

Teseq CBA4G8G Amplifier Solution

Teseq CBA 8G Series | Solid-state Power Amplifiers

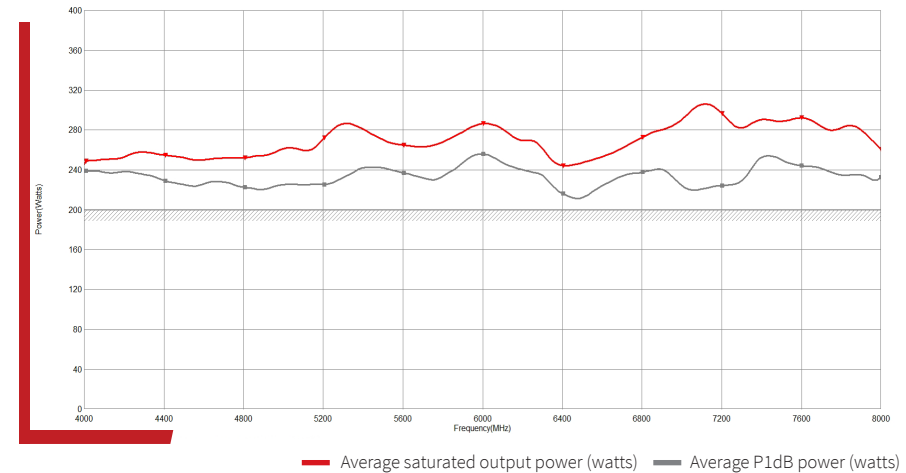


INTRODUCTION

Introducing the TeSEQ CBA 8G series of solid-state power amplifiers, designed with a market-leading 6 GHz foundation. These scalable, single-band Class A amplifiers deliver superior linear performance and outstanding reliability, even in the most demanding operating conditions. By integrating the CBA 1G and 4G series, this range achieves an operational bandwidth from 80 MHz to 8 GHz.

Additionally, the CBA 8G series provides a cost-effective solution for extending frequency ranges from 6 GHz to 8 GHz, addressing the growing demands of automotive manufacturers. It supports frequency testing up to 7.125 GHz for ALSE Radiated Immunity (RI) tests per ISO 11452-2 and Mobile Transmitter tests in line with ISO 11452-9 methodology.

Look out for the 10-watt model, which will be available in Q1 of 2025, offering even greater flexibility in high-frequency testing.



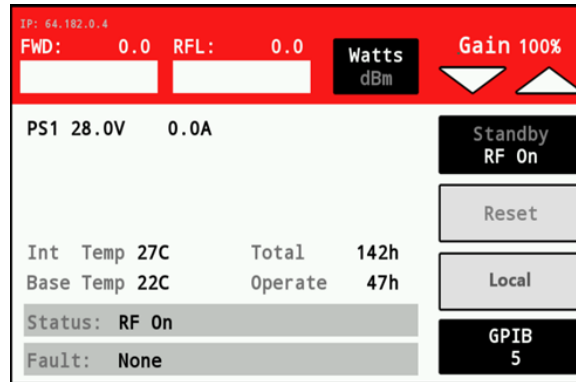
AMPLIFIER	FREQUENCY	P1dB	P3dB	Size
CBA4G8G-030D	4 to 8 GHz	30 W	40 W	4 U Rack Mount
CBA4G8G-050D	4 to 8 GHz	50 W	60 W	4 U Rack Mount
CBA4G8G-100D	4 to 8 GHz	100 W	120 W	4 U Rack Mount
CBA4G8G-200D	4 to 8 GHz	200 W	230 W	7 U Rack Mount
CBA4G8G-400D	4 to 8 GHz	400 W	500 W	25 U Rack



PRODUCT FEATURES

Intuitive touchscreen interface

The intuitive touchscreen interface offers several key benefits. It simplifies user interaction, making it easy to access and adjust settings with minimal training or technical expertise. This interface enhances operational efficiency by providing clear, real-time feedback, allowing users to monitor performance metrics and make quick adjustments on the fly. The touchscreen also enables faster navigation, reducing the time needed to set up or troubleshoot the amplifier.



Multiple interfaces

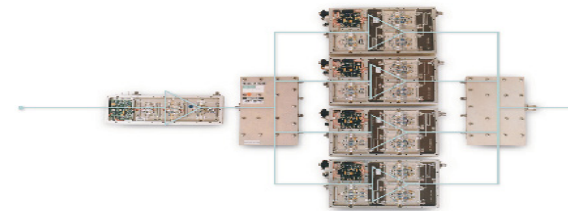
IEEE 488 (GPIB)
USB 2.0
ETHERNET
RS232

Multiple remote control options are available including IEEE 488 (GPIB), USB 2.0, Ethernet, and RS232. These interfaces allow for seamless integration with different control systems and enable efficient data transfer across a range of setups, whether in modern or legacy systems. The versatility of multiple communication protocols ensures compatibility with different devices and networks, supporting remote monitoring and automation.

This ultimately increases operational efficiency and adaptability across diverse testing scenarios.

Modular design

Modular product design offers several advantages, starting with a reduced bill of materials (BOM), as standard components are shared across various models, leading to lower production costs and simplified inventory management.

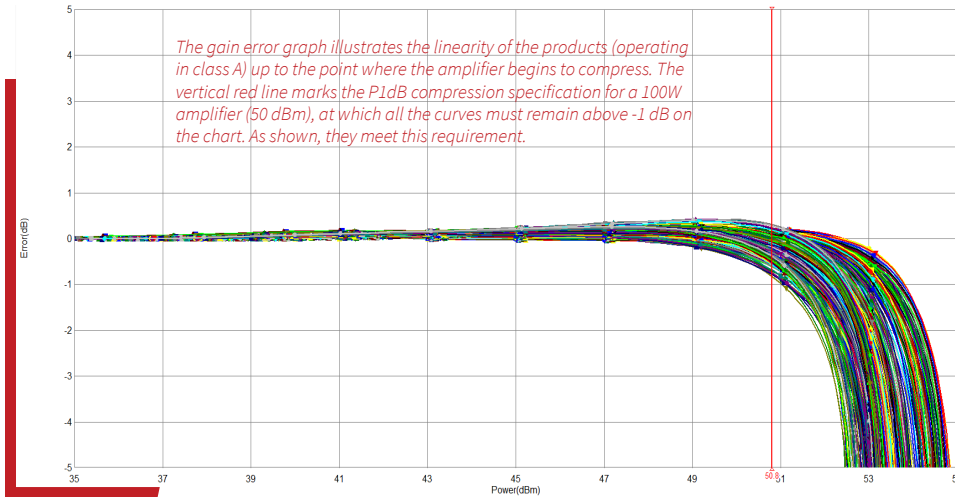


Reduced BOM
Reduced Spare Parts List
Soft Fail
Ease and Speed of Service
Power upgrade paths

It also results in a reduced recommended spare parts list, since fewer unique parts are needed for maintenance or repairs, streamlining logistics and minimizing downtime. A soft fail feature means that when one module fails, the entire system does not go down, allowing the product to continue functioning in a limited capacity until service is performed. The ease and speed of service are significantly enhanced, as individual modules can be quickly replaced or upgraded without needing to disassemble the entire product. Additionally, modular designs offer power upgrade paths, enabling users to easily enhance the performance of their product by upgrading specific modules, rather than replacing the whole system.



TECHNICAL ADVANTAGES



“The CBA4G8G amplifier series offers several technical advantages that set it apart from other amplifiers in the market. These features ensure optimal performance, reliability, and efficiency across a wide range of demanding applications.”

High Linearity: Ensures minimal signal distortion, making it ideal for applications requiring high fidelity.

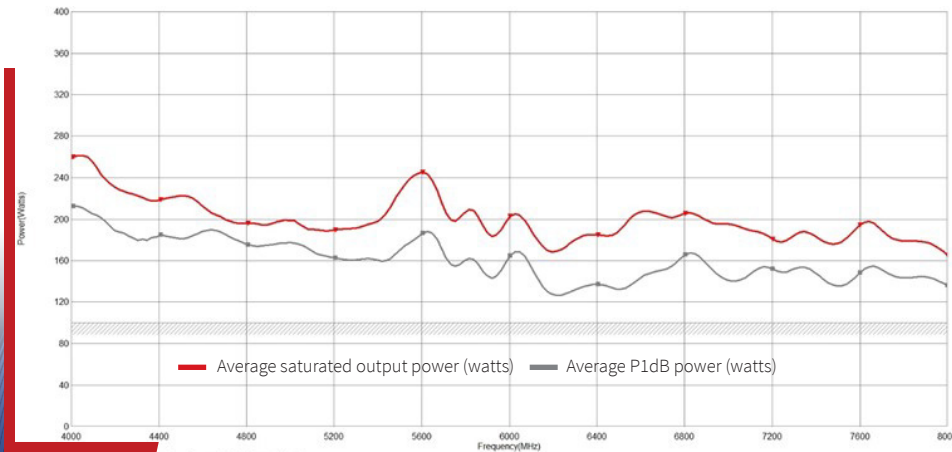
High Power Output: Capable of delivering significant power, which is crucial for various industrial, EMC, aerospace, and defence applications.

Wide Frequency Range: Covers a broad frequency range from 4 to 8 GHz, complementing the CBA 1G and 4G series.

High Efficiency: Efficient power usage reduces heat generation and energy consumption.

Reliability: The CBA4G8G solid state design offers robust performance and long operational life, even in harsh VSWR environments.

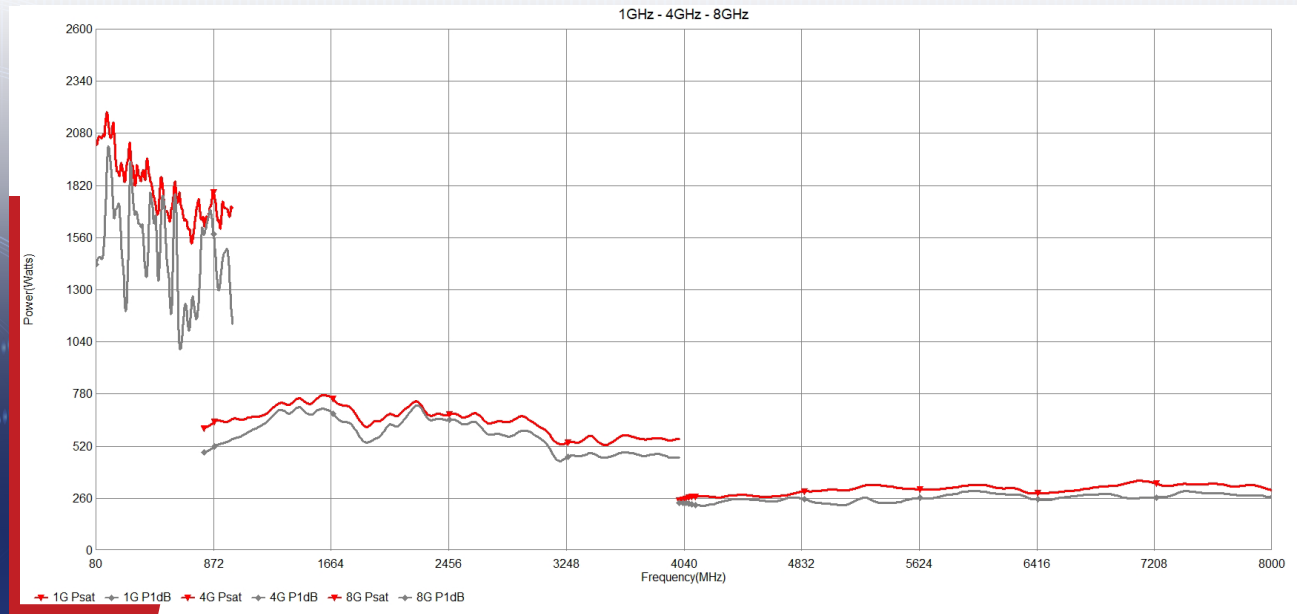
Thermal Management: Advanced thermal management techniques ensure stable operation and prevent overheating.



80MHZ TO 8GHZ BANDWIDTH

Combined with the CBA 1G and CBA 4G series the CBA 8G series enables a functional bandwidth of 80MHz to 8GHz. Operating over 3 bands of 80MHz to 1.0 GHz, 1-4GHz and 4-8GHz the system offers a three-box cost-effective solution meeting automotive manufactures increased frequency test demands up to 7.215GHz for ALSE RI tests ISO aligned to 11452-2 test methodology, 200 V/m CW

CBA 1G E Series (Coming Soon)		CBA 4G D Series		CBA 8G D Series	
Frequency	P1dB	Frequency	P1dB	Frequency	P1dB
0.05 to 1 GHz	25 Watt	0.8 to 4 GHz	30 Watt	4 to 8 GHz	30 Watt
0.08 to 1 GHz	80 Watt	0.8 to 4 GHz	60 Watt	4 to 8 GHz	50 Watt
0.08 to 1 GHz	125 Watt	0.8 to 4 GHz	100 Watt	4 to 8 GHz	100 Watt
0.08 to 1 GHz	250 Watt	0.8 to 4 GHz	200 Watt	4 to 8 GHz	200 Watt
0.08 to 1 GHz	500 Watt	0.8 to 4 GHz	400 Watt	4.0 to 8.0 GHz	400 Watt
0.08 to 1 GHz	1000 Watt	0.8 to 4.0 GHz	800 Watt		



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