

## CBA 400M-110

### 10 KHz to 400 MHz 110 Watt Class A Solid State Amplifier



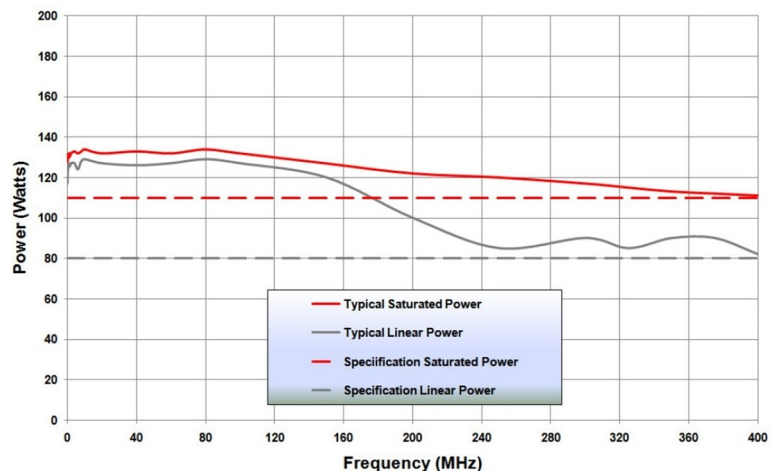
Designed specifically for automotive, military and aerospace BCI EMC testing, this mismatch tolerant Class A amplifier delivers power continuously into the varying match typically associated with this type of testing.

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.

#### MAIN FEATURES

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



## Technical Specifications

Frequency Bands	Single Band
Frequency (min.) kHz	10 kHz
Frequency (max.) MHz	400 MHz
Psat (min)	110 W
P1dB (min.)	80 W
Small Signal Gain	51 dB
Gain Variation (max) $\pm$	+/- 2.0 dB
Harmonics @ P1dB	-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	Via rear panel mounted BNC-female
Supply Voltage	90 to 264 VAC
Supply Frequency	47 to 63 Hz
Supply Power (typ.)	1 kVA
RF Input Connector	Type N female
RF Output Connector	Type N Female
Weight kg	18 kg
Dimensions mm	19 inch, 4U Rack Case, 440mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

## Available Variants

Product	Configuration	Item #
CBA 400M-110	Front Panel RF Connectors	CBA 400M-110
CBA 400M-110-8	Rear Panel RF Connector	CBA 400M-110-8