

## MILMEGA 'AS' Series Solid State Amplifier Range

### Model: AS0104-700/300 Dual Band Amplifier

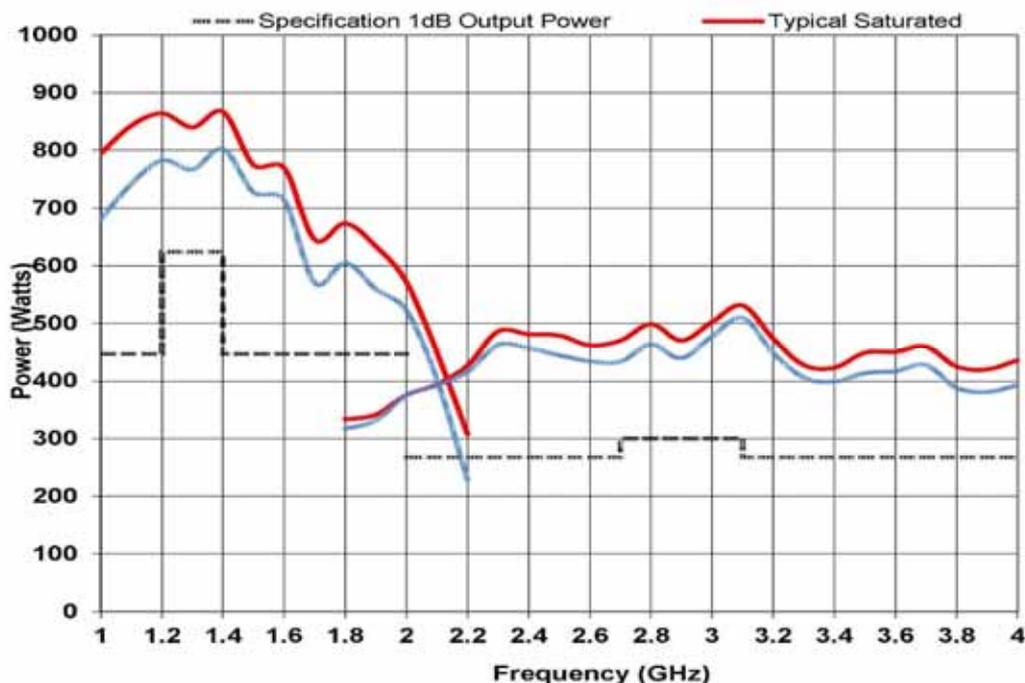


The AS0104 series of solid state power amplifiers follows the MILMEGA tradition for compact, upgradeable microwave power amplifier solutions with field proven reliability, excellent linearity and low harmonics

The amplifier is designed with upgradability in mind. If more power is required this amplifier can be integrated with further additional units to achieve power levels up to 400 watts.

The unit is powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is air-cooled with integral fans, and is protected against faulty cooling by excess temperature sensing. A safety interlock connector is provided, which the user can short circuit to ground, to put the amplifier into standby mode. Front panel indicators are provided to indicate over-temperature and RF interlock condition.

- Mismatch tolerant and unconditionally stable
- High reliability GaAs transistor technology
- Calibrated Dual Directional Coupler fitted as standard
- Ethernet, USB and RS232 or GPIB and RS232 included in price
- Unique 5 year parts and labour warranty on all MILMEGA amplifiers.



# Amplifier Specification

<i>Radar Dependant Parameters</i>	1.2 to 1.4GHz	2.7 to 3.1GHz
Psat (min)	700W	300W
P1dB (min)	624W	267W
<i>Band Dependant Parameters</i>		
	1.0 to 2.0GHz	2.0 to 4.0GHz
Psat (min)	652W	300W
P1dB (min)	501W	267W
Gain (min)	53.95dB	50.27dB
Gain Variation (max)	+/- 2.0dB	+/- 2.0dB
Harmonics at P1dB	-20dBc	-20dBc
Third order intercept point IP3	10dB> P1dB	10dB> P1dB
Noise figure	6.0dB	8.0dB
<i>System Parameters</i>		
Input Power (no damage)	+15 dBm	
Output VSWR tolerance	Infinite	
Stability	Unconditional	
Output impedance	50 Ohm	
Output VSWR	2:1 (typical)	
Input VSWR	2:1	
Spurious	-70 dBc (min) -80 dBc (typical)	
Safety interlock	Via rear panel mounted BR2-female	
Supply Voltage - 1 Phase	90 to 132 or 180 to 240 VAC	
Supply Frequency	47 to 60 Hz	
Supply Power (Band 1)	3.7 KVA (typical full power)	
Supply Power (Band 2)	3.2 KVA (typical full power)	
RF Input	Type N female	
RF Output	7/16 female	
Dimension	19 inch, 25U Rack 776mm Deep	
Weight	220 kg	

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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