



AS0827-30 800 MHz TO 2.7 GHz 30 WATT BROADBAND POWER AMPLIFIER



This innovative amplifier combines a compact design with market leading performance. Its ability to operate into any load without fold back makes this an ideal amplifier for all EMC RF immunity testing. The amplifier is supported via Milmega's unique five year parts, labour and shipping warranty and Teseq's local service network.

- Upgradeable to higher power
- High reliability GaAs transistor technology
- Mismatch tolerant and unconditionally stable
- Wide instantaneous bandwidth
- Unique five year parts, labour and shipping warranty
- Integral directional coupler
- RS232, USB and ethernet or RS232 and GPIB

The amplifier is designed ready for a simple upgrade to higher power levels by the addition of extra power modules into the existing mainframe. If more power is required once fully loaded the unit can be integrated with further additional units to achieve power levels up to 230 watts.

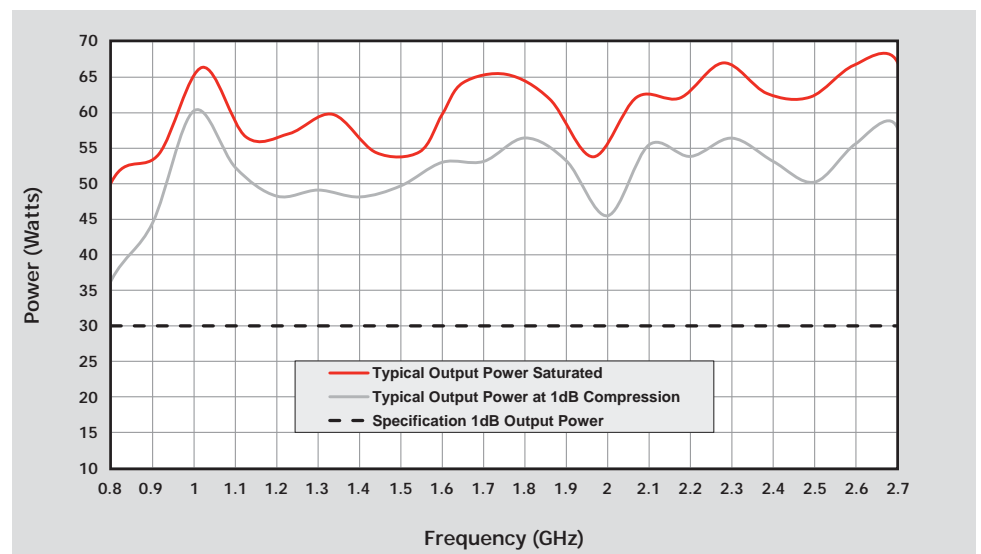
Designed specifically for radiated EMC testing, this mismatch tolerant amplifier delivers power continuously into the poor and variable match typically associated with EMC antenna.

A selection of remote interfaces are available and the user can select, at time of ordering, either the internal RS232, USB and ethernet or the external RS232 and GPIB unit housed in a 1U module at no additional cost.

The GaAs balanced pair design at the core of the amplifier ensures a high reliability, linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

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.

Measured data



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Key RF Parameters

Frequency range (instantaneous)	0.8 to 2.7 GHz
Rated output power	34.7 W minimum
Power at 1 dB gain compression (P1dB)	30.9 W minimum
Harmonics at P1dB	-18 dBc typical
Gain	40.9 dB
Gain variation with frequency	+/-2 dB
Maximum input power (no damage)	15 dBm

Impedance / VSWR

Output VSWR tolerance	Infinite any phase
Stability	Unconditional
Output impedance	50 Ohm
Output VSWR	2:1 typical
Input VSWR	2:1 max

Additional RF Data

Third order intercept point IP3	10 dB > P1dB
Spurious	-70 dBc max (-80 dBc typical)
Noise figure	6 dB
RF connector style	Type N female

Electrical and Interfaces

Remote control	Internal RS232, USB and ethernet or RS232 and GPIB in additional external 1U high unit
Safety interlock	Rear panel mounted BR2-Female
Supply voltage (single phase)	85 to 260 VAC
Supply frequency	50 to 60 Hz
Supply power	<0.575 kVA

Physical / Environmental

Case dimensions	19 inch, 3U case, 527 mm deep
Mass	15 kg
Operating temperature range	0 to 40° C (storage -40 to 70° C)

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