VBA2060-200

2000MHz-6000MHz 200W Amplifier



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

ectawave

• Dual coupled sample ports

The VBA2060-200 is a 2000-6000MHz 200W 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 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. Forward and reflected power sample ports are accessible via the rear panel.

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		
Frequency Range (Instantaneous)	2000-6000MHz	
Rated Output Power	200W	
Output Power at 1dB Gain	170W	
Compression		
Gain	54dB 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 any phase	
Input VSWR	2:1 (Max)	
Supply Voltage	100-240Vac (+/- 10%)	
Supply Frequency Range	45-63Hz	
Quere la Device a	01.1/4	
Supply Power	<3kVA	
Mains Connector	IEC320–C20	
Mechanical		
RF Connector Style	Input type N female, output N fema	ale
Sample ports	Forward N type female, Rev	/erse N
Safety Interlock	2 x BNC, S/C and O/C to m	
Communication Interface	USB/GPIB/Ethernet	
Dimensions	7U Rack, 600mm deep	
Mass	40kg	
Operating Temperature Range	0-40°C	
Case Style Options	Rack Mountable with rear panel co	onnectors
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Regulatory Compliance		
Conducted and Radiated	EN61326 Class A	
Emissions		

Emissions 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.

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





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type female