

VBA2000-100

1000MHz - 2000MHz 100W Amplifier

- Solid state TWT replacement.
- High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements

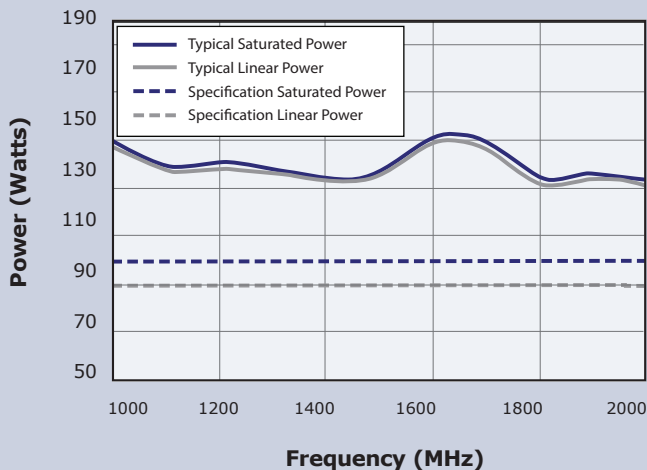


The **VBA 2000-100** is a member of our family of 1000MHz-2000MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA 2000 series, it is based on our GaAs technology, offering the user the benefits of linearity, ruggedness and efficiency. With its compression point close to saturated output, it is equivalent to TWT amplifiers of twice the output power.

The amplifier operates in class A, the benefits for EMC applications being very low distortion and tolerance of 100% mismatch. Fold-back protection is neither fitted nor needed! This makes it supremely suited for very demanding antenna and test chamber requirements.

Performance Chart



Choose **GaAs Class A** for linearity, ruggedness, efficiency and cost.

See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	1000-2000MHz
Rated Output Power	100W Min, 110W typical
Output Power at 1dB Gain Compression	90W Min, 100W typical
Gain	51dB Min
Third Order Intercept Point (see note 1)	60dBm
Gain variation with Frequency	±3dB
Harmonics at 90W Output Power	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	90-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<1kVA (Max)
Mains Connector	IEC320 C20

Mechanical

RF Connector Style	Type N female
Safety Interlock	2 x BNC, S/C and O/C to mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 6U case, 550mm deep
Mass	35kg
Operating Temperature Range	0-40°C
Case Style Options	Rack mount with front or rear panel connectors Bench mount with front panel connectors

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:1997 Table 1
Safety	EN61010-1

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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Designers and Manufacturers of Solid State RF and Microwave Amplifiers