

The MILMEGA RF Series 80 - 1000 MHz Solid State Amplifier Range

The MILMEGA RF Series broadband amplifiers have an innovative cable free motherboard which combines with the latest GaN transistor technology for exceptional, proven reliability. Amplifier control via IEEE, Ethernet, USB or RS232 is a standard feature. A safety interlock connector is provided via a rear panel D connector. Front panel indicators provide information on the operational status of the unit.

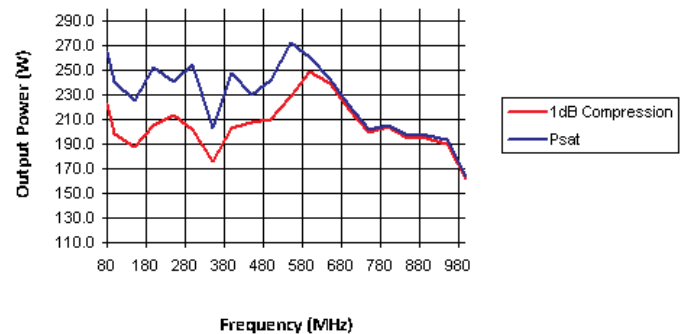
80RF1000-175, 175 Watt P1dB, 80 -1000 MHz Broadband Amplifier

Power 80-1000MHz

Psat (min):	155 W
Psat (min)	51.9 dBm
P1dB (min):	150 W
P1dB (min):	51.7 dBm
Noise figure (max):	10.0 dB
Gain variation:	± 3 dB

Harmonic distortion
(max) at 150W -15dBc

Power consumption:	2000 VA Max
Primary Power:	100-240 V (47-63Hz)
RF Input:	Type N female
RF Output:	Type N female
Weight:	22 kg
Size:	3U



Class leading linearity and noise specifications

- IP3 typically 8 dB> P1 dB
- Spurious (max) -70dBc
- Spurious (typical) -80 dBc

Reliable power

- Unbeatable power density
- RF Series will maintain forward power into any load condition, without damage
- 100% tested into exceptional load conditions

High visibility status and power indicators

- Operational status of the amplifier clearly displayed on front panel

Other features

- Remote operation possible via IEEE, USB, Ethernet or RS232 as standard
- All data is measured at 25 °C driven from a 50 R source and driving into a 50 R load
- Input power (for rated output) -7 dBm typical
- Input power (no damage) +15 dBm
- Input VSWR (impedance 50 R nominal) 2:1 max
- Output VSWR (impedance 50 R nominal) 2:1 typical
- Load VSWR (any phase) is infinite
- Run Cool mechanical design
- Operating temperature (ambient air) 0 to 40 °C
- Storage temperature -40 to 70 °C.

Built-in protection

- Extensive internal monitoring protects the amplifier
- Unit incorporates an interlock function which disables RF output when activated

Easily rack mounted

- Amplifiers are standard 3U high units and may be combined in rack mounted form to build higher power amplifiers

Warranty

- 5 years parts and labour warranty on all RF Series amplifiers

Other amplifiers available in the 80 - 1000 MHz range:

- 80RF1000-250 – 250 watt
- 80RF1000-500 – 500 watt
- 80RF1000-1000 – 1000 watt



Designers and Manufacturers of High
Power Microwave and RF Amplifiers

