mobatmicom
best radio for worst events

## Product Information

# micomRM1200

**1 KW Amplifier**

Designed to work with Micom HF radio transceivers, the MicomRM 1200 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.

*micomRM 1200*

**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 operate 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

**SPECIFICATIONS**

| | |
|---|---|
| Model | FLN3175 |
| to be used with transceivers | **micomRM125,** model: M91AMN0KV5-K & G638<br>**micomRM125R,** model: M95AMN0KV5-K & G638 |

**Electrical**

| | |
|---|---|
| Power output | 1200 W PEP<br>1000 W average<br>(±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

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