



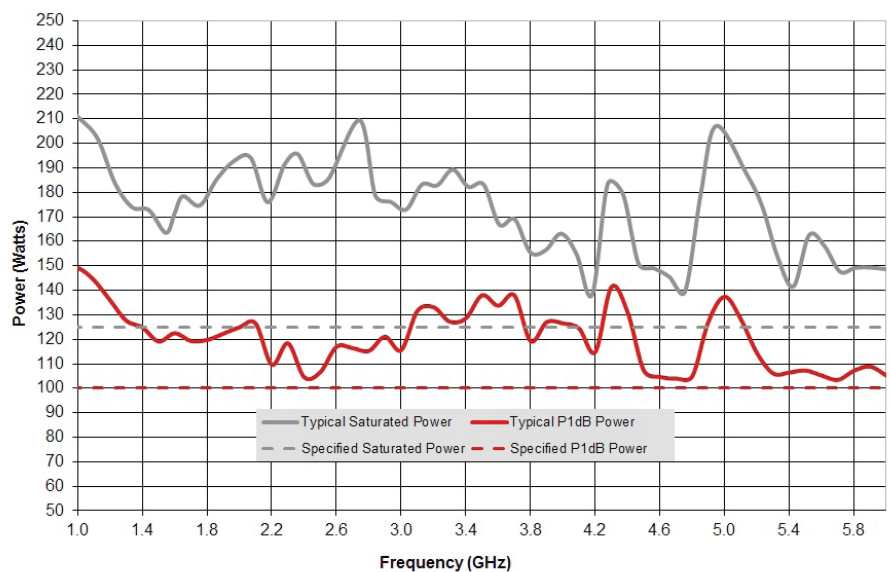
## CBA 6G-100D 1.0 GHz TO 6 GHz 100 WATT SINGLE BAND POWER AMPLIFIER



- Class A Operation
- Touch Screen Color display
- Input Overdrive Protection
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler

New class A, high power density, design has allowed us to produce a 100 watt, 1.0GHz to 6GHz amplifier in a compact 4U package. With a minimum of 100 watts of linear power this amplifier is ideal for RF immunity testing in a GTEM Cell or with a wide range of available horn antenna such as the Teseq BHA range. Readily integrated with the Teseq ITS6006 80MHz to 6GHz test system these amplifiers can form part of a broadband 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 forward power coupler provides a quick and easy way to monitor forward power with any power meter. Input overdrive 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       | 1.0 GHz to 6.0 GHz  |
| Saturated Power | 125 Watts (minimum) |
| Power at P1 dB  | 100 Watts (minimum) |
| Gain            | 50 dB               |
| Gain Flatness   | +/-3 dB             |

### Additional RF Data

|                                             |                        |
|---------------------------------------------|------------------------|
| Harmonics at 100 W                          | -18 dBc (Typical)      |
| Maximum Input without Damage                | +10 dBm                |
| Spurious                                    | -60 dBc                |
| Stability                                   | Unconditionally stable |
| Load VSWR without damage (All Phase Angles) | Infinite               |
| RF Input                                    | Type N (socket)        |
| RF Output                                   | Type N (socket)        |
| Gain Control                                | 0 – 30dB 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           | 85–264 Vac                                |
| Supply Frequency         | 47–63 Hz                                  |
| Supply Power Requirement | < 2KVA (typical full power)               |

### Physical and Environmental

|                           |                                    |
|---------------------------|------------------------------------|
| Dimensions                | 4U, 19 Inch Rack width, 615mm deep |
| Weight                    | 28 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 6G-100D-10 |
| Front Panel RF Connectors | CBA 6G-100D    |

## CONTACT US!

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



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