

# VBA3200-100

700 - 3200MHz 100W Amplifier

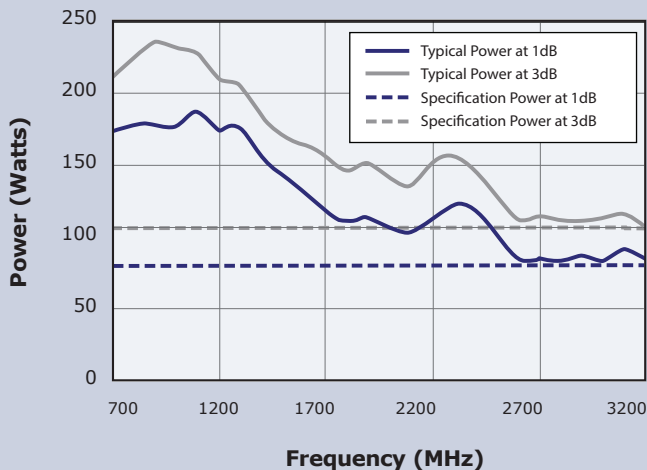
- High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements



The **VBA3200-100** is a 700-3200MHz high power amplifier, designed primarily for EMC applications. 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**

<b>Frequency Range (Instantaneous)</b>	700-3200MHz
<b>Output Power at 3dB Gain Compression</b>	100W
<b>Output Power at 1dB Gain Compression</b>	80W
<b>Gain</b>	51dB Min
<b>Third Order Intercept Point (see note 1)</b>	60dBm
<b>Gain variation with Frequency</b>	±3dB
<b>Harmonics at 80W Output Power</b>	Better than -20dBc
<b>Output Impedance</b>	50 Ohms
<b>Stability</b>	Unconditional
<b>Output VSWR Tolerance (see note 2)</b>	Infinity:1
<b>Input VSWR</b>	2:1 (Max)
<b>Supply Voltage</b>	100-240V ac (+/- 10%)
<b>Supply Frequency Range</b>	45-63Hz
<b>Supply Power</b>	<1kVA (Max)
<b>Mains Connector</b>	IEC320

**Mechanical**

<b>RF Connector Style</b>	Type N female
<b>Safety Interlock</b>	Dual input, S/C and/or O/C to Mute
<b>Communication Interface</b>	USB/GPIB/Ethernet and front panel display
<b>Dimensions</b>	19 inch, 6U case, 500mm deep
<b>Mass</b>	25kg
<b>Operating Temperature Range</b>	0-40°C
<b>Case Style Options</b>	Rack mount with front or rear panel connectors Bench mount with front panel connectors

**Regulatory Compliance**

<b>Conducted and Radiated Emissions</b>	EN61326 Class A
<b>Conducted and Radiated Immunity</b>	EN61326:2013 Table 1
<b>Safety</b>	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

**Represented Worldwide**

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