**VBA100-110**

10kHz - 100MHz  110W Amplifier

- Rugged push-pull MOSFET technology
- Class A for maximum mismatch drive
- General linear power requirements

The **VBA100-110** is a member of our family of 10kHz-100MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA100 series, it is based on rugged push-pull MOSFET technology, for extra even order harmonic suppression.

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.

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

*See overleaf for technical specification*
## Specifications VBA100-110

### Electrical

- **Frequency Range (Instantaneous):** 10kHz-100MHz
- **Rated Output Power:** 110W Min (145W typical)
- **Output Power at 1dB Gain Compression:** 90W Min (100W typical)
- **Gain:** 51dB Min
- **Third Order Intercept Point (see note 1):** 61dBm
- **Gain variation with Frequency:** ±2dB
- **Harmonics at 90W Output Power:** Better than -20dBc
- **Output Power at 1dB Gain Compression:** 90W Min (100W typical)
- **Output Impedance:** 50 Ohms
- **Stability:** Unconditional
- **Output VSWR Tolerance (see note 2):** Infinity:1
- **Input VSWR:** 2:1 (Max)
- **Supply Voltage:** 88-230VAC
- **Supply Frequency Range:** 47-63Hz
- **Supply Power:** <500VA (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, 4U Case, 550mm Deep
- **Mass:** 20kg
- **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.