



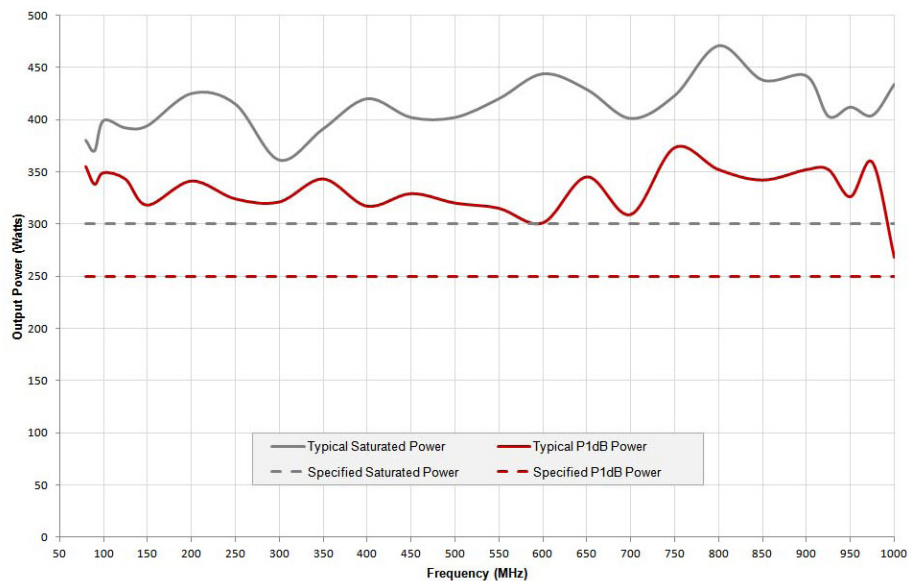
CBA 1G-300B 80 MHz TO 1 GHz 300 WATT BROADBAND POWER AMPLIFIER



- 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 300 watt 80MHz to 1GHz amplifier in a compact 4U package. With a minimum of 250 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 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 1G-300B

80 MHZ TO 1 GHZ 300 WATT BROADBAND POWER AMPLIFIER



Key Parameters

| | |
|-----------------|---------------------|
| Frequency | 80 MHz to 1 GHz |
| Saturated Power | 300 Watts (minimum) |
| Power at P1 dB | 250 Watts (minimum) |
| Gain | 55 dB |
| Gain Flatness | +/-3 dB (maximum) |

Additional RF Data

| | |
|---|------------------------|
| Harmonics at 250 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 | <2 kVA |

Physical and Environmental

| | |
|---------------------------|-------------------------------------|
| Dimensions | 4U, 19 Inch Rack width, 610 mm deep |
| Weight | 35 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 1G-300B-10 |
| Front Panel RF Connectors | CBA 1G-300B |

CONTACT US!

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

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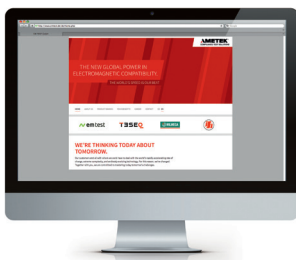
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