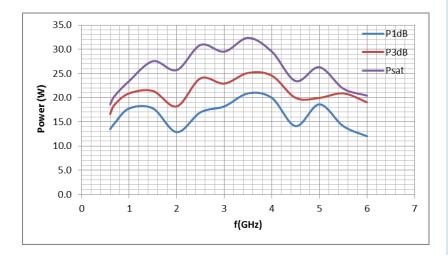
VBA0660-15

600MHz-6000MHz 15W Amplifier





- GaN technology
- Class A for maximum mismatch drive

ectawave

 Featuring high efficiency proprietary Quadrature Hybrid designs

The VBA0660-15 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.



Technical Specification

Electrical

Frequency Range (Instantaneous) 600-6000MHz

Rated Output Power 15W

Output Power at 1dB Gain

Compression

10W

Gain 43dB Min
Third Order Intercept Point (see note 1) 51dBm
Gain variation with Frequency ±3dB

Harmonics at rated linear power Better than -20dBc (1-6GHz)

Better than -14dBc (0.6-1GHz)

Output Impedance 50 Ohms
Stability Unconditional
Output VSWR Tolerance (see note 2) Infinity any phase

Input VSWR 2:1 (Max)

Supply Voltage 100-240Vac (+/- 10%)

Supply Frequency Range 45-63Hz Supply Power 150VA

Mains Connector IEC320 – C14

Mechanical

RF Connector Style Input type N female, output N female
Safety Interlock 2 x BNC, S/C and O/C to mute

Communication Interface USB/GPIB/Ethernet

Dimensions 3U Rack, 500mm deep

Mass 6kg
Operating Temperature Range 0-40°C

Case Style Options Rack Mountable or Bench top with rear or front panel

connectors

Regulatory Compliance

Conducted and Radiated EN61326 Class A

Emissions

Conducted and Radiated Immunity EN61326:2013 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.



