

## Teseq CBA Series BROADBAND POWER AMPLIFIERS

10 kHz - 6 GHz Solid State Amplifiers







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## 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)
- $\triangleright$  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.

### BCI

Bulk Current Injection (BCI) is a method of assessing the immunity of the DUT to electromagnetic fields that are coupled onto the lines of the associated wiring harnesses. 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.

## AL replaced by 150L1 for CON-M3 500 CON-M3

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.

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.



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.

# CW AM (80%) With Peak Conservation

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



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	COM	MERCIAL	MEDICAL			AUTOMOTIVE			MILITARY	AVIONIC
				EM	C					
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





# 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	Frequency Range	Output Power	P1dB (W)	Height	Length	Weight (kg
		(W Min)			(mm)	
CBA 100M-110	10 KHZ - 100 MHZ	110	90	40	440	20
CBA 100M-400	10 KHZ - 100 MHZ	400	300	90	440	33
CBA 230M-035	150 kHz - 230 MHz	35	25	30	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
02.144 900,000K	1 2 GHz - 1 4 GHz CVV	000	400, 300	200	000	100
	2.7 GHz - 2.1 GHz C\¥/	600				
CBA 6G-000/600P	0.8 GHz - 6 GHz	500	400/200	2011	800	160
02/100-900/000K		500	400/ 300	200	000	100
	1.2 GHz - 1.4 GHz CW	900				





### CBA SOLID STATE | 10KHz - 400 MHz Performance data

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

Model	CBA 100M	-110		Power [1	N] 120 560
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	10KH - 100 MHz 110 W 90 W 51 dB -20 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 4U, 19 inch, 440 mm 20 Kg N - Female N - Female	e e e e e e e e e e e e e e e e e e e	CBA 100M-110
Model	CBA 100M	-400		5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	[W] 8 8 8 8
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	10KH - 100 MHz 400 W 300 W 57 dB -20 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 9U, 19 inch, 440 mm 33 Kg N - Female N - Female	(1944) (Surface a contract of the contract of	CBA 100M-400
Model	CBA 230M	1-080		Power[ o 8 8 o	wi 8 8 8
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	150 kHz - 230 MHz 80 W 70 W 50 dB -20 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 3U, 19 inch, 440 mm 13 Kg N - Female N - Female	100 00 00 00 00 00 00 00 00 00 00 00 00	CBA 230M-080
Model	CBA 400N	1-110		Power [	w] 55 55
Frequency Psat (min ) P1dB (min) Gain (min)	10 kHz - 400 MHz 110 W 80 W 51 dB	Line Power (typ) Dimensions Weight RF Input	90 - 264 VAC 4U, 19 inch, 440 mm 18 Kg N - Female	0 0 0 12 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CBA 400M-110

**RF** Output

N - Female

30



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

					Power [W]				
Model	CBA 230M	-035		° x	•	8	8 8	*	8
Frequency	150 kHz - 230 MHz	Line Power (typ)	90 - 264 VAC	8 8					
Psat (min )	35 W	Dimensions	3U, 19 inch, 440 mm	8					CBA
P1dB (min)	25 W	Weight	12 Kg	30 120 Equency[h					230M-03
Gain (min)	46 dB	RF Input	N - Female	AH2] 140	-			$\left  \right $	5
Harmonics (typ)	-20 dBc	RF Output	N - Female	160 180					
	Model Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	ModelCBA 230MFrequency150 kHz - 230 MHzPsat (min )35 WP1dB (min)25 WGain (min)46 dBHarmonics (typ)-20 dBc	ModelCBA 230M-035Frequency150 kHz - 230 MHz 35 WLine Power (typ) DimensionsPsat (min )25 WWeightGain (min)46 dBRF Input er 20 dBcHarmonics (typ)-20 dBcRF Output	ModelCBA 230W-035Frequency150 kHz - 230 MHz 35 WLine Power (typ) Dimensions90 - 264 VAC 3U, 19 inch, 440 mmPsat (min)25 WWeight12 KgGain (min)46 dBRF InputN - Female RF OutputHarmonics (typ)-20 dBcRF OutputN - Female	ModelCBA 230W-035Frequency150 kHz - 230 MHzLine Power (typ) Dimensions90 - 264 VACPsat (min )35 WDimensions3U, 19 inch, 440 mmP1dB (min)25 WWeight12 KgGain (min)46 dBRF InputN - FemaleHarmonics (typ)-20 dBcRF OutputN - Female	ModelCBA 230M-035Frequency150 kHz - 230 MHzLine Power (typ)90 - 264 VACPsat (min )35 WDimensions3U, 19 inch, 440 mmP1dB (min)25 WWeight12 KgGain (min)46 dBRF InputN - FemaleHarmonics (typ)-20 dBcRF OutputN - Female	ModelCBA 230M-035Frequency150 kHz - 230 MHzLine Power (typ)90 - 264 VACPsat (min)35 WDimensions3U, 19 inch, 440 mmP1dB (min)25 WWeight12 KgGain (min)46 dBRF InputN - FemaleHarmonics (typ)-20 dBcRF OutputN - Female	ModelCBA 230M-035Frequency150 kHz - 230 MHzLine Power (typ)90 - 264 VACPsat (min)35 WDimensions3U, 19 inch, 440 mmP1dB (min)25 WWeight12 KgGain (min)46 dBRF InputN - FemaleHarmonics (typ)-20 dBcRF OutputN - Female	ModelCBA 230M-035Frequency150 kHz - 230 MHzLine Power (typ)90 - 264 VACPsat (min)35 WDimensions3U, 19 inch, 440 mmP1dB (min)25 WWeight12 KgGain (min)46 dBRF InputN - FemaleHarmonics (typ)-20 dBcRF OutputN - Female

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

Model	CBA 400M-260				5 50	20
Frequency	10 kHz - 400	Line Power (typ)	90 - 264 VAC	50		
Psat (min )	260 W	Dimensions	4U, 19 inch, 440 mm	150		
P1dB (min)	210 W	Weight	20 Kg	Acuento.		1
Gain (min)	54 dB	RF Input	N - Female	[MHz] 25		
Harmonics (typ)	-20 dBc	RF Output	N - Female	0		



Power [W]



-20 dBc

Harmonics (typ)



CBA

CBA 10

## CBA SOLID STATE | 1 MHz - 1 GHz Performance data

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

Model	CBA 1G-03	CBA 1G-030D				
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	1 MHz - 1 GHz 30 W 25 W 40 dB -18 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 3U, 19 inch, 615 mm 14 Kg N - Female N - Female	CiA 100 000 000 000 000 000 000 000 000 00		
Model	Power[W]					
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	80 MHz - 1 GHz 150 W 125 W 47 dB -18 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 4U, 19 inch, 615mm 19 Kg N - Female N - Female	00 10 10 10 10 10 10 10 10 10 10 10 10 1		
Model	CBA 1G-60	00D		Power [W]		

				5
Frequency	80 MHz - 1 GHz	Line Power (typ)	Three Phase	280
Psat (min )	600 W	Dimensions	6U, 19 inch, 615 mm	380
P1dB (min)	500 W	Weight	58 Kg	480 Frequen
Gain (min)	53 dB	RF Input	N - Female	530 cy [MHz]
Harmonics (typ)	-18 dBc	RF Output	N - Female	680
				ğ



Model	CBA 1G-100D					8	8	15	140
Frequency Psat (min ) P1dB (min) Gain (min) Harmonics (typ)	1 MHz - 1 GHz 100 W 80 W 45 dB -18 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 3U, 19 inch, 615mm 16 Kg N - Female N - Female	200 200 300 400 500 600 700 30 Frequency[NHz]			$\left\{ \right\}$		
				- ×			Ľ		

Model	CBA 1G-300D					* [W] 8 8	500
Frequency	80 MHz - 1 GHz	Line Power (typ)	90 - 264 VAC	30 230		Ľ	
Psat (min )	300 W	Dimensions	4U, 19 inch, 615 mm	380		()	
P1dB (min)	250 W	Weight	35 Kg	480 Freque			
Gain (min)	50 dB	RF Input	N - Female	580 547 [MHz]		2	
Harmonics (typ)	-18 dBc	RF Output	N - Female	680		$\mathbb{N}^{-}$	
				3			

Model	CBA 1G-12	CBA 1G-1200D				
Frequency	80 MHz - 1 GHz	Line Power (typ)	Three Phase	8	)>	
Psat (min )	1200 W	Dimensions	10U, 19 inch, 686 mm	8	()	
P1dB (min)	900 W	Weight	95 Kg	Finque	- <u>)</u> (	
Gain (min)	55.5 dB	RF Input	N - Female	S90 (NHz)	1	
Harmonics (typ)	-18 dBc	RF Output	7/16 - Female	8		
				8	11	



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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-0	25B		Power[W]
Frequency	0.8 - 3.1 GHz	Line Power (typ)	90 - 264 VAC	ското с с с с с с с с с с с с с с с с с с
Psat (min )	30 W	Dimensions	3U, 19 inch, 615mm	
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-10	)0B		Power[W] 8 8 8 8 8 8 8 8 8 8
Frequency	0.8 - 3.1 GHz	Line Power (typ)	90 - 264 VAC	Con Scrupp
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-50	00B		Power [W]
Frequency	0.8 - 3.1 GHz	Line Power (typ)	Three Phase	L1 L1 L2 Z L1 L4 Knewney(IGN)
Psat (min )	500 W	Dimensions	10U, 19 inch, 615mm	
P1dB (min )	450 W	Weight	95	
Gain (min)	57 dB	RF Input	N - Female	
Harmonics (typ)	-20 dBc	RF Output	N - Female	

Model	CBA 3G-0	050B		8 8 8 8
_			00.0041/40	=
Frequency	0.8 - 3.1 GHz	Line Power (typ)	90 - 264 VAC	z // 2
Psat (min )	50 W	Dimensions	3U, 19 inch, 615 mm	s ))
P1dB (min )	40 W	Weight	18 Kg	Frequen
Gain (min)	46 dB	RF Input	N - Female	A Land
Harmonics (typ)	-20 dBc	RF Output	N - Female	E
				s //
				Power [W]
				* * * * *
Model	CBA 3G-3	300B		200 200 200 200 200 200 200
Model Frequency	<b>CBA 3G-</b>	300B Line Power (typ)	90 - 264 VAC	300 300 300 300 300 300 300 300 300 300
Model Frequency Psat (min )	CBA 3G-3 0.8 - 3.1 GHz 300 W	Line Power (typ) Dimensions	90 - 264 VAC 6U, 19 inch, 615 mm	
Model Frequency Psat (min ) P1dB (min )	CBA 3G-3 0.8 - 3.1 GHz 300 W 20 W	Line Power (typ) Dimensions Weight	90 - 264 VAC 6U, 19 inch, 615 mm 36 Kg	400 400 400 400 400 400 400 400 400 400
Model Frequency Psat (min ) P1dB (min ) Gain (min)	CBA 3G-3 0.8 - 3.1 GHz 300 W 20 W 53 dB	Line Power (typ) Dimensions Weight RF Input	90 - 264 VAC 6U, 19 inch, 615 mm 36 Kg N - Female	
Model Frequency Psat (min ) P1dB (min ) Gain (min) Harmonics (typ)	CBA 3G-3 0.8 - 3.1 GHz 300 W 20 W 53 dB -20 dBc	BOOB Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 6U, 19 inch, 615 mm 36 Kg N - Female N - Female	and the frequency (Educ)





CBA 6G-050D

CBA 6G-200D

## CBA SOLID STATE | 1 GHz - 6 GHz Performance data

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

Model	CBA 6G-0	30D		Power [W]
Frequency Psat (min ) Psat (nom ) Gain (min) Harmonics (typ)	1 - 6 GHz 35 W 30 W 45 dB -18 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 4U, 19 inch, 615 mm 15 Kg N - Female N - Female	s 2 25 1 Kregenov(Bud)
Model				
Frequency Psat (min ) Psat (nom ) Gain (min)	1 - 6 GHz 125 W 100 W 50 dB	Line Power (typ) Dimensions Weight BE Input	90 - 264 VAC 4U, 19 inch, 615 mm 28 Kg N - Female	5 2 3 1 13 frequency (Stat)

**RF** Output

N - Female

Model	CBA 6G-400D				•
				ដ	ŀ
Frequency	1 to 6.0 GHz	Line Power (typ)	Three Phase	5	
Psat (min )	500 W	Dimensions	20U, 19 inch, 800 mm	5	
P1dB (min)	400 W	Weight	160 Kg	3.0 Freque	
Gain (min)	57 dB	RF Input	N - Female	3.5 4 ncy[GHz]	
Harmonics (typ)	-18 dBc	RF Output	7/16 - Female	6 1	
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Model	CBA 6G-0	Power [W]		
Frequency Psat (min ) Psat (nom ) Gain (min) Harmonics (typ)	1 - 6 GHz 60 W 50 W 47 dB -18 dBc	Line Power (typ) Dimensions Weight RF Input RF Output	90 - 264 VAC 4U, 19 inch, 615 mm 20 Kg N - Female N - Female	5 2 23 3 13 4 Newsway(Stat)
				- ()

Model	CBA 6G-200D			100	Power (W) 8 8 8 8 8 8 8 8	
Frequency	1 - 6 GHz	Line Power (typ)	90 - 264 VAC	2	$\left( \left( \right) \right)$	
Psat (min )	250 W	Dimensions	7U, 19 inch, 615 mm	ι. _ ω	$\sum$	
Psat (nom )	200 W	Weight	50 Kg	3.5 Yroquency[		
Gain (min)	53 dB	RF Input	N - Female	9 <u>1</u> 4	-21-	
Harmonics (typ)	-18 dBc	RF Output	N - Female	5	S	



Harmonics (typ)

-18 dBc



# CBA SOLID STATE | Automotive **Performance data**

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

					Power[W]				
Madal			.•	200	8	8 8	1000	1200	
wouer	CDA 40-90	UU/0UUN		-					Π
				5			(	1	
Frequency	0.8 to 4.0 GHz	Line Power (typ)	Three Phase	r.			)		
Psat (min )	500 W	Dimensions	20U, 19 inch, 800 mm						
Band 1 Pulsed	1.2-1.4GHz 900W	Weight	160 Kg	Freque			(		
Band 2 Pulsed	2.7-3.1GHz 600W	RF Input	N - Female	2.4 Incy[GHz]					
P1dB (min)	400 W	RF Output		2			7	$\left<\right>$	
Gain (min)	57 dB			5			()	4	
Harmonics (typ)	-18 dBc			3.6			Y		
						(			

						Power [W	1	
Model	CRA 6G_Q	00/600B			8	80 80	1000	1200
WIOUCI	CDA UG-3	00/00011		5			$\rangle$	
				5			/	
Frequency	0.8 to 6.0 GHz	Line Power (typ)	Three Phase	5	1	4		
Psat (min )	500 W	Dimensions	20U, 19 inch, 800 mm	23	l			CBA
Band 1 CW	1.2-1.4GHz 900W	Weight	160 Kg	Frequer		21		66-900
Band 2 CW	2.7-3.1GHz 600W	RF Input	N - Female		(	1		/600R
P1dB (min)	400/300 W	RF Output	7/16 - Female	ĉ	-5	5		-
Gain (min)	57 dB			\$	5			-
Harmonics (typ)	-18 dBc			ε	5	$\left\{ \right.$		
				5		/		-







Product know-how, robust processes and expert people - these are some of the reasons why our customers trust us to provide a professional support service that matches the quality of our instruments.







KNOW-HOW Learning hub and resources

KNOW-HOW is our online Learning Hub and Resource Centre. Here you will find EMC and RF Amplifier education content and best practice information.

Included is on the site is our series of 30 minute webinars. You can stream the full presentation content and download the accompanying technical papers.

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Video Content



the power is the range



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