since the inception of Radio.

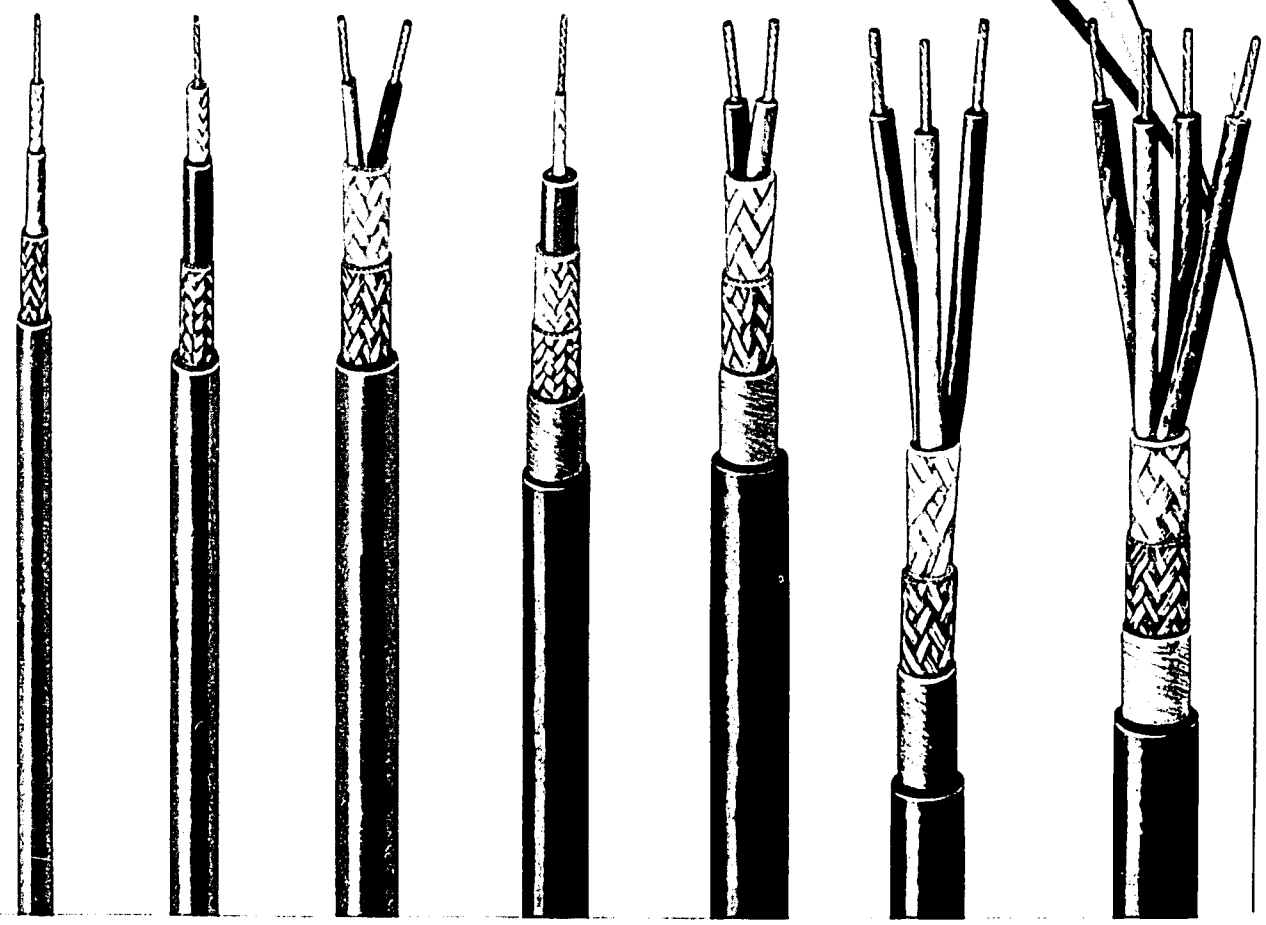
—an ability to co-operate in pioneering new wires to meet or anticipate industry's growing needs.

In the years that follow

This Belden Program Is—

—TO BE CONTINUED

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Chicago 44, Illinois



No. 8411
Nominal Capacitance 37 mmf per ft. Use particularly for lapel microphone.

No. 8401
Nominal Capacitance 25 mmf per ft. For crystal, ribbon, carbon microphones.

No. 8422
Nominal Capacitance 32 mmf per ft. Use specially for carbon microphones.

No. 8410
Nominal Capacitance 33 mmf per ft. For crystal, ribbon, carbon microphones.

No. 8412
Nominal Capacitance 68 mmf per ft. Use specially for carbon microphones.

No. 8423
Nominal Capacitance 54 mmf per ft. Use particularly for carbon microphones.

No. 8424
Use for interconnecting power cable for all electronic uses. Also microphone cable.

Belden *Radio* **WIRE**

Be Sure of Your Installations...Next Year Use

Aptitude-Tested

MIKE CABLE

Now!

FOR 50 YEARS *Wiremaker for Industry*

• Now, you can be sure of your installations with Belden Microphone Cables. They are *Aptitude-Tested* and rated to give you safe and complete knowledge of their characteristics. Furthermore, Belden Mike Cables are built for maximum service. Put them to work for you now—and be sure... specify Belden.

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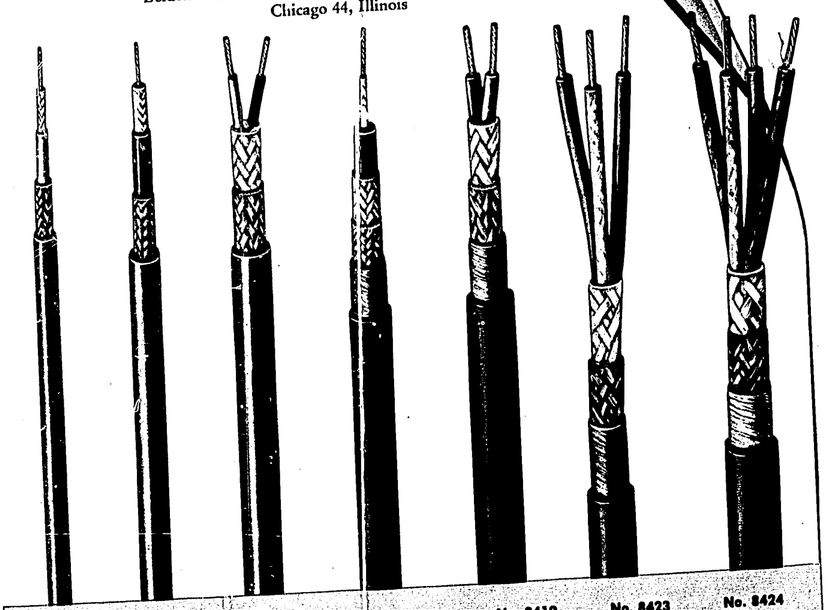
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