

MILMEGA 'AS' Series Solid State Amplifier Range

Model: AS0102-65 Broadband Power Amplifier

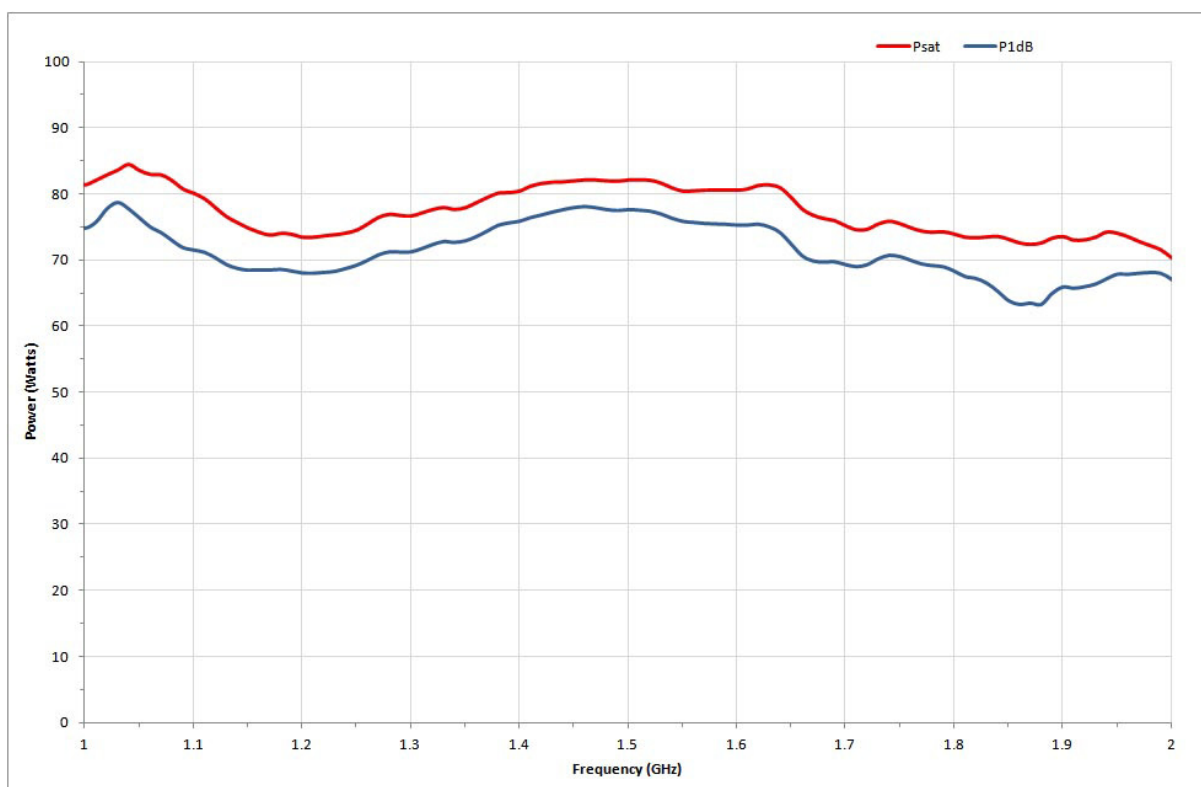


- Mismatch tolerant and unconditionally stable
- High reliability GaAs transistor technology
- Calibrated Dual Directional Coupler fitted as standard
- Ethernet, USB and RS232 or GPIB and RS232 included in price
- Unique 5 year parts and labour warranty.

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 - 2GHz this GaAs based amplifier produces high power with excellent linearity and low harmonics.

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.



Amplifier Specification

| | |
|---------------------------------|---------------------------------|
| Frequency Range | 1 to 2GHz |
| Psat (min) | 69 W |
| P1dB (min) | 63W |
| Gain (min) | 48dB |
| Gain Variation (max) | +/- 1.0dB |
| Harmonics at P1dB | -20 dBc |
| Third order intercept point IP3 | 10dB > P1dB |
| 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 |
| Spurious | -70 dBc (min) -80 dBc (typical) |
| Noise figure | 8.0 dB |
| Safety interlock | Via rear panel D-sub connector |
| Supply Voltage - 1 Phase | 85 to 264 VAC |
| Supply Frequency | 47 to 63 Hz |
| Supply Power | 0.3kVA (typical full power) |
| RF Input | Type N female |
| RF Output | Type N female |
| Dimension | 19 inch, 3U 527mm Deep |
| Weight | 15 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

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