Power Amplifier 80 - 1000MHz 50W

CBA 9426

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

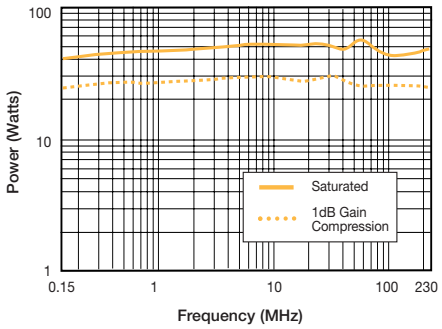
CBA 9426

Model CBA 9426 is a Solid-State Class A amplifier capable of generating 50W minimum power over the 80-1000MHz frequency range. The unit is powered from a switched mode power supply for high efficiency, high power factor and universal line 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 RF interlock. The amplifier is designed for rugged operation into a variety of loads, and will tolerate even an '∞ - 1' load VSWR.

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.

This graph (below) shows figures based on 'typical', commercially available, transducers used in accordance with IEC 61000-4-3 and indicates the linear power required from the amplifier to achieve stress levels as defined by the standard in Volts per metre.

Typical Power Output



Technical Specifications		CBA 9426
Saturated output power		50W min
Linear power (<1dB gain comp)	80MHz - 1000MHz	30W min
Gain		52dB min
Gain flatness		±2dB
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
Safety interlock		BNC female, s/c to mute, 100mA max
Power supply		184-264V ac, 47-63Hz, 1kW max
Temperature range		0 to +40°C
Dimensions		19" rack, 4U
Depth		492mm max
Weight		15kg max