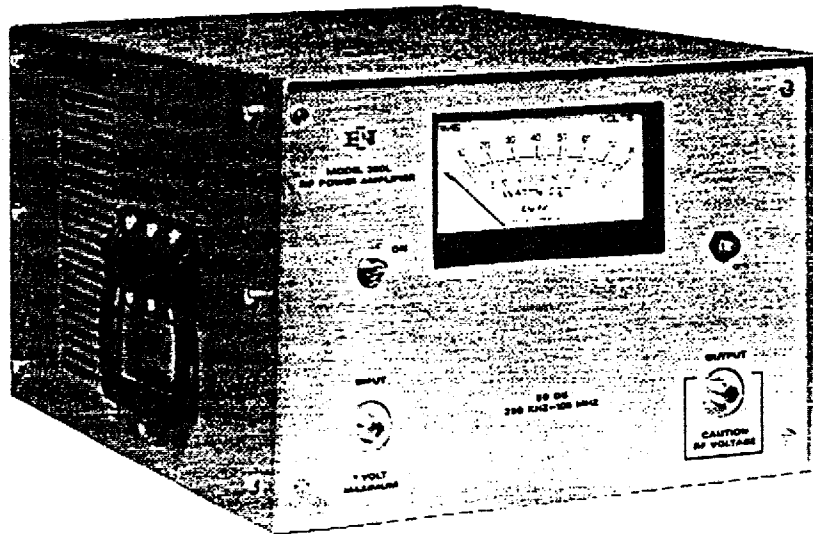


350 L BROADBAND POWER AMPLIFIER



The ENI Model 350L is an all solid state amplifier which has a flat frequency response from 250 kHz to 105 MHz. It provides 50 watts of linear power with low harmonic and intermodulation distortion. Gain is 50 dB nominal, with a variation of less than ± 1.5 dB over the entire frequency range. Input and output impedance are 50 ohms and the unit may be driven to full power output by most RF synthesizers, signal generators and swept signal sources.

The ENI Model 350L will deliver its rated power output into any load impedance, regardless of match. Built-in protection circuitry will absorb the power reflected from a mismatched load without causing failure or oscillation.

Output RF voltage is displayed on the front panel meter. The Model 350L is packaged for bench mounting and is shipped with rack mounting adapters. Its integral power

supply and cooling operate from a 115 or 230 VAC 50/60Hz main supply.

The Model 350L will raise the power level of signal sources and generators without requiring tuning or band-switching. The Class A linear circuitry will amplify signals of AM, FM, SSB, TV and complex modulations limited only by their peak input and bandwidth with minimum distortion.



350L Specifications

FREQUENCY COVERAGE:	120 kHz to 120 MHz
GAIN:	50 dB nominal
GAIN VARIATION:	<u>+1.5 dB from 250 kHz to 105 MHz</u>
MAXIMUM POWER OUTPUT:	More than 50 watts from 250 kHz to 105 MHz. More than 25 watts from 120 kHz to 250 kHz and 105 MHz to 120 MHz
HARMONIC DISTORTION:	All harmonics 25 dB or more, below fundamental, at 40 watts output; 250 kHz to 105 MHz.
2 nd ORDER DISTORTION	More than 30 dB down, at full output
TYPICAL 3 rd ORDER INTERMODULATION INTERCEPT POINT:	+56 dBm
INPUT/OUTPUT IMPEDANCE:	50 ohms
INPUT VSWR:	Less than 1.5
OUTPUT VSWR:	Less than 2.0, 250 kHz to 80 MHz; less than 3.0, 80 MHz to 120 MHz (typical)
NOISE FIGURE:	Less than 10 dB
STABILITY:	Unconditionally stable, unit will not oscillate for any condition of load and source impedance
PROTECTION:	Unit will withstand up to 16 dB of overdrive (input signal of 1 volt RMS) for all output load conditions, including short and open circuit loads
OUTPUT METERING:	Average reading voltmeter calibrated in RMS volts for a sine wave, with an accuracy of <u>+3%</u> of full scale (0-80 volts): also calibrated in watts into 50 ohms (0-120 watts)
POWER REQUIREMENTS:	115/230 VAC \pm 10%, 50-60 Hz, 550 watts
OPERATING TEMPERATURE:	0° to +45°C
SIZE:	8-3/4 x 12 x 17 inches
WEIGHT:	42.5 Lbs.
CONNECTORS:	BNC Standard, Type N Optional