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VBA1000-1000

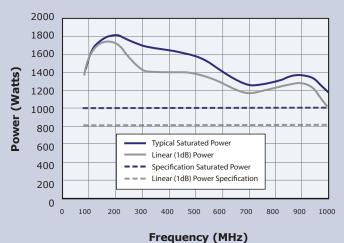
80 - 1000MHz 1000W Amplifier

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

The **VBA1000-1000** is a member of our family of 80-1000MHz 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.

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 the ultimate in linearity, ruggedness, efficiency and cost - only from Vectawave.



Specifications

VBA1000-1000

| Frequency Range (Instantaneous) | 80-1000MHz |
|---|---|
| Rated Output Power | 1000W Min (1400W typical 80-500MHz) |
| Output Power at 1dB Gain Compression | 800W Min (1200W typical 80-500MHz) |
| | (1000W typical 500MHz-1.0GHz) |
| Gain | 61dB Min |
| Third Order Intercept Point (see note 1) | 70dBm |
| Gain variation with Frequency | ±3dB |
| Harmonics at 800W Output Power | Better than -20dBc |
| Output Impedance | 50 Ohms |
| Stability | Unconditional |
| Output VSWR Tolerance (see note 2) | Infinity any Phase |
| Input VSWR | 1.5:1 (Max) |
| Input power required for 1000W output | • OdBm (Max) |
| Maximum permitted input power. | 10dBm |
| Supply Voltage | see Options for 3 Phase configuration |
| Supply Frequency Range | 45-63Hz |
| Supply Power | <6kVA (Max) |
| Mains Connector | Appropriate IEC60309 plug (see options) |
| Cooling | Air cooled with internal fans |

| Input Type N Female, Output 7/16 Female |
|---|
| 2 x BNC, S/C and O/C to Mute |
| Optional |
| 19 inch 34U rack, 800mm deep |
| 200kg |
| 0-40°C |
| Rack mount with rear panel connectors |
| |

Conducted and Radiated Emissions Conducted and Radiated Immunity Safety

EN61326 Class A EN61326:1997 Table 1 EN61010-1

Options

3 Phase Delta (5 pin plug) or 3 Phase Star (5 pin plug)

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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Designers and Manufacturers of Solid State RF and Microwave Amplifiers