

VBA250-2500

0.01 - 250MHz 2500W Amplifier

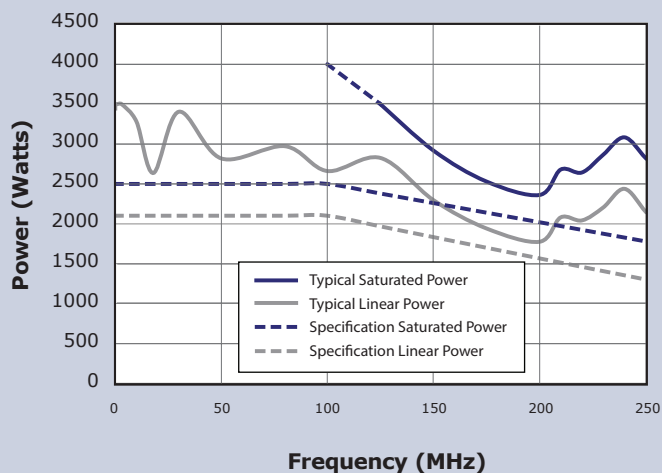
- Robust silicon MOSFET push-pull output design
- High efficiency proprietary combiner design
- Class A for maximum mismatch drive
- General linear power requirements

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

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

**Represented Worldwide**

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