AMETEK®
COMPLIANCE TEST SOLUTIONS

MILMEGA
RF/Microwave Amplifiers

The MILMEGA 'AS' Series 2000 Dual Band Class A Solid State Microwave Amplifier Range

Model: AS0860A-200/100
200 Watt & 100 Watt 1.0 GHz - 6.0 GHz
Dual Band Broadband Amplifier
Two bands (0.8 to 2.7 and 2.0 to 6.0 GHz)

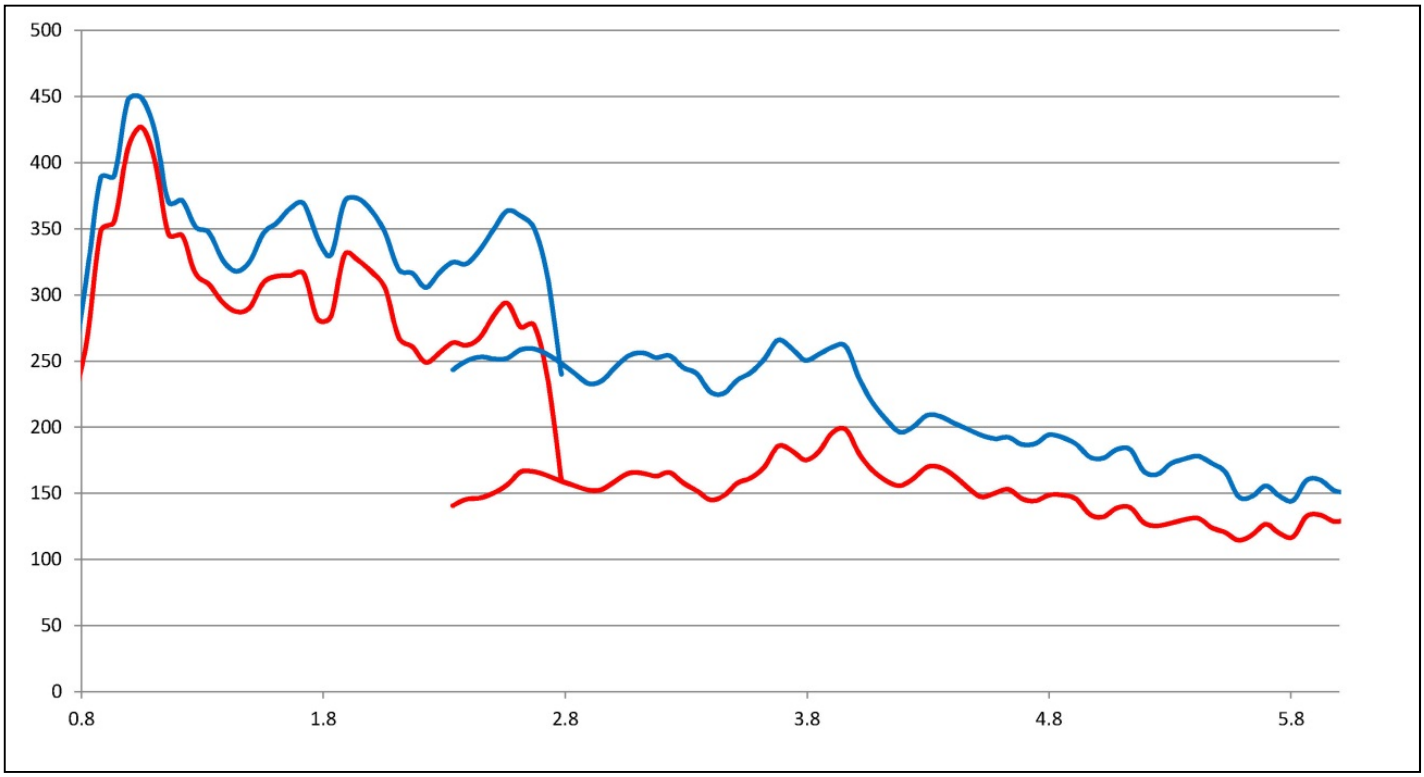
The AS0860 series of solid state power amplifiers follows the MILMEGA tradition for compact, upgradeable microwave power amplifier solutions with field proven reliability. Developed to cover the frequency band 0.8 - 6.0 GHz in two bands (0.8 GHz to 2.7 GHz and 2.0 GHz to 6.0 GHz).

Integral directional coupler fitted as standard.

Either RS232, USB and Ethernet or RS232 and GPIB remote controls can be fitted at no additional cost.

The unique 5 year parts and labour warranty on all MILMEGA amplifiers.

Colour led bar graph displays on the front panel giving an indication of incident and reflected power.



P1dB Psat

Amplifier Specification

Power Performance

	Minimum Psat	*Minimum P1dB*
Power 0.8-2.7 GHz	250 W	200 W
Power 2.0-6.0 GHz	125 W	90 W

	Typical	*Maximum*	
Harmonics at P1dB	-20 dBc		
0.8-2.7 GHz Gain	49.6 dB		
2.0-6.0 GHz Gain	45.6 dB		
Gain variation with frequency	+/- 3 dB		
Gain variation with temperature	<0.06 dB/°C		
0.8-2.7 GHz Noise figure		6.0 dB	
2.0-6.0 GHz Noise figure		8.0 dB	
Input Power (no damage)		+15 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	10 dB > P1dB		
Spurious	80 dBc	70 dBc	
Safety Interlock	Via rear panel D-sub connector		
Supply Voltage – 3 Phase	Delta or Star		
Supply Voltage – Single phase	90 – 132 OR 180-240 VAC +/- 10% (5 mains leads)		
Supply Frequency	47 to 63 Hz		
Supply power		4.5 kVA	Theoretical maximum power.
RF Input	Type N female		
RF Output	Type N female		
Dimensions	19 inch, 15U amplifier mounted in 16U case, 776mm Deep		
Weight	140 kgs		

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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.

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