

VBA2000-375

1000MHz - 2000MHz 375W Amplifier

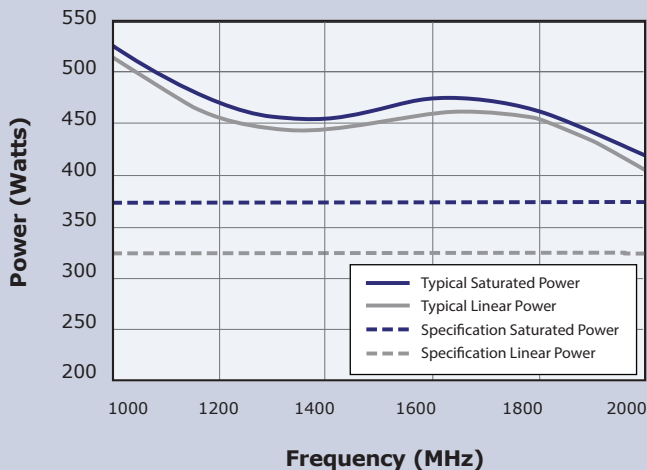
- Solid state TWT replacement.
- High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements

The **VBA 2000-375** is a member of our family of 1000MHz-2000MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA 2000 series, it is based on our GaAs technology, offering the user the benefits of linearity, ruggedness and efficiency. With its compression point close to saturated output, it is equivalent to TWT amplifiers of twice the output power. 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 antenna and test chamber requirements



Performance Chart



Choose **GaAs Class A** for linearity, ruggedness, efficiency and cost.

See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	1000-2000MHz
Rated Output Power	375W Min, 400W typical
Output Power at 1dB Gain Compression	325W Min, 350W typical
Gain	56dB Min
Third Order Intercept Point (see note 1)	65dBm
Gain variation with Frequency	±3dB
Harmonics at 325W 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	See options for 3 phase configuration
Supply Frequency Range	45-63Hz
Supply Power	<3kVA (Max)
Mains Connector	Appropriate IEC 60309 plug (see Options)

Mechanical

RF Connector Style	RF input type N female, RF output 7/16
Safety Interlock	2 x BNC, S/C and O/C to mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 25U rack, 800mm deep
Mass	150kg
Operating Temperature Range	0-40°C
Options	3 Phase Delta (5 pin plug) 3 Phase Star (5 pin plug)

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class A (When correctly terminated, and in standalone operation.)
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

**Represented Worldwide**

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