



## 525LA POWER AMPLIFIER

25 Watts  
RF Power  
For:

- UHF Amplifier
- Component Testing
- Laboratory use
  
- 1 MHz to 400 MHz
- Instantaneous Bandwidth
- Operates into any load
- Solid State
- Air Cooled



The 525LA Amplifier is a broad band rugged source of RF power, useful for RFI/EMI, power meter calibration, laser modulation and general laboratory applications. The 525LA amplifier represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

### FLEXIBILITY:

The 525LA produces over 20 Watts of class A linear power output over the entire frequency range from 1MHz 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 +56dBm

The 525LA 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 525LA 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](http://www.eandiltd.com)

# 525LA POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

1 to 400 MHz

## Rated Power Output

25 Watts (P1dB) 1-300 MHz

18 Watts (P1dB) 300-400 MHz

## Saturated Power Output

35 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 / 1.5:1 maximum

## Harmonic Level

< -25dBc

## 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 ~ 56 dBm

## AC Input

104 – 240 VAC 47-63 Hz.

6 A @ 120 V

3 A @ 240 V

## Temperature Range

0 – 40 C

## Cooling

Forced air.

## Weight

~30 lbs (16 Kg)

## Dimensions

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



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