



## CBA 100M-400 10 KHZ TO 100 MHZ 400 WATT CLASS A BROADBAND AMPLIFIER



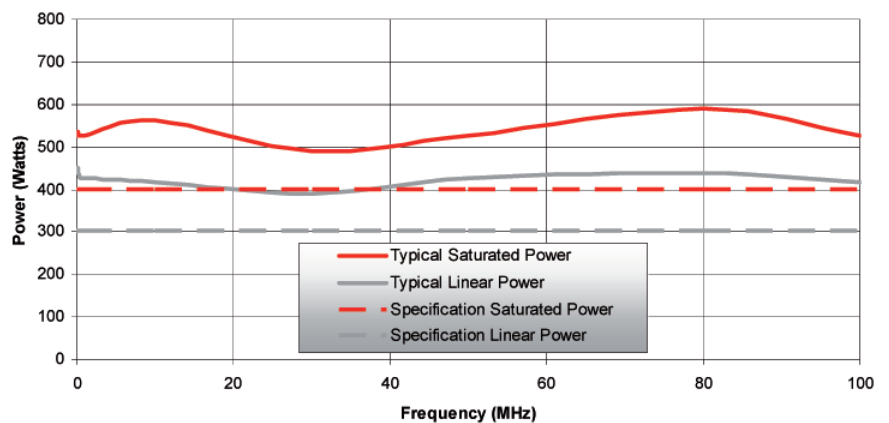
This low frequency amplifier can be used in conjunction with other amplifiers from the Teseq range to cover the entire frequency range from 10 kHz to 40 GHz with convenient frequency break points allowing you to optimise the power level in each range.

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. A safety interlock connector is provided, which the user can short circuit to ground, to put the amplifier into standby mode. Front panel indicators are provided to indicate over-temperature and rf interlock operation.

- Class A linear and low distortion design
- Ideal for low frequency tests using various strip line devices
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

**CBA 100M-400 Performance Data**



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Key RF Parameters	
Frequency range (instantaneous)	0.01 to 100 MHz
Rated output power	400 W minimum (500 W typical)
Output power at 1 dB gain compression	300 W minimum (400 W typical)
Harmonics at 250 W output power	Better than -20 dBc
Harmonics at 300 W output power	Better than -18 dBc
Gain	57 dB
Gain variation with frequency	±2 dB
Maximum input power (no damage)	+10 dBm

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

Additional RF Data	
Third order intercept point <sup>2</sup>	67 dBm
RF connector style	Type N female

Electrical and Interfaces	
USB interface	Optional
Safety interlock	BNC female, s / c to mute, 100 mA max.
Supply voltage (single phase)	184 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<2 kVA

Physical / Environmental	
Case dimensions	19 inch, 9U rack, 570 mm dee
Weight	33 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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:infopolska.cts@ametek.com)

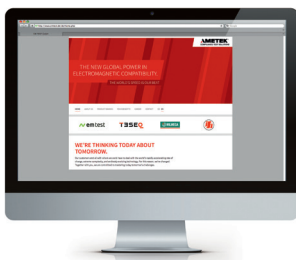
**Singapore**  
**AMETEK Singapore Pte. Ltd.**  
No. 43 Changi South Avenue 2  
#04-01 Singapore 486164  
T +65 6484 2388  
[singaporesales.cts@ametek.com](mailto:singaporesales.cts@ametek.com)

**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](mailto: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](mailto:usasales.cts@ametek.com)

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