Vectawave
Technology Limited

VBA250-400

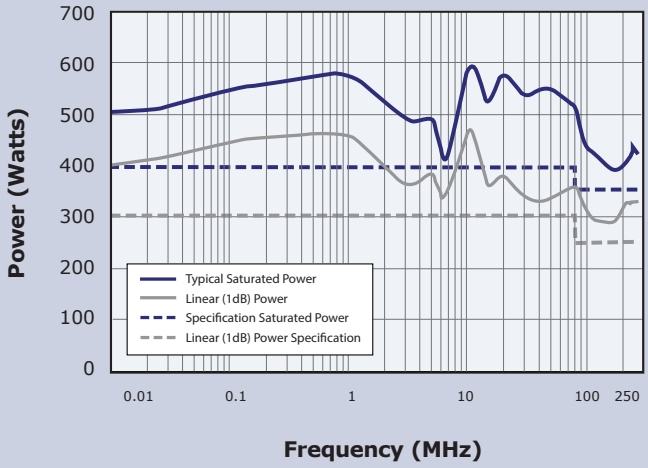
10kHz - 250MHz 400W Amplifier

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

The **VBA250-400** is a member of our family of 10kHz-250MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA250 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

Specifications — VBA250-400

Electrical

Frequency Range (Instantaneous)	10kHz-250MHz
Rated Output Power	10kHz-80MHz 400W Min
	80-250MHz 360W Min
Output Power at 1dB Gain Compression	10kHz-80MHz 300W Min
	80-250MHz 250W Min
Gain	56dB Min
Third Order Intercept Point (see note 1)	66dBm
Gain variation with Frequency	±2dB
Harmonics at 250W 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	100-240V ac (+/- 10%)
Supply Frequency Range	45-63Hz
Supply Power	<1.5kVA (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	Standard (including forward and reflected power indication)
Dimensions	19 inch, 4U Case, 650mm Deep
Mass	33kg
Operating Temperature Range	0-40°C
Case Style Options	Rack mount with front or rear 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

ACS REGISTRARS Quality Assurance ISO 9001 UKAS QUALITY MANAGEMENT 229

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

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
E-mail: sales@vectawave.co.uk