

## 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.

AIRTRON, INC., 1101 W. Elizabeth Ave., Linden, N. J.  
Designers and Producers of Complete Line of Microwave, Electronic and Aircraft Components

COLLINS RADIO CO., Cedar Rapids, Iowa  
Complete Industrial Microwave, Communication, Navigation and Flight Control Systems

MICROWAVE DEVELOPMENT LABS., INC., 92 Broad St., Babson Park 57, Mass.  
Designers, Developers and Producers of Microwave Components and Assemblies, 400 mc to 70 kmc

SAGE LABORATORIES, INC., 159 Linden St., Wellesley 81, Mass.  
Microwave Engineering Specialists

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 Tore N. Anderson, PGMTT Advertising Editor, 1539 Deer Path, Mountainside, N.J.

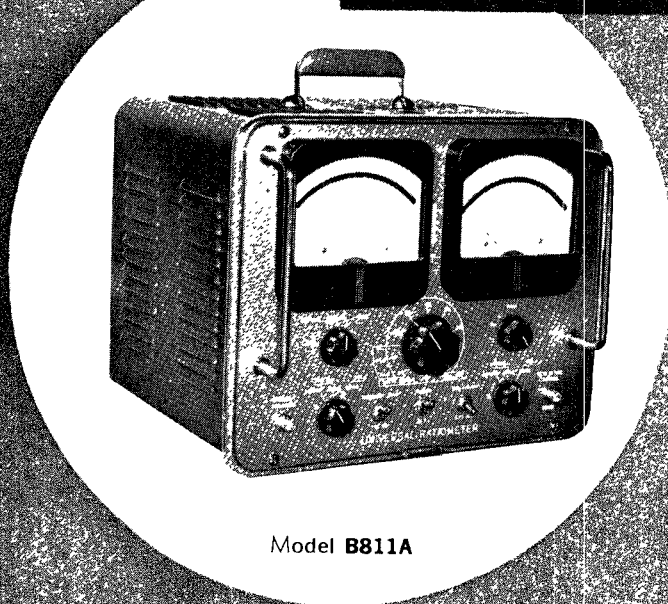
### NOTICE TO ADVERTISERS

Effective immediately the IRE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES will accept display advertising. For full details contact Tore N. Anderson, Advertising Editor, PGMTT TRANSACTIONS, 1539 Deer Path, Mountainside, N. J.



*New...*

# UNIVERSAL RATIOMETER



Model B811A

**NOW IN ONE  
COMPACT PACKAGE  
TWO INSTRUMENTS**

FXR's — B811A Universal Ratiometer combines, at less cost, the many features of a separate ratiometer and standing wave amplifier.

- COMPACT PACKAGE — PRINTED WIRING CONSTRUCTION
- INCREASED SENSITIVITY FOR MORE ACCURATE REFLECTOMETER MEASUREMENTS
- TWO CYCLE PRECISION LOG METER — VSWR REFLECTOMETER READINGS OF 1.02 TO  $\infty$  ON ONLY TWO SCALES
- VSWR, DB AND  $\Gamma$  SCALES ELIMINATE CONVERSION TABLES
- BUILT-IN INPUT TRANSFORMERS — NO ACCESSORIES REQUIRED
- EXPANDED VSWR SCALES AND FULL 70 DB STANDING WAVE AMPLIFIER OPERATION
- CRYSTAL AND BOLOMETER OPERATION



*Accessories for reflectometer measurements also available . . . Write for details.*

**FXR, Inc.** formerly F-R MACHINE WORKS, Inc.

DESIGN • DEVELOPMENT • MANUFACTURE

26-12 BOROUGH PLACE, WOODSIDE 77, N. Y.

TELEPHONE: AStoria 8-2800



PRECISION  
MICROWAVE  
EQUIPMENT

HIGH POWER  
MODULATORS

RADAR  
COMPONENTS

ELECTRONIC  
TEST  
EQUIPMENT