

## The MILMEGA '80RF' Series Solid State Amplifier Range

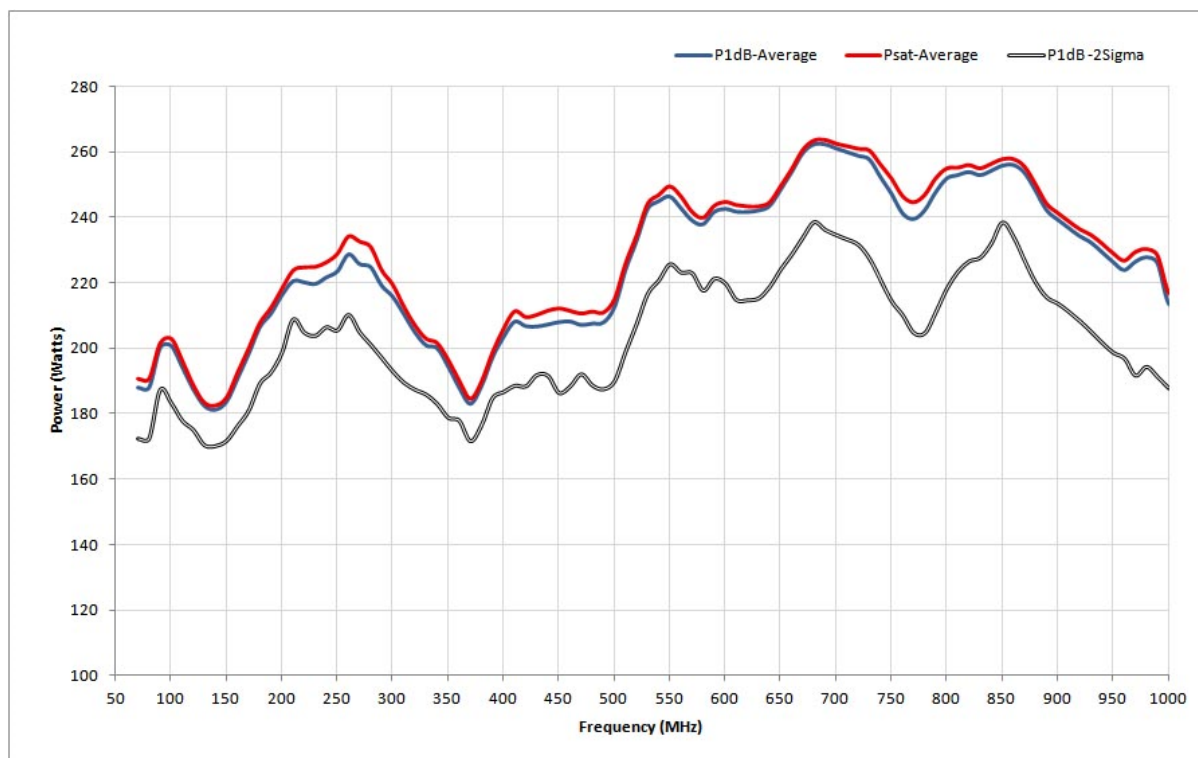
### Model: 80RF1000-175 Broadband Amplifier



- GPIB, RS232, USB and Ethernet remote fitted as standard.
- The unique 5 year parts and labour warranty on all MILMEGA amplifiers.

The 80RF series of solid state power amplifiers follows the MILMEGA tradition for compact, upgradeable microwave power amplifier solutions with field proven reliability. Developed to cover the frequency band 80 - 1000 MHz in a single band.

Designed specifically for EMC testing this mismatch tolerant amplifier delivers continuous power into a poor and variable match typically associated with EMC antenna. Although antenna are usually well matched, the presence of the EUT in the path of the antenna causes high levels of reflected power which the high breakdown voltage of the GaN (Gallium Nitride) devices can handle with ease.



# Amplifier Specification

80 to 1000 MHz	<i>Minimum Psat</i>	<i>Minimum P1dB</i>	
Power	170 W	170 W	
<i>System Parameters</i>	<i>Nominal</i>	<i>Minimum</i>	<i>Maximum</i>
Harmonics at P1dB	-20 dBc		-15dBc
Gain	62 dB	58 dB	70dB
Gain variation with frequency			+/- 3.5 dB
Noise figure	10.0 dB		
Input Power (no damage)			+10 dBm
Output VSWR tolerance	Infinite any phase		
Stability	Unconditional		
Output impedance	50 Ohm		
Output VSWR	2:1		
Input VSWR	2:1		
Third order intercept point IP3	8dB > P1dB		
Spurious	-80 dBc		
Safety interlock	Via rear panel D-sub connector		
Supply Voltage	100 to 240 VAC		
Supply Frequency	47 to 63 Hz		
Supply Power	1.5 kVA (typical full power)		
RF Input	Type N female		
RF Output	Type N female		
Dimension	19 inch, 3U case, 582mm Deep		
Weight	22 kg		

Amplifiers that meet today's and tomorrow's needs through upgradability. Amplifiers in this family include the 80RF1000-175, 80RF1000-300, 80RF1000-500 and 80RF1000-1200 with the MILMEGA Modularity, Upgrade path and 5 Year Warranty.

Note : Upgrade is only possible up to the highest power model currently available



Specifications subject to change without notice. MILMEGA is an ISO accredited Company. Products are designed and manufactured under strict quality and environmental requirements of ISO 9001.



**RF/Microwave Amplifiers**

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