



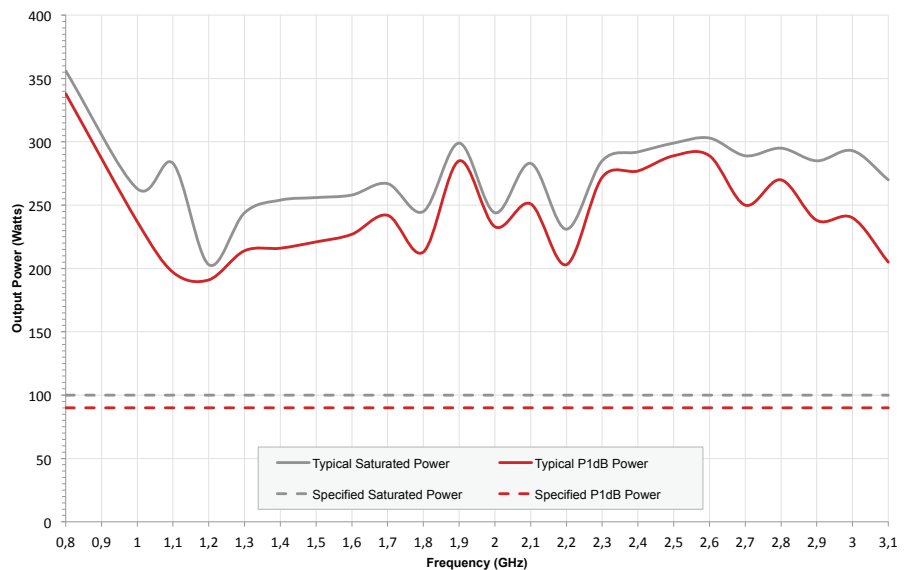
## CBA 3G-100B 800 MHz TO 3.1 GHz 100 W BROADBAND POWER AMPLIFIER



- Compact Design
- Touch Screen Color display
- Forward Power coupled output
- USB, Ethernet, GPIB and RS232 interface
- Gain Control
- Three year warranty

New, high power density, design has allowed us to produce a 100 W, 800 MHz to 3.1 GHz amplifier in a compact 4U package. With a minimum of 90 W 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 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.

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	Minimum	Maximum	Nominal
Frequency	800 MHz	3.1 GHz	
Saturated Power	100 W		260 W
Power at P1 dB	90 W		220 W
Gain	52 dB	57 dB	54 dB
Gain Flatness		+/-3 dB	

Additional RF Data	
Harmonics at 90 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
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%

## CONTACT US!

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

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



### 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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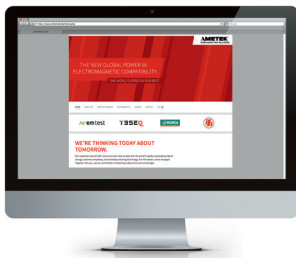
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