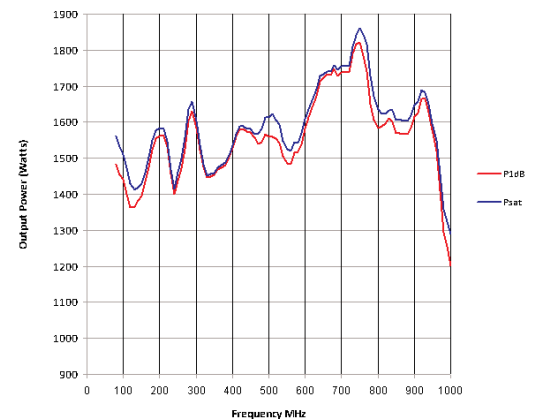


The MILMEGA RF Series 80 - 1000 MHz Solid State Amplifier Range

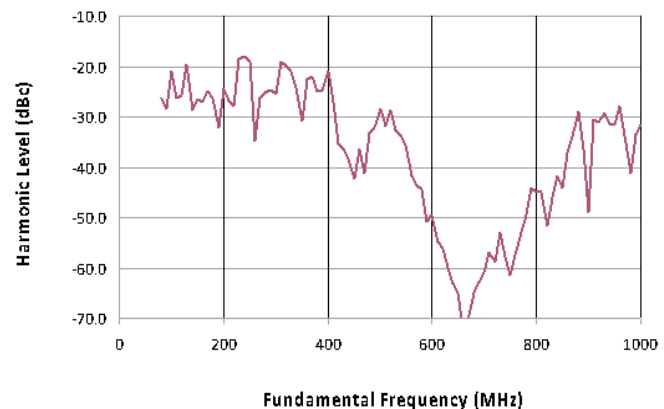
The MILMEGA RF Series broadband amplifiers have an innovative cable free motherboard which combines with the latest GaN transistor technology for exceptional, proven reliability. Amplifier control via IEEE, Ethernet, USB or RS232 is a standard feature. A safety interlock connector is provided via a rear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

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

| | | | |
|---------------------|-----------|---|--|
| Psat (min): | 1100 W | Harmonic distortion (typ) at P1dB (min) | - 20 dBc |
| Psat (min): | 60.41 dBm | Power consumption: | 9000 VA Max |
| P1dB (min): | 1000 W | Primary Power: | 3 Phase (Star or Delta) 173 - 415 V (47 - 63 Hz) |
| P1dB (min): | 60.0 dBm | RF Input: | Type N female |
| Noise figure (max): | 10.0 dB | RF Output: | 7/16th female |
| Gain variation: | ± 3.5 dB | Weight: | 195 kg |
| | | Size: | 18U |



Harmonic Distortion @ P1dB (min)



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
- Combiner/coupler integration as standard allows samples of incident and reflected power to be measured with virtually no loss
- 100% tested into exceptional load conditions

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
- 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 P1dB min) +5 dBm max
- 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. Contact your local Sales Office for details.

Warranty

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



Other amplifiers available in the 80 - 1000 MHz range:

- 80RF1000-175 – 175 watt
- 80RF1000-250 – 250 watt
- 80RF1000-500 – 500 watt



Designers and Manufacturers of High
Power Microwave and RF Amplifiers



MILMEGA Limited Park Road, Ryde, Isle of Wight, PO33 2BE United Kingdom
Tel. +44 (0) 1983 618004 Fax. +44 (0) 1983 811521 sales@milmega.co.uk www.milmega.co.uk