

A-150

ENI BROADBAND POWER AMPLIFIER

DESCRIPTION

The Model A-150 is a completely solid state RF power amplifier, capable of providing more than 150 Watts of linear power and up to 250 Watts of CW and pulse power from .3 to 35 MHz. The amplifier operates over its entire frequency range without bandswitching or other adjustments.

A highly linear class A design, the Model A-150 will amplify inputs of AM, FM, SSB, pulse and other complex modulations with minimum distortion. Flat gain response permits the unit to be driven to its full power output by virtually all commercial signal and sweep generators.

Although most power amplifiers are designed to deliver their rated power into a matched load, their gain and power output may be severely degraded by load mismatch. The Model A-150 is designed to provide a constant forward power, regardless of output load impedance. Power reflected due to mismatch is absorbed in the units output circuitry.

Output RF voltage level as well as power output into 50 ohms is monitored by a front panel meter. An integral power supply permits operation directly from the AC line.

SPECIFICATIONS

Frequency Coverage: 0.3 MHz to 35 MHz

Gain: 55 dB, ± 1 dB variation

Max. Class A Linear Power Output: 150 watts

Harmonic Distortion: 2nd harmonic more than 35 dB below fundamental at 150 watts output. 3rd harmonic more than 25 dB below fundamental at 125 watts. Lower at reduced power.

Max. CW and Pulse Power Output: 250 watts

Input/Output Impedance: 50 ohms

Input VSWR: Less than 1.5

Output VSWR: Less than 2

Noise Figure: 10 dB maximum

Stability: Unconditionally stable; unit will not oscillate for any condition of load and source impedance.

Typical 3rd Order Intermodulation Intercept Point: + 61 dBm

Protection: Unit will withstand more than 16 dB over drive (input signal of 1 VRMS) for all output load conditions.

Output Meter: Average reading volt meter calibrated in RMS volts for a sine wave with an accuracy of $\pm 3\%$ of full scale also calibrated in watts into 50 ohms.

Power Requirements: 115/230 Vac $\pm 6\%$, -12% 50-60 Hz, 950 watts.

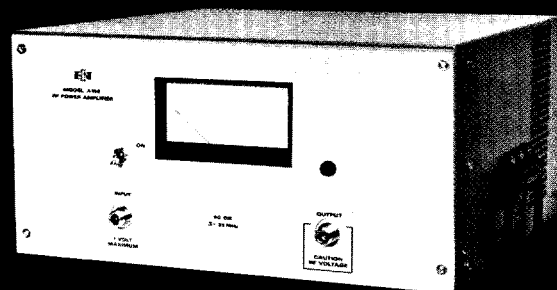
Operating Temperature: 0° to $+40^\circ\text{C}$

Size: 8.75 x 17 x 17 in.
22.2 x 43.2 x 43.2 cm

Weight: 59 lbs; 26.8 kg.

Connectors: Type N.

Rack Mounting: Adaptors provided



- **All Solid State**
- **Flat .3 to 35 MHz**
- **150 Watts Linear Power**
- **Up to 250 Watts Pulse and CW**
- **Portable**
- **Failsafe**
- **Works into Any Load Impedance**