

INSTITUTIONAL LISTINGS

The IRE Professional Group on Microwave Theory and Techniques is grateful for the assistance given by the firms listed below, and invites application for Institutional Listing from other firms interested in the Microwave field.

COLLINS RADIO CO., Cedar Rapids, Iowa

Complete Industrial Microwave, Communication, Navigation and Flight Control Systems

HUGHES AIRCRAFT COMPANY, Culver City, California

Radar Systems, Guided Missiles, Antennas, Radomes, Tubes, Solid State Physics, Computers

MARYLAND ELECTRONIC MANUFACTURING CORPORATION, College Park, Md.

Development and Production of Microwave Antennas and Waveguide Components

MICRODOT, INC., South Pasadena, Calif.

Microminiature Coaxial Connectors, Cables, and Assemblies

MICROWAVE TUBE LAB., SYLVANIA ELECTRIC PRODUCTS, INC.

500 Evelyn Ave., Mountain View, Calif.

Traveling Wave Tubes, Backward Wave Oscillators (Helix and Oscillators), Klystrons

NATIONAL INSTRUMENT CO., INC., 23 E. 26 St., New York, N. Y.

Wide-Band Microwave Equipment, Simulated Flight Instruments, Lobe Switches, Custom Built Precision Apparatus

WEINSCHEL ENGINEERING CO. INC., Kensington, Md.

Attenuation Standards, Coaxial Attenuators and Insertion Loss Test Sets

WHEELER LABORATORIES, INC., 122 Cutter Mill Road, Great Neck, N. Y.

Consulting Services, Research & Development, Microwave Antennas & Waveguide Components

The charge for an Institutional Listing is \$50.00 per issue or \$140.00 for four consecutive issues. Applications for Institutional Listings and checks (made out to the Institute of Radio Engineers) should be sent to Mr. L. G. Cumming, Technical Secretary, Institute of Radio Engineers, 1 East 79th Street, New York 21, N. Y.

Call for Papers

1958 PGMTT NATIONAL SYMPOSIUM

The 1958 PGMTT National Symposium will be held on May 5-7 at Stanford University, Stanford, Calif. Authors should submit 100-word abstracts and 500-word summaries (*both in triplicate*) prior to January 15, to Dr. K. Tomiyasu, Chairman, Technical Program Committee, 601 California Avenue, Palo Alto, Calif.

1958 PGMTT NATIONAL SYMPOSIUM

The 1958 PGMTT National Symposium to be held on May 5-7 at Stanford University, Stanford, Calif., has been announced by the General Chairman, Dr. Arthur L. Aden. Papers covering the fields of microwave physics and applications, microwave components, and microwave techniques are solicited. Authors should submit 100-word abstracts and 500-word summaries (*both in triplicate*) prior to January 15, to Dr. Kiyo Tomiyasu, Chairman, Technical Program Committee, 601 California Avenue, Palo Alto, Calif.

NOTICE TO ADVERTISERS

Effective immediately the IRE TRANSACTIONS on Microwave Theory and Techniques will accept display advertising. For full details contact the Editor of these TRANSACTIONS.

STOCK DELIVERY

PROVEN...

RELIABILITY ✓

ECONOMY ✓

VERSATILITY ✓



Price \$1350
FOB Woodside, N. Y.

FXR Universal KLYSTRON POWER SUPPLY

Whether meter or millimeter measurements are contemplated, no microwave laboratory is complete without the FXR 'Z815B' Universal Klystron Power Supply. Unsurpassed for proven dependability and versatility, this supply incorporates the many qualities that have made FXR craftsmanship and 'know how' ...the standard in the industry.

FXR TYPE Z815B - SPECIFICATIONS

OUTPUT					MODULATION				
TYPE	VOLTAGE (volts)	CURRENT (milliamperes)	INTERNAL IMPEDANCE (ohms)	ADDITIONAL SPECIFICATIONS	TYPE	FREQUENCY RANGE (cps)	NOMINAL VOLTAGE (volts)	RISE TIME (microseconds, max.)	FALL TIME (microseconds, max.)
Beam	200 to 2000 1800 to 3600	0 to 125 0 to 100 to 2500V 250 W to 3600V	0.5 max. from 0 to 10,000 cps	Voltage Dial Accuracy: $\pm 1\%$ Resolution: 0.5 volts Regulation: 0.03% from 105 to 125 volts Ripple: 3 mv rms, max.	Square Wave	250 to 2500	0 to 200	1.0	1.0
Reflector	Negative 0 to 1000		1,000,000 min.		Pulsed Wave	1 to 10 microseconds pulse width	0 to 200	1.0	1.0
Control Grid	Positive 0 to 150 Negative 0 to 300	0 to 5	0 to 30,000	Regulation: 0.03% from 105 to 125 volts Ripple: 3 mv rms, max.	Sine Wave	line frequency	0 to 200		
Filament	6.3	3 amperes		Unregulated	Saw Tooth Wave	40 to 120	0 to 200	Variable	30
DIMENSIONS (inches)	Width: 21 3/4 Height: 15 3/4 Depth: 18	OVERLOAD PROTECTION	AC Line: Fuse, 8 amperes, (both sides of line) HV Line: Fuse, 4 amperes DC HV Line: Variable overload relay 25, 65, & 125 ma or as desired by user			POWER	105 to 125 volts, 50-60 cps, 300 to 800 watts		

Data subject to change without notice.



Electronics & X-Ray Division



Write Today...
for your new catalog of
Precision Microwave
Test Equipment.