

THE NEW GLOBAL POWER FOR
ELECTROMAGNETIC COMPATIBILITY.

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AMETEK[®]
COMPLIANCE TEST SOLUTIONS

MILMEGA

RF/Microwave Amplifiers

MILMEGA 'AS' Series Solid State Amplifier Range

Model: AS0104-100/100 Dual Band Amplifier

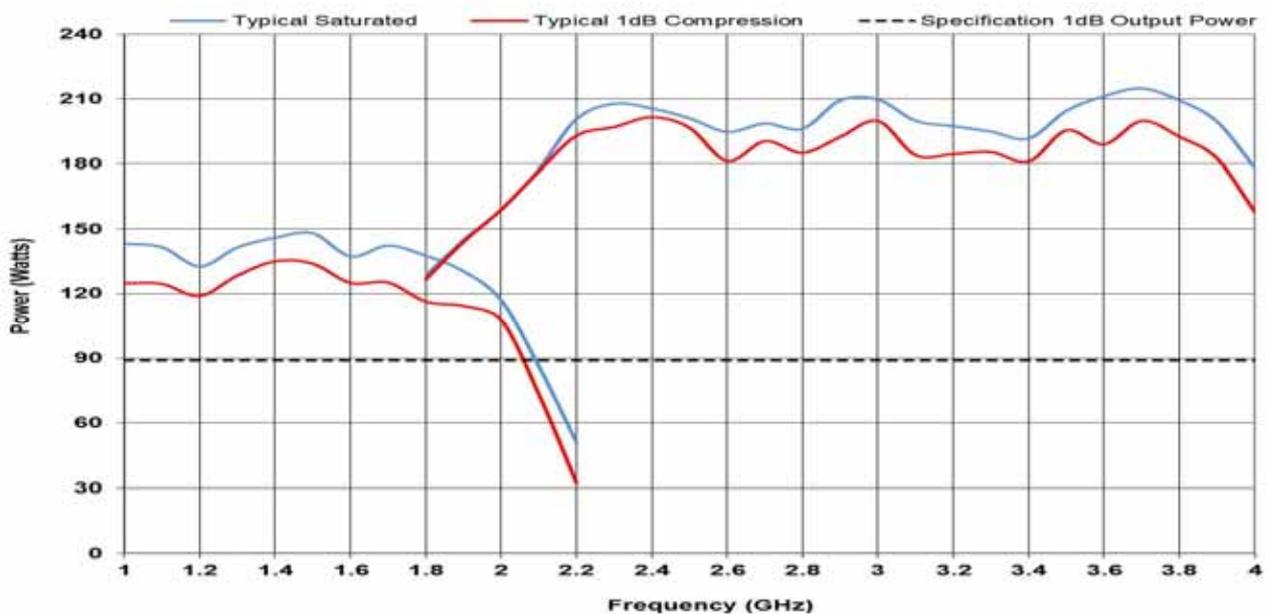


- Mismatch tolerant and unconditionally stable
- High reliability GaAs transistor technology
- Calibrated Dual Directional Coupler fitted as standard
- Ethernet, USB and RS232 or GPIB and RS232 included in price
- Unique 5 year parts and labour warranty on all MILMEGA amplifiers.

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.



Amplifier Specification

| <i>Band Dependant Parameters</i> | 1.0 to 2.0GHz | 2.0 to 4.0GHz |
|----------------------------------|---------------|---------------|
| Psat (min) | 100W | 100W |
| P1dB (min) | 89W | 89W |
| Gain (min) | 45.50dB | 45.50dB |
| Gain Variation (max) | +/- 1.0dB | +/- 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) | 640 VA (typical full power) |
| Supply Power (Band 2) | 1.2 KVA (typical full power) |
| RF Input | Type N female |
| RF Output | Type N female |
| Dimension | 19 inch, 6U 527mm Deep |
| Weight | 45 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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