

CBA250M-800

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



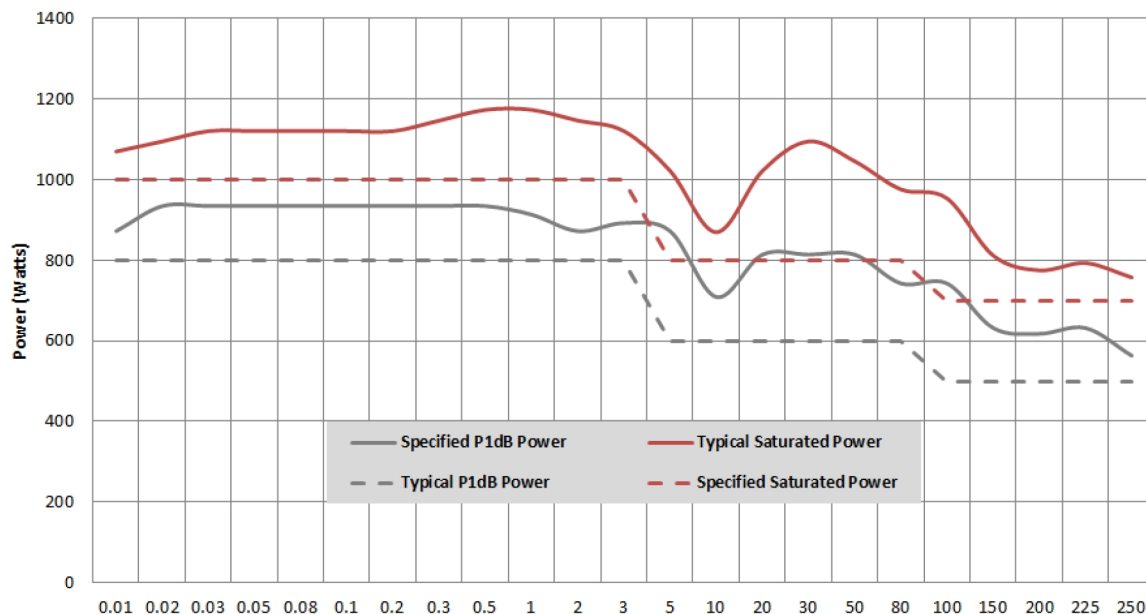
Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited for automotive test applications.

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 | 800W (min), 900W (typ) (10KHz-80MHz) / 650W (min), 750W (typ) (80-250MHz) |
| P1dB | 650W (min), 750W (typ) (10KHz-80MHz) / 500W (min), 600W (typ) (80-250MHz) |
| Small Signal Gain | 63 dB |
| Gain Variation (max) ± | +/- 2.0 dB |
| Harmonics @ P1dB (typ) | -20 dBc |
| Spurious (min.) | -70 dBc |
| 3rd Order Intercept Point | 10 dB > P1dB |
| 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 | 2 x BNC, S/C and O/C to Mute |
| Supply Voltage | 90 to 264 VAC |
| Supply Frequency | 47 to 63 |
| Supply Power (typ.) | 3 kVA |
| RF Input Connector | Type N female |
| RF Output Connector | Type N Female |
| Com. Interface | USB/GPIB |
| Weight kg | 20 kg |
| Dimensions | 19 inch, 6U, 550mm (WxHxD) |
| Cooling System | Air Cooled, Self-contained |

Availabe Variants

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