



M-1020-T POWER AMPLIFIER

200 Watts
RF Power
For:

- Medical
 - Industrial
 - Lab Use
-
- 10 KHz – 5 MHz
 - Solid State Reliability



The M-1020-T module is a rugged source of RF power for ultrasonics, induction heating and laser modulation as well as plasma applications. It is a totally solid state solution employing RF DMoS FETs in the power amplification stages. The M-1020-T reflects E&I's commitment to reliable and robust RF power.

Flexible Operation:

The M-1020-T produces over 200 Watts of quasi linear class AB power over a frequency range of 10 KHz to 5 MHz, with a nominal power gain of 53 dB (+/-1.5dB). Operation over the entire frequency range is possible without the need for any switching.

M-1020-T POWER AMPLIFIER

Class of Operation

Class AB

Frequency Range

10 KHz – 5 MHz

Rated Power Output

200 Watts

Saturated Power Output

300 Watts from 30 KHz – 4 MHz

Power Gain

53 dB nominal

Gain Flatness

+/- 1.5 dB

Input Power for Rated Output

1.0 mW or 0 dBm

Input Impedance / VSWR

50 Ω / 1.5:1 max

Output Impedance / VSWR

50 Ω / 2:1 max

Ruggedness

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

Protection:

INPUT: unit will withstand up to +13dBm input without damage.

Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 0.65 Vpp into 50 Ω

Temperature Range

0 – 45^o C

Power Requirements

42/24 VDC

10/2 Amps @ 200 Watts

Dimensions

(H x W x D)

4.7" x 4.0" x 9.7"

118.4 x 100 x 246 mm



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