



CBA 400M-260

10 kHz TO 400 MHz 260 WATT

CLASS A BROADBAND AMPLIFIER

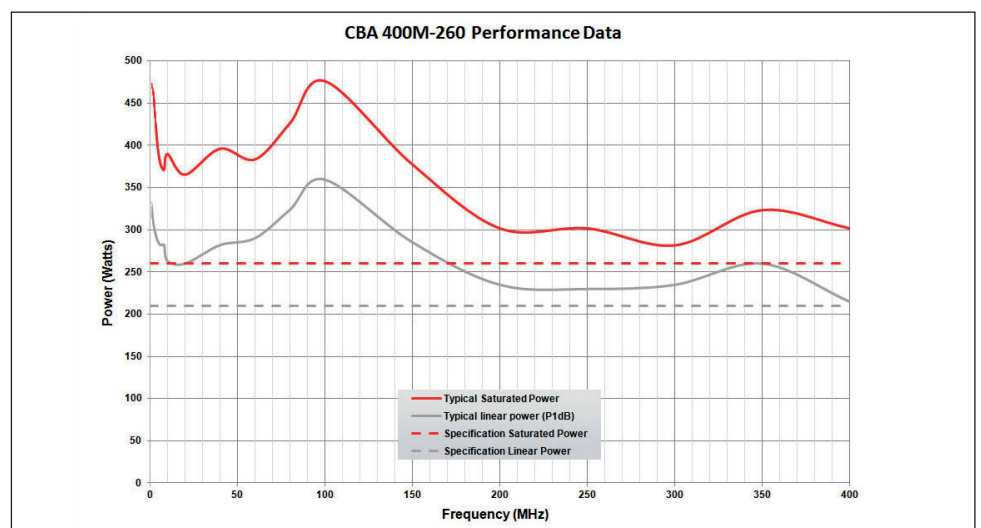


- Class A linear and low distortion design
- High reliability gallium arsenide technology
- Mismatch tolerant and unconditionally stable
- Wide instantaneous bandwidth
- Remote control option
- Three year parts and labour warranty

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

The GaAs Class A push pull 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. For added flexibility, two safety interlock BNC connectors are provided on the rear panel which allows either short circuit or open circuit to mute the output from the amplifier. Front panel indicators are provided to indicate over-temperature and rf interlock operation.



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Technical specifications

Frequency range	10 kHz to 400 MHz
Rated output power	260 W minimum (>300 W typical)
Output power at 1 dB gain compression	210 W minimum (>240 W typical)
Gain (nominal)	54 dB
Third order intercept point ¹	64 dBm
Gain variation with frequency	±3 dB
Harmonics at 210 W output power	Better than -20 dBc
Output Impedance	50 Ω
Stability	Unconditional
Output VSWR tolerance ²	Infinity:1
Input VSWR	2:1
RF connector style	
Input	Type N female
Output	Type N female
Safety interlock	Dual input, O/C and/or S/C to mute
USB interface	Optional
Supply voltage	100 to 264 VAC
Supply frequency range	45 to 63 Hz
Supply power	<2 kVA
Mains connector	IEC 320
Conducted and radiated emissions	EN 61326 Class A
Conducted and radiated immunity	EN 61326: 1997 table 1
Mains harmonic currents	EN 61000-3-2
Voltage fluctuations and flicker	EN 61000-3-3
Safety	EN 61010-1
Case dimensions	19 inch, 6U case, 440 mm deep
Mass	30 kg
Operating temperature range	0 to 40°C
Options (select at time of ordering)	
341-832	Rack mountable with front panel mounted input/output connectors
341-932	Rack mountable with rear panel mounted input/output connectors

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691-302A May 2013

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.



Advanced Test Solutions for EMC