CBA 6G-200D

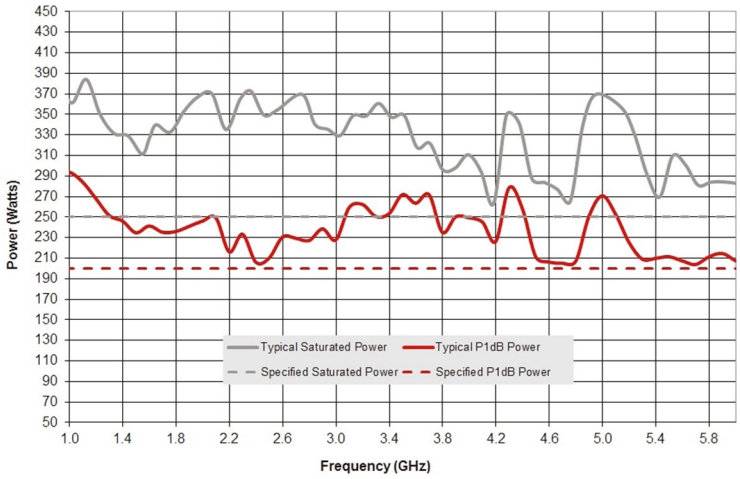
0.8 GHz to 6.0 GHz 200 Watt P1dB Class A Solid State Amplifier

New class A, high power density, design has allowed us to produce a 200 watt, 1.0 GHz to 6 GHz amplifier in a compact 4U package. With a minimum of 200 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 NSG 6000 80 MHz to 6 GHz test system these amplifiers can form part of a broadband RF 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.

MAIN FEATURES

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



Specifications subject to change without notice. Ametek CTS is an ISO accredited Company. Products are designed and manufactured under strict quality and environmental requirements of ISO 9001.

Technical Specifications

Frequency Bands	Single Band
Frequency (min.) GHz	1 GHz
Frequency (max.) GHz	6 GHz
Psat (min)	250 W
P1dB (min.)	200 W
Gain @Rated Output Power	53 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics P1dB	-18 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 (no foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2:1 (typical)
Spurious (min.)	-70 dBc
Spurious (typ.)	-80 dBc

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.)	2.5 kVA
RF Input Connector	Type N female
RF Output Connector	Type N female
Com. Interface	GPIB, RS232, Ethernet & USB
Weight kg	50 kg
Dimensions mm	19 inch, 4U Rack Case, 615 mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

Availabe Variants

Product	Configuration	Item #
CBA 6G-200D	Front Panel RF Connectors	CBA 6G-200D
CBA 6G-200D-10	Rear Panel RF Connector	CBA 6G-200D-10