



15M30 AMPLIFIER MODULE

15 Watts RF Power Module

- 2 to 30MHz
- 15 W
- Compact Design
- Solid State



The 15M30 Amplifier Module is a rugged source of RF power. The compact module is a three stage RF amplifier it represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

FLEXIBILITY:

The 15M30 produces 15 Watts of Class A linear power output over the entire frequency range from 2 to 30 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 15M30 accurately reproduces all waveforms within its power and frequency ranges: AM, FM, SSB, pulsed and other complex modulation schemes.

RUGGEDNESS:

The 15M30 is built to withstand a 13 dBm input (1.0 Volt RMS). The RF power is delivered by rugged LDMoS FETs, de-rated to provide for excellent MTBF figures.

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Class of Operation

Class A

Frequency Range

2 to 30 MHz

Rated Power Output

15 Watts

Gain

40 dB (nominal)

Gain Flatness

+/- 1.5 dB

Input Power for rated Pout

1.5 mW / 1.76 dBm

Input Impedance / VSWR

50 Ω / 1.5:1 maximum

Output Impedance / VSWR

50 Ω / 2:1 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.

Third Order Intercept Point

IP3 ~ 56 dBm

DC Input

24 V 4.0 Amps max at 15 W.

Temperature Range

0 – 40 C Max

Cooling

Unit must be mounted to a heat-sink.
Heat-sink must be maintained at 40C

Weight

~1.0 lbs (0.5 Kg)

Dimensions

(H x W x D)
1.7" x 4.4" x 7.9"
41.5 x 111 x 199 mm



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