



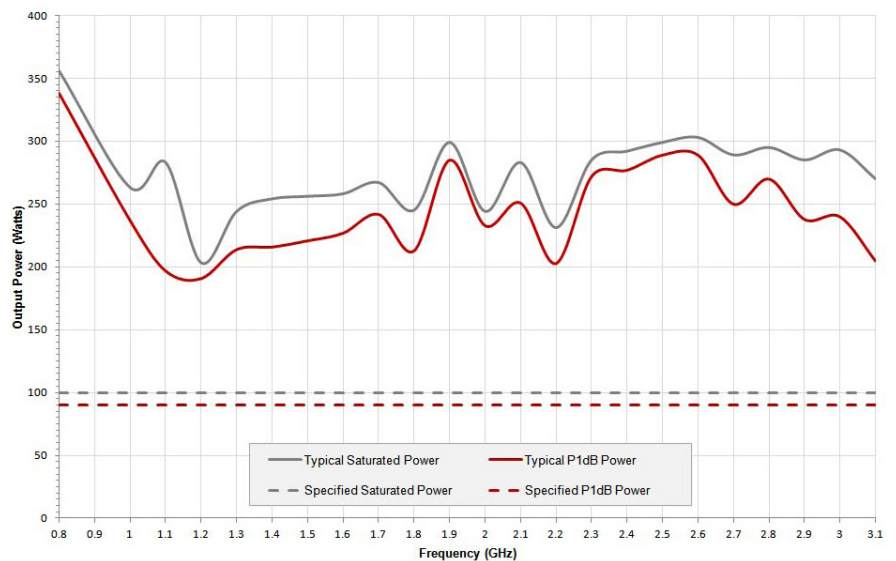
## CBA 3G-100B 800 MHz TO 3.1 GHz 100 WATT BROADBAND POWER AMPLIFIER



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

New, high power density, design has allowed us to produce a 100 watt, 800MHz to 3.1GHz amplifier in a compact 4U package. With a minimum of 90 watts of linear power this amplifier is ideal for RF immunity testing to various industry standards such as IEC61000-4-3, MIL-STD 461, ISO11452 and RTCA DO160. Compatible with a wide range of available antenna such as the Teseq CBL or BHA range and test systems such as the Teseq NSG4070 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.

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 3G-100B 800 MHz TO 3.1 GHz 100 WATT BROADBAND POWER AMPLIFIER

### Key Parameters

Frequency	800 MHz to 3.1 GHz
Saturated Power	100 Watts (minimum)
Power at P1 dB	90 Watts (minimum)
Gain	50 dB
Gain Flatness	+/-3 dB (maximum)

### Additional RF Data

Harmonics at 90 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 $\Omega$
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 kVA

### Physical and Environmental

Dimensions	4U, 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-100B-10
Front Panel RF Connectors	CBA 3G-100B

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

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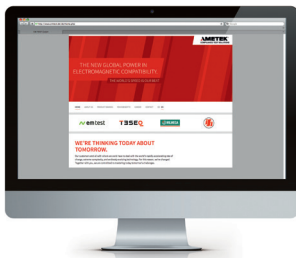
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