

VBA1000-30

80 - 1000MHz 30W Amplifier

- Rugged push-pull MOSFET technology
- Class A for maximum mismatch drive
- General linear power requirements

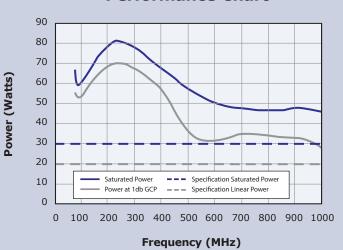


The **VBA1000-30** is a member of our family of 80-1000MHz high power amplifiers, designed primarily for EMC applications.

The design is based on push-pull LDMOS technology in the output stage, coupled with GaAs technology in the driver stages

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.

Electrical

Frequency Range (Instantaneous) 80-1000MHz 30W Min (40W typical) **Rated Output Power Output Power at 1dB Gain Compression** 20W Min (25W typical) Gain 50dB Min Third Order Intercept Point (see note 1) 57dBm **Gain variation with Frequency** ±3dB Better than -20dBc **Harmonics at Minimum Linear Power Output Impedance** 50 Ohms Stability Unconditional **Output VSWR Tolerance (see note 2)** Infinity:1 **Input VSWR** 2:1 (Max) 85-264V ac **Supply Voltage Supply Frequency Range** 47-63Hz **Supply Power** 300VA (Max) **Mains Connector** IEC320

Mechanical

RF Connector Style

Safety Interlock

USB/GPIB Interface

Dimensions

19 inch, 3U Case, 440mm Deep

Mass

Operating Temperature Range

Case Style Options

Rack mount with Front or Rear panel connectors

Bench mount with Front panel connectors

Regulatory Compliance

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

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





