# Power Amplifier 80 - 1000MHz 400W

## CBA 9434

- **Reliable**
- **Tested and matched to EMC antennas**
- **Protected outputs for EMC test loads**




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Models CBA 9434 is a Solid-State amplifier capable of generating 400W minimum power, over the 80 - 1000MHz frequency range. The gain performance has been deliberately slewed to be much higher at low frequencies to accommodate poor power transfers, normally found in radiated susceptibility testing, using conventional antennas. This Class A amplifier consists of a pre-amplifier driving two power modules via a divider and combiner. The units are powered from a switched mode power supply for high efficiency, high power factor and universal line operation. The units are air cooled with integral fans and is protected against faulty cooling by excess temperature sensing. A safety interlock connector is provided, which the user can short circuit to ground, to turn off the amplifier. Front panel indicators are provided to indicate over-temperature and RF interlock.

The amplifiers are designed for rugged operation into a variety of loads, and will tolerate even an '∞ - 1' load VSWR. The amplifiers are primarily intended for use as a power source for EMC susceptibility testing but are also applicable to other systems requiring a wide-band linear amplifier.

| Technical Specifications | CBA 9434 |
|---|---|
| Frequency range | 80 - 1000MHz |
| Saturated output power | 400W min |
| Linear power (<1dB gain comp) | 400W min [80MHz - 300MHz] |
| | 200W min [300MHz - 1GHz] |
| Gain | 58dB min |
| Gain flatness | N/A |
| Input return loss | 10dB min |
| Output impedance | 50Ω nominal |
| VSWR mis-match tolerance | ∞ : 1 |
| Harmonics at rated power | -20dBc |
| Input and output connectors | type N female |
| SafetyInterlock | BNC female, s/c to mute, 100mA max |
| Power supply | 184-264V ac, 47-66Hz, 4kVA Single Phase |
| Temperature range | 0 to +40˚C |
| Dimensions | 19 inch rack, 25U |
| | |
| Depth | 800mm max |
| Weight | 110kg max |