



CBA 400M-260 10 KHZ TO 400 MHZ 260 WATT CLASS A BROADBAND AMPLIFIER



- Class A linear and low distortion design
- High reliability gallium arsenide technology
- Mismatch tolerant and unconditionally stable
- Wide instantaneous bandwidth
- Remote control option
- Three year parts and labour warranty

Designed specifically for automotive, military and aerospace BCI and other susceptibility EMC testing, this mismatch tolerant Class A amplifi er 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.

CBA 400M-260 Performance Data 500 450 400 350 200 150 100 150 200 200 200 150 300 350 400 Frequency (MHz)





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Key RF Parameters	
Frequency range (instantaneous)	10 kHz to 400 MHz
Rated output power	260 W minimum (>300 W typical)
Output power at 1 dB gain compression	210 W minimum (>240 W typical)
Harmonics at 210 W output power	Better than -20 dBc
Gain (nominal)	54 dB
Gain variation with frequency	±3 dB
Maximum input power (no damage)	+10 dBm

Impedance / VSWR	
Output VSWR tolerance 1	Infinity:1
Stability	Unconditional
Output impedance	50 Ω
Input VSWR	2:1

Additional RF Data	
Third order intercept point ²	64 dBm
RF connector style	Type N female

Electrical and Interfaces	
USB interface	Optional
Dual safety interlock	Two BNC female connectors S / C to mute and O / C to mute
Supply voltage	100 to 264 VAC
Supply frequency range	45 to 63 Hz
Supply power	<2 kVA

Physical / Environmental	
Case dimensions	19 inch, 6U case, 440 mm deep
Weight	30 kg
Operating temperature range	0°C-40°C

Notes:

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

CONTACT US!

We're there where you need us. See details on the last page.





OUR SALES & SERVICE CENTERS

China

AMETEK Commercial Enterprise (Shanghai) Co. Ltd.

Beijing Branch
Western Section, 2nd Floor
Jing Dong Fang Building (B10)
Chaoyang District
Beijing, China, 100015
T +86 10 8526 2111
chinasales@ametek.com

Shanghai Office:

Part A1, A4, 2nd floor, Building No. 1 No. 526 Fute 3rd Road East Pilot Free Trade Zone, Shanghai 200131, China T +86 21 5868 5111

Guangzhou Office:

Room 1410-12, Yian Plaza 33 Jian She Liu Ma Road Guangzhou, China T +86 20 8363 4768

Germany

AMETEK CTS Europe GmbH

Lünener Straße 211 59174 Kamen, Deutschland T +49 2307 26070-0 sales.cts.de@ametek.com

Great Britain

AMETEK (GB) Ltd. t/a Teseq

5 Ashville Way, Molly Millars Lane Wokingham Berkshire RG41 2PL Great Britain T +44 845 074 0660 ametekgb.service@ametek.com

The contacts of our global distribution partners could be found at www.teseg.com

Japan

AMETEK Co. Ltd. Tokyo office

3rd floor, Shiba NBF Tower, 1-1-30 Shiba-Daimon, Minato-ku Tokyo, 105-0012, Japan T +81 3 6809 2401 cts-japan.sales@ametek.com

Nagoya Office

1-329 Kifune Meito-ku Nagoya-shi Aichi-ken, 465-0058, Japan T +81 52 709 5501

Poland

AMETEK CTS Europe GmbH

Biuro w Polsce ul. Ogrodowa 31/35 00-893 Warszawa, Polen T +48 518 643 512 infopolska.cts@ametek.com

Singapore

AMETEK Singapore Pte. Ltd.

No. 43 Changi South Avenue 2 #04-01 Singapore 486164 T +65 6484 2388 singaporesales.cts@ametek.com

Taiwan

AMETEK Taiwan Corp. Ltd.

10F-5, No. 120, Sec 2, GongDaoWu Rd., Hsinchu City 30072, Taiwan T +886 3 57 5099 taiwan.sales.cts@ametek.com

USA

AMETEK CTS US

52 Mayfield Avenue Edison, New Jersey 08837, USA T +1 732 417 0501 Toll free: +1 888 417 0501 usasales.cts@ametek.com

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