

VBA3100-25

800MHz - 3.1GHz 25W Amplifier

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

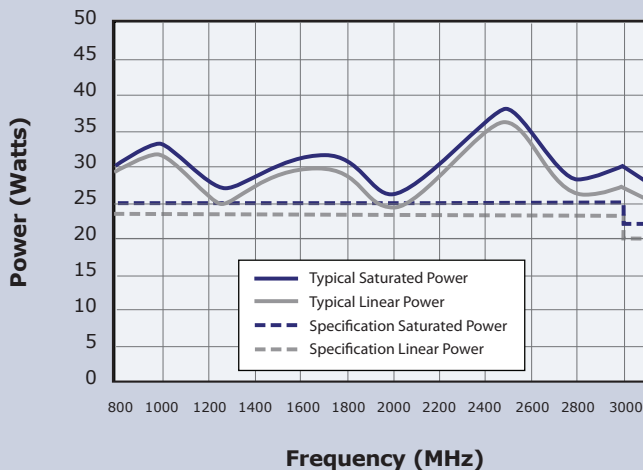
The **VBA3100-25** is a member of our family of 800MHz-3.1GHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA3100 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, efficiency and cost.

See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	800-3100MHz
Rated Output Power	25W Min, 30W typical (800MHz-3.0GHz) 22W Min, 25W typical (3.0GHz-3.1GHz)
Output Power at 1dB Gain Compression	23W Min, 25W typical (800MHz-3.0GHz) 20W Min, 22W typical (3.0GHz-3.1GHz)
Gain	46dB Min
Third Order Intercept Point (see note 1)	54dBm
Gain variation with Frequency	±2dB
Harmonics at 23W 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	85-264V ac
Supply Frequency Range	45-63Hz
Supply Power	<200VA (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, 3U Case, 440mm Deep
Mass	14kg
Operating Temperature Range	0-40°C
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

**Represented Worldwide**

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