

The MILMEGA 'AS' Series Dual Band Class A Solid State Amplifier for Automotive Radar Pulse Testing

**Model: AS0102R-1500
Broadband Amplifier**

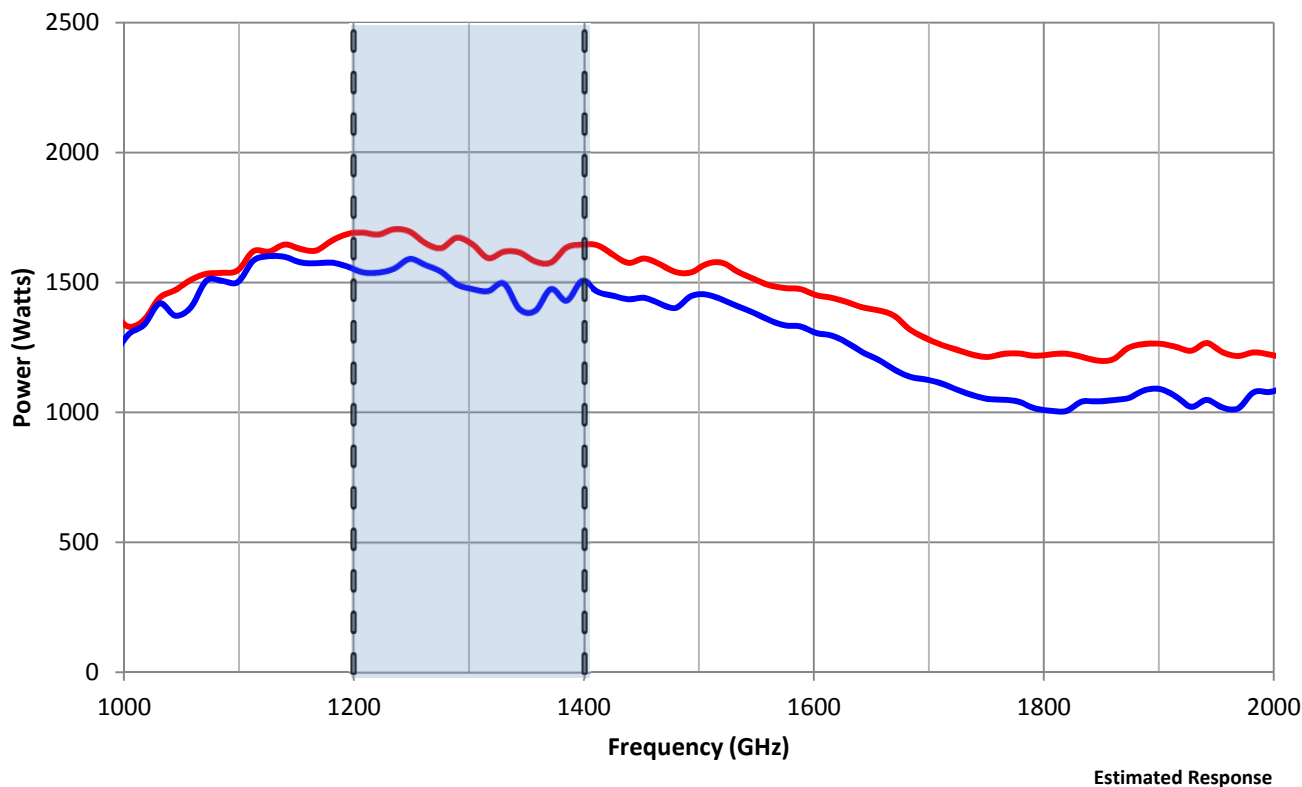


The AS0102 series of solid state power amplifiers follows the MILMEGA tradition for compact, upgradeable microwave power amplifier solutions with field proven reliability. Developed to cover the frequency band 1.0 - 2.0 GHz.

This amplifier is specially tuned and specified in the automotive radar band in order to guarantee at least 1500 watts of usable power in the 1.2-1.4GHz range.

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.



Amplifier Specification

1.2-1.4GHz	<i>Minimum Psat</i>	<i>Minimum P1dB</i>
Power (As highlighted on graph)	1500 W	1350 W
Gain	61.2 dB	
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1.0-2.0GHz		
Power	1000 W	800 W
Gain	61.2 dB	
Noise figure		6.0 dB
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<i>System Parameters</i>	<i>Typical</i>	<i>Maximum</i>
Harmonics as Saturation	-20 dBc	
Gain variation with frequency	+/- 2 dB	
Gain variation with temperature	<0.06 dB/°C	
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	10dB > P1dB	
Spurious	80 dBc	
Safety interlock	Via rear panel D-sub connector	
Supply Voltage - 3 Phase	Delta or Star	
Supply Frequency	47 to 63 Hz	
Supply Power	12 kVA (full Power)	
RF Input	Type N female	
RF Output	7/16 th female	
Dimension	19 inch, 25U case, 800mm Deep	
Weight	240 kgs	

Amplifiers in family include models ranging from 30W up to 1500W with the MILMEGA Modularity, Upgrade path and 5 Year Warranty.
Amplifiers that meet today's and tomorrow's needs through upgradability.



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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