Broadband Power Amplifier 0.01 - 100MHz 1.1KW

CBA 9435

- **Reliable Class A**
- **Ideal for broadband communications applications**
- **Tested and matched to EMC applications**
- **Safe operation into open-circuit and short-circuit**



CBA 9435

Model CBA 9435 is a solid-state amplifier capable of generating 1.1kW minimum power over a 0.01-100MHz frequency range.

The amplifier consists of a pre-amplifier driving four power modules via divider and combiner combinations. The unit is powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is 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 interlock. The amplifier is designed for rugged operation into a variety of loads.

The amplifier is primarily intended for use as a power source for EMC susceptibility testing, but is also applicable to other systems requiring a wide-band linear amplifier.

Technical Specifications	CBA 9435
Saturated output power	1.1kW minimum
Linear power (<1dB gain comp)	1kW minimum
Gain	61dB minimum
Input return loss	10dB minimum
Output impedance	50 ohm nominal
VSWR mis-match tolerance	infinity:1
Harmonics	-20dBc maximum at rated power
Input and output connector	type N female
Safety interlock	BNC female, s/c to mute, 100mA max
Power supply	Optional single phase 184-264V ac or three phase 184-264V ac delta connected, 319-457V star connected, user specified 45-66Hz, 6kVA maximum
Temperature range	0 to +40ºC
EMC and Safety	
Conducted emissions	EN50081-1
Conducted and radiated immunity	EN50082-1
Harmonic currents	EN61000-3-2
Safety	EN61010-1
Dimensions	
	The equipment is housed in a 34U high 19 inch cabinet.
Depth	800mm max
Mass	200kg max