

# 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 4500 4000 3500 2500 2500 1500 1000 500 0 50 100 150 200 250 Frequency (MHz)



See overleaf for technical specification

Appropriate IEC60309 plug (see options)

### **Flectrical**

10kHz-250MHz Frequency Range (Instantaneous) 2500W 10kHz-100MHz **Rated Output Power** 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 50 Ohms **Output Impedance** 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) 45-63Hz **Supply Frequency Range Supply Power** 11kVA

### Mechanica

**Mains Connector** 

RF Connector Style

Safety Interlock

USB/GPIB Interface

Dimensions

Mass

Operating Temperature Range

Case Style Options

Input Type N Female, Output 7/16 Female

2 x BNC, S/C and O/C to Mute

Standard

34U Rack, 800mm deep

491kg

0-40°C

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





**Designers and Manufacturers of Solid State RF and Microwave Amplifiers** 

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