USED⁴TEST

Телефон: +7 (499) 685-7744 used@used4test.ru www.used4test.ru

VBA1000-18

100kHz - 1000MHz 18W Amplifier

- High reliability proven GaAs design
- Higher performance and efficiency than silicon alternatives
- Lower cost than comparable GaN solutions
- Class A for maximum mismatch drive
- General linear power requirements

The **VBA1000-18** is a member of our family of 100kHz-1000MHz high power amplifiers, designed primarily for EMC applications.

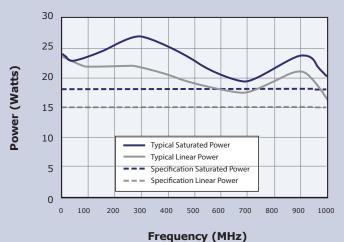
Like all our products of the VBA1000 series, it is based on our unique GaAs technology, offering the user the benefits of higher linearity, ruggedness and efficiency than its silicon-based counterparts and lower cost than the more recent GaN additions to the marketplace.

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Technology Limited

The amplifier 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 transducer and test chamber requirements



Performance Chart

Choose **GaAs Class A** for the ultimate in linearity, ruggedness, efficiency and cost - only from Vectawave.

See overleaf for technical specification

Specifications

VBA1000-18

Frequency Range (Instantaneous)	100kHz-1000MHz	
Rated Output Power	18W Min (20W typical)	
Output Power at 1dB Gain Compression	15W Min (18-23W typical)	
Gain	44dB Min	
Third Order Intercept Point (see note 1)	54dBm	
Gain variation with Frequency	±3dB	
Harmonics at 15W Output Power	Better than -20dBc	
Output Impedance	50 Ohms	
Stability	Unconditional	
Output VSWR Tolerance (see note 2)	Infinity:1	
Input VSWR	2:1 (Max)	
Supply Voltage	85-264V ac	
Supply Frequency Range	45-63Hz	
Supply Power	<150VA (Max)	
Mains Connector	IEC320	

RF Connector Style	Type N Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 3U Case, 440mm Deep
Mass	9kg
Operating Temperature Range	0-40°C
Case Style Options	Rack mount with Front or Rear panel connectors
	Bench mount with Front panel connectors

Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:1997 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





Designers and Manufacturers of Solid State RF and Microwave Amplifiers



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