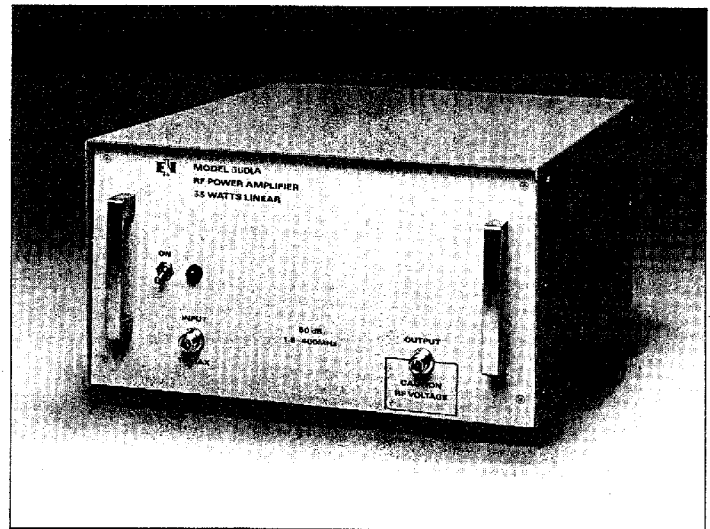




440LA POWER AMPLIFIER

A Broadband,
High Frequency
Power Source For
Communications,
Industrial, & Lab
Applications



GENERAL INFORMATION

The Model 440LA is a general purpose broadband amplifier capable of more than 35 watts of linear power output when driven by any laboratory signal or sweep generator from .15 to 300 MHz.

An ultra linear Class A design, the 440LA will "boost" the output of any signal source by a flat 45 dB (± 1.5 dB) 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 .15 to 300 MHz frequency range, full power output is typically available from .12 to 310 MHz.

The microwave transistors on thin film substrates, microstrip circuitry, and plug-in modules make the 440LA 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.



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DATA SUMMARY

Frequency Coverage:	.15 to 300 MHz
Gain:	45 dB nominal
Gain Variation:	± 1.5 dB
Maximum Linear Power Output:	More than 35 watts
Harmonic Distortion:	All harmonics greater than 25 dB below the fundamental at 35 watts output. Lower distortion at reduced power.
Input/Output Impedance:	50 ohms
Input VSWR:	1.4 Maximum
Output VSWR:	2.0 Maximum
Stability:	Unconditionally stable
Typical 3rd Order Intermodulation Intercept Point:	+55 dBm
Noise Figure:	11 dB
Power Requirements:	115/230V a.c. $\pm 10\%$ 50-60 Hz, at 560 watts
Size and Weight:	8.6 x 17.2 x 19.7 inches, 53 lbs. 21.8 x 43.7 x 50.5 cm, 24 Kg.
Operating Temperature:	0° to 45°C
Protection:	Unit will withstand a +16 dB overdrive (1 volt RMS) for all output load conditions, including short and open circuits.
Output Connectors:	Type "N" standard, SMA and type BNC optional
Rack Mounting:	Adaptors provided