



CBA 230M-035 150 KHZ TO 230 MHZ 35 WATT CLASS A BROADBAND AMPLIFIER



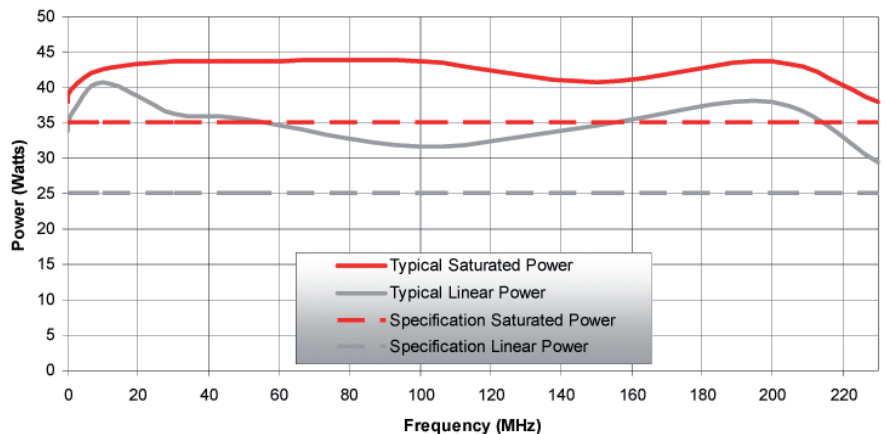
- Class A linear and low distortion design
- Ideal for IEC61000-4-6 testing
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

Designed specifically for Conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into injection clamps and CDN for IEC61000-4-6 conducted susceptibility testing up to and beyond the normal 10 V emf test level.

The Class A design ensures a high reliability, low distortion linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

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. Front panel indicators are provided to indicate over-temperature.

CBA 230M-035 Performance Data





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Key RF Parameters	
Frequency range (instantaneous)	0.15 to 230 MHz
Rated output power	35 W minimum (37 W typical)
Output power at 1 dB gain compression	25 W minimum (30 W typical)
Harmonics at 25 W output power	Better than -20 dBc
Gain	46 dB
Gain variation with frequency	±2 dB
Maximum input power (no damage)	+10 dBm

Impedance / VSWR	
Output VSWR tolerance ¹	Infinite any phase
Stability	Unconditional
Output impedance	50 Ω
Input VSWR	2:1

Additional RF Data	
Third order intercept point ²	55 dBm
RF connector style	Type N female

Electrical and Interfaces	
USB interface	Optional
Safety interlock	BNC female, s / c to mute
Supply voltage (single phase)	85 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<140 VA

Physical / Environmental	
Case dimensions	19 inch, 3U case, 440 mm deep
Weight	12 kg
Operating temperature range	0°C–40°C

Notes:

1. Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.
2. The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.

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