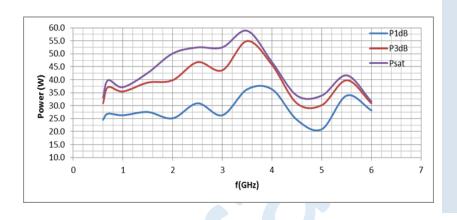
VBA0660-25

600MHz-6000MHz 25W Amplifier







- GaN technology
- Class A for maximum mismatch drive
- Featuring high efficiency proprietary Quadrature Hybrid designs

The VBA0660-25 is a 600-6000MHz high power amplifier designed for applications where a rugged Class A mismatch tolerant amplifier is required.

The amplifier is based on high performance extra wideband GaN output stages and utilizes Vectawave proprietary Quadrature Hybrid combining techniques, minimizing loss for a more efficient solution.

The amplifier can be controlled remotely via the Ethernet, USB and GPIB interfaces. The digital interface system manages enabling and disabling the amplifier, monitoring power supply health, communicating with the control computer and implementing electrical interlocks.

The amplifier operates in class A, with very low distortion and tolerance of 100% mismatch without foldback. See overleaf for technical specification.

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Technical Specification

Electrical

Frequency Range (Instantaneous)	600-6000MHz
Rated Output Power	25W

Output Power at 1dB Gain Compression

Gain Third Order Intercept Point (see note 1) Gain variation with Frequency Harmonics at rated linear power

Output Impedance Stability Output VSWR Tolerance (see note 2) Input VSWR Supply Voltage

Supply Frequency Range Supply Power Mains Connector

Mechanical RF Connector Style Safety Interlock Communication Interface Dimensions Mass Operating Temperature Range Case Style Options 46dB Min 54dBm ±3dB Better than -20dBc (1-6GHz) Better than -12dBc (0.6-1GHz)

50 Ohms Unconditional Infinity any phase 2:1 (Max) 100-240Vac (+/- 10%)

45-63Hz 300VA IEC320–C14

20W

Input type N female, output N female 2 x BNC, S/C and O/C to mute USB/GPIB/Ethernet 3U Rack, 500mm deep 7kg 0-40°C Rack Mountable or Bench top with rear or front panel connectors

Regulatory Compliance

Conducted and Radiated Emissions Conducted and Radiated Immunity Safety EN61326 Class A

EN61326:2013 Table 1 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.

