

The MILMEGA RF Series 200 - 1000 MHz Solid State Amplifier Range

The MILMEGA RF Series broadband amplifiers have an innovative modular design which utilises the latest Silicon Carbide and MMIC technologies. An architecture with unique features and benefits differentiates the MILMEGA RF Series from other solid state amplifiers, permitting an impressive array of price/performance options and cost-effective power upgrades.

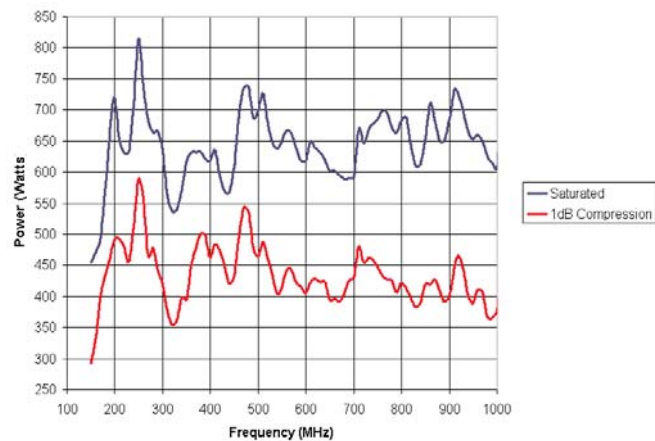
RF500, 500 Watt Psat, 200 -1000 MHz Broadband Amplifier

Psat (min):	500 W
Psat (min)	57.0 dBm
P1dB (min):	355 W
P1dB (min):	55.5 dBm
Noise figure (max):	10.0 dB
Gain variation:	± 2.5 dB
Harmonic distortion (max)*:	-13dBc

* at P1dB

Power consumption:	4400 VA Max
Primary Power:	3 Phase, 5 wire. 173-415V (-15% +10%)*
	47-63Hz
RF Input:	Type N female
RF Output:	7/16th female
Weight:	55 kg
Size:	12U

* Other configurations are available, please contact MILMEGA for further details



Class leading linearity and noise specifications

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

Max power

- Unbeatable power density
- RF Series will maintain forward power into any load condition, without foldback
- Combiner/coupler integration as standard allows samples of incident and reflected power to be measured with virtually no loss
- 100% tested into short and open circuit
- Up to 250 watts in a single 3U unit
- Consistent over multi-octave bandwidths
- Broadband CW power output to >1 kW

High visibility status and power indicators

- RF Series incorporate colour led bar graph displays on the front panel giving an indication of incident and reflected power

Other standard features

- 15 way rear mounted D-type allowing remote operation via TTL commands whilst providing access to an output signal sample
- 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) 0 dBm
- 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
- Line input frequency 47-65 Hz
- Operating temperature (ambient air) 0 to 40 °C
- Storage temperature -40 to 70 °C.

Built-in protection

- Internal temperature monitoring facilitates shut down if excessive temperatures are reached
- 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

Bench models

- 3U high units have bench case options

Warranty

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

Other amplifiers available in the 200 -1000 MHz range:

Model	Output Power (Psat min)
• RF250	250 watt
• RF800	800 watt
• RF1000	1000 watt