

VBA400-100

1MHz - 400MHz 100W Amplifier

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

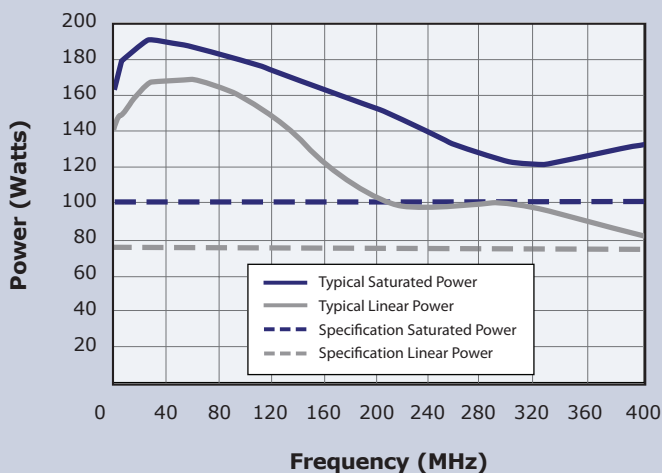
The **VBA400-100** is a member of our family of 1MHz-400MHz high power amplifiers, designed primarily for EMC applications.

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

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

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, 4U Case, 550mm Deep
Mass	17kg
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