



## M-2200 RF AMPLIFIER MODULE

200 Watts  
RF Power  
For:

- Medical
  - Industrial
  - Lab Use
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- 10 KHz – 12 MHz
  - Solid State Reliability

The M-2200 module is a rugged source of RF power for ultrasonics, induction heating and laser modulation. It is a totally solid state solution employing RF DMoS FETs in the power amplification. The M-2200 reflects E&I's commitment to reliable and robust RF power.

### **Flexible Operation:**

The M-2200 produces over 200 Watts of linear class A power over a frequency range of 10 KHz to 12 MHz, with a nominal power gain of 20 dB ( $\pm 1.5$ dB). Operation over the entire frequency range is possible without the need for any switching.

# M-2200

## POWER AMPLIFIER MODULE

### Class of Operation

Class A

### Frequency Range

10 KHz – 12 MHz

### Rated Power Output

200 Watts

### Saturated Power Output

300 Watts from 30 KHz – 10 MHz

### Power Gain

20 dB nominal

### Gain Flatness

+/- 1.5 dB

### Input Power for Rated Output

2 W / 33 dBm

### Input Impedance / VSWR

50  $\Omega$  / 1.5:1 max

### Output Impedance / VSWR

50  $\Omega$  / 2:1 max

### Ruggedness

Any load VSWR, any phase from open to short circuit without damage.

### Protection:

INPUT: unit will withstand up to +40dBm input without damage into 50 Ohms. Unit can be shipped with an optional thermal sensor.

### Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 30 Vpp into 50  $\Omega$

### Temperature Range

0 – 45<sup>o</sup> C

### Power Requirements

42 VDC  
20 Amps @ 200 Watts

### Dimensions

(H x W x D)  
5" x 12" x 12"  
127 x 305 x 305 mm



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