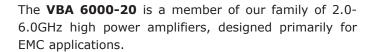


VBA6000-20

2 - 6GHz 20W Amplifier

- · High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements

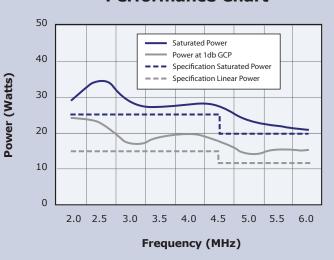


Like all our products of the VBA 6000 series, it is based on our GaAs technology, offering the user the benefits of linearity, ruggedness and efficiency



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) 2.0-6.0GHz **Rated Output Power** 25W Min, 27W typical (2.0-4.5GHz) 20W Min, 21W typical (4.5GHz-6.0GHz) **Output Power at 1dB Gain Compression** 15W Min, 16W typical (2.0-4.5GHz) 12W Min, 14W typical (4.5GHz-6.0GHz) Gain 44dB Min Third Order Intercept Point (see note 1) 51dBm **Gain variation with Frequency** ±2.0dB Harmonics at 12W Output Power (2.0-6.0GHz) Better than -20dBc **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** <250VA (Max) **Mains Connector** IEC320

Mechanical

RF Connector Style Type N Female
Safety Interlock 2 x BNC, S/C and O/C to mute
USB/GPIB Interface Optional
Dimensions 19 inch, 4U case, 550mm deep
Mass 17kg
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





Designers and Manufacturers of Solid State RF and Microwave Amplifiers

Represented Worldwide

Vectawave Technology Ltd.
Unit D, The Apex,
St Cross Business Park, Monks Brook,
Newport, Isle of Wight, PO30 5XW

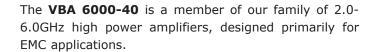
Tel: +44 (0) 1983 821 818 **Fax:** +44 (0) 1983 532 737 **E-mail:** sales@vectawave.co.uk



VBA6000-40

2 - 6GHz 40W Amplifier

- · High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements

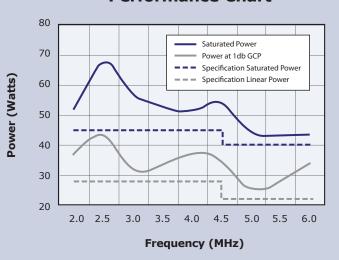


Like all our products of the VBA 6000 series, it is based on our GaAs technology, offering the user the benefits of linearity, ruggedness and efficiency



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) 2.0-6.0GHz **Rated Output Power** 45W Min, 50W typical (2.0-4.5GHz) 40W Min, 43W typical (4.5GHz-6.0GHz) **Output Power at 1dB Gain Compression** 28W Min, 30W typical (2.0-4.5GHz) 22W Min, 24W typical (4.5GHz-6.0GHz) Gain 47dB Min Third Order Intercept Point (see note 1) 54dBm **Gain variation with Frequency** ±2.5dB Harmonics at 22W Output Power (2.0-6.0GHz) Better than -20dBc **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** <500VA (Max) **Mains Connector** IEC320

Mechanical

RF Connector Style

Safety Interlock

USB/GPIB Interface

Dimensions

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 Emissions EN61326 Class A
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





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Tel: +44 (0) 1983 821 818 **Fax:** +44 (0) 1983 532 737 **E-mail:** sales@vectawave.co.uk