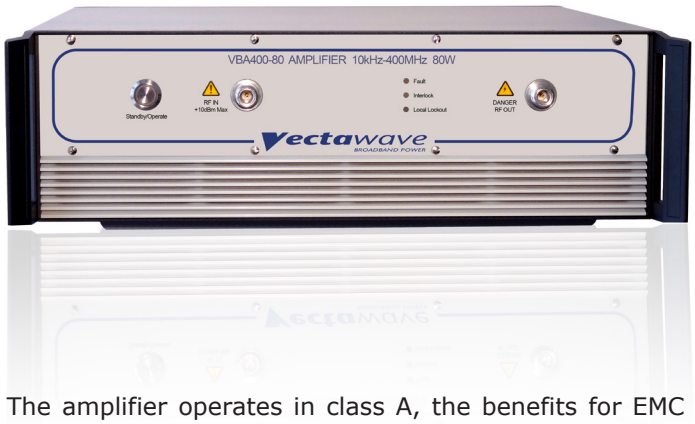
Vectawave
Technology Limited

VBA400-80

10kHz - 400MHz 80W Amplifier

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

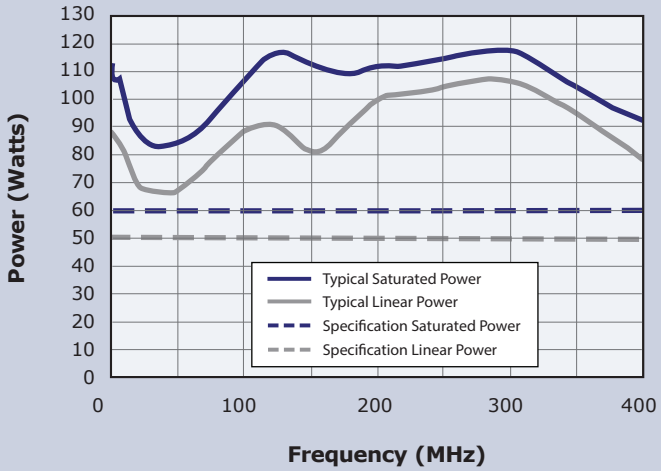


The **VBA400-80** is a member of our family of 10kHz-400MHz high power amplifiers, designed primarily for EMC applications.

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

Specifications — VBA400-80

Electrical

Frequency Range (Instantaneous)	0.01-400MHz
Rated Output Power	80W Min (90W typical)
Output Power at 1dB Gain Compression	60W Min (70W typical)
Gain	48dB Min
Third Order Intercept Point (see note 1)	58dBm
Gain variation with Frequency	±2dB
Harmonics at 50W 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	<400VA (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, 3U Case, 440mm Deep
Mass	13kg
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	EN61326:2013 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