

The VBA1060-40 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.



## Tochnical Spacification

Technical Specification		
Electrical Frequency Range (Instantaneous) Rated Output Power	1000-6000MHz 40W	
Output Power at 1dB Gain Compression	30W	
Gain	46dB Min	
Third Order Intercept Point (see note 1)	56dBm	
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 any phase	
Input VSWR	2:1 (Max)	
Supply Voltage	100-240Vac (+/- 10%)	
Supply Frequency Range	45-63Hz	
Supply Power	450VA	
Mains Connector	IEC320-C14	
Mechanical		
RF Connector Style	Input type N female, output N female	
Safety Interlock	2 x BNC, S/C and O/C to mute	
Communication Interface	USB/GPIB/Ethernet	
Dimensions	3U Rack, 500mm deep	
Mass	12kg	
Operating Temperature Range	0-40°C	
Case Style Options	Rack Mountable or Bench top with rear or front panel connectors	

## **Regulatory Compliance**

Conducted and Radiated	EN61326 Class A
Emissions	
Conducted and Radiated Immunity	EN61326:2013 Table 1
Safety	EN61010-1
Notes	
1 The third order intercent point is a p	aminal value, as its calculation depends upon the new or

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



