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Vectawave
Technology Limited

VBA250-2500

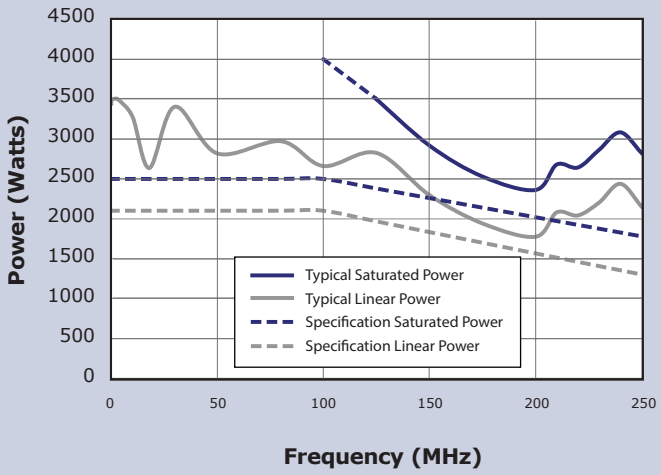
0.01 - 250MHz 2500W Amplifier

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

The **VBA 250-2500** 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 without foldback up to 50% reflection. See overleaf for technical specification.

Performance Chart



See overleaf for technical specification

Specifications VBA250-2500

Electrical

Frequency Range (Instantaneous)	10kHz-250MHz
Rated Output Power	2500W 10kHz-100MHz
	2500-1900W 100MHz-250MHz (de-rating slope of 4.8W/MHz)
Output Power at 1dB Gain Compression	2100W 10kHz-100MHz
	2100-1300W 100-250MHz (de-rating slope of 5.33W/MHz)
Gain	64dB Min
Third Order Intercept Point (see note 1)	70dBm
Gain variation with Frequency	±3dB
Harmonics at 1300W Output Power	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity any phase
Input VSWR	2:1 (Max)
Supply Voltage	200-240V or 350-415V ac (see options for 3 phase configuration)
Supply Frequency Range	45-63Hz
Supply Power	11kVA
Mains Connector	Appropriate IEC60309 plug (see options)

Mechanical

RF Connector Style	Input Type N Female, Output 7/16 Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
USB/GPIB Interface	Standard
Dimensions	34U Rack, 800mm deep
Mass	291kg
Operating Temperature Range	0-40°C
Case Style Options	Rack mount with rear panel connectors

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:1997 Table 1
Safety	EN61010-1

Options	3 Phase delta connection (No Neutral, 4 pin plug)
	3 Phase star connection (With Neutral, 5 pin plug)

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

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