

# VBA1000-30

80 - 1000MHz 30W Amplifier

- Rugged push-pull MOSFET technology
- Class A for maximum mismatch drive
- General linear power requirements

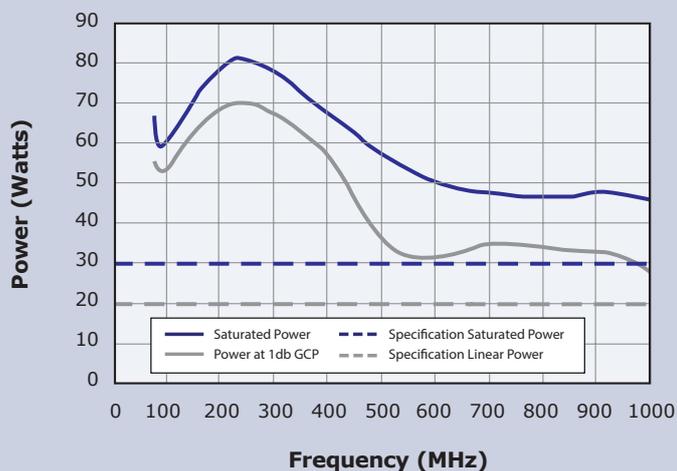


The **VBA1000-30** is a member of our family of 80-1000MHz high power amplifiers, designed primarily for EMC applications.

The design is based on push-pull LDMOS technology in the output stage, coupled with GaAs technology in the driver stages

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 transducer and test chamber requirements.

## Performance Chart



Choose **GaAs Class A** for the ultimate in linearity, ruggedness, efficiency and cost - only from Vectawave.

**See overleaf for technical specification**

Sales Partner:



**ABSOLUTE EMC** Llc.  
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## Electrical

<b>Frequency Range (Instantaneous)</b>	80-1000MHz
<b>Rated Output Power</b>	30W Min (40W typical)
<b>Output Power at 1dB Gain Compression</b>	20W Min (25W typical)
<b>Gain</b>	50dB Min
<b>Third Order Intercept Point (see note 1)</b>	57dBm
<b>Gain variation with Frequency</b>	±3dB
<b>Harmonics at Minimum Linear 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>	85-264V ac
<b>Supply Frequency Range</b>	47-63Hz
<b>Supply Power</b>	300VA (Max)
<b>Mains Connector</b>	IEC320

## Mechanical

<b>RF Connector Style</b>	Type N Female
<b>Safety Interlock</b>	2 x BNC, S/C and O/C to Mute
<b>USB/GPIB Interface</b>	Optional
<b>Dimensions</b>	19 inch, 3U Case, 440mm Deep
<b>Mass</b>	13kg
<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>	EN61326:1997 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



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