



CBA 230M-035 150 KHZ TO 230 MHZ 35 WATT CLASS A BROADBAND AMPLIFIER



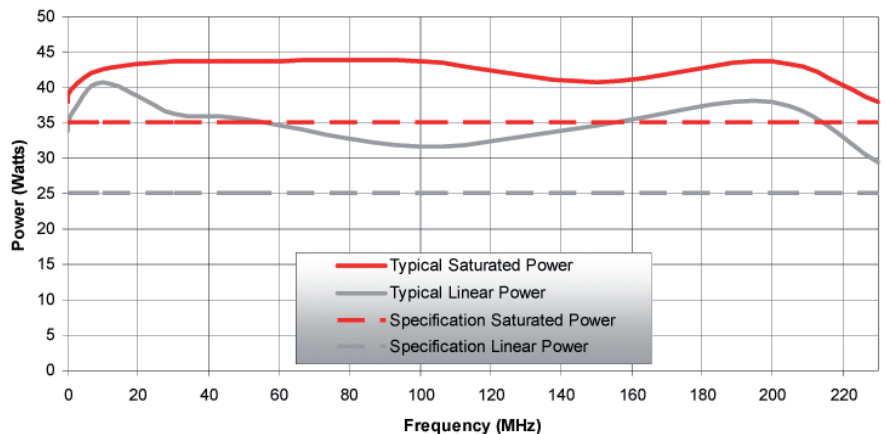
- Class A linear and low distortion design
- Ideal for IEC61000-4-6 testing
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

Designed specifically for Conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into injection clamps and 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.

CBA 230M-035 Performance Data





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Key RF Parameters	
Frequency range (instantaneous)	0.15 to 230 MHz
Rated output power	35 W minimum (37 W typical)
Output power at 1 dB gain compression	25 W minimum (30 W typical)
Harmonics at 25 W output power	Better than -20 dBc
Gain	46 dB
Gain variation with frequency	±2 dB
Maximum input power (no damage)	+10 dBm

Impedance / VSWR	
Output VSWR tolerance ¹	Infinite any phase
Stability	Unconditional
Output impedance	50 Ω
Input VSWR	2:1

Additional RF Data	
Third order intercept point ²	55 dBm
RF connector style	Type N female

Electrical and Interfaces	
USB interface	Optional
Safety interlock	BNC female, s / c to mute
Supply voltage (single phase)	85 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<140 VA

Physical / Environmental	
Case dimensions	19 inch, 3U case, 440 mm deep
Weight	12 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.

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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

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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