Micom RM1200

Power Amplifer

1 KW Amplifier

Designed to work with Micom HF radio transceivers, the Micom RM1200 power amplifier delivers the most reliable communications for a wide range of operational applications.

With it's 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.

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Power Amplifer

Maximum Durability and Communication Reliability

- Conservatively rated circuits deliver full power, hour after hour, for voice, CW and data (RTTY, ARQ, PACKET) service
- The amplifier circuitry is designed for the rapid switching inherent in ARQ operation. Reliability of ARQ systems is further improved by the stronger signal from a 1 KW amplifier
- 100% solid state, modular design - MOS-FET power transistors in interchangeable and field replaceable 300 modules - consumes less power than tube amplifiers and allows for easy servicing
- Antenna mismatch protection prevents amplifier damage and spurious energy in case of an extreme antenna mismatch
- With Failsoft operation, dual power supplies and parallel amplifier modules maintain operation at reduced power even in the unlikely event of total failure, allowing uninterrupted communications
- Built-in protective circuitry ensure amplifier is not damaged during abnormal conditions

Options

- Rack 19"
- 18 DBB1 for interface with other radios

User-friendliness

- Full compatibility with all Micom radios allows maximum flexibility in systems designs. Amplifier can also ope rate with an existing system
- Broadband design provides fully automatic tuning and adjustments
- Current and Power meters allow for easy monitoring.
- Remote control panel offers convenient amplifier operating and control
- Controller board incorporating a 16-bit micro processor centralizes all sensory status information and controls the amplifier's band selection, autotuner operation, maintenance and protective functions
- Built-in-Test Equipment for exceptional amplifier dependability

Bite RS232 Interface Protection

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

Electrical

Power output	1200 W PEP
	1000 W average
	(±0.5 dB) into 1.5:1 VSWR
	4:1 VSWR - min 50% power
Frequency range	1.6-30 MHz
Power input	20 Watts nominal
	(0 dBm option)
Harmonic emission	-60 dBc
Frequency switching	Tuning process (100 msecO max
	between switching channels)
Input impedance:	50 Ohm
T/R switching:	10 msec maximum
R/T switching	10 msec maximum
Rx bypass mode	Rx/Tx switch, active at receive

Environmental

Temperature	-10°C to +60°C
Humidity	95% @ 50°C
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)

Features

19 inch rack mountable

Supply AC voltage	90-264 VAC, 47-63% (single phase)
Redundancy	power supply (2 modules)
	2 Amplifiers 600 each
	125 Watt from the micom

Automatic bypass backup
Manual bypass selection
Automatic step-down power levels

Specifications

Model	FLN3175
to be used with transceivers	micomRM125, model: M91AMN0KV5-K & G638
	micomRM125R, model: M95AMN0KV5-K & G638

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