



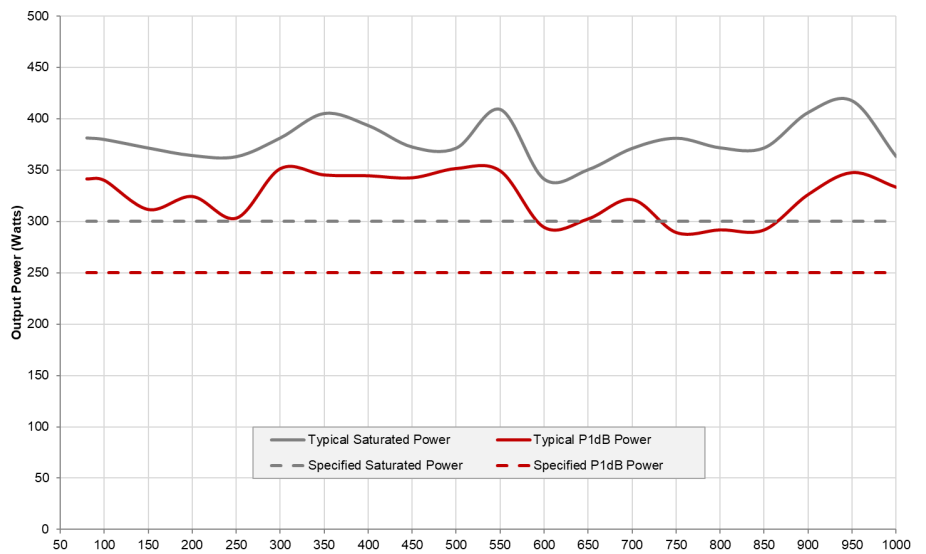
## CBA 1G-300D 80 MHz TO 1 GHz 300 WATT BROADBAND POWER AMPLIFIER



New, high power density, design has allowed us to produce a 300 watt 80 MHz to 1 GHz amplifier in a compact 4U package. With a minimum of 250 watts of linear power this amplifier is ideal for RF immunity testing to various industry standards such as IEC 61000-4-3, MIL-STD 461, ISO 11452 and RTCA DO 160. Compatible with a wide range of available antenna such as the Teseq CBL range and test systems such as the Teseq NSG 4070 and ITS 6006 these amplifiers can be easily built into integrated test systems. The 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.

- Compact Design
- Touch Screen Color Display
- Input Overdrive Protection
- USB, Ethernet, GPIB and RS232 Interface
- Built in Calibrated Directional Coupler

Fan speed adjusts 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 and Ethernet. Amplifier gain can be controlled either remotely through one of the available interfaces or via the front panel touch screen.



# CBA 1G-300D

## 80 MHZ TO 1 GHZ 300 WATT BROADBAND POWER AMPLIFIER



### Key Parameters

Frequency	80 MHz to 1 GHz
Saturated Power	300 Watts (minimum)
Power at P1 dB	250 Watts (minimum)
Gain	55 dB
Gain Flatness	+/-3 dB (maximum)

### Additional RF Data

Harmonics at 250 W	-18 dBc (minimum)
Maximum Input without Damage	+10 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
Safety Interlock	BNC Connector, Open for Standby
Supply Voltage	90–264 Vac
Supply Frequency	47–63 Hz
Supply Power Requirement	<1.5 kVA

### Physical and Environmental

Dimensions	4U, 19 Inch Rack width, 627 mm deep
Weight	35 kg
Temperature Operational	0°C–40°C
Temperature Non Operating	-40°C–85°C
Humidity (Non Condensing)	95%

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

Rear Panel RF Connectors	CBA 1G-300D-10
Front Panel RF Connectors	CBA 1G-300D

Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.

Teseq® does not assume any liability for errors or inaccuracies.



Advanced Test Solutions for EMC

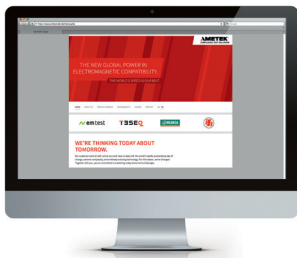
## OUR SALES & SERVICE CENTERS

### CONTACT US!

We're there where you need us.

### CARE TO LEARN MORE ABOUT AMETEK CTS.

With service and sales centers in Germany, Switzerland, China, Japan, Singapore, the USA and Great Britain, and accredited labs across the globe, we're where you need us.



GET MORE INFO ABOUT US AT:  
[www.ametek-cts.com](http://www.ametek-cts.com)

#### 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 CTS UK

Park Road  
Ryde  
Isle of Wight PO33 2BE  
Great Britain  
T +44 1983 618 000  
[milmega.service@ametek.com](mailto:milmega.service@ametek.com)

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.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

#### 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)