

VBA 2700/3100-500

2700MHz-3100MHz 500W Amplifier

- Silicon LDMOS balanced stages.
- · High efficiency Class AB design
- Ideal for automotive testing and high duty S band radar applications

The **VBA 2700/3100-500** is a class AB amplifier, based on silicon LDMOS technology operating in S-band. Designed to deliver 600V/m radiated field when used in conjunction with a suitable antenna and chamber, the amplifier is designed primarily to address automotive radar pulse EMC test standards, but also suitable for high duty cycle radar applications such as radar imaging.

The amplifier is suitable as a TWT replacement, offering solid state reliability and improved gain compression characteristics, and is capable of being operated in CW mode or pulsed via a dedicated BNC input. Circulator protection is fitted, providing effective isolation between the amplifier and reflected signals for enhanced ruggedness.

Forward and reflected power ratios are indicated via the multifunction front panel display.



See overleaf for technical specification

Electrical

Frequency Range (Instantaneous) 2700-3100MHz 500W CW / pulsed **Rated Output Power Output Power at 1dB Gain Compression** 350W CW / pulsed Gain 57dB Third Order Intercept Point (see note 1) 66dBm ±2dB **Gain variation with Frequency Output Impedance** 50 Ohms Stability Unconditional **Output VSWR Tolerance (see note 2)** Infinity any phase **Input VSWR** 2:1 (Max) Pulse Rise Time (10%-90%) 50ns (see note 3) Pulse Fall Time (10%-90%) 80ns (see note 3) **Pulse Delay Time** 300ns (see note 3) **Maximum Pulse Width** 5ms for max. pulse droop **Maximum Pulse Droop** 0.5dB **External Pulse Operation** BNC Input 5-8V, O/C for CW operation **Supply Voltage** 190-225VAC or 346-415VAC See options for 3 phase configuration **Supply Frequency Range** 47-63Hz <4kVA (Max) **Supply Power Mains Connector** Appropriate IEC60309 plug (see options) Safety Interlock 2 x BNC, S/C and O/C to mute **USB/GPIB Interface** Standard **Multifunction Display** Standard

Mechanica

RF Connector Style

Input Type N female, Output 7/16 female,

Dimensions

19", 16U, 600mm deep

Mass

60kg

Operating Temperature Range

Case Style Options

Rack mount with rear panel connectors

Regulatory Compliance

Conducted and Radiated Emissions EN61326 Class A (When correctly terminated, and in standalone operation)

Conducted and Radiated Immunity EN61326:1997 Table 1

Safety EN61010-1

Options 3 Phase Delta (5 pin plug) 3 Phase Star (5 pin plug)

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.
- $3\,$ $\,$ Measured at saturated power, 3µs pulse width, 10% duty cycle.



Официальный представитель в России



