

CBA 3G-050B

0.8 GHz to 3.1 GHz 50 Watt Solid State Amplifier

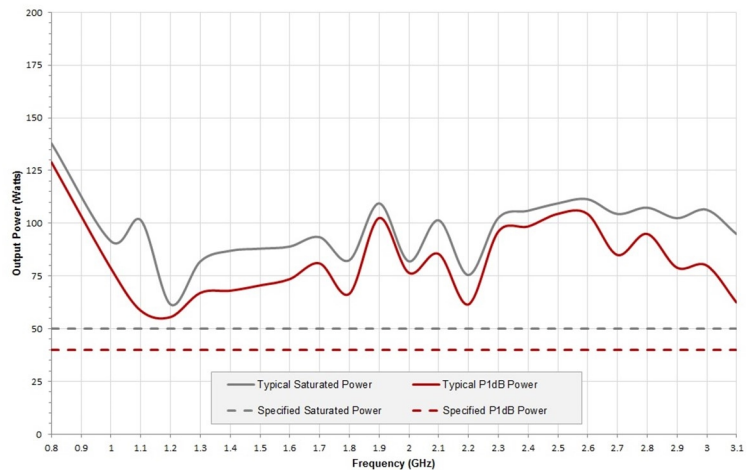


A high power density, design has allowed us to produce a 50 watt, 800MHz to 3.1GHz amplifier in a compact 3U package. With a minimum of 40 watts of linear power this amplifier is ideal for RF immunity testing to IEC 61000-4-3 using one of the Teseq range of antenna or in a GTEM cell. These amplifiers are designed to be easily integrated into a system with a Teseq GTEM and NSG 6000 combination test system. 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.

MAIN FEATURES

- Intuitive user interface
- Input Overdrive protection
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 year warranty



Technical Specifications

Frequency Bands	Single Band
Frequency (min.) GHz	0.8 GHz
Frequency (max.) GHz	3.1 GHz
Psat (min)	50 W
P1dB (min.)	40 W
Small Signal Gain	46 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-70 dBc
3rd Order Intercept Point	10 db > P1dB
Modulation Formats	AM, FM, Pulse
Maximum Input Power (no damage)	10 dBm
Gain Control	0-30 dB in 255 Steps
Output VSWR Tolerance	Infinite any phase (< 4:1 no foldback, > 4:1 gradual 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 Hz
Supply Power (typ.)	0.7 kVA
RF Input Connector	Type N female
RF Output Connector	Type N Female
Com. Interface	GPIO, RS232, Ethernet & USB
Weight kg	18 kg
Dimensions mm	19 inch, 3U Rack Case, 610mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

Available Variants

Product	Configuration	Item #
CBA 3G-050B	Front Panel RF Connectors	CBA 3G-050B
CBA 3G-050B-10	Rear Panel RF Connector	CBA 3G-050B-10