



## 210L POWER AMPLIFIER

10 Watts  
RF Power  
For:

- Ultrasonic
  - Testing
  - Laboratory use
- 
- 15 KHz to 12 MHz
  - 10 W 1dB Compression
  - Compact Design
  - Solid State
  - Air Cooled



The 210L Amplifier is a rugged source of RF power, useful for ultrasonics, laser modulation, RFI/EMI, plasma equipment and general laboratory applications. The 210L represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

### FLEXIBILITY:

The 210L produces 10 Watts of Class A linear power output over the entire frequency range from 15 KHz to 12 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 40 dB with a typical gain flatness of +/- 1.5 dB

The 210L 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 210L 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 DMoS FETs, de-rated to provide for excellent MTBF figures.

# 210L POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

15 KHz to 12 MHz

## Rated Power Output

10 Watts (P1dB)

## Gain

40 dB (nominal)

## Gain Flatness

+/- 1.5 dB

## Input Power for rated Pout

1 mW / 0 dBm

## Input Impedance / VSWR

50Ω / 1.5:1 maximum

## Output Impedance / VSWR

50Ω / 2:1 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. and infinite load VSWR

## Third Order Intercept Point

IP3 ~ 56 dBm

## AC Input

100 - 240 VAC 47-63 Hz.

## Temperature Range

0 – 40 C

## Cooling

Forced air

## Weight

8.5 lbs (3.9 Kg)

## Dimensions

(H x W x D)

3.25" x 13.5" x 12.0"

82.55 x 342.9 x 304 mm



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