Vectawave
Technology Limited

VBA2000-600

1000 - 2000MHz 600W Amplifier

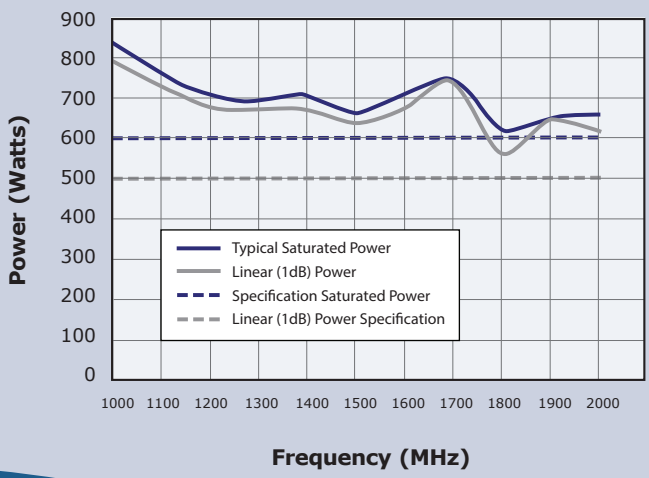
- **High reliability proven GaAs design**
- **Class A for maximum mismatch drive**
- **TWT replacement for automotive testing**
- **General linear power requirements**

The **VBA 2000-600** is a member of our family of 1000MHz-2000MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the **VBA 2000** series, it is based on our GaAs technology, offering the user the benefits of linearity, ruggedness and efficiency. With its compression point close to saturated output, it is equivalent to TWT amplifiers of twice the output power.

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 and efficiency.

See overleaf for technical specification

Specifications VBA2000-600

Electrical

Frequency Range (Instantaneous)	1000-2000MHz
Rated Output Power	600W Min
Output Power at 1dB Gain Compression	500W Min
Gain	58dB Min
Third Order Intercept Point (see note 1)	66dBm
Gain variation with Frequency	±3dB
Harmonics at 450W Output Power	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	See options for 3 phase configuration
Supply Frequency Range	45-63Hz
Supply Power	<4kVA (Max)
Mains Connector	Appropriate IEC 60309 plug (see Options)

Mechanical

RF Connector Style	Input Type N Female, Output 7/16 Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
Ethernet/USB/GPIB Interface	Optional
Dimensions	19 inch 34U rack, 800mm deep
Mass	200kg
Operating Temperature Range	0-40°C
Options	3 Phase Delta (5 pin plug) or 3 Phase Star (5 pin plug)

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:2013 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

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

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