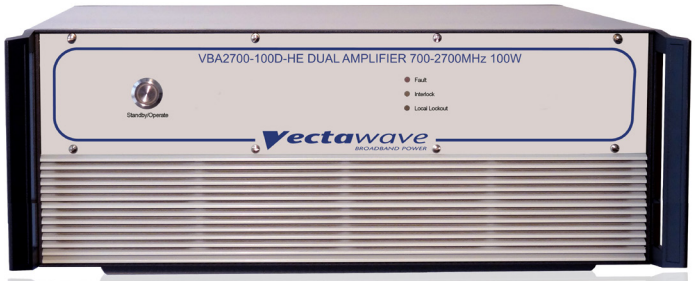
Vectawave
Technology Limited

VBA 2700-100D-HE

700MHz - 2700MHz 100W Dual Channel Amplifier

- **High reliability GaN design**
- **Low cost, high efficiency Class AB design**
- **Ideal for PIM applications**



The **VBA 2700-100D-HE** is a member of our family of 700MHz - 2700MHz class AB power amplifiers, specifically designed for PIM applications but also suited to general purpose applications.

Products in the VBA 2700 HE series, are based on GaN technology, offering the user the benefits of high efficiency and low cost. The amplifier is fitted with protection against mismatch loads

See overleaf for technical specification

Specifications VBA2700-100D-HE

Electrical

Frequency Range (Instantaneous)	700 - 2700MHz
Rated Output Power per channel	100W Min
Gain	51dB Min
Third Order Intercept Point (see note 1)	60dBm
Gain variation with Frequency	±2dB
Harmonics at 100W Output Power	Better than -12dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	100-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<1.5kVA (Max)
Mains Connector	IEC320-20

Mechanical

RF Connector Style	Inputs 2x Type N female, Outputs 2x 7/16 female, Sample ports 2x SMA 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	18.7kg
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.

ACS REGISTRARS Quality Assurance ISO 9001 UKAS 229

Vectawave Technology Limited

Designers and Manufacturers of Solid State RF and Microwave Amplifiers

Represented Worldwide

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See overleaf for technical specification

Specifications VBA2700-100-HE

Electrical

Frequency Range (Instantaneous)	700 - 2700MHz
Rated Output Power per channel	100W Min
Gain	51dB Min
Third Order Intercept Point (see note 1)	60dBm
Gain variation with Frequency	±2dB
Harmonics at 100W Output Power	Better than -12dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	100-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<1.5kVA (Max)
Mains Connector	IEC320-20

Mechanical

RF Connector Style	Input Type N female, Output 7/16 female, Sample port SMA 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	15.3kg
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

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VBA 2700-200-HE

700MHz - 2700MHz 200W Amplifier

- **High reliability GaN design**
- **Low cost, high efficiency Class AB design**
- **Ideal for PIM applications**

The **VBA 2700-200-HE** is a member of our family of 700MHz-2700MHz class AB power amplifiers, specifically designed for PIM applications but also suited to general purpose applications.

Products in the VBA 2700 HE series, are based on GaN technology, offering the user the benefits of high efficiency and low cost. The amplifier is fitted with protection against mismatch loads.

See overleaf for technical specification

Specifications VBA2700-200-HE

Electrical

Frequency Range (Instantaneous)	700 - 2700MHz
Rated Output Power per channel	200W Min
Gain	54dB Min
Third Order Intercept Point (see note 1)	64dBm
Gain variation with Frequency	±2dB
Harmonics at 100W Output Power	Better than -12dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	100-264V ac
Supply Frequency Range	47-63Hz
Supply Power	<1.5kVA (Max)
Mains Connector	IEC320-20

Mechanical

RF Connector Style	Input Type N female, Output 7/16 female, Sample port SMA 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	18.8kg
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.

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