

CBA4G-800D

0.8 GHz to 4.0 GHz 800 Watt P1dB Class A Solid State Amplifier



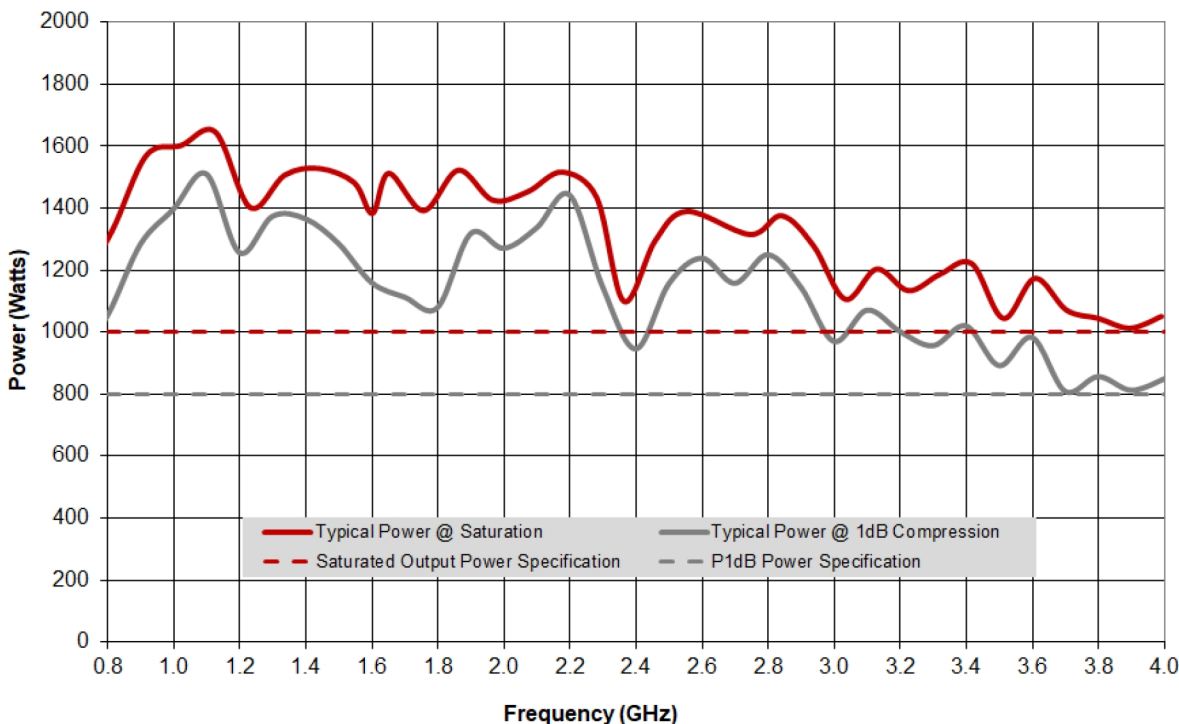
Class A, high power density, design has allowed us to produce a 0.8 GHz to 4 GHz amplifier series with power levels from 30 to 800 watts P1dB. These amplifiers are ideal for RF immunity testing in a GTEM Cell or with a wide range of available horn antenna such as the Teseq BHA range or readily integrated with an NSG 6000 to form part of a broadband RF 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 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.

MAIN FEATURES

- Class A Operation
- 100% Mismatch Tolerant with no Foldback
- Ethernet, USB, RS232 & GPIB Interface
- Built in Calibrated Directional Coupler
- 3 Year Warranty



RF Specifications

Frequency Bands	Single Band
Frequency (min.) GHz	0.8 GHz
Frequency (max.) GHz	4 GHz
Psat (min)	1000 W
P1dB (min.)	800 W
Small Signal Gain	59 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB (typ)	-20 dBc
Spurious (min.)	-70 dBc
3rd Order Intercept Point	10 dB > P1dB
RF Sample Port Coupling Factor (nom)	50 dB
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)

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	See, "Available Variants" chart below
Supply Frequency	47 to 63
Supply Power (typ.)	5.2 kVA
RF Input Connector	Type N female
RF Output Connector	Type 7/16 female
RF Sample Port Connectors	Type N female
Com. Interface	GPIO, RS232, Ethernet & USB
Weight kg	220 kg
Dimensions	See, "Available Variants" chart below (WxHxD)
Cooling System	Air Cooled, Self-contained

Available Product Configurations

Product	Configuration	Item #
CBA4G-800D-001	Front Panel RF Connectors, Single Phase 180 to 265 VAC x 2 (16U Rack)	3-342470
CBA4G-800D-002	Rear Panel RF Connectors, Single Phase 180 to 265 VAC x 2 (16U Rack)	3-342471
CBA4G-800D-003	Front Panel RF Connectors, 3 Phase, STAR 5 Wire 380 to 415 VAC Line to Line + N (19 inch, 20U Rack)	3-342472
CBA4G-800D-004	Rear Panel RF Connectors, 3 Phase, STAR 5 Wire 380 to 415 VAC Line to Line + N (19 inch, 20U Rack)	3-342473
CBA4G-800D-005	Front Panel RF Connectors, 3 Phase DELTA, 4 Wire, 208 to 240 VAC Line to Line (19 inch 20U Rack)	3-342474
CBA4G-800D-006	Rear Panel RF Connectors, 3 Phase DELTA, 4 Wire, 208 to 240 VAC Line to Line (19 inch, 20U Rack)	3-342475