TΞSEQ

Advanced Test Solutions for EMC

CBA230M-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 Operation
- Ideal for IEC 61000-4-6 testing
- Mismatch Tolerant & Unconditionally Stable
- USB Remote Control Option
- 3 Year Warranty

AMETEK®
COMPLIANCE TEST SOLUTIONS
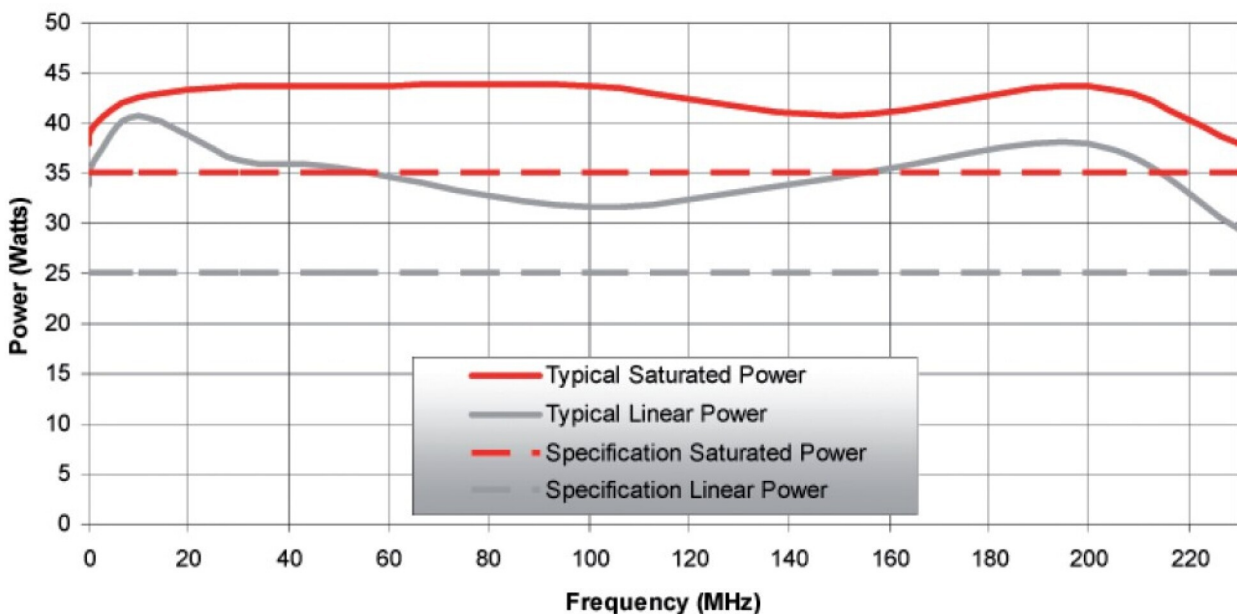
Technical Specifications

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 (typ)	-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
Supply Power (typ.)	0.14 kVA
RF Input Connector	Type N female
RF Output Connector	Type N female
Weight kg	12 kg
Dimensions	19 inch, 3U, 440mm (WxHxD)
Cooling System	Air Cooled, Self-contained

Availabe Variants

Product	Configuration	Item #
CBA230M-035-001	Front Panel RF Connectors	3-342412
CBA230M-035-002	Rear Panel RF Connectors	3-342413