

GENERAL PURPOSE LINEAR AMPLIFIER

# TMA-350



TM-350 (in center) SHOWN WITH TM-125 TRANCEIVER  
AND POLE MOUNT ATU-350

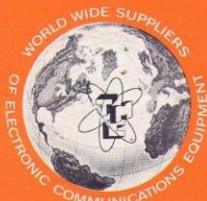
The TMA-350 linear amplifier, when driven by a previous transmitter capable of 50 watts PEP drive, will provide up to eight instantly selectable channels each with power outputs in excess of 350 watts peak. It is an ideal amplifier to be used with the TM-125 transceiver which supplies both the drive and the total number of channels required.

Information for channel change is supplied to the TMA-350 by means of a multiple socket located on the rear deck in the automated version. The newly designed 8875 tube is used in the final. Fan cooled and cathode driven, it is protected with a heat sensor to prevent over-dissipation. In addition, a simple switching technique enables the amplifier to be switched in or out of the amplification chain. The output of the amplifier nominally 50 ohms, will match the input of the ATU-350 antenna tuning unit allowing at the front panel completely automated tuning through to the antenna.

Adjustment to the various channel frequencies is simple accomplished from the top of the amplifier. When used with the companion TM-125 transceiver the tuning elements are pre-set and ready for immediate operation as the appropriate channel is selected.

The entire amplifier is mounted in a 5½ X 14-inch cabinet that is 16 inches deep. On special order it can be mounted on a 5¼-inch panel in a standard 19-inch relay rack.

Revised 1 May 1973



THE TECHNICAL MATERIEL CORPORATION

AND SUBSIDIARIES



## TECHNICAL SPECIFICATIONS

### FREQUENCY INFORMATION

#### Range

1.6 to 26 MHz  
1.6 to 30 MHz OPTIONAL

### OPERATING PARAMETERS

#### Modes

CW/AM/AME/USB/LSB/ISB

#### Input Signal

Between 30 and 50 watts avg

#### Input Impedance

50 ohms nominal, unbalanced

#### Power Output

50 ohms nominal single ended

#### VSWR Rating

Will match 2:1 VSWR

#### Tuning

8-channel, manual control  
Automated switching OPTIONAL

#### Metering

Indications of relative power  
output and plate current.

#### Safety Features

Plate overload to protect final  
tube; heat sensor

#### Front Panel Control

CHANNEL SELECT  
AC ON/OFF  
HV ON/STAND-BY  
MULTIMETER SWITCH  
INDICATOR LAMPS

### DISTORTION AND NOISE

#### Intermodulation

Distortion products are min. 30db below  
either tone of a standard two tone test  
at full rated PEP output

#### Harmonic Suppression

Second Harmonics  
Min. 40db below full PEP output  
Third and Higher Harmonics  
Min. 50db below full PEP output  
Filters available for added rejection

#### Hum and Noise

Min. 40db below full PEP output

### ENVIRONMENTAL AND INSTALLATION

#### Operating Conditions

0 to +50°C, up to 90% relative humidity,

#### Cooling

Fan with heat sensors,

#### Primary Power

115/230 VAC, 50/60 Hz, single phase

#### Size and Weight

5½" high X 14" wide X 16" deep  
Approximately 35 lbs (in Cabinet)

#### Added Features

Mating RF connectors  
Power cable  
CAB-20 equipment cabinet  
Two copies of Instruction Manual

### OPTIONAL ACCESSORIES

Model ATU-350 Antenna Tuner  
Forward/reflected Power Meter



We reserve the right to  
make engineering changes

## THE TECHNICAL MATERIEL CORPORATION

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