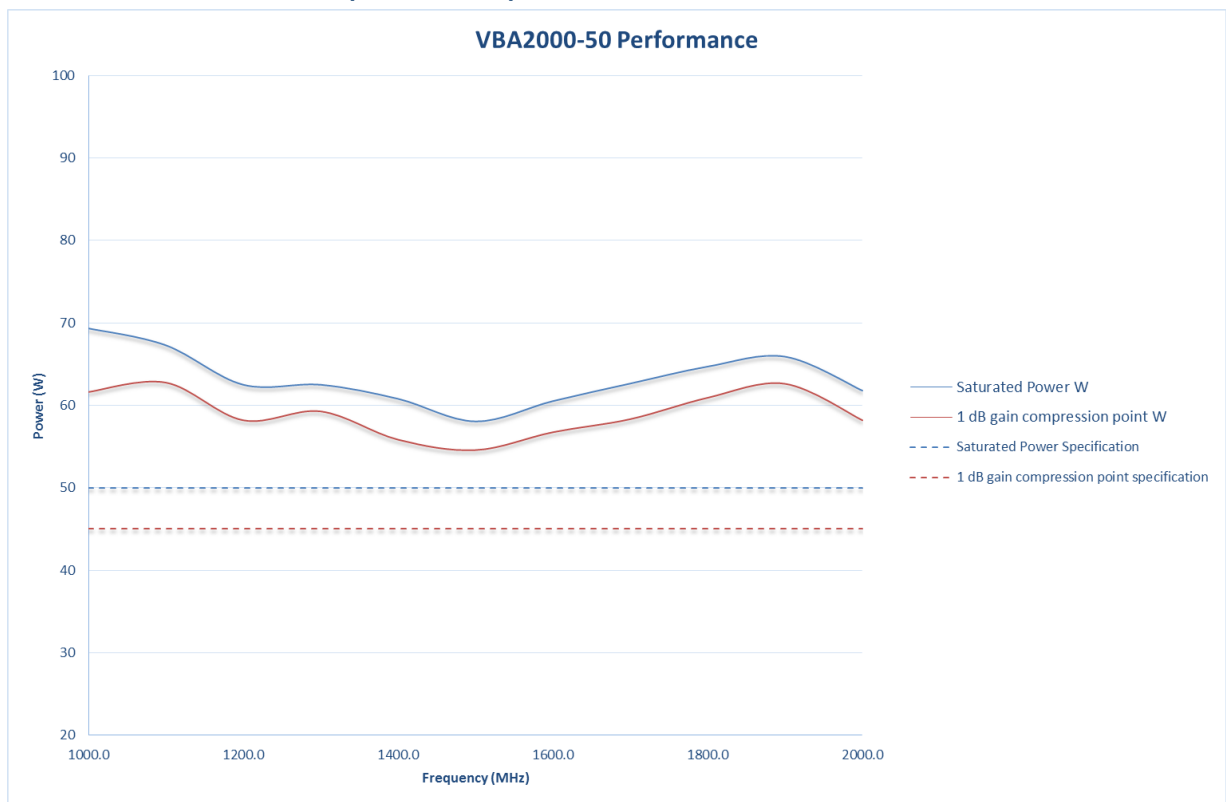


VBA 2000-50 1000MHz-2000MHz 50W Amplifier

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



Product Description

The VBA 2000-50 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. Its compression point is close to the saturated output. 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.



Technical Specification

Electrical	
<i>Frequency Range (Instantaneous)</i>	<i>1000-2000MHz</i>
<i>Rated Output Power</i>	<i>50W Min, 60W typical</i>
<i>Output Power at 1dB Gain Compression</i>	<i>45W Min, 55W typical</i>
<i>Gain</i>	<i>48dB Min</i>
<i>Third Order Intercept Point (see note 1)</i>	<i>57dBm</i>
<i>Gain variation with Frequency</i>	<i>±2dB</i>
<i>Harmonics at 45W Output Power</i>	<i>Better than -20dBc</i>
<i>Output Impedance</i>	<i>50 Ohms</i>
<i>Stability</i>	<i>Unconditional</i>
<i>Output VSWR Tolerance (see note 2)</i>	<i>Infinity:1</i>
<i>Input VSWR</i>	<i>2:1 (Max)</i>
<i>Supply Voltage</i>	<i>90-264V ac</i>
<i>Supply Frequency Range</i>	<i>47-63Hz</i>
<i>Supply Power</i>	<i><500VA (Max)</i>
<i>Mains Connector</i>	<i>IEC320</i>
Mechanical	
<i>RF Connector Style</i>	<i>Type N female</i>
<i>Safety Interlock</i>	<i>2 x BNC, S/C and O/C to mute</i>
<i>USB/GPIB Interface</i>	<i>Optional</i>
<i>Dimensions</i>	<i>19 inch, 4U case, 550mm deep</i>
<i>Mass</i>	<i>20kg</i>
<i>Operating Temperature Range</i>	<i>0-40°C</i>
<i>Case Style Options</i>	<i>Rack mount with front or rear panel connectors</i>
	<i>Bench mount with front panel connectors</i>
Regulatory Compliance	
<i>Conducted and Radiated Emissions</i>	<i>EN61326 Class A</i>
<i>Conducted and Radiated Immunity</i>	<i>EN61326:1997 Table 1</i>
<i>Safety</i>	<i>EN61010-1</i>

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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