50 Watts RF Power

For:
- Ultrasonic
- Testing
- Laboratory use
  - 250 KHz to 150 MHz
  - Instantaneous Bandwidth
  - 50 W 1dB Compression
  - Solid State
  - Air Cooled

The 350L Amplifier is a rugged source of RF power, useful for RFI/EMI, HF and VHF transmitters, plasma equipment, nuclear accelerators and general laboratory applications. The 350L represents E&I’s commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

FLEXIBILITY:

The 350L produces 50 Watts of class A linear power output over the entire frequency range from 250 KHz to 150 MHz. It has very low harmonic distortion along with low IMD products. Operation over the band is achieved without the need for any band switching or indeed any adjustments. The power gain is rated at 50 dB with a typical gain flatness of +/- 1.5 dB

The 350L is compatible with most signal generators, frequency synthesizers, sweep generators and other laboratory signal sources. It accurately reproduces all waveforms within its power and frequency ranges: AM, FM, SSB, pulsed and other complex modulation schemes.

RUGGEDNESS:

The 350L is built to withstand a 13 dBm input (1.0 Volt RMS) for any VSWR load condition. The internal switched mode power supply is very conservatively rated, in order to facilitate operation over a large range of line conditions and temperatures. The forced air cooling provides for low internal temperatures, providing long term reliability. The RF power is delivered by rugged LDMoS FETs, de-rated to provide for excellent MTBF figures.
Class of Operation
Class A

Frequency Range
250 KHz to 150 MHz

Rated Power Output
50 Watts (P1dB)

Saturated Power Output
> 90 W
Max power software limit set at 75 W

Gain
47 dB (nominal)

Gain Flatness
+/- 1.5 dB

Input Power for rated Pout
1 mW

Input Impedance / VSWR
50Ω / 1.5:1 maximum

Output Impedance / VSWR
50Ω / 1.25:1 maximum

Harmonic Level
< -23dBc

Ruggedness
∞:1 VSWR

Stability
Unconditional into any passive linear or reactive load.

Protection
Input: Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR. If reflected power exceeds 70 Watts unit will shut down and require re-set.

Front Panel Meter
Front panel indicates forward and reflected power

Third Order Intercept Point
IP3 ~ 59 dBm

AC Input
100 – 240 VAC 47-63 Hz.
6 A @ 120 V
3 A @ 240 V

Temperature Range
0 – 40 C

Cooling
Forced air

Weight
20 lbs (9 Kg)

Dimensions (H x W x D)
6.75 x 9.88 x 17 inches
171.5 x 251 x 432 mm