

# VBA1000-1000

80 - 1000MHz 1000W Amplifier

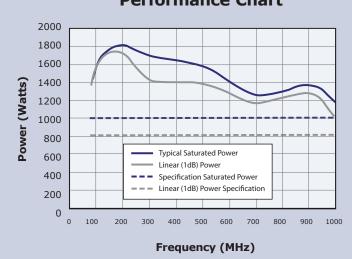
- High reliability proven GaAs design
- Higher performance and efficiency than silicon alternatives
- Lower cost than comparable GaN solutions
- · Class A for maximum mismatch drive
- Automotive testing
- General linear power requirements

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.

#### Electrical

Frequency Range (Instantaneous)

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)

Rack mount with rear panel connectors

Gain61dB MinThird Order Intercept Point (see note 1)70dBmGain variation with Frequency±3dBHarmonics at 800W Output PowerBetter than -20dBcOutput Impedance50 OhmsStabilityUnconditional

 Output VSWR Tolerance (see note 2)
 Infinity any Phase

 Input VSWR
 1.5:1 (Max)

 Input power required for 1000W output.
 0dBm (Max)

 Maximum permitted input power.
 10dBm

Supply Voltagesee Options for 3 Phase configurationSupply Frequency Range45-63HzSupply Power<6kVA (Max)</th>Mains ConnectorAppropriate IEC60309 plug (see options)CoolingAir cooled with internal fans

#### Mechanical

RF Connector Style

Safety Interlock

USB/GPIB Interface

Dimensions

Mass

Operating Temperature Range

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

### Regulatory Compliance

**Case Style Options** 

Conducted and Radiated EmissionsEN61326 Class AConducted and Radiated ImmunityEN61326:1997 Table 1SafetyEN61010-1

**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





Официальный представитель в России

