

# VBA400-100

1MHz - 400MHz 100W Amplifier

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

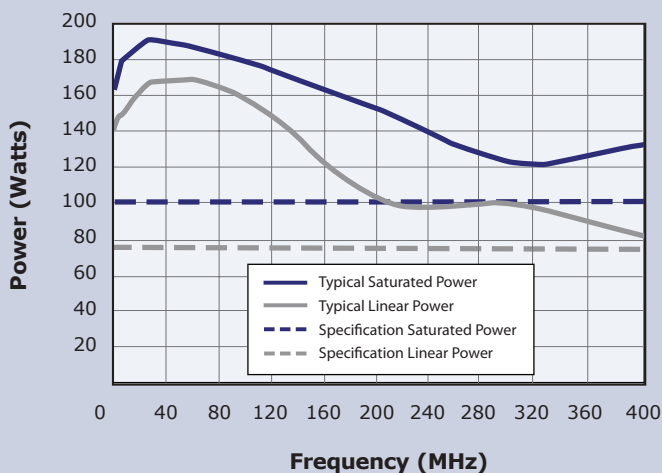
The **VBA400-100** is a member of our family of 1MHz-400MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA400 series, it is based on rugged push-pull MOSFET technology, for extra even order harmonic suppression.



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 requirements.

**Performance Chart**



Choose **Vectawave** for high efficiency and performance in your regular power amplifier requirements.

**See overleaf for technical specification**

## Electrical

<b>Frequency Range (Instantaneous)</b>	1-400MHz
<b>Rated Output Power</b>	100W Min (>140W typical)
<b>Output Power at 1dB Gain Compression</b>	75W Min (>100W typical)
<b>Gain</b>	51dB Min
<b>Third Order Intercept Point (see note 1)</b>	61dBm
<b>Gain variation with Frequency</b>	±2dB
<b>Harmonics at 75W 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>	85-264V ac
<b>Supply Frequency Range</b>	47-63Hz
<b>Supply Power</b>	<1kVA (Max)
<b>Mains Connector</b>	IEC320

## Mechanical

<b>RF Connector Style</b>	Type N Female
<b>Safety Interlock</b>	2 x BNC, S/C and O/C to Mute
<b>USB/GPIB Interface</b>	Optional
<b>Dimensions</b>	19 inch, 4U Case, 550mm Deep
<b>Mass</b>	17kg
<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

**Represented Worldwide**

**Vectawave Technology Ltd.**  
**Unit D, The Apex,**  
**St Cross Business Park, Monks Brook,**  
**Newport, Isle of Wight, PO30 5XW**

**Tel:** +44 (0) 1983 821 818

**Fax:** +44 (0) 1983 532 737

**E-mail:** sales@vectawave.co.uk