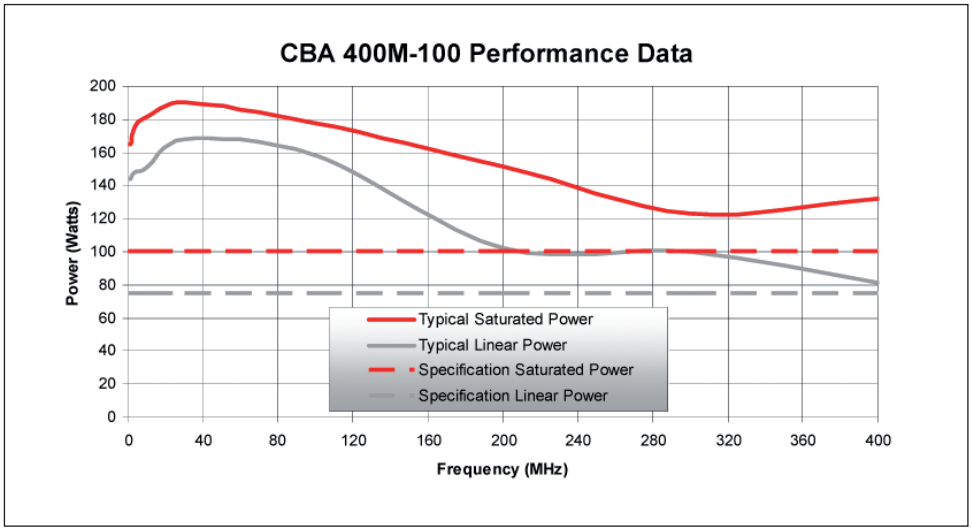
CBA 400M-100
1 MHz TO 400 MHz 100 WATT CLASS A BROADBAND AMPLIFIER

- **Class A linear and low distortion design**
- **Ideal for BCI testing**
- **Mismatch tolerant and unconditionally stable**
- **Rugged design for EMC testing**

Designed specifically for automotive, military and aerospace BCI EMC testing, this mismatch tolerant Class A amplifier delivers power continuously into the varying match typically associated with this type of testing.

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. A safety interlock connector is provided, which the user can short circuit to ground, to put the amplifier into standby mode. Front panel indicators are provided to indicate over-temperature and rf interlock operation.



TESEQ

Advanced Test Solutions for EMC

CBA 400M-100
1 MHz TO 400 MHz 100 WATT CLASS A BROADBAND AMPLIFIER

Technical specifications

Frequency range (instantaneous)	1 to 400 MHz
Rated output power	100 W minimum (>140 W typical)
Output power at 1 dB gain compression	75 W minimum (>100 W typical)
Gain	51 dB
Third order intercept point (see note 1)	61 dBm
Gain variation with frequency	±2 dB
Harmonics at 75 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
RF connector style	Type N female
Safety interlock	BNC female, s/c to mute
USB interface	Optional
Supply voltage (single phase)	85 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<1 kVA
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, 4U case, 440 mm deep
Mass	17 kg
Operating temperature range	0 to 40°C
Options (select at time of ordering)	
341-715	Bench model with front panel mounted input/output connectors
341-815	Rack mountable with front panel mounted input/output connectors
341-915	Rack mountable with rear panel mounted input/output connectors

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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