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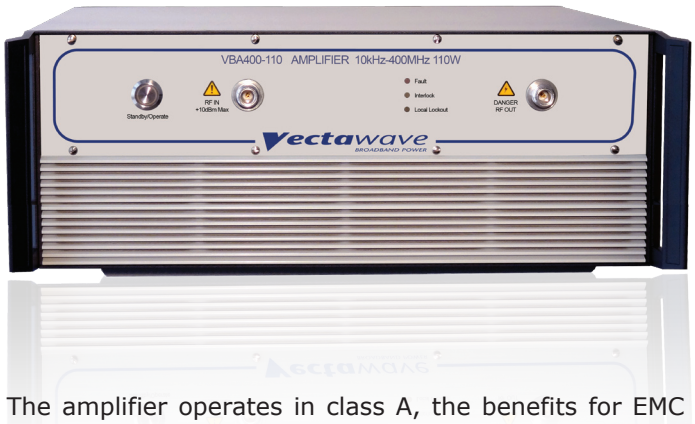
Vectawave Technology Limited

VBA400-110

10kHz- 400MHz 110W Amplifier

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

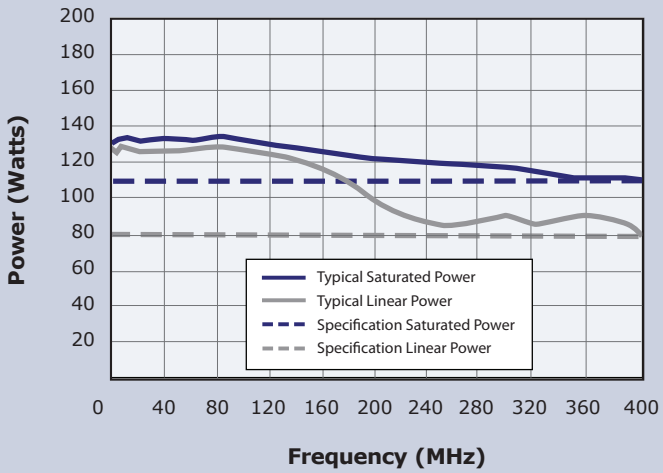


The **VBA400-110** is a member of our family of 10kHz-400MHz high power amplifiers, designed primarily for EMC applications.

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 VBA400-110

Electrical

Frequency Range (Instantaneous)	10kHz-400MHz
Rated Output Power	110W Min (>150W typical)
Output Power at 1dB Gain Compression	80W Min (>110W 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	100 - 240V ac (+/- 10%)
Supply Frequency Range	45-63Hz
Supply Power	<1kVA (Max)
Mains Connector	IEC 320

Mechanical

RF Connector Style	Type N Female
Safety Interlock	Dual input, S/C and/or O/C to Mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 4U Case, 440mm Deep
Mass	18kg
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

ACS REGISTRARS Quality Assurance ISO 9001 UKAS 229

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

4TECT

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