

CBA 230M-035

150 KHz to 230 MHz 35 Watt Class A Solid State Amplifier



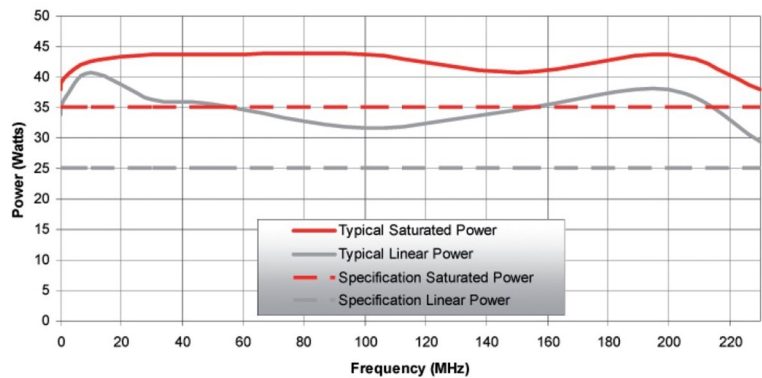
Designed specifically for conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into a CDN for IEC 61000-4-6 conducted susceptibility testing up to and beyond the normal 10 V emf test level.

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)	35 W
P1dB (min.)	25 W
Small Signal Gain	46 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.)	0.14 kVA
RF Input Connector	Type N female
RF Output Connector	Type N Female
Weight kg	12 kg
Dimensions mm	19 inch, 3U Rack Case, 440mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

Available Variants

Product	Configuration	Item #
CBA 230M-035	Front Panel RF Connectors	CBA 230M-035
CBA 230M-035-8	Rear Panel RF Connector	CBA 230M-035-8