

VBA250-800

10kHz - 250MHz 800W Amplifier

- Robust silicon MOSFET push-pull output design
- High efficiency proprietary combiner design
- Class A for maximum mismatch drive
- General linear power requirements

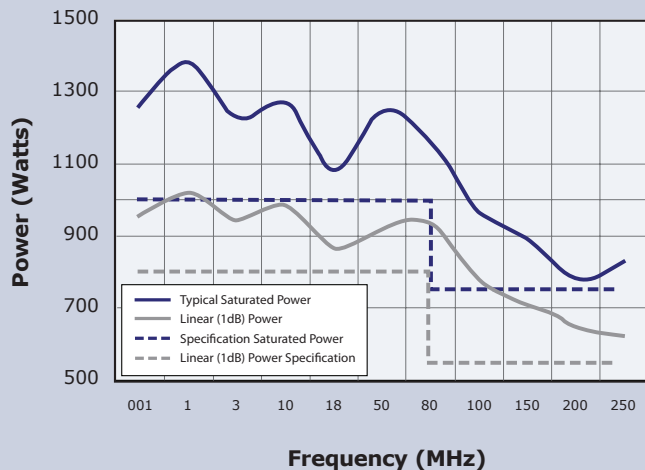
The **VBA 250-800** is a member of our family of 10kHz-250MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA250 series, it is based on high performance silicon push-pull MOSFET output stages. The amplifier utilizes exclusive power combining techniques, minimizing loss for a more efficient solution.



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

See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	10kHz-250MHz
Rated Output Power	1000W Min, 1200W typical (10kHz-80MHz) 750W Min, 800W typical (80-250MHz)
Output Power at 1dB Gain Compression	800W Min, 900W typical (10kHz-80MHz) 550W Min, 600W typical (80-250MHz)
Gain	63dB Min
Third Order Intercept Point (see note 1)	67dBm
Gain variation with Frequency	±2dB
Harmonics at 550W 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	184-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<3kVA (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, 6U Case, 550mm 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



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

Fax: +44 (0) 1983 532 737

E-mail: sales@vectawave.co.uk