



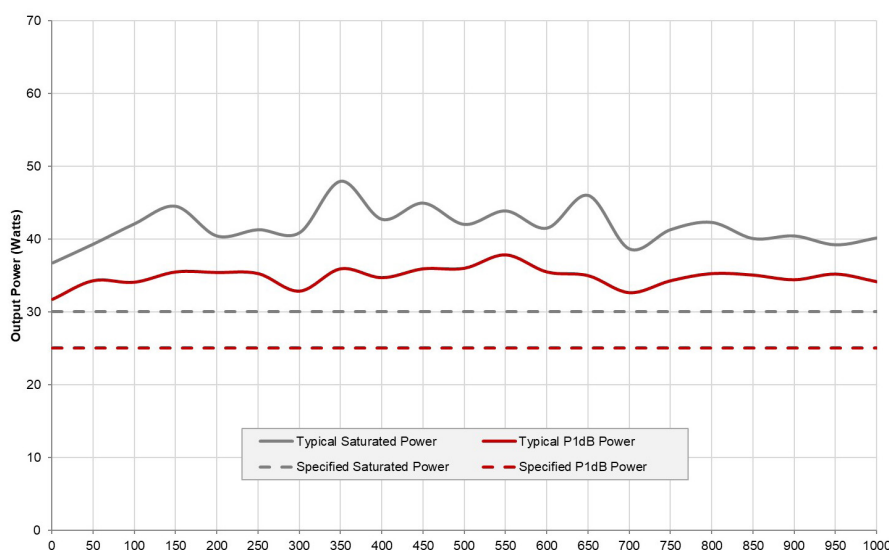
CBA 1G-030D 1 MHZ TO 1 GHZ 30 WATT BROADBAND POWER AMPLIFIER



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

New, high power density, design has allowed us to produce a 30 watt 1MHz to 1GHz amplifier in a compact 4U package. With a minimum of 25 watts of linear power this amplifier is ideal for RF immunity testing in a GTEM cell. These amplifiers are easily integrated with the Teseq immunity instruments such as the NSG4070 or ITS 6006 and Teseq GTEM cells to create turnkey IEC61000-4-3 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.

Fan speed adjusts depending on 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-030D 1 MHz TO 1 GHz 30 WATT BROADBAND POWER AMPLIFIER

Key Parameters

Frequency	1 MHz to 1 GHz
Saturated Power	30 Watts (minimum)
Power at P1 dB	25 Watts (minimum)
Gain	44 dB
Gain Flatness	+/-3 dB (maximum)

Additional RF Data

Harmonics at 25 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 Ω
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	<0.4 kVA

Physical and Environmental

Dimensions	4U, 19 Inch Rack width, 627 mm deep
Weight	14 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-030D-10
Front Panel RF Connectors	CBA 1G-030D

CONTACT US!

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



Advanced Test Solutions for EMC

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 CTS UK

Park Road
Ryde
Isle of Wight, PO33 2BE
Great Britain
T +44 1983 618 000
Milmega.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

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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