



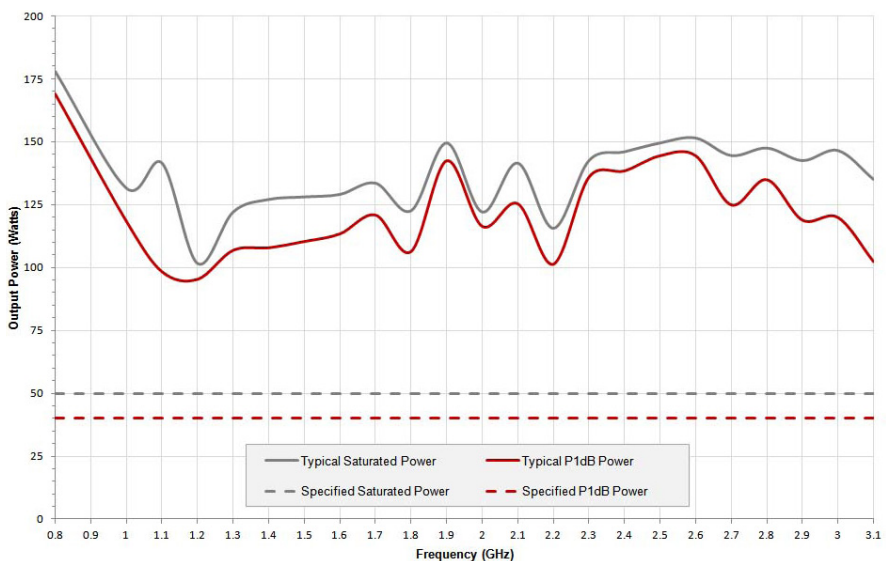
CBA 3G-050B 800 MHz TO 3.1 GHz 50 WATT BROADBAND POWER AMPLIFIER



- 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 50 watt, 800MHz to 3.1GHz amplifier in a compact 3U package. With a minimum of 40 watts of linear power this amplifier is ideal for RF immunity testing to IEC 61000-4-3 using one of the Teseq range of antenna or in a GTEM cell. These amplifiers are designed to be easily integrated into a system with a Teseq GTEM and ITS 6006 combination test system. 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 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.





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Key Parameters

Frequency	800 MHz to 3.1 GHz
Saturated Power	50 Watts (minimum)
Power at P1 dB	40 Watts (minimum)
Gain	48 dB
Gain Flatness	+/-3 dB (maximum)

Additional RF Data

Harmonics at 40 W	-20 dBc
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	<0.7 kVA

Physical and Environmental

Dimensions	3U, 19 Inch Rack width, 610 mm deep
Weight	18 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 3G-050B-10
Front Panel RF Connectors	CBA 3G-050B

CONTACT US!

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

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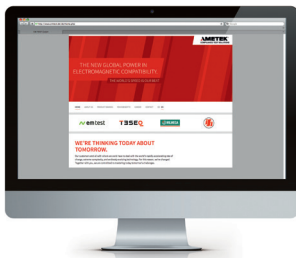
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