

# VBA1000-2000

200 - 1000MHz 2000W 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

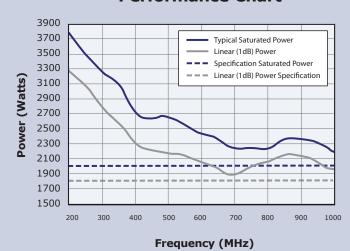
The **VBA1000-2000** is a 200-1000MHz high power amplifier, designed primarily for EMC applications.

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.

#### **Flectrical**

Frequency Range (Instantaneous)

Rated Output Power

2000W Min (2500W typical 200-500MHz)

Output Power at 1dB Gain Compression

1800W Min (2000W typical 200-500MHz)

(1900W typical 800MHz-1.0GHz)

ain 64dB Min

Third Order Intercept Point (see note 1) 74dBm

Gain variation with Frequency ±3dB

Harmonics at 1800W Output Power Better than -20dBc

Output Impedance50 OhmsStabilityUnconditionalOutput VSWR Tolerance (see note 2)Infinity:1Input VSWR2:1 (Max)

Supply Voltage184-264V AC Delta or 319-457 AC StarSupply Frequency Range45-63Hz

Supply Power <12kVA (Max)

Mains Connector Appropriate IEC60309 plug (see options)

#### Mechanical

RF Connector Style Input Type N Female, Output 1-5/8" EIA Flange
Safety Interlock 2 x BNC, S/C and O/C to Mute
USB/GPIB Interface Optional
Dimensions 2x34U Rack plus 200mm centre panel, 800mm Deep
Mass 400kg
Operating Temperature Range 0-40°C
Case Style Options Rack mount with rear panel connectors

### **Regulatory Compliance**

Conducted and Radiated EmissionsEN61326 Class AConducted and Radiated ImmunityEN61326:1997 Table 1SafetyEN61010-1Mains Harmonic CurrentsEN61000-3-2Voltage Fluctuations and FlickerEN61000-3-3

Options

3 Phase plus P.E. Delta Connection (No neutral)

3 Phase, Neutral plus P.E. Star Connection

## 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





