



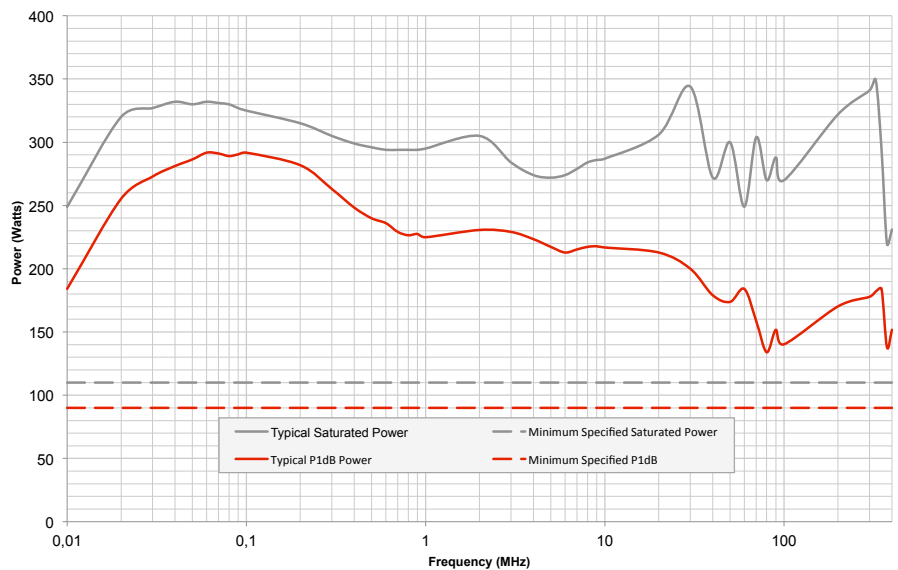
## CBA 400M-110B 10 KHZ TO 400 MHZ 110 W BROADBAND POWER AMPLIFIER



- Compact Design
- Touch Screen Color display
- Forward Power coupled output
- Whisper mode – adjusts fan speed according to heatsink temperature
- USB, Ethernet, GPIB, RS232 and TTL interface
- Gain Control
- Three year warranty

This 110 W 10 KHz to 400 MHz amplifier produces a minimum of 90 W of linear power across the band making it ideal for BCI for the military, aerospace and automotive industries. The new touch screen colour display gives an immediate visual indication of forward and reverse power along with the current operating status of the amplifier and access to diagnostic information such as gate current and heatsink temperature.

The 'whisper mode' function adjusts the fan speed in three steps depending on the heatsink temperature thus ensuring the minimum audio noise level possible in the operating environment. The inbuilt calibrated directional coupler provides a quick and easy way to monitor forward and reflected power with any power meter. Input over-drive protection prevents damage to the input devices due to accidental high input power. Multiple remote interfaces are available as standard including USB, GPIB, RS232, Ethernet and TTL. Amplifier gain can be controlled either remotely through one of the available interfaces or via the front panel touch screen.



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Key Parameters	Minimum	Maximum	Nominal
Frequency	10 KHZ	400 MHZ	
Saturated Power	110 W		250 W
Power at P1 dB	90 W		120 W
Gain	51 dB	55 dB	53 dB
Gain Flatness		+/-2 dB	

Additional RF Data	
Harmonics at 250 W	-20 dBc
Maximum Input without Damage	+20 dBm
Spurious	-50 dBc
Stability	Unconditionally stable
Load VSWR without damage (All Phase Angles)	Infinite
Load VSWR without foldback (All Phase Angles)	4:1
RF Input	Type N (socket)
RF Output	Type N (socket)
Gain Control	0–30 dB in 255 steps

Impedance/VSWR	
Output Impedance	50 $\Omega$
Input VSWR	2:1
Output VSWR	2:1

Interfaces and Electrical	
Interface	Touch screen, GPIB, RS232, Ethernet, USB, TTL
Safety Interlock	BNC Connector, Open for Standby
Supply Voltage	90–264 VAC
Supply Frequency	47–63 Hz
Supply Power Requirement	1 kVA

Physical and Environmental	
Dimensions	6U, 19 Inch Rack width, 635 mm deep
Weight	43 kg
Temperature Operational	0°C–40°C
Temperature Non Operating	-40°C–85°C
Humidity (Non Condensing)	95%

## CONTACT US!

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See details on the last page.

## **CBA 400M-110B** **10 KHZ TO 400 MHZ 110 W** **BROADBAND POWER AMPLIFIER**



### Options: To be specified at time of ordering

Rear Panel RF Connectors	2500-300-01
Front Panel RF Connectors	2500-300-02

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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@teseq.com](mailto:chinasales@teseq.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 Germany 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. trading as Teseq**  
5 Ashville Way, Molly Millars Lane  
Wokingham  
Berkshire RG41 2PL  
Great Britain  
T +44 845 074 0660  
[teseq.service@ametek.co.uk](mailto:teseq.service@ametek.co.uk)

The contacts of our global  
distribution partners could be  
found at [www.teseq.com](http://www.teseq.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.co.jp](mailto:cts-japan.sales@ametek.co.jp)

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

**Poland**  
**AMETEK CTS Germany 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  
[tw-hsn.cts@ametek.com](mailto:tw-hsn.cts@ametek.com)

**USA**  
**Teseq Inc. / AMETEK CTS**  
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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