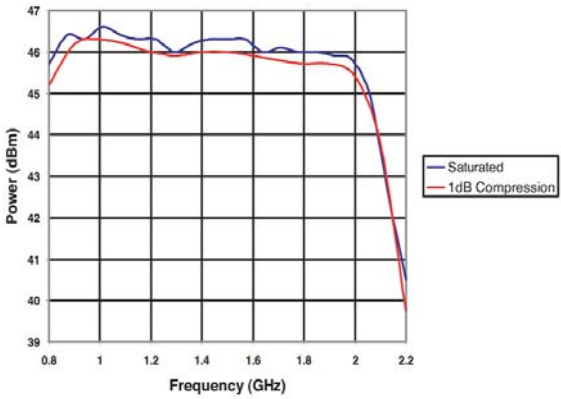
The MILMEGA Series 2000 Broadband Class A Solid State Microwave Amplifier Range

The MILMEGA Series 2000 1.0 GHz-2.0 GHz broadband amplifiers have an award winning innovative design which implements the latest GaAs FET and MMIC technologies. This provides an architecture with unique features and benefits which differentiate Series 2000 from other solid state amplifiers, permitting an impressive array of input/output and sample port options and cost-effective power or bandwidth upgrades.

AS0102-30L, 30 Watt 1.0 GHz-2.0 GHz Broadband Amplifier

Psat (min):	33 W
Psat (min)	45.2 dBm
P1dB (min):	29.5 W
P1dB (min):	44.7 dBm
Noise figure (max):	6.0 dB
Gain variation:	± 1.0 dB
Harmonic distortion (max):	-20 dBc

Power consumption:	200 W
Primary Power:	85-260 V (50/60 Hz)
RF Input:	Type N female
RF Output:	Type N female
Weight:	6 kg
Size:	Lab Model A





Class leading linearity and noise specifications

- Gain variation with temperature <0.06 dB/°C
- IP3 typically 10 dB> P1 dB
- Harmonics –20 dBc min
- Spurious (max) –70dBc
- Spurious (typical) –80 dBc

Max power

- Unbeatable power density
- Series 2000 will maintain full forward power into any load condition
- 100% tested into short and open circuit
- Up to 250 watts in a single 3U unit
- Consistent over greater than octave bandwidths
- Broadband CW power output to 1 kW

Other standard features

- All data is measured at 25 °C driven from a 50 W source and driving into a 50 W load
- Input power (for rated output) 5 dBm
- Input power (no damage) 15 dBm
- Input VSWR (impedance 50 Ohm nominal) 2:1 max
- Output VSWR (impedance 50 Ohm nominal) 2:1 typical
- Load VSWR (any phase) is infinite
- Line input frequency 47-65 Hz
- Operating temperature (ambient air) 0 to 40 °C
- Storage temperature -40 to 70 °C.

Built-in protection

- In the event of internal temperature exceeding 70 °C, the amplifier blocks will automatically switch off to avoid damage

Warranty

- 5 year parts and labour warranty on all Series 2000 amplifiers

Other amplifiers available in the 1.0-2.0 GHz range:

- AS0102-1L – 1 watt lab unit
- AS0102-8L – 8 watt
- AS0102-30 – 30 watt
- AS0102-55 – 55 watt
- AS0102-100 – 100 watt
- AS0102-200 – 200 watt
- AS0102-250 – 250 watt
- AS0102-400 – 400 watt
- AS0102-800 – 800 watt
- AS0102-1000 – 1000 watt

Issue 04.07.05

MILMEGA Limited Ryde Business Park Nicholson Road Ryde, Isle of Wight PO33 1BQ United Kingdom
Tel. +44 (0) 1983 618004 or call toll free in the US on 877-645-6342 Fax. +44 (0) 1983 811521 sales@milmega.co.uk www.milmega.co.uk