

CBA250M-400**10 KHz - 250 MHz 400 Watt Class A Solid State Amplifier**

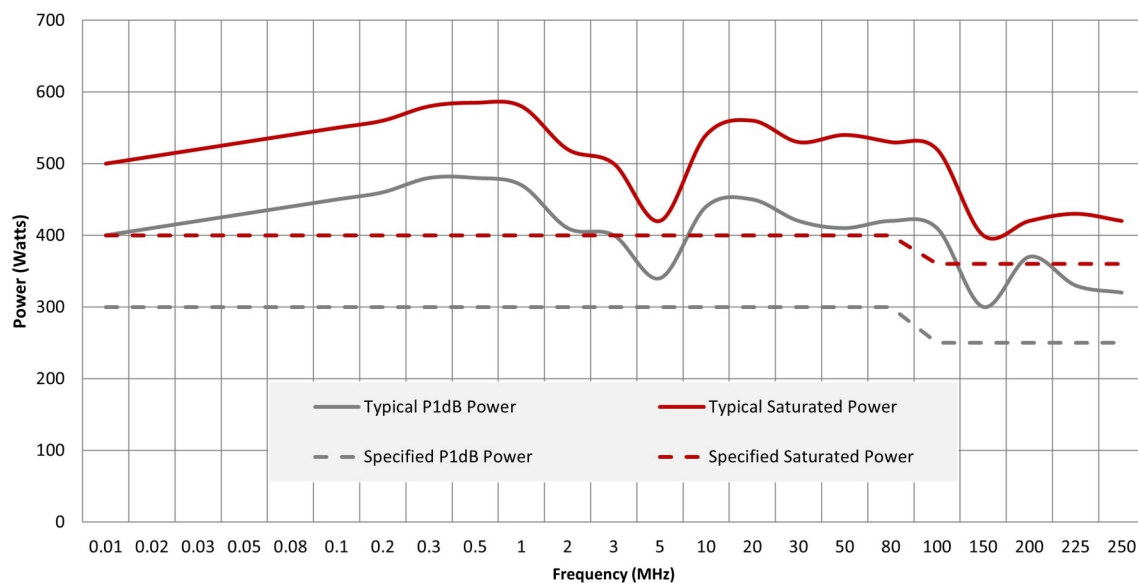
Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited for automotive test applications.

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.

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

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 Bands	Single Band
Frequency (min.) kHz	10 kHz
Frequency (max.) MHz	250 MHz
Psat	400W Min (10KHz-80MHz), 360W Min(80-250MHz)
P1dB	300W Min (10KHz-80MHz), 250W Min (80-225MHz)
Small Signal Gain	56 dB
Gain Variation (max) ±	+/- 2.0 dB
Harmonics @ P1dB (typ)	-20 dBc
Spurious (min.)	-70 dBc
3rd Order Intercept Point	66 dB > P1dB
Noise Figure	10 dB
Modulation Formats	AM, FM, Pulse
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase (no foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2:1 (typical)

General Specifications

Safety Interlock	Dual input, S/C and/or O/C to Mute
Supply Voltage	90 to 264 VAC
Supply Frequency	47 to 63
Supply Power (typ.)	1 kVA
RF Input Connector	Type N female
RF Output Connector	Type N female
Com. Interface	GPIO, Ethernet & USB
Weight kg	33 kg
Dimensions (WxHxD)	19 inch, 4U, 500mm
Cooling System	Air Cooled, Self-contained

Available Variants

Product	Configuration	Item #
CBA250M-400-001	Front Panel RF Connectors	3-342577
CBA250M-400-002	Rear Panel RF Connectors	3-342578