

VBA1060-25

1000MHz-6000MHz 25W Amplifier



- GaN technology
- **Class A** for maximum mismatch drive
- Featuring high efficiency proprietary Quadrature Hybrid designs

The VBA1060-25 is a 1000-6000MHz high power amplifier designed for applications where a rugged Class A mismatch tolerant amplifier is required.

The amplifier is based on high performance extra wideband GaN output stages and utilizes Vectawave proprietary Quadrature Hybrid combining techniques, minimizing loss for a more efficient solution.

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.

The amplifier operates in class A, with very low distortion and tolerance of 100% mismatch without foldback. See overleaf for technical specification.

Technical Specification

Electrical

<i>Frequency Range (Instantaneous)</i>	1000-6000MHz
<i>Rated Output Power</i>	25W
<i>Output Power at 1dB Gain Compression</i>	20W
<i>Gain</i>	46dB Min
<i>Third Order Intercept Point</i> <small>(see note 1)</small>	54dBm
<i>Gain variation with Frequency</i>	±3dB
<i>Harmonics at rated linear power</i>	Better than -20dBc
<i>Output Impedance</i>	50 Ohms
<i>Stability</i>	Unconditional
<i>Output VSWR Tolerance</i> <small>(see note 2)</small>	Infinity any phase
<i>Input VSWR</i>	2:1 (Max)
<i>Supply Voltage</i>	100-240Vac (+/- 10%)

<i>Supply Frequency Range</i>	45-63Hz
<i>Supply Power</i>	300VA
<i>Mains Connector</i>	IEC320 –C14

Mechanical

<i>RF Connector Style</i>	Input type N female, output N female
<i>Safety Interlock</i>	2 x BNC, S/C and O/C to mute
<i>Communication Interface</i>	USB/GPIB/Ethernet
<i>Dimensions</i>	3U Rack, 500mm deep
<i>Mass</i>	7kg
<i>Operating Temperature Range</i>	0-40°C
<i>Case Style Options</i>	Rack Mountable or Bench top with rear or front panel connectors

Regulatory Compliance

<i>Conducted and Radiated Emissions</i>	EN61326 Class A
<i>Conducted and Radiated Immunity</i>	EN61326:2013 Table 1
<i>Safety</i>	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.

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