CBA 400M-260

10 KHz to 400 MHz 260 Watt Class A Solid State Amplifier

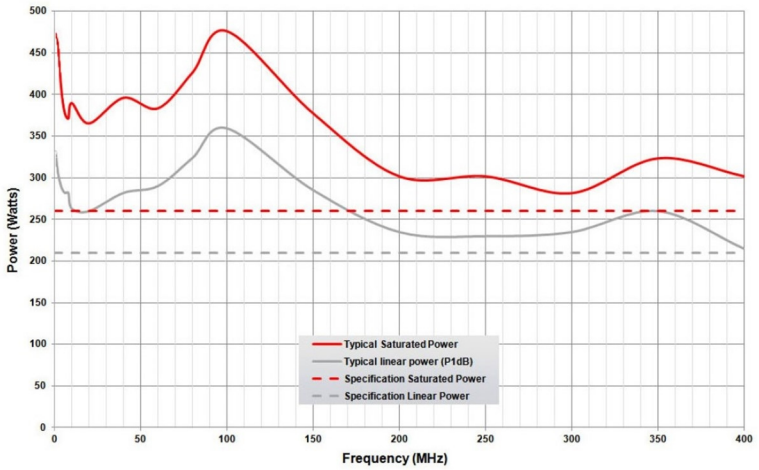
Designed specifically for automotive, military and aerospace BCI and other susceptibility EMC testing,this mismatch tolerant Class A amplifier delivers power continuously into the varying match typically associated with this type of testing.

The GaAs Class A push pull 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. For added flexibility, two safety interlock BNC connectors are provided on the rear panel which allows either short circuit or open circuit to mute the output from the amplifier. 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)	260 W
P1dB (min.)	210 W
Gain @Rated Output Power	54 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics P1dB	-20 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)
Spurious (min.)	-70 dBc
Spurious (typ.)	-80 dBc

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	20 kg
Dimensions mm	19 inch, 4U Rack Case, 440mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

Availabe Variants

Product	Configuration	Item #
CBA 400M-260	Front Panel RF Connectors	CBA 400M-260
CBA 400M-260-8	Rear Panel RF Connector	CBA 400M-260-8

Specifications subject to change without notice. Ametek CTS is an ISO accredited Company. Products are designed and manufactured under strict quality and environmental requirements of ISO 9001.