



CBA 230M-022

150 kHz TO 230 MHz 22 WATT

CLASS A BROADBAND AMPLIFIER

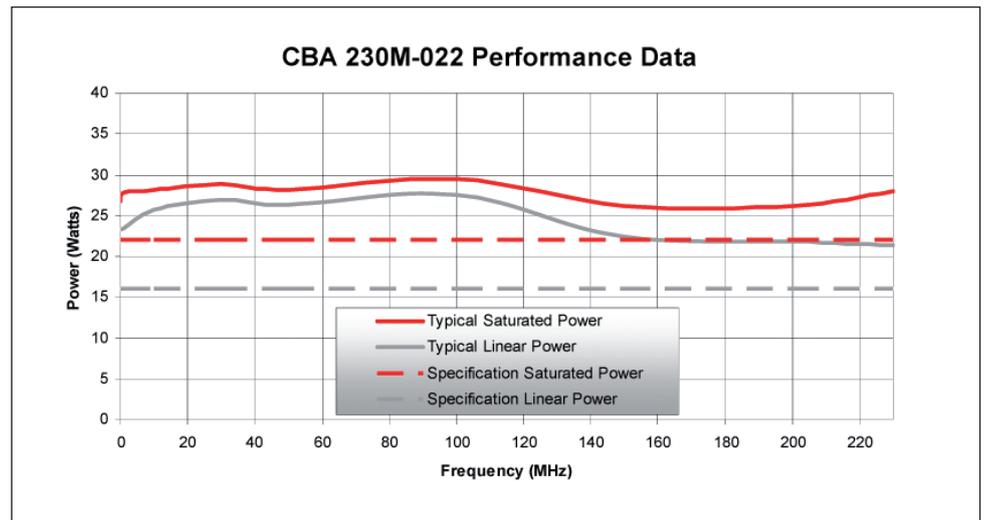


- Class A linear and low distortion design
- Ideal for IEC61000-4-6 testing
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into a 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.



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Technical specifications

Frequency range (instantaneous)	0.15 to 230 MHz
Rated output power	22 W minimum (27 W typical)
Output power at 1 dB gain compression	16 W minimum (20 W typical)
Gain	46 dB
Third order intercept point (see note 1)	54 dBm
Gain variation with frequency	±2 dB
Harmonics at 16 W output power	Better than -20 dBc
Output impedance	50 Ohms
Stability	Unconditional
Output VSWR tolerance (see note 2)	Infinite any phase
Input VSWR	2:1
Safety interlock	BNC female, s/c to mute
RF connector style	Type N female
USB interface	Optional
Supply voltage (single phase)	85 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<120 VA
Mains connector	IEC320
Conducted and radiated emissions	EN61326 Class A
Conducted and radiated immunity	EN61326: 1997 Table 1
Mains harmonic currents	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Safety	EN61010-1
Case dimensions	19 inch, 3U case, 440 mm deep
Mass	12 kg
Operating temperature range	0 to 40°C
Options (select at time of ordering)	
341-711	Bench model with front panel mounted input/output connectors
341-811	Rack mountable with front panel mounted input/output connectors
341-911	Rack mountable with rear panel mounted input/output connectors

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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.

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Advanced Test Solutions for EMC