



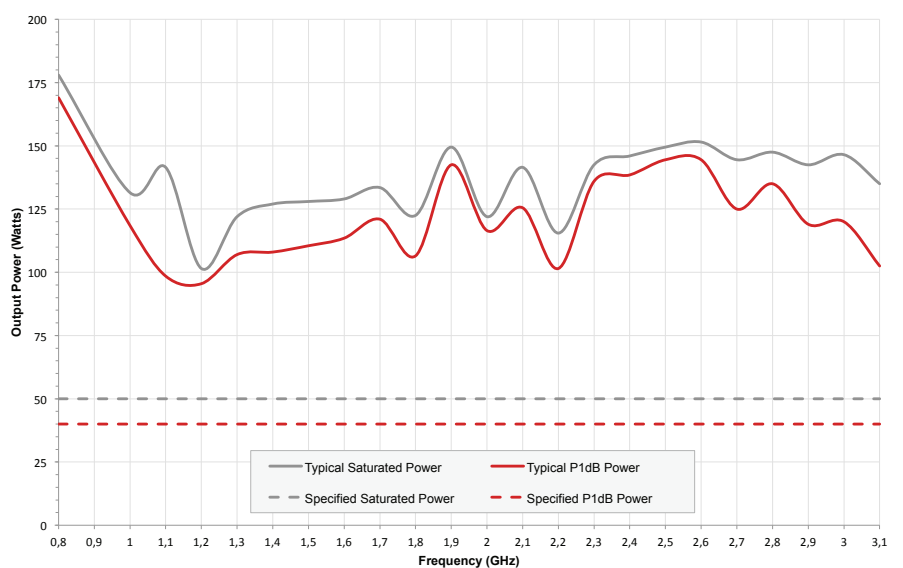
## CBA 3G-050B 800 MHz TO 3.1 GHz 50 W BROADBAND POWER AMPLIFIER



- 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 50 W, 800 MHz to 3.1 GHz 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 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.



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



| Key Parameters  | Minimum | Maximum | Nominal |
|-----------------|---------|---------|---------|
| Frequency       | 800 MHz | 3.1 GHz |         |
| Saturated Power | 50 W    |         | 100 W   |
| Power at P1 dB  | 40 W    |         | 90 W    |
| Gain            | 48 dB   | 54 dB   | 51dB    |
| Gain Flatness   |         | +/-3 dB |         |

| Additional RF Data                            |                        |
|-----------------------------------------------|------------------------|
| Harmonics at 40 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  | < 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%                                 |

## CONTACT US!

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



Advanced Test Solutions for EMC

## **CBA 3G-050B** **800 MHZ TO 3.1 GHZ 50 W** **BROADBAND POWER AMPLIFIER**



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

|                           |                |
|---------------------------|----------------|
| Rear Panel RF Connectors  | CBA 3G-050B-10 |
| Front Panel RF Connectors | CBA 3G-050B    |

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Advanced Test Solutions for EMC



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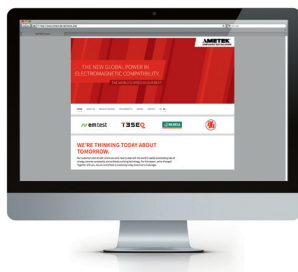
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