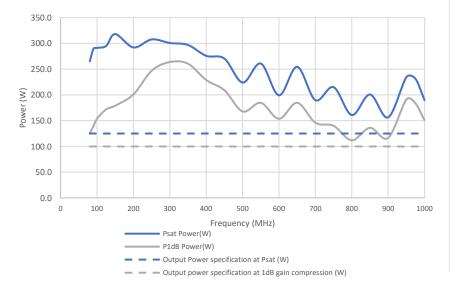
VBA1000-125S

80MHz-1000MHz 125W Amplifier







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

The VBA1000-125S is a member of our family of 80-1000MHz high power amplifiers, designed primarily for EMC applications.

The amplifier is housed in a compact 4U case. VBA1000-1250S incorporates measures to improve power delivery into high VSWR loads.

VBA1000-125S 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 antenna and test chamber requirements.

The amplifier can be controlled remotely via the Ethernet, USB and GPIB interfaces. The digital interface system manages enabling and disabling the amplifier, monitoring power supply health, communicating with the control computer and implementing electrical interlocks.

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Technical Specification

ectri	
ecu	Cal

Frequency Range (Instantaneous)	80-1000MHz
Output Power at 3dB Gain Compression	125W minimum

Output Power at 1dB Gain Compression 10

100W miniumum

Better than -20dBc

100 - 240V ac (+/- 10%)

51dB Min 60dBm ±2dB +10dBm

50 Ohms Unconditional

Infinity:1 2:1 (Max)

45-63Hz

IEC320

<1kVA (Max)

Gain
Third Order Intercept Point (see note 1)
Gain variation with Frequency
Maximum input power
Harmonics at Rated Linear Power
Output Impedance
Stability
Output VSWR Tolerance (see note 2)
Input V/S/M/P

Input VSWR Supply Voltage Supply Frequency Range Supply Power Mains Connector Mechanical

RF Connector Style Safety Interlock

Remote Control Interface

Dimensions Mass

Operating Temperature Range

Case Style Options

Regulatory Compliance Conducted and Radiated Emissions Conducted and Radiated Immunity Safety 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

EN61326 Class A EN61326:2013 Table 1 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.

