



550L POWER AMPLIFIER

50 Watts
RF Power
For:

- UHF Amplifier
- Component Testing
- Laboratory use

- 1.5 MHz to 400 MHz
- Instantaneous Bandwidth
- Operates into any load
- Solid State
- Air Cooled



The 550L Amplifier is a broad band rugged source of RF power, useful for RFI/EMI, power meter calibration, laser modulation and general laboratory applications. The 550L amplifier represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

FLEXIBILITY:

The 550L produces 50 Watts of class A linear power output over the frequency range from 1.5MHz to 350 MHz. with a power gain of 50 dB. 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, with a typical gain flatness of +/- 2.5 dB and a 3rd order intercept point of +59dBm

The 550L 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 550L 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.



1387 Brighton Henrietta Townline Rd.
Rochester, NY 14623
Tel: (585) 214 0598
Fax: (585) 214 0580
www.eandiltd.com

550L POWER AMPLIFIER

Class of Operation

Class A

Frequency Range

1.5 MHz to 400 MHz

Rated Power Output

50 Watts (P1dB) 1.5 – 350 MHz
35 Watts (P1dB) 350 – 400 MHz

Saturated Power Output

>70 W 1.5 – 350 MHz
>40 W 350 – 400 MHz

Gain

50 dB (nominal)

Gain Flatness

+/- 2.5 dB

Input Power for rated Pout

0.5 mW

Input Impedance / VSWR

50Ω / 1.8:1 maximum

Output Impedance / VSWR

50Ω / 1.8:1 maximum

Harmonic Level

< -20dBc

Ruggedness

∞:1 VSWR

Stability

Unconditional into any passive load.

Protection

Input: Unit will withstand input signal of +13 dBm without damage (1.0 V rms max.) an infinite load VSWR.

Front Panel

Input and Output ports
On/Off Switch

Third Order Intercept Point

IP3 ~ 59 dBm

AC Input

104 – 240 VAC 47-63 Hz.
7 A @ 120V
3.5 A @ 240 V

Temperature Range

0 – 40 C

Cooling

Forced air.

Weight

~40 lbs (18 Kg)

Dimensions

(H x W x D)
8.8" x 17.4" x 20.0"
222.8 mm x 441.3 mm x 508.1 mm



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