Vectawave
Technology Limited

VBA100-900

10kHz - 100MHz 900W Amplifier

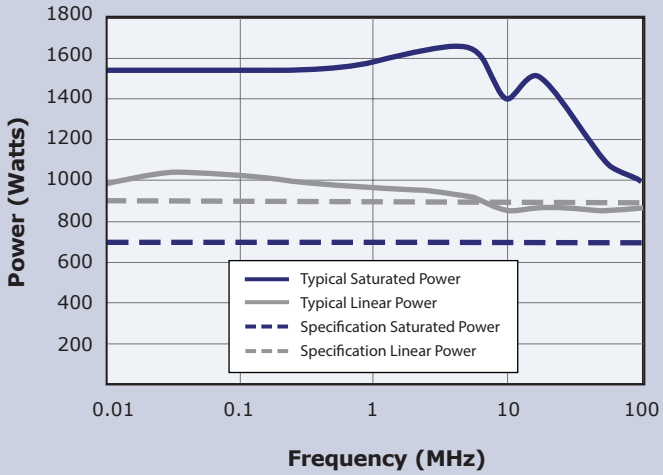
- **Robust silicon MOSFET push-pull output design**
- **High efficiency proprietary combiner design**
- **Class A for maximum mismatch drive**
- **General linear power requirements**

The **VBA 100-900** is a member of our family of 10kHz-100MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA100 series, it is based on high performance silicon push-pull MOSFET output stages. The amplifier utilizes exclusive power combining techniques, minimizing loss for a more efficient solution.

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 **Vectawave** for high efficiency and performance in your regular power amplifier requirements.

See overleaf for technical specification

Specifications	VBA100-900
Electrical	
Frequency Range (Instantaneous)	10kHz-100MHz
Rated Output Power	900W Min, 1000W typical
Output Power at 1dB Gain Compression	700W Min, 800W typical
Gain	63dB Min
Third Order Intercept Point (see note 1)	67dBm
Gain variation with Frequency	±2dB
Harmonics at 700W 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	184-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<3kVA (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, 6U Rack, 550mm Deep
Mass	33kg
Operating Temperature Range	0-40°C
Case Style Options	Rack mount with rear 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.

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

Represented Worldwide

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