

CBA250M-800

10 KHz to 250 MHz 800 Watt Class A Solid State Amplifier



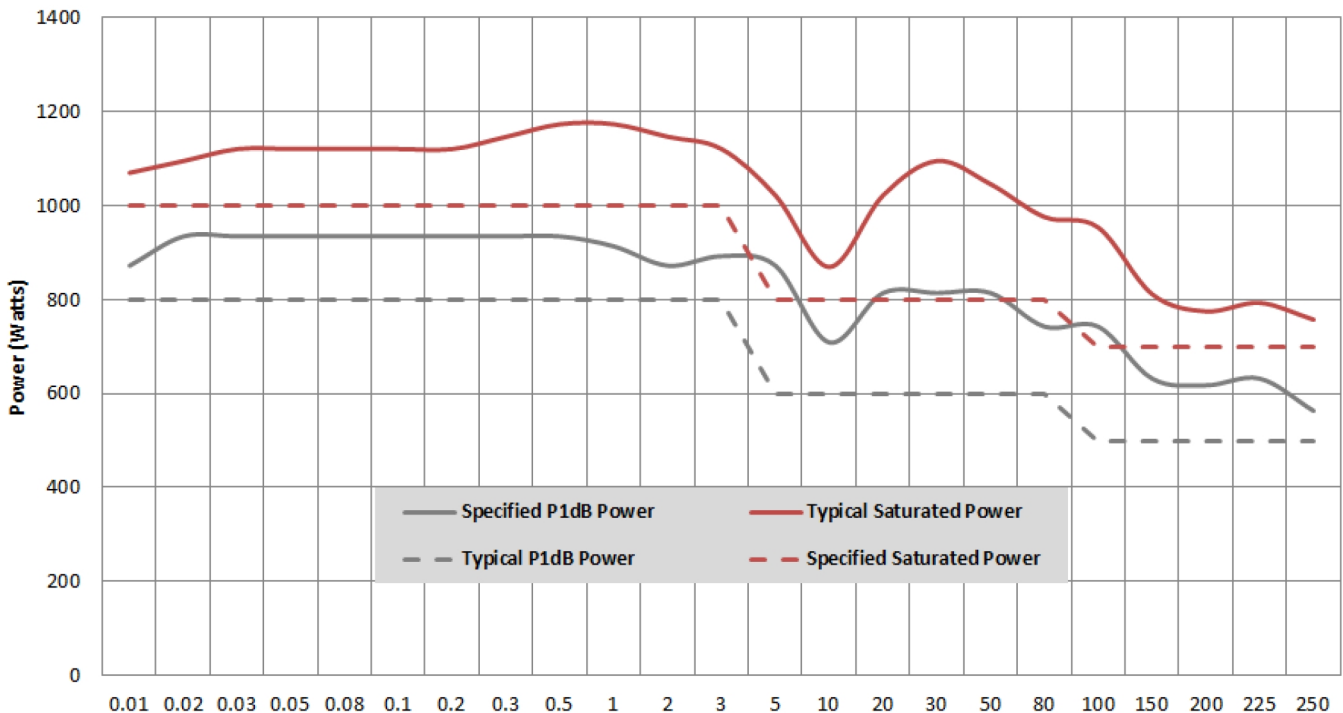
MAIN FEATURES

- **Class A Operation**
- **Ideal for Low Frequency Tests Using Strip Line Devices**
- **Mismatch Tolerant & Unconditionally Stable**
- **USB, Ethernet and GPIB interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL)**
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Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited for automotive test applications.

The Class A design ensures 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.



Technical Specifications

Frequency Range	0.01 - 250 MHz
Rated Output Power	10KHz-80MHz - 800W (min) - 900W (typ)
Rated Output Power	80-250MHz - 650W (min) - 750W (typ)
Power Output @ 1dB Compression	10KHz-80MHz - 650W (min)
Power Output @ 1dB Compression	80-250MHz - 500W (min)
Input for Rated Output	1 dBm
Small Signal Gain	63 dB
Gain Variation (max) ±	+/- 2.0 dB
Harmonics @ P1dB (min)	-20 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	68 dB
Noise Figure	10 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase (no foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	60 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	3 KVA
Supply Voltage	90 to 264 VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-EIA 1-5/8 female
Safety Interlock	2 x BNC, S/C and O/C to Mute
Dimensions (No Cabinet) (W x H x D)	48.3 x 26.7 x 55 cm (19 x 10.5 x 21.6 in) (6U)
Weight (No Cabinet)	20 Kg (44 lb)
Cooling System	Air Cooled, Self-contained
Com. Interface	GPIO, Ethernet & USB

Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M
Shock and Vibration	Normal Truck Transport

Regulatory Compliance (CE)

EMC	EN 61326-1
Safety	UL 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	No Licence Required

Available Configurations

Product	Configuration	Item #
CBA250M-800-002	Rear Panel RF Connectors	3-342513