



CBA 400M-100

1 MHz TO 400 MHz 100 WATT CLASS A BROADBAND AMPLIFIER

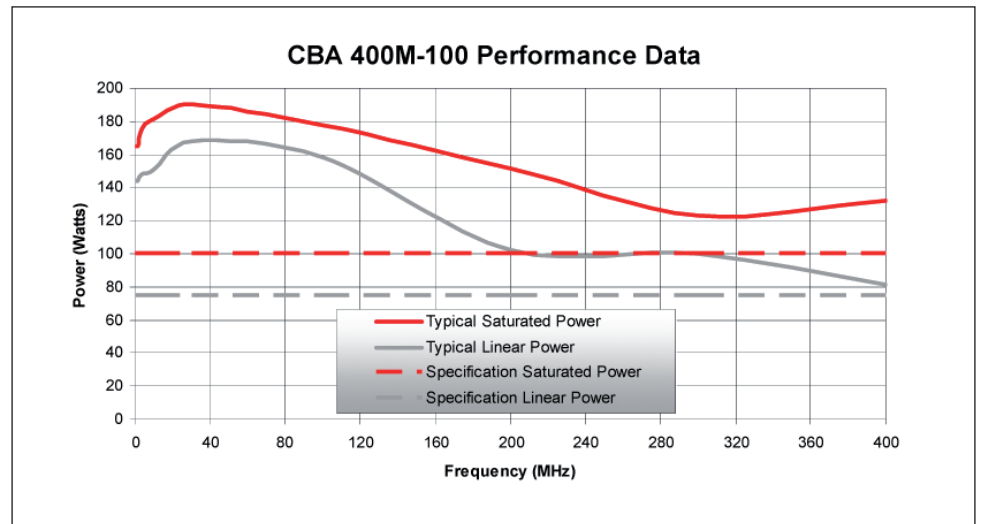


- Class A linear and low distortion design
- Ideal for BCI testing
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

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.



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Key RF Parameters

| | |
|---------------------------------------|--------------------------------|
| 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) |
| Harmonics at 75 W output power | Better than -20 dBc |
| Gain | 51 dB |
| Gain variation with frequency | ±2 dB |
| Maximum input power (no damage) | +10 dBm |

Impedance / VSWR

| | |
|------------------------------------|--------------------|
| Output VSWR tolerance ¹ | Infinite any phase |
| Stability | Unconditional |
| Output impedance | 50 Ohms |
| Input VSWR | 2:1 |

Additional RF Data

| | |
|--|---------------|
| Third order intercept point ² | 61 dBm |
| RF connector style | Type N female |

Electrical and Interfaces

| | |
|-------------------------------|-------------------------|
| USB interface | Optional |
| Safety interlock | BNC female, s/c to mute |
| Supply voltage (single phase) | 85 to 264 Vac |
| Supply frequency range | 47 to 63 Hz |
| Supply power | <1 KVA |

Physical / Environmental

| | |
|-----------------------------|-------------------------------|
| Case dimensions | 19 inch, 4U case, 440 mm deep |
| Weight | 17 kg |
| Operating temperature range | 0 to 40°C |

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Notes:

1. Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.
2. The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.