

CBA 230M-080

150 KHz to 230 MHz 80 Watt Class A Solid State Amplifier



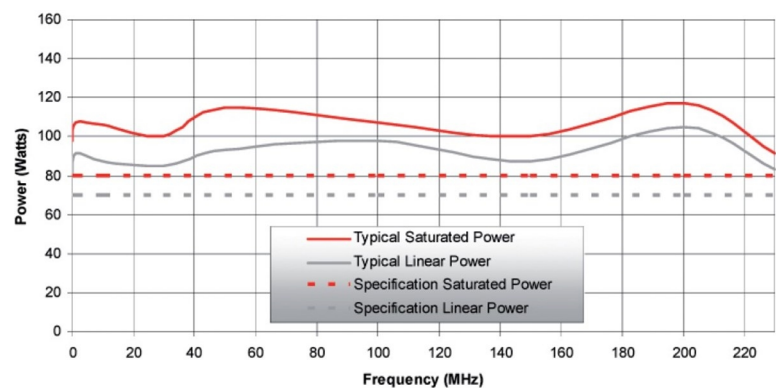
Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into Bulk Current Injection (BCI) probes, injection clamps and CDN for IEC 61000-4-6 conducted susceptibility testing up to and beyond the normal 10 V emf test level.

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. Front panel indicators are provided to indicate over-temperature.

MAIN FEATURES

- Class A linear and low distortion design
- Ideal for IEC 61000-4-6 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 | 150 kHz |
| Frequency (max.) MHz | 230 MHz |
| Psat (min) | 80 W |
| P1dB (min.) | 70 W |
| Small Signal Gain | 50 dB |
| Gain Variation (max) ± | +/- 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.) | 0.4 kVA |
| RF Input Connector | Type N female |
| RF Output Connector | Type N Female |
| Weight kg | 13 kg |
| Dimensions mm | 19 inch, 3U Rack Case, 440mm Deep (HxWxD) |
| Cooling System | Air Cooled, Self-contained |

Available Variants

| Product | Configuration | Item # |
|----------------|---------------------------|----------------|
| CBA 230M-080 | Front Panel RF Connectors | CBA 230M-080 |
| CBA 230M-080-8 | Rear Panel RF Connector | CBA 230M-080-8 |