



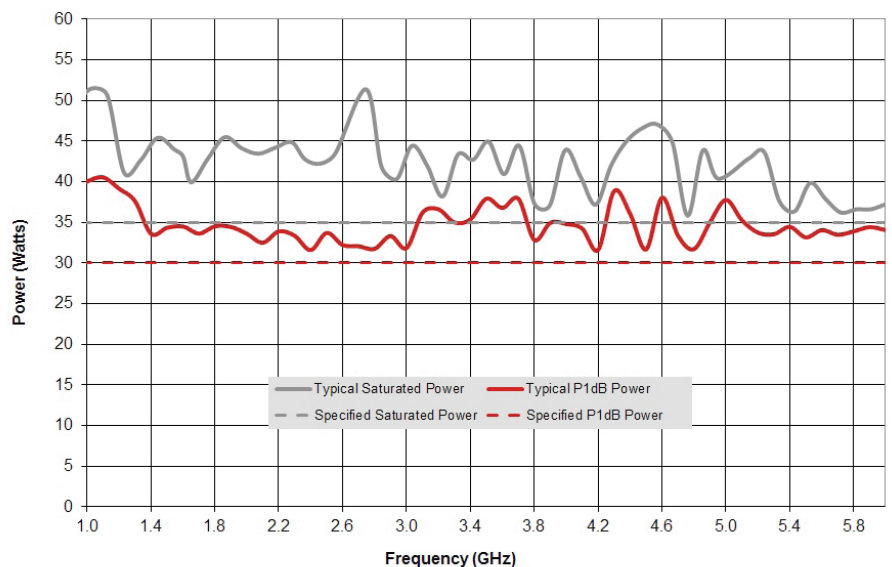
## CBA 6G-030D 1.0 GHz TO 6 GHz 30 WATT SINGLE BAND POWER AMPLIFIER



- Class A Operation
- Touch Screen Color display
- Input Overdrive Protection
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler

New class A, high power density, design has allowed us to produce a 30 watt, 1.0GHz to 6GHz amplifier in a compact 4U package. With a minimum of 30 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 ITS6006 80MHz to 6GHz test system these amplifiers can form part of a broadband 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.





## CBA 6G-030D 1.0 GHz TO 6 GHz 30 WATT SINGLE BAND POWER AMPLIFIER

### Key Parameters

Frequency	1.0 GHz to 6.0 GHz
Saturated Power	35 Watts (minimum)
Power at P1 dB	30 Watts (minimum)
Gain	45 dB
Gain Flatness	+/-3 dB

### Additional RF Data

Harmonics at 30 W	-18 dBc (Typical)
Maximum Input without Damage	+10 dBm
Spurious	-70 dBc
Stability	Unconditionally stable
Load VSWR without damage (All Phase Angles)	Infinite
RF Input	Type N (socket)
RF Output	Type N (socket)
Gain Control	0 – 30dB in 255 steps

### Impedance/VSWR

Output Impedance	50 $\Omega$
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	85–264 Vac
Supply Frequency	47–63 Hz
Supply Power Requirement	< 0.35 KVA (typical full power)

### Physical and Environmental

Dimensions	4U, 19 Inch Rack width, 615 mm deep
Weight	15 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 6G-030D-10
Front Panel RF Connectors	CBA 6G-030D

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

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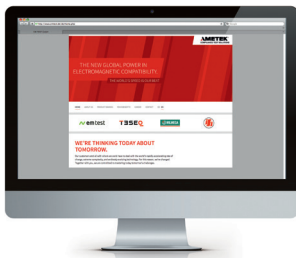
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