



## 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 entire frequency range from 1.5MHz to 400 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 +/- 1.5 dB and a 3<sup>rd</sup> 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.



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# 550L POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

1.5 MHz to 400 MHz

## Rated Power Output

50 Watts (P1dB)

## Saturated Power Output

>70 W

## Gain

50 dB (nominal)

## Gain Flatness

+/- 2.5 dB

## Input Power for rated Pout

1 mW

## Input Impedance / VSWR

50Ω / 1.8:1 maximum

## Output Impedance / VSWR

50Ω / 1.8:1 maximum

## Harmonic Level

< -23dBc

## 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

85 – 264 VAC 47-63 Hz.

## Temperature Range

0 – 40 C

## Cooling

Forced air.

## Weight

~40 lbs (18 Kg)

## Dimensions

8.5 x 16.5 x 18.1 (H x W x D)



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