AMETEK®
COMPLIANCE TEST SOLUTIONS

Teseq CBA Series
BROADBAND POWER AMPLIFIERS

10 kHz - 6 GHz Solid State Amplifiers

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TESEQ

More choice, means optimum performance, whatever the application.

TESEQ | MILMEGA | IFI

the power is the range

AMETEK CTS brands have been designing and manufacturing RF amplifiers for over 30 years. Under the product names of Teseq, IFI and Milmega, we have produced RF amplifiers suitable for the widest range of applications, including products for EMC Testing, Communications, Aerospace & Defense and the Component Test industries.

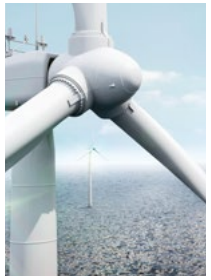
Our solid state CBA range of amplifiers compliments the new Teseq TWT series providing 10KHz to 40GHz of amplifier solutions.

From our design and manufacturing facilities in the UK, Switzerland and Germany, our customers can be confident they will always get an RF amplifier solution that is correctly matched to their requirement.

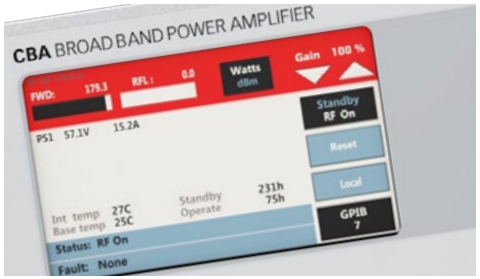
Our know-how and experience will ensure you get a solution that is optimized to meet your application requirements at the right cost.

Teseq's CBA series is a complete range of solid-state linear class-A & AB power amplifiers designed with frequency and power ratings specifically for EMC immunity test applications. These robust and dependable power amplifiers ensure complete reliability at low operating costs. They are available as a standalone bench mount device or seamlessly integrated as part of a Teseq radiated Immunity test system.

The modular plug-and-play design allows for a power upgrade path for some models (6G), and in the unlikely event of a service issue, it enables excellent support response times from one of our local in-country service centers, minimizing down-time and disruption to testing.



TESEQ CBA SERIES
Broadband power amplifiers



- Class A & AB Operation (model dependent)
- Intuitive user interface
- Input over drive protection
- USB, Ethernet, GPIB and RS232 interface
- Built in calibrated dual directional coupler
- 3 Year warranty

STANDARD FEATURES
Exceptional performance

USER INTERFACE AND REMOTE MONITORING AND CONTROL
The display interface indicates the amplifier mode of operation (Standby or Operate) and reports all critical voltage, current and pulse parameters. The default remote interface types are USB, Ethernet, GPIB and RS232

POWER UPGRADE PATH (6G)
The 6G series offers a power upgrade path in that from a 30W chassis additional RF modules can be added to the existing modules to provide up to 100 watts output from the 4U chassis. An additional 3U chassis can be added for 200 watts output with an additional 200-watt chassis for 400W giving the 6G series unrivalled cost of future ownership options.

RELIABILITY AND THERMAL MANAGEMENT
A state-of-the-art design manufactured to the highest quality with optimally biased transistors and fitted with temperature-controlled fans to control peak temperatures and significantly improve MTBF.

ENVIRONMENTAL
- 0°C to +40°C operational temperature -10°C to +50°C storage temperature.
- Mechanical 19" Front Panels from 3U to Rack mount height, 440 to 1000 mm long.

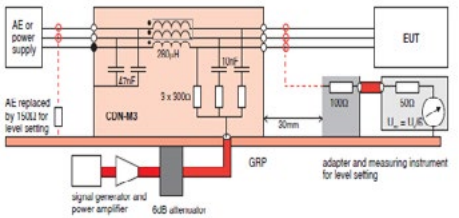
SAFETY & EMC
CE marked and certified to comply with EN 61010-1:20190.

TESEQ CBA SERIES
Applications

Flexible combinations from 10 kHz - 6 GHz and power levels up-to 3KW makes the Teseq CBA series the perfect choice for a wide range of EMC and RF amplifier applications.

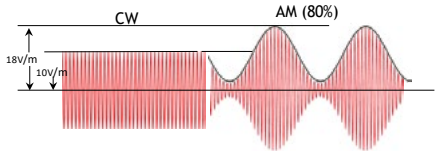
Conducted RF Immunity

At frequencies up to the point which an EUT dimensions approach a quarter wavelength the major coupling route into the EUT is via interface injected in common mode on the connected cables. Cable testing is therefore an important method of checking RF susceptibility, and IEC61000-4-6 specifies test methods. The most straightforward method of coupling is by a capacitive connection to the cable under test. The disturbance is split via a coupling network to each of the conductors in the cable, so that the disturbance appears in the common mode on all conductors together.



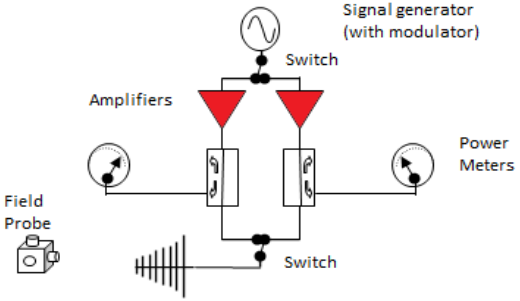
RF Immunity

The purpose of RF immunity testing is to subject a product to a controlled RF stress that represents the likely level of stress that might be seen in its operating environment. Therefore these tests are performed over a frequency range which is mostly dictated by practical aspects of real-world problems. The actual response of the equipment is monitored during this test. The choice of these parameters is a compromise between what is possible and realistic to design and test for against the degree of certainty of performance that is needed for a probable working environment. The levels and frequencies given in the European and international standards represent such a compromise in that they do not ensure certain immunity in all environments but give a reasonable probability of adequate immunity in most.

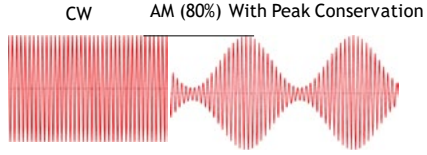


Testing with 80% AM, the output power from the amplifier shall not exceed the P1dB limit. AM requires approximately 3.3 times the CW power.

In order to test equipment for its immunity against RF signals, a defined signal needs to be generated and coupled into the EUT. Due to the nature of the signals and their means of transmission, various transducers are defined by the relevant standards for various testing methods. The base signal for all RF immunity tests is a sine wave signal, which is then modulated in different ways and applied to the EUT. A signal generator must therefore be able to generate signals over that frequency range.



Since the power output of generators is usually limited and the outgoing signal is not high enough to cover the requirements of the testing standards, additional linear amplifiers are used. The amplifiers must also cover the whole frequency range which in some instance mean multiple amplifiers are required. For an example of covering 80MHz to 6GHz this can be done with a combination of the CBA 1G and 6G series.



Peak conservation for Automotive requirements.

TURN-KEY DESIGN & BUILD
RF immunity test solutions

At AMETEK CTS we can design and build a turn-key EMC system to precisely fit your test requirements, budget and time frame.

Our RF engineering team are able to provide customers with a complete design and system implementation to the meet the requirements of RF immunity standards.

PEACE OF MIND
A fully compliant system from AMETEK CTS includes an engineered design that is guaranteed to meet field strength requirements for the tests.

Contact our design team to discuss your requirements and get a custom proposal.

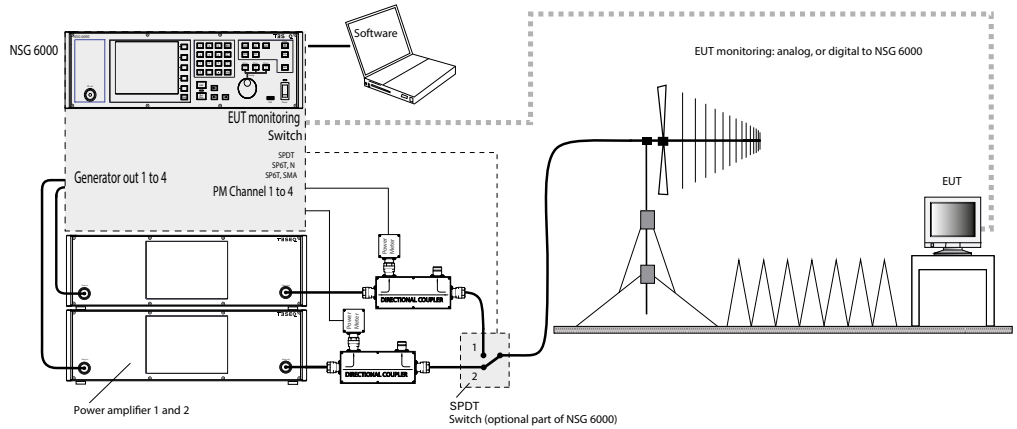
STANDARD SYSTEMS

- GTEM systems for immunity and emissions
- IEC/EN 61000-4-6 for conducted RF-immunity
- IEC/EN 61000-4-3 for radiated RF-immunity
- ISO 11452-2 and 4 for radiated RF-immunity on vehicle components
- BCI for Automotive, Airborne & Military
- Strip Lines for Automotive immunity

CUSTOMIZED SOLUTIONS

- Immunity Systems for IEC products,
- Automotive ISO 11452-2, 3, 4, 5 & 9
- Airborne and Military applications
- MIL-STD-461 & RTCA DO-160
- Emission Systems for disturbance current, voltage, power & field strengths
- Reverb Chamber Solutions

Custom system design with guaranteed performance



TECHNICAL SPECIFICATION

- Standalone rack integrated systems complete with signal source and RF switch network and power meters
- Includes AM & PM pulse modulators
- Frequency ranges between, 4 kHz to 40 GHz
- Power levels up to 6 KW
- Flexible combination of solid state and TWT amplifiers
- VSWR protected amplifiers at any phase angle
- Integrated software and control

FEATURES

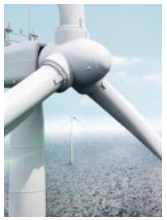
- Fully automated operation
- Integrated 3 freely configurable pulse modulators for radar pulse profile
- Optional TWT Amplifier harmonic filtering
- IEEE – 488, RS232 & ethernet remote control

BENEFITS

- Support from our experts in determining, detailing & delivering system requirements.
- Guaranteed system performance
- Full onsite training & system integration by professionals
- Full service and support

PRODUCT SELECTOR
Application

Use the product selector table below to quickly find the optimum device for your application. Detailed performance data and graphs are available for each product on pages 8-12



	COMMERCIAL		MEDICAL	AUTOMOTIVE					MILITARY	AVIONIC
	EMC									
Type Number	IEC 61000-4-3	IEC 6100-4-6	IEC 60601-1-2	ISO 11452-2	ISO 11452-3	ISO 11452-4	ISO 11452-5	Radar Pulse	Mil-Std 461	DO160
CBA 100M-110		●			●		●		●	
CBA 100M-400		●			●		●		●	
CBA 230M-035		●	●		●		●			
CBA 230M-080		●	●		●		●			
CBA 250M-2500				●					●	
CBA 400M-110					●	●	●		●	●
CBA 400M-260					●	●	●		●	●
CBA 1G-030D	●		●			●	●		●	●
CBA 1G-100D	●		●			●	●		●	●
CBA 1G-150D	●		●						●	●
CBA 1G-300D	●		●	●					●	●
CBA 1G-600D	●		●	●					●	●
CBA 1G-1200D	●		●	●					●	●
CBA 3G-025B	●		●						●	●
CBA 3G-050B	●		●						●	●
CBA 3G-100B	●		●	●					●	●
CBA 3G-300B	●		●	●					●	●
CBA 3G-500B	●		●	●					●	●
CBA6G-030D	●		●	●					●	●
CBA6G-050D	●		●	●					●	●
CBA6G-100D	●		●	●					●	●
CBA6G-200D	●		●	●					●	●
CBA6G-400D	●		●	●					●	●
CBA 4G-900/600R				●				●	TWT Required up to 40G	TWT Required up to 8/18G Pulse units 400M-18G
CBA 6G-900/600R				●				●		

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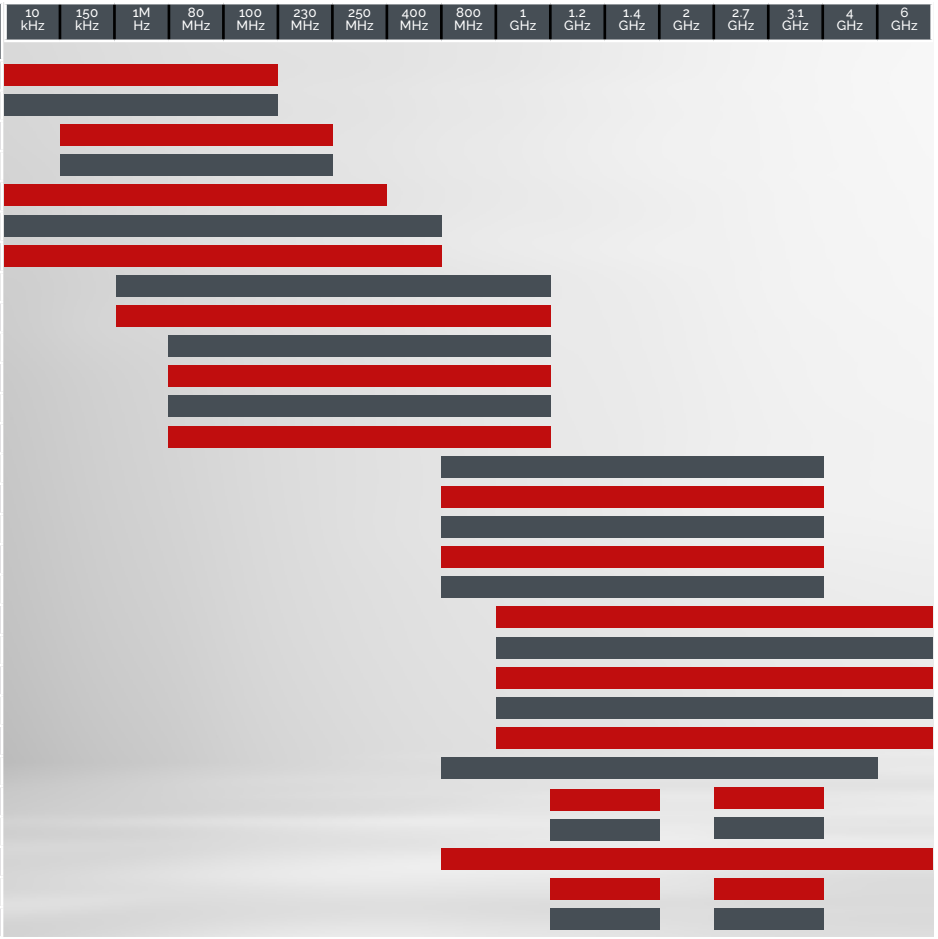
PRODUCT SELECTOR
Frequency and Power

Use the product selector table below to quickly find the optimum device for your application. Detailed performance data and graphs are available for each product on pages 8-12

Type Number	Frequency Range GHz	Output Power (W Min)	P1dB (W)	Height	Length (mm)	Weight (kg)
CBA 100M-110	10 kHz - 100 MHz	110	90	4U	440	20
CBA 100M-400	10 kHz - 100 MHz	400	300	9U	440	33
CBA 230M-035	150 kHz - 230 MHz	35	25	3U	440	12
CBA 230M-080	150 kHz - 230 MHz	80	70	3U	440	13
CBA 250M-2500	10 kHz - 250 MHz	3000	2100	34U	800	291
CBA 400M-110	10 kHz - 400 MHz	110	80	4U	440	18
CBA 400M-260	10 kHz - 400 MHz	260	210	4U	440	20
CBA 1G-030D	1 MHz - 1 GHz	30	25	3U	615	14
CBA 1G-100D	1 MHz - 1 GHz	100	80	3U	615	16
CBA 1G-150D	80 MHz - 1 GHz	150	125	4U	615	19
CBA 1G-300D	80 MHz - 1 GHz	300	250	4U	615	35
CBA 1G-600D	80 MHz - 1 GHz	600	500	6U	615	58
CBA 1G-1200D	80 MHz - 1 GHz	1200	900	10U	686	95
CBA 3G-025B	0.8 GHz - 3.1 GHz	30	25	3U	615	15
CBA 3G-050B	0.8 GHz - 3.1 GHz	50	40	3U	615	18
CBA 3G-100B	0.8 GHz - 3.1 GHz	100	90	4U	615	20
CBA 3G-300B	0.8 GHz - 3.1 GHz	300	200	6U	615	36
CBA 3G-500B	0.8 GHz - 3.1 GHz	500	450	10U	615	95
CBA6G-030D	1 GHz - 6 GHz	35	30	4U	615	15
CBA6G-050D	1 GHz - 6 GHz	60	50	4U	615	20
CBA6G-100D	1 GHz - 6 GHz	125	100	4U	615	28
CBA6G-200D	1 GHz - 6 GHz	250	200	7U	615	50
CBA6G-400D	1 GHz - 6 GHz	500	400	20U	800	160
CBA 4G-900/600R	0.8 GHz - 4 GHz	500	400/300	20U	800	160
	1.2 GHz - 1.4 GHz CW	900				
	2.7 GHz - 3.1 GHz CW	600				
CBA 6G-900/600R	0.8 GHz - 6 GHz	500	400/300	20U	800	160
	1.2 GHz - 1.4 GHz CW	900				
	1.2 GHz - 1.4 GHz CW	600				



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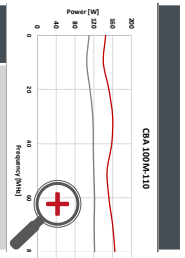
CBA SOLID STATE | 10KHz - 400 MHz
Performance data

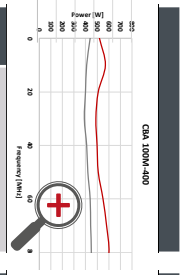
Please contact us if you require any product selection or application advice

Model	CBA 100M-110		
Frequency	10KH - 100 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	110 W	**Dimensions**	4U, 19 inch, 440 mm
P1dB (min)	90 W	**Weight**	20 Kg
Gain (min)	51 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female

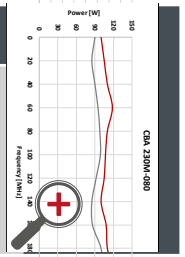


Click on the magnify icon to view the product power / frequency performance graph

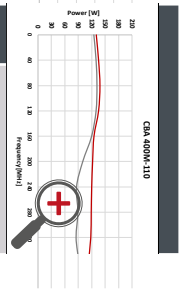
Model	CBA 100M-400		
Frequency	10KH - 100 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	400 W	**Dimensions**	9U, 19 inch, 440 mm
P1dB (min)	300 W	**Weight**	33 Kg
Gain (min)	57 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



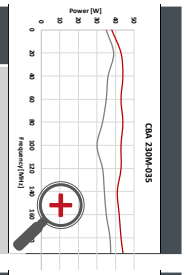
Model	CBA 230M-080		
Frequency	150 kHz - 230 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	80 W	**Dimensions**	3U, 19 inch, 440 mm
P1dB (min)	70 W	**Weight**	13 Kg
Gain (min)	50 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



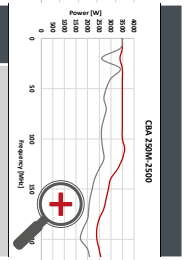
Model	CBA 400M-110		
Frequency	10 kHz - 400 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	110 W	**Dimensions**	4U, 19 inch, 440 mm
P1dB (min)	80 W	**Weight**	18 Kg
Gain (min)	51 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



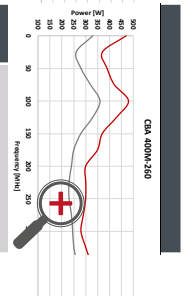
Model	CBA 230M-035		
Frequency	150 kHz - 230 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	35 W	**Dimensions**	3U, 19 inch, 440 mm
P1dB (min)	25 W	**Weight**	12 Kg
Gain (min)	46 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



Model	CBA 250M-2500		
Frequency	10 kHz - 250 MHz	**Line Power (typ)**	Three Phase
Psat (min)	3KW (de-rating) 2.1 KW (de-rating)	**Dimensions**	34U, 19 inch, 800 mm
P1dB (min)		**Weight**	291 Kg
Gain (min)	64 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	7/16 - Female



Model	CBA 400M-260		
Frequency	10 kHz - 400 MHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	260 W	**Dimensions**	4U, 19 inch, 440 mm
P1dB (min)	210 W	**Weight**	20 Kg
Gain (min)	54 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



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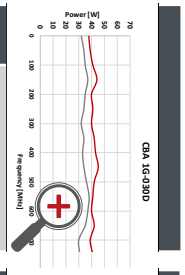
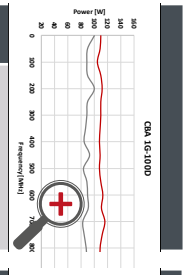
CBA SOLID STATE | 1 MHz - 1 GHz
Performance data

Please contact us if you require any product selection or application advice

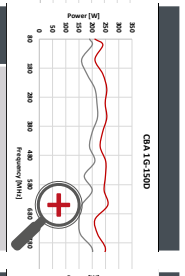
Model	CBA 1G-030D		
Frequency	1 MHz - 1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	30 W	**Dimensions**	3U, 19 inch, 615 mm
P1dB (min)	25 W	**Weight**	14 Kg
Gain (min)	40 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



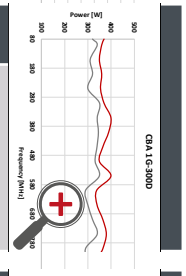
Model	CBA 1G-100D		
Frequency	1 MHz - 1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	100 W	**Dimensions**	3U, 19 inch, 615 mm
P1dB (min)	80 W	**Weight**	16 Kg
Gain (min)	45 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



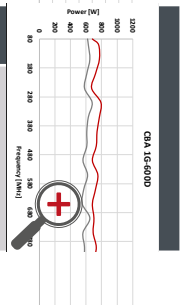
Model	CBA 1G-150D		
Frequency	80 MHz - 1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	150 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	125 W	**Weight**	19 Kg
Gain (min)	47 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



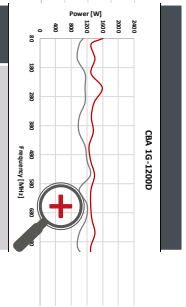
Model	CBA 1G-300D		
Frequency	80 MHz - 1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	300 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	250 W	**Weight**	35 Kg
Gain (min)	50 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



Model	CBA 1G-600D		
Frequency	80 MHz - 1 GHz	**Line Power (typ)**	Three Phase
Psat (min)	600 W	**Dimensions**	6U, 19 inch, 615 mm
P1dB (min)	500 W	**Weight**	58 Kg
Gain (min)	53 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



Model	CBA 1G-1200D		
Frequency	80 MHz - 1 GHz	**Line Power (typ)**	Three Phase
Psat (min)	1200 W	**Dimensions**	10U, 19 inch, 686 mm
P1dB (min)	900 W	**Weight**	95 Kg
Gain (min)	55.5 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	7/16 - Female



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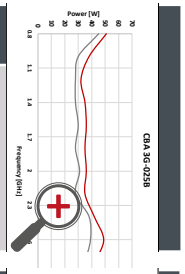
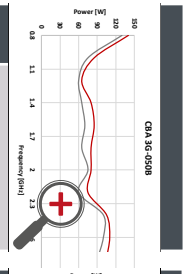
CBA SOLID STATE | 0.8 GHz - 3.1 GHz
Performance data

Please contact us if you require any product selection or application advice

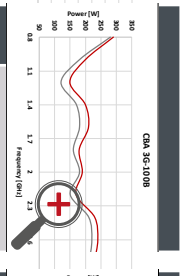
Model	CBA 3G-025B		
Frequency	0.8 - 3.1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	30 W	**Dimensions**	3U, 19 inch, 615 mm
P1dB (min)	25 W	**Weight**	15 Kg
Gain (min)	44 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



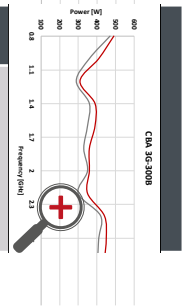
Model	CBA 3G-050B		
Frequency	0.8 - 3.1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	50 W	**Dimensions**	3U, 19 inch, 615 mm
P1dB (min)	40 W	**Weight**	18 Kg
Gain (min)	46 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



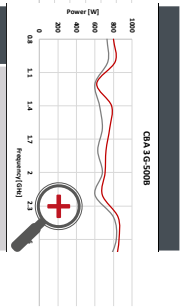
Model	CBA 3G-100B		
Frequency	0.8 - 3.1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	100 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	90 W	**Weight**	20 Kg
Gain (min)	50 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



Model	CBA 3G-300B		
Frequency	0.8 - 3.1 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	300 W	**Dimensions**	6U, 19 inch, 615 mm
P1dB (min)	20 W	**Weight**	36 Kg
Gain (min)	53 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



Model	CBA 3G-500B		
Frequency	0.8 - 3.1 GHz	**Line Power (typ)**	Three Phase
Psat (min)	500 W	**Dimensions**	10U, 19 inch, 615 mm
P1dB (min)	450 W	**Weight**	95
Gain (min)	57 dB	**RF Input**	N - Female
Harmonics (typ)	-20 dBc	**RF Output**	N - Female



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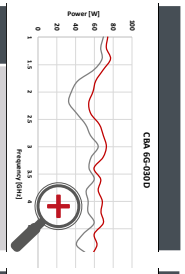
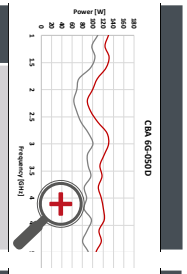
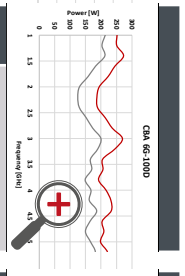
Model	CBA 6G-030D		
Frequency	1 - 6 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	35 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	30 W	**Weight**	15 Kg
Gain (min)	45 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



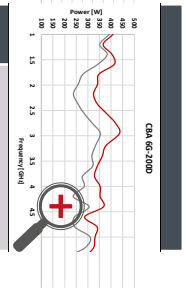
Model	CBA 6G-050D		
Frequency	1 - 6 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	60 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	50 W	**Weight**	20 Kg
Gain (min)	47 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



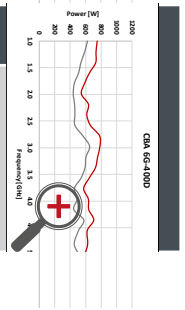
Model	CBA 6G-100D		
Frequency	1 - 6 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	125 W	**Dimensions**	4U, 19 inch, 615 mm
P1dB (min)	100 W	**Weight**	28 Kg
Gain (min)	50 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



Model	CBA 6G-200D		
Frequency	1 - 6 GHz	**Line Power (typ)**	90 - 264 VAC
Psat (min)	250 W	**Dimensions**	7U, 19 inch, 615 mm
P1dB (min)	200 W	**Weight**	50 Kg
Gain (min)	53 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	N - Female



Model	CBA 6G-400D		
Frequency	1 to 6.0 GHz	**Line Power (typ)**	Three Phase
Psat (min)	500 W	**Dimensions**	20U, 19 inch, 800 mm
P1dB (min)	400 W	**Weight**	160 Kg
Gain (min)	57 dB	**RF Input**	N - Female
Harmonics (typ)	-18 dBc	**RF Output**	7/16 - Female



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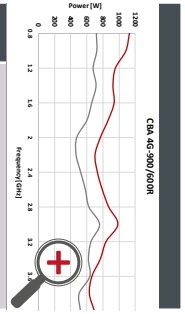
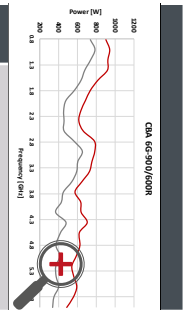
Model	CBA 4G-900/600R		
Frequency	0.8 to 4.0 GHz	**Line Power (typ)**	Three Phase
Psat (min)	500 W	**Dimensions**	20U, 19 inch, 800 mm
Band 1 Pulsed	1.2-1.4GHz 900W	**Weight**	160 Kg
Band 2 Pulsed	2.7-3.1GHz 600W	**RF Input**	N - Female
P1dB (min)	400 W	RF Output	7/16 - Female
Gain (min)	57 dB		
Harmonics (typ)	-18 dBc		



Model	CBA 6G-900/600R		
Frequency	0.8 to 6.0 GHz	**Line Power (typ)**	Three Phase
Psat (min)	500 W	**Dimensions**	20U, 19 inch, 800 mm
Band 1 CW	1.2-1.4GHz 900W	**Weight**	160 Kg
Band 2 CW	2.7-3.1GHz 600W	**RF Input**	N - Female
P1dB (min)	400/300 W	**RF Output**	7/16 - Female
Gain (min)	57 dB		
Harmonics (typ)	-18 dBc		



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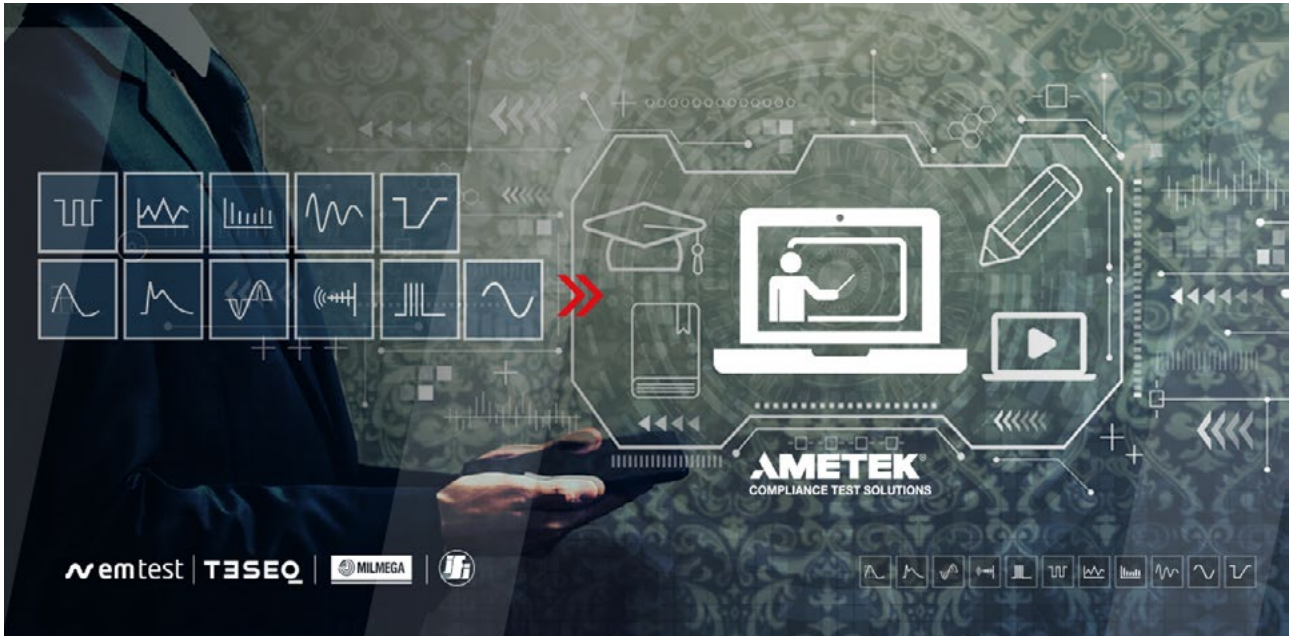

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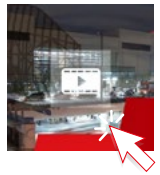

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