

micomRM4000



4000W POWER AMPLIFIER

*Exceptional transmission purity and
stability for highly reliable
HF communications*



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4000 Watt Power Amplifier

Designed to work with Micom HF radio transceivers, the MicomRM4000 power amplifier delivers the most reliable radio communications for a wide range of operational applications.

With its strict precision design, the fully solid-state amplifier features the latest and most advanced technology, providing exceptional linearity, efficiency and operating dependability for HF radio voice and data communications.



The micomRM4000 Power Amplifier provides users with essential benefits and features

Built-In-Test (BIT) monitors internal conditions of the amplifier's transistors upon request

Automatic bypass backup

Manual bypass selection

Automatic step-down levels

BIT RS232 interface protection:

- Amplifier module current imbalance
- Out-of-band frequency input
- Short and Open RF output
- Input overdrive
- Under voltage
- High VSWR
- Over-current
- High temperature

Specifications:

Frequency range: 1.6–30 MHz
 Power output: 4000 watts PEP and average (± 0.5 dB); with VSWR less than or equal to 1.3:1; Complies with MIL-STD-188-141
 Power input: 20 Watts nominal; 100mW PEP, 0mW average for rated power output
 Supply AC voltage: 90–264 VAC, 47–63% (single phase)
 Input impedance: 50 Ohm
 3rd Order IMD: >36dB below PEP
 RF Noise: At least 75 dBc/Hz below a 4kW output reference level
 Harmonic Emissions: -60 dBc
 Spurious Emissions: 60 dBc or better within $\pm 5\%$ of the operating frequency. At least -80 dBc beyond $\pm 5\%$ from the operating frequency.
 Harmonic Levels: -55 dBc or better at rated power into a 50 ohm load
 Frequency Change Time: 10 ms maximum between any two frequencies.
 Frequency switching: Tuning process (100 msecT max between switching channels)
 T/R switching: 10 msec maximum

R/T switching: 10 msec maximum
 Rx bypass mode: Rx/Tx switch, active at receive
 Environment:
 Temperature: -10°C to +60°C
 Humidity: 0–95% relative humidity non-condensing.
 Dimensions:
 610 mm (W) x 1773 mm (H) x 550 mm (D)
 24.0 inch (W) x 69.8 inch (H) x 21.6 inch (D)
 Weight: 220 Kg / 484 Lbs
 Cooling: Forced air-internal fans.
 Power Supply: Built in
 AC Line Input: 3 phase, 47–63 Hz 190–250 VAC or 342–418 VAC or 375–456 VAC
 Indicator LEDs: Included
 Input RF: N type connector
 Output RF: N type connector
 Control/Monitor: D type 25 pins connector (including PTT, BIT, VSWR, Incident power, Tune mode, on/off)
 Control: RS-232 serial bus ALC to the external exciter BIT parameter via serial bus
 Redundancy: power supply (2 modules) 2 amplifiers 1000 each

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