

510 L

ENI BROADBAND POWER AMPLIFIER

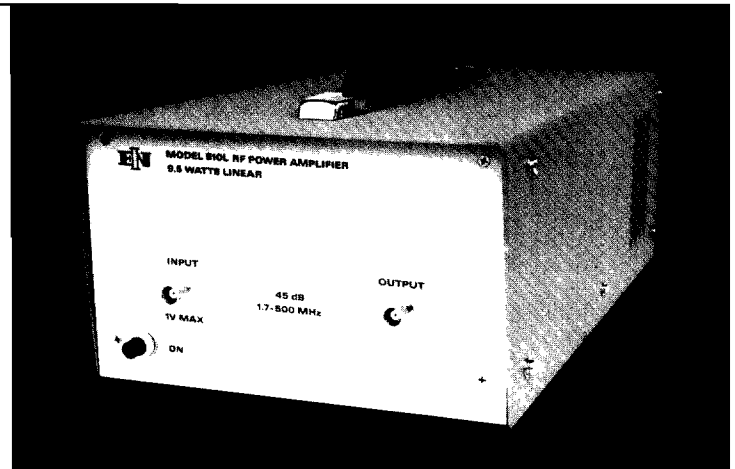
DESCRIPTION

The Model 510L is a general purpose broadband amplifier capable of more than 9.5 watts of linear power output when driven by any laboratory signal or sweep generator from 1.7 to 500 MHz.

An ultra linear Class A design, the 510L will "boost" the output of any signal source by a flat 45dB and provide its full forward output power into any load impedance (from an open to a short circuit)

Its output is a faithful reproduction of the input waveform for AM, FM, SSB, CATV, pulse and other complex modulations. Although specified only over the 1.7 to 500 MHz frequency range, full power output is typically available from 1.3 to 515 MHz.

The use of microwave transistors on thin film substrates, microstrip circuitry, and plug-in modules make the 510L both reliable and easy to service. An integral power supply and cooling system permit operation over a wide range of temperature and AC line conditions.



- All Solid State
- Flat 1.7 to 500 MHz
- 1.3 to 515 MHz Usable Coverage
- 9.5 Watts Linear Output
- 45dB Gain
- Microelectronic Construction

SPECIFICATIONS

Frequency Coverage:	1.7 to 500 MHz	Stability:	Unconditionally stable; unit will not oscillate for any condition of load and source impedance.
Gain:	45dB nominal	Protection:	Unit will withstand more than 16dB over drive (input signal of 1 V rms) for all output load conditions.
Gain Variation:	± 1.5dB below 1 watt; ± 2dB below 9.5 watts	Power Requirements:	115/230 VAC ± 10%, 50-60 Hz, at 200 watts
Maximum Linear Power Output:	More than 9.5 watts	Size:	5¼ x 8½ x 15 in. 13.3 x 21.6 x 38.1 cm.
Harmonic Distortion:	All harmonics greater than 20dB below the fundamental at 9.5 watts output. Lower distortion at reduced power.	Weight:	18 lbs. 8.2 kg.
Typical 3rd Order Intermodulation Intercept Point:	+49dBm	Operating Temperature:	0° to 45°C
Input/Output Impedance:	50 ohms	Output Connector:	BNC standard. SMA and type N optional
Input VSWR:	1.5 Maximum	Rack Mounting:	Adaptors provided
Output VSWR:	2.6 Maximum		
Noise Figure:	11dB		