

CBA1G-100D

1 MHz to 1 GHz 100 Watt Solid State Amplifier



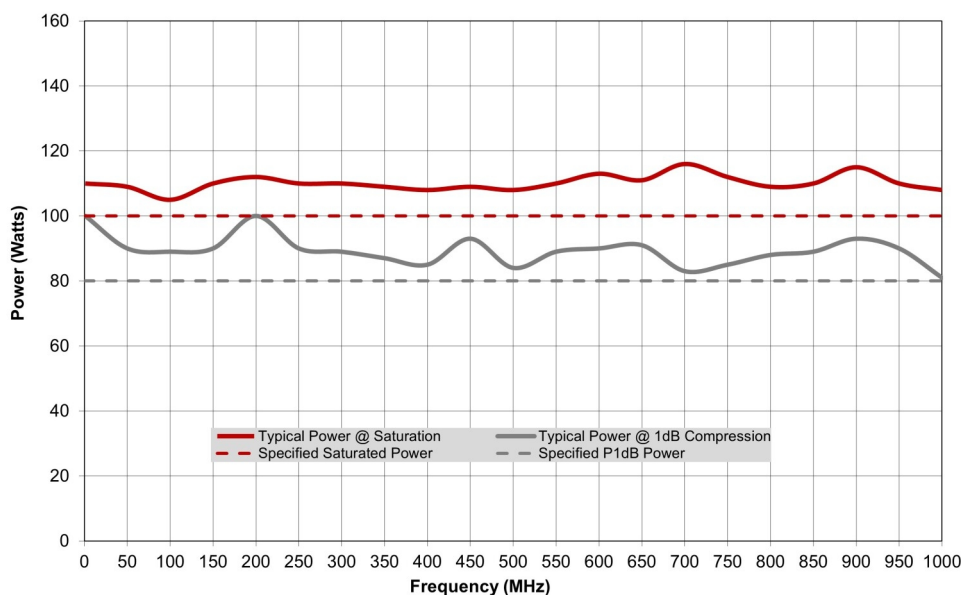
MAIN FEATURES

- Intuitive User Interface
- Mismatch Tolerant & Unconditionally Stable
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 Year Warranty

A high power density, design has allowed us to produce a 100 watt 1MHz to 1GHz amplifier in a compact 4U package. With a minimum of 80 watts of linear power this amplifier is ideal for RF immunity testing in a GTEM and for 3V/m testing with a wide range of available antenna. These amplifiers are easily integrated with the Teseq immunity instruments such as the NSG4070 or NSG 6000 and Teseq GTEM cells to create turnkey IEC61000-4-3 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.



Technical Specifications

Frequency Bands	Single Band
Frequency (min.) MHz	1 MHz
Frequency (max.) GHz	1 GHz
Psat (min)	100 W
P1dB (min.)	80 W
Small Signal Gain	45 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB (typ)	-18 dBc
Spurious (min.)	-70 dBc
3rd Order Intercept Point	10 dB > P1dB
RF Sample Port Coupling Factor (nom)	47 dB
Modulation Formats	AM, FM, Pulse
Maximum Input Power (no damage)	10 dBm
Gain Control	0-20 dB in 255 Steps
Output VSWR Tolerance	Infinite any phase (no foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2:1 (typical)

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	90 to 264 VAC
Supply Frequency	47 to 63
Supply Power (typ.)	0.8 kVA
RF Input Connector	Type N female
RF Output Connector	Type N female
RF Sample Port Connectors	Type N female
Com. Interface	GPIO, RS232, Ethernet & USB
Weight kg	16 kg
Dimensions	19 inch, 4U, 615mm (WxHxD)
Cooling System	Air Cooled, Self-contained

Available Variants

Product	Configuration	Item #
CBA1G-100D-001	Front Panel RF Connectors	3-342440
CBA1G-100D-002	Rear Panel RF Connectors	3-342441