

VBA400-260

10kHz - 400MHz 260W Class A
Broadband Amplifier

- **Class A linear and low distortion design**
- **Ideal for BCI testing**
- **Mismatch tolerant and unconditionally stable**
- **Rugged design for EMC testing**

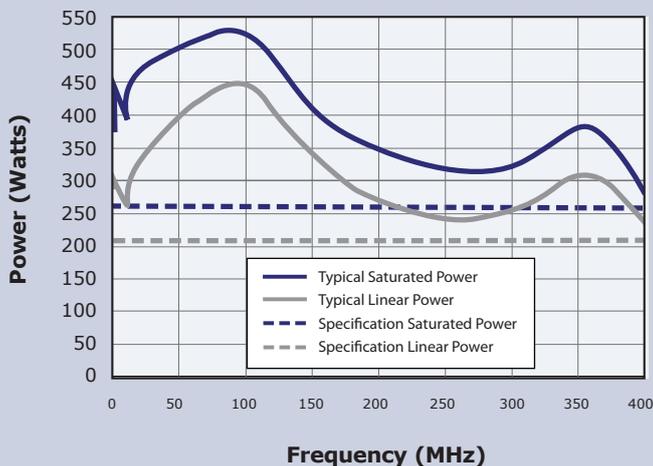


Designed specifically for automotive, military and aerospace BCI EMC testing, this mismatch tolerant Class A amplifier delivers power continuously into the varying match typically associated with this type of testing.

The Class A push pull design ensures a high reliability, low distortion 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. Two safety interlock connectors are provided, one to short for interlock and the other to open circuit. Front panel indicators are provided to indicate over-temperature, standby and operate and rf interlock operation.

Performance Chart



See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	0.01-400MHz
Rated Output Power	260W minimum (>300W typical)
Output Power at 1dB Gain Compression	210W minimum (>240W typical)
Gain	54dB Min
Third Order Intercept Point (see note 1)	64dBm
Gain variation with Frequency	±3dB
Harmonics at 200W Output Power	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1
Supply Voltage (single phase)	100-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<2kVA (Max)
Mains Connector	IEC320 C20

Mechanical

RF Connector Style	Type N Female
Safety Interlock	BNC female, o/c and/or s/c to mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 6U Case, 440mm Deep
Mass	30kg
Operating Temperature Range	0-40°C

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class B
Conducted and Radiated Immunity	EN61326: 1997 Table 1
Safety	EN61010-1
Mains Harmonic Currents	EN61000-3-2
Voltage Fluctuations & Flicker	EN61000-3-3

Options

Bench model with front panel mounted input/output connectors
 Rack mountable with front panel mounted input/output connectors
 Rack mountable with rear panel mounted input/output connectors

Notes

- 1 The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.
- 2 Output VSWR tolerance is specified for excitation within the permitted levels and frequency range



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