



VBA1000-250S

80 - 1000MHz 250W Amplifier

- Rugged push-pull Silicon LDMOS technology
- Class A for maximum mismatch drive
- General linear power requirements

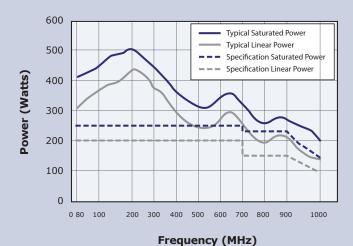


The **VBA1000-250S** is an 80-1000MHz high power amplifier, designed primarily for EMC applications.

The amplifier produces around 300W P1dB at the important VHF frequencies, and is housed in a compact 4U case. VBA1000-250S is intended for applications where an 18V/m field is required and incorporates measures to improve power delivery into high VSWR loads.

The amplifier can be controlled from either the front panel or remote control via the Ethernet, USB and GPIB interfaces. The digital interface system manages enabling and disabling the amplifier, monitoring power levels, monitoring power supply health, communicating with the control computer and implementing electrical interlocks. The keypad and display interface is used for monitoring amplifier state, power levels, interlock states etc. and for configuration options.

Performance Chart



Electrical

Frequency Range (Instantaneous)80-1000MHz **Output Power at 3dB Gain Compression**250W 80MHz to 700MHz

230W 700MHz to 900MHz

Output Power at 1dB Gain Compression 200W 80MHz to 700MHz

150W 700MHz to 900MHz

IEC320

de rating slope of 0.5W/MHz 900MHz-1000MHz

de rating slope of 0.9W/MHz 900MHz-1000MHz

Gain 56dB Min
Third Order Intercept Point (see note 1) 64dBm
Gain variation with Frequency ±3dB
Harmonics at Rated Linear Power Better than -20dBc
Output Impedance 50 Ohms

Stability Unconditional
Output VSWR Tolerance (see note 2) Infinity:1
Input VSWR Supply Voltage 100 - 240V ac (+/- 10%)
Supply Frequency Range 45-63Hz
Supply Power <1kVA (Max)

Mechanical

Mains Connector

RF Connector Style

Safety Interlock

Remote Control Interface

Dimensions

Mass

Operating Temperature Range

Case Style Options

Type N Female

Dual input, S/C and/or O/C to Mute

USB/GPIB/Ethernet

19 inch, 4U Case, 500mm deep

18kg

0-40°C

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.
- Output VSWR tolerance is specified for excitation within the permitted levels and frequency range





