



CBA 230M-022

150 kHz TO 230 MHz 22 WATT

CLASS A BROADBAND AMPLIFIER

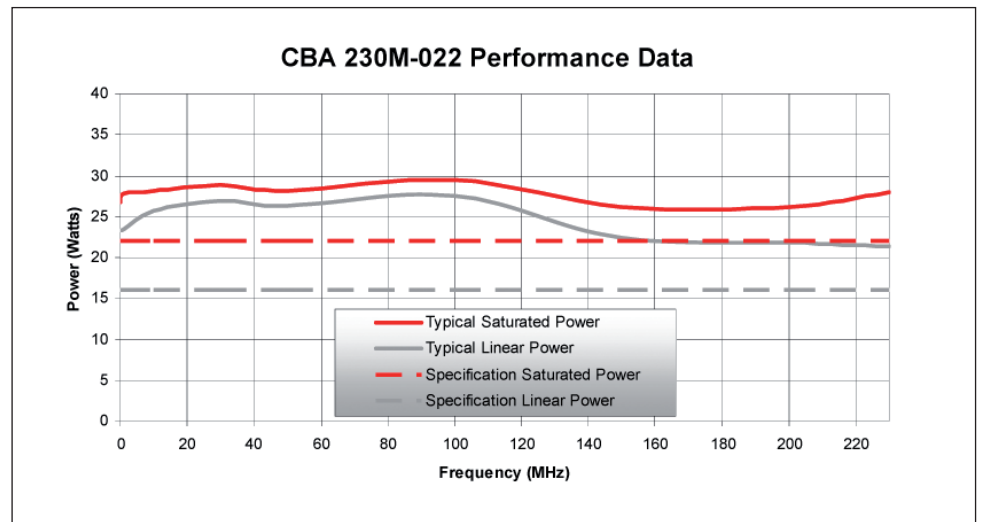


- Class A linear and low distortion design
- Ideal for IEC61000-4-6 testing
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into a CDN for IEC61000-4-6 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.





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Technical specifications

| | |
|------------------------------------------|-----------------------------------------------------------------|
| Frequency range (instantaneous) | 0.15 to 230 MHz |
| Rated output power | 22 W minimum (27 W typical) |
| Output power at 1 dB gain compression | 16 W minimum (20 W typical) |
| Gain | 46 dB |
| Third order intercept point (see note 1) | 54 dBm |
| Gain variation with frequency | ±2 dB |
| Harmonics at 16 W output power | Better than -20 dBc |
| Output impedance | 50 Ohms |
| Stability | Unconditional |
| Output VSWR tolerance (see note 2) | Infinite any phase |
| Input VSWR | 2:1 |
| Safety interlock | BNC female, s/c to mute |
| RF connector style | Type N female |
| USB interface | Optional |
| Supply voltage (single phase) | 85 to 264 Vac |
| Supply frequency range | 47 to 63 Hz |
| Supply power | <120 VA |
| Mains connector | IEC320 |
| Conducted and radiated emissions | EN61326 Class A |
| Conducted and radiated immunity | EN61326: 1997 Table 1 |
| Mains harmonic currents | EN61000-3-2 |
| Voltage fluctuations and flicker | EN61000-3-3 |
| Safety | EN61010-1 |
| Case dimensions | 19 inch, 3U case, 440 mm deep |
| Mass | 12 kg |
| Operating temperature range | 0 to 40°C |
| Options (select at time of ordering) | |
| 341-711 | Bench model with front panel mounted input/output connectors |
| 341-811 | Rack mountable with front panel mounted input/output connectors |
| 341-911 | Rack mountable with rear panel mounted input/output connectors |

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Notes:

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