Vectawave
Technology Limited

VBA100-30

10kHz - 100MHz 30W Amplifier

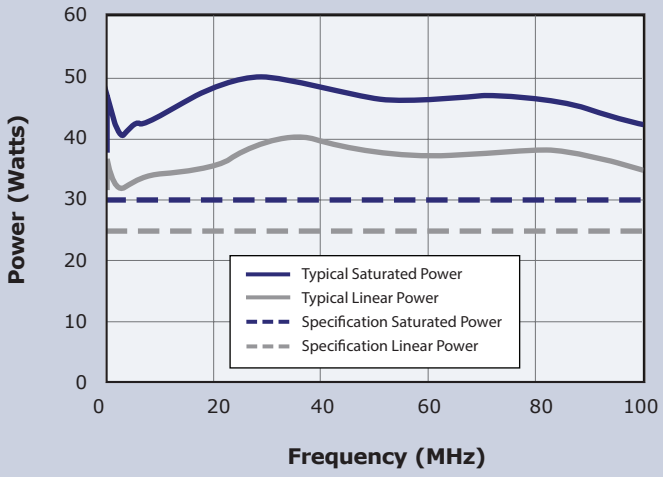
- **Rugged Silicon DMOS technology**
- **Class A for maximum mismatch drive**
- **General linear power requirements**

The **VBA100-30** is a member of our family of 10 kHz-100 MHz high power amplifiers, designed primarily for EMC applications.

The VBA100 series is based on rugged silicon DMOS technology. 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 requirements.

Performance Chart



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

See overleaf for technical specification

Sales Partner: ABSOLUTE EMC

ABSOLUTE *EMC* Llc.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone:703-774-7505
info@absolute-emc.com

Specifications — VBA100-30

Electrical

Frequency Range (Instantaneous)	0.01-100MHz
Rated Output Power	30W Min (40W typical)
Output Power at 1dB Gain Compression	25W Min (35W typical)
Gain	46dB Min
Third Order Intercept Point (see note 1)	54dBm
Gain variation with Frequency	±2dB
Harmonics at 25W 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	47-63Hz
Supply Power	<120VA (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, 400mm Deep
Mass	12kg
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.

ACS REGISTRARS Quality Assurance ISO 9001 — UKAS QUALITY MANAGEMENT 229

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

Sales Partner: ABSOLUTE EMC

ABSOLUTE EMC Llc.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone:703-774-7505
info@absolute-emc.com