

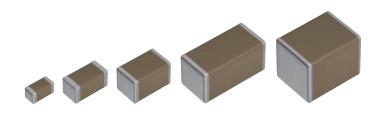
MULTILAYER CERAMIC CHIP CAPACITORS

Automotive grade, conductive epoxy application

CGA series

1005 [0402 inch]
1608 [0603 inch]
2012 [0805 inch]
3216 [1206 inch]
3225 [1210 inch]

^{*} Dimensions code: JIS[EIA]





REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.



REMINDERS

1. The products listed in this specification are intended for use in automotive applications under normal operation and usage conditions. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality requires a more stringent level of safety or reliability, or whose failure, malfunction or defect could cause serious damage to society, person or

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in this specification, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2)
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

In addition, although the products listed in this specification are intended for use in automotive applications as described above, they are not prohibited to use in general electronic equipment, whose performance and/or quality doesn't require a more stringent level of safety or reliability, or whose failure, malfunction or defect could not cause serious damage to society, person or property. Therefore, the description of this caution will be applied, when the products are used in general electronic equipment under a normal operation and usage conditions.

- 2. We may modify products or discontinue production of a product listed in this catalog without prior notification.
- 3. We provide "Delivery Specification" that explain precautions for the specifications and safety of each product listed in this catalog. We strongly recommend that you exchange these delivery specifications with customers that use one of these products.
- 4. If you plan to export a product listed in this catalog, keep in mind that it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in harmony with this law.
- 5. Any reproduction or transferring of the contents of this catalog is prohibited without prior permission from our company.
- 6. We are not responsible for problems that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. We do not grant license of these rights.
- 7. This catalog only applies to products purchased through our company or one of our company's official agencies. This catalog does not apply to products that are purchased through other third parties.

Notice: Effective January 2013, TDK will use a new catalog number which adds product thickness and packaging specification detail. This new catalog number should be referenced on all catalog orders going forward, and is not applicable for OEM part number orders.

Please be aware the last five digits of the catalog number will differ from the item description (internal control number) on the

Contact your local TDK Sales representative for more information.

(Example)

Catalog issued date	Catalog number	Item description (on delivery label)
Prior to January 2013	C1608C0G1E103J(080AA)	C1608C0G1E103JT000N
January 2013 and later	C1608C0G1E103J080AA	C1608C0G1E103JT000N

Conductive epoxy application

CGA5/3216 [1206 inch], CGA6/3225 [1210 inch]

Type: CGA2/1005 [0402 inch], CGA3/1608 [0603 inch], CGA4/2012 [0805 inch],



CGA series

RoHS







SERIES OVERVIEW

Conductive epoxy application CGA series, automotive grade of TDK's multilayer ceramic chip capacitor, is a product for conductive glue mounting, not for solder mounting. The risk of silver migration is reduced due to AgPdCu termination. The maximum operating temperature is 150° C and the capacitance range is up to 10μ F.

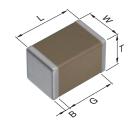
FEATURES

- The risk of silver migration is reduced due to AgPdCu termination.
- The maximum operating temperature is 150°C (X8R).
- COG temperature characteristic which has excellent stable temperature and DC-bias characteristics is available.
- AEC-Q200 compliant.

APPLICATIONS

- For only conductive glue mounting, not for solder mounting.
- ABS, transmission, engine sensors, etc.

SHAPE & DIMENSIONS



L	Body length
W	Body width
Т	Body height
В	Terminal width
G	Terminal spacing

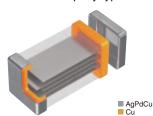
PRODUCT STRUCTURE

General type



Termination consists of 3 layers by Cu, Ni and Sn.

Conductive epoxy type



The risk of silver migration is reduced due to AgPdCu termination.

Dimensions in mm

Туре	L	W	Т	В	G
CGA2	1.00±0.15	0.50±0.10	0.50±0.10	0.10min.	0.30min.
CGA3	1.60±0.15	0.80±0.15	0.80±0.15	0.20min.	0.30min.
CGA4	2.00±0.25	1.25±0.25	1.25±0.25	0.20min.	0.50min.
CGA5	3.20+0.30,-0.10	1.60+0.30,-0.10	1.60+0.30,-0.10	0.20min.	1.00min.
CGA6	3.20±0.45	2.50±0.30	2.50±0.30	0.20min.	_

^{*}Dimensional tolerances are typical values.

MULTILAYER CERAMIC CHIP CAPACITORS



CATALOG NUMBER CONSTRUCTION

CGA	6	P	1	X8R	1E	106	K	250	Α	D	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	

(1) Series

(2) Dimensions L x W (mm)

Code	EIA	Length	Width	Terminal width
2	CC0402	1.00	0.50	0.10
3	CC0603	1.60	0.80	0.20
4	CC0805	2.00	1.25	0.20
5	CC1206	3.20	1.60	0.20
6	CC1210	3.20	2.50	0.20

(3) Thickness code

Code	Thickness	
В	0.50mm	
С	0.60mm	
E	0.80mm	
F	0.85mm	
Н	1.15mm	
J	1.25mm	
L	1.60mm	
M	2.00mm	
Р	2.50mm	

(4) Voltage condition for life test

Symbol	Condition	
1	1 × R.V.	_
2	2 × R.V.	_
3	1.5 × R.V.	_

(5) Temperature characteristics

Temperature characteristics	Temperature coefficient or capacitance change	Temperature range
C0G	0±30 ppm/°C	−55 to +125°C
X7R	±15%	−55 to +125°C
X8R	±15%	−55 to +150°C

(6) Rated voltage (DC)

Code	Voltage (DC)
0J	6.3V
1C	16V
1E	25V
1V	35V
1H	50V
2A	100V

(7) Nominal capacitance (pF)

The capacitance is expressed in three digit codes and in units of pico Farads (pF). The first and second digits identify the first and second significant figures of the capacitance. The third digit identifies the multiplier. R designates a decimal point.

(Example)0R5 = 0.5pF 101 = 100pF $225 = 2,200,000pF = 2.2\mu F$

(8) Capacitance tolerance

Code	Tolerance
С	±0.25pF
D	±0.50pF
J	±5%
K	±10%
M	±20%

(9) Thickness

Code	Thickness	
050	0.50mm	
060	0.60mm	
080	0.80mm	
085	0.85mm	
115	1.15mm	
125	1.25mm	
160	1.60mm	
200	2.00mm	
250	2.50mm	

(10) Packaging style

Code	Style
A	178mm reel, 4mm pitch
В	178mm reel, 2mm pitch

(11) Special reserved code

Code	Description
D	Conductive epoxy application



CGA2/1005 [0402 inch]

Capacitance		C0G		X7R			X8R	
(pF)	Code	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1H (50V)	1E (25V)	1C (16V)
1	010		, ,	, ,	, ,	,	,	,
1.5	1R5							
2	020							
2.2	2R2							
3	030							
3.3	3R3							
4	040							
4.7	4R7							
5	050							
6	060							
6.8	6R8							
7	070	_						
8	080							
9	090							
10	100	-						
		_						
12	120							
15	150	_						
18	180							
22	220							
27	270							
33	330							
39	390							
47	470							
56	560							
68	680							
82	820							
100	101							
120	121							
150	151							
180	181							
220	221							
270	271							
330	331							
390	391							
470	471							
560	561							
680	681							
820	821							
1,000	102							
1,500	152							
2,200	222							
3,300	332							
4,700	472							
6,800	682							
10,000	103							
15,000	153							
22,000	223							
33,000	333							
47,000	473							
68,000	683							
100,000	104							
100,000	ess	<u> </u>	50mm					

Standard thickness 0.50mm

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.



CGA3/1608 [0603 inch]

	Capacitance)G	X7R	X8R	
(pF)	Code	2A (100V)	1H (50V)	1H (50V)	2A (100V)	1H (50V)
1	010			(/	()	(/
1.5	1R5		-			
2	020		-			
2.2	2R2		-			
3	030	_	_			
3.3	3R3		-			
4	040		-			
4.7	4R7		-			
5	050		-			
6	060		-			
6.8	6R8		-			
7	070		-			
8	080		-			
9	090	_	-			
10	100		-			
12	120					
15	150		-			
18	180					
22	220		-			
27	270		-			
33	330		-			
39	390		-			
47	470		-			
56	560		-			
68	680		-			
82	820					
100	101		-			
120	121					
150	151		-			
180	181					
220	221		_			
270	271					
330	331		_			
390	391					
470	471					
560	561					
680	681					
820	821					
1000	102					
1200	122					
1500	152					
1800	182					
2200	222					
2700	272					
3300	332					
3900	392					
4700	472					
5600	562					
6800	682					
8200	822					
10000	103					

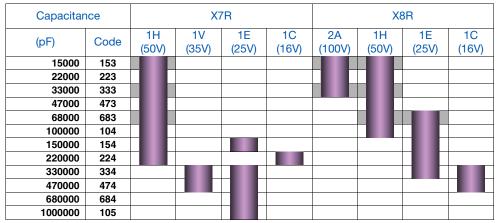
Standard thickness 0.80mm

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.



CGA3/1608 [0603 inch]



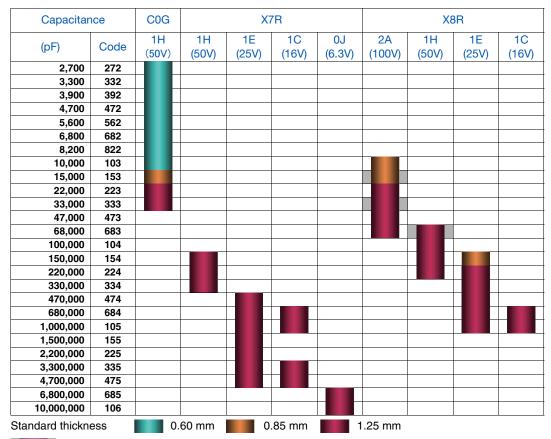
Standard thickness 0.80mm

Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.



CGA4/2012 [0805 inch]

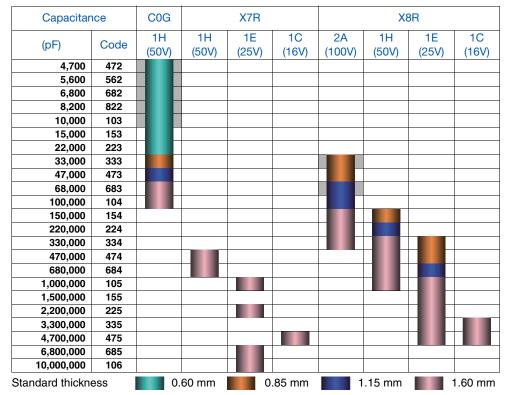


Background gray: The product which is not recommended to a new design.

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.



CGA5/3216 [1206 inch]



Background gray: The product which is not recommended to a new design.

Capacitance range chart

CGA6/3225 [1210 inch]

Capacitar	Capacitance		X7R		X8R		
(pF)	Code	1H (50V)	1E (25V)	2A (100V)	1E (25V)	1C (16V)	
470,000	474						
680,000	684						
1,000,000	105						
1,500,000	155						
2,200,000	225						
3,300,000	335						
4,700,000	475						
6,800,000	685						
10,000,000	106						
Standard thickn	Standard thickness		60 mm	2.	.00 mm	2	.50 m

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.

[■] Please refer to the capacitance range table at P-10 and after for the details such as product thickness and capacitance tolerance.



Temperature characteristics: C0G (-55 to +125°C, 0±30ppm/°C)

Canacitans	Dimonolone	Thickness	Capacitance	Catalog number	
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 100V	Rated voltage Edc: 50V
	1005	0.50±0.10	±0.25pF	-	CGA2B2C0G1H010C050BD
1pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A010C080AD	CGA3E2C0G1H010C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H1R5C050BD
1.5pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A1R5C080AD	CGA3E2C0G1H1R5C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H020C050BD
2pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A020C080AD	CGA3E2C0G1H020C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H2R2C050BD
2.2pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A2R2C080AD	CGA3E2C0G1H2R2C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H030C050BD
3pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A030C080AD	CGA3E2C0G1H030C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H3R3C050BD
3.3pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A3R3C080AD	CGA3E2C0G1H3R3C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H040C050BD
4pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A040C080AD	CGA3E2C0G1H040C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H4R7C050BD
4.7pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A4R7C080AD	CGA3E2C0G1H4R7C080AD
	1005	0.50±0.10	±0.25pF		CGA2B2C0G1H050C050BD
5pF	1608	0.80±0.15	±0.25pF	CGA3E2C0G2A050C080AD	CGA3E2C0G1H050C080AD
	1005	0.50±0.10	±0.50pF		CGA2B2C0G1H060D050BD
6pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A060D080AD	CGA3E2C0G1H060D080AD
	1005	0.50±0.10	±0.50pF		CGA2B2C0G1H6R8D050BD
6.8pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A6R8D080AD	CGA3E2C0G1H6R8D080AD
	1005	0.50±0.10	±0.50pF		CGA2B2C0G1H070D050BD
7pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A070D080AD	CGA3E2C0G1H070D080AD
	1005	0.50±0.10	±0.50pF		CGA2B2C0G1H080D050BD
8pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A080D080AD	CGA3E2C0G1H080D080AD
	1005	0.50±0.10	±0.50pF	04,10220042,10002000,12	CGA2B2C0G1H090D050BD
9pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A090D080AD	CGA3E2C0G1H090D080AD
	1005	0.50±0.10	±0.50pF	Cartolleaghttoopeontb	CGA2B2C0G1H100D050BD
10pF	1608	0.80±0.15	±0.50pF	CGA3E2C0G2A100D080AD	CGA3E2C0G1H100D080AD
	1005	0.50±0.10	±5%	Cartolleoder(Toolbook)	CGA2B2C0G1H120J050BD
12pF	1608	0.80±0.15	±5%	CGA3E2C0G2A120J080AD	CGA3E2C0G1H120J080AD
	1005	0.50±0.10	±5%	00/10220002/11200000/12	CGA2B2C0G1H150J050BD
15pF	1608	0.80±0.15	±5%	CGA3E2C0G2A150J080AD	CGA3E2C0G1H150J080AD
	1005	0.50±0.10	±5%	0 0, 10220002, 11000000, 12	CGA2B2C0G1H180J050BD
18pF	1608	0.80±0.15	±5%	CGA3E2C0G2A180J080AD	CGA3E2C0G1H180J080AD
	1005	0.50±0.10	±5%	04,10220042,11000007,12	CGA2B2C0G1H220J050BD
22pF	1608	0.80±0.15	±5%	CGA3E2C0G2A220J080AD	CGA3E2C0G1H220J080AD
	1005	0.50±0.10	±5%	0 0, 10220002, 12200000, 12	CGA2B2C0G1H270J050BD
27pF	1608	0.80±0.15	±5%	CGA3E2C0G2A270J080AD	CGA3E2C0G1H270J080AD
	1005	0.50±0.10	±5%	0 0, 10 = 20 0 0 1, 12, 00 0 0 7, 12	CGA2B2C0G1H330J050BD
33pF	1608	0.80±0.15	±5%	CGA3E2C0G2A330J080AD	CGA3E2C0G1H330J080AD
	1005	0.50±0.10	±5%	Carlotte Car	CGA2B2C0G1H390J050BD
39pF	1608	0.80±0.15	±5%	CGA3E2C0G2A390J080AD	CGA3E2C0G1H390J080AD
	1005	0.50±0.10	±5%	(OLLOGOL) (OOOOOOND	CGA2B2C0G1H470J050BD
47pF	1608	0.80±0.10	±5%	CGA3E2C0G2A470J080AD	CGA3E2C0G1H470J080AD
	1005	0.50±0.10	±5%	3 SA IOLLOGGENTI OUGOND	CGA2B2C0G1H560J050BD
56pF	1608	0.80±0.15	±5%	CGA3E2C0G2A560J080AD	CGA3E2C0G1H560J080AD
	1005	0.50±0.10	±5%	COACLEGOOZAGOOOOAD	CGA2B2C0G1H680J050BD
68pF	1608	0.80±0.10	±5%	CGA3E2C0G2A680J080AD	CGA3E2C0G1H680J080AD
	1005	0.50±0.15	±5%	CAROLLOUGLAUGUUUUUAD	CGA3E2C0G1H820J050BD
82pF	1608	0.80±0.15	±5%	CGA3E2C0G2A820J080AD	CGA3E2C0G1H820J080AD
				CGA3E2C0G2A620J060AD	
100pF	1005 1608	0.50±0.10 0.80±0.15	±5% ±5%	CGA3E2C0G2A101J080AD	CGA2B2C0G1H101J050BD CGA3E2C0G1H101J080AD
				CGASEZCOGZATOTSOSOAD	CGA2B2C0G1H121J050BD
120pF	1005	0.50±0.10	±5%	CGA3E2C0G2A121J080AD	
	1608	0.80±0.15	±5%	OGNOLZOUGZA IZ IJUBUAD	CGA3E2C0G1H121J080AD
150pF	1005	0.50±0.10	±5%	CCA9E9C0C0A4E4 1000AD	CGA2B2C0G1H151J050BD
	1608	0.80±0.15	±5%	CGA3E2C0G2A151J080AD	CGA3E2C0G1H151J080AD
180pF	1005	0.50±0.10	±5%	0040E000004404 100045	CGA2B2C0G1H181J050BD
•	1608	0.80±0.15	±5%	CGA3E2C0G2A181J080AD	CGA3E2C0G1H181J080AD
220pF	1005	0.50±0.10	±5%	004050000000000100015	CGA2B2C0G1H221J050BD
	1608	0.80±0.15	±5%	CGA3E2C0G2A221J080AD	CGA3E2C0G1H221J080AD
270pF	1005	0.50±0.10	±5%	004050000000000000000000000000000000000	CGA2B2C0G1H271J050BD
	1608	0.80±0.15	±5%	CGA3E2C0G2A271J080AD	CGA3E2C0G1H271J080AD

[■] Gray item: The product which is not recommended to a new design.



Temperature characteristics: C0G (-55 to +125°C, 0±30ppm/°C)

Capacitance	Dimensions	Thickness	Capacitance	Catalog number	
Оприоналос	Bimonolono	(mm)	tolerance	Rated voltage Edc: 100V	Rated voltage Edc: 50V
330pF	1005	0.50±0.10	±5%		CGA2B2C0G1H331J050BD
330рі	1608	0.80±0.15	±5%	CGA3E2C0G2A331J080AD	CGA3E2C0G1H331J080AD
390pF	1005	0.50±0.10	±5%		CGA2B2C0G1H391J050BD
390pi	1608	0.80±0.15	±5%	CGA3E2C0G2A391J080AD	CGA3E2C0G1H391J080AD
470pF	1005	0.50±0.10	±5%		CGA2B2C0G1H471J050BD
47001	1608	0.80±0.15	±5%	CGA3E2C0G2A471J080AD	CGA3E2C0G1H471J080AD
560pF	1005	0.50±0.10	±5%		CGA2B2C0G1H561J050BD
эворг	1608	0.80±0.15	±5%	CGA3E2C0G2A561J080AD	CGA3E2C0G1H561J080AD
680pF	1005	0.50±0.10	±5%		CGA2B2C0G1H681J050BD
Оборі	1608	0.80±0.15	±5%	CGA3E2C0G2A681J080AD	CGA3E2C0G1H681J080AD
820pF	1005	0.50±0.10	±5%		CGA2B2C0G1H821J050BD
ozupr	1608	0.80±0.15	±5%	CGA3E2C0G2A821J080AD	CGA3E2C0G1H821J080AD
1nF	1005	0.50±0.10	±5%		CGA2B2C0G1H102J050BD
	1608	0.80±0.15	±5%	CGA3E2C0G2A102J080AD	CGA3E2C0G1H102J080AD
1.2nF	1608	0.80±0.15	±5%	CGA3E2C0G2A122J080AD	CGA3E2C0G1H122J080AD
1.5nF	1608	0.80±0.15	±5%		CGA3E2C0G1H152J080AD
1.8nF	1608	0.80±0.15	±5%		CGA3E2C0G1H182J080AD
2.2nF	1608	0.80±0.15	±5%		CGA3E2C0G1H222J080AD
2.7nF	1608	0.80±0.15	±5%		CGA3E2C0G1H272J080AD
2./11	2012	0.60±0.15	±5%		CGA4C2C0G1H272J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H332J080AD
3.3nF	2012	0.60±0.15	±5%		CGA4C2C0G1H332J060AD
3.9nF	1608	0.80±0.15	±5%		CGA3E2C0G1H392J080AD
3.911	2012	0.60±0.15	±5%		CGA4C2C0G1H392J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H472J080AD
4.7nF	2012	0.60±0.15	±5%		CGA4C2C0G1H472J060AD
	3216	0.60±0.15	±5%		CGA5C2C0G1H472J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H562J080AD
5.6nF	2012	0.60±0.15	±5%		CGA4C2C0G1H562J060AD
	3216	0.60±0.15	±5%		CGA5C2C0G1H562J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H682J080AD
6.8nF	2012	0.60±0.15	±5%		CGA4C2C0G1H682J060AD
	3216	0.60±0.15	±5%		CGA5C2C0G1H682J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H822J080AD
8.2nF	2012	0.60±0.15	±5%		CGA4C2C0G1H822J060AD
	3216	0.60±0.15	±5%		CGA5C2C0G1H822J060AD
	1608	0.80±0.15	±5%		CGA3E2C0G1H103J080AD
10nF	2012	0.60±0.15	±5%		CGA4C2C0G1H103J060AD
	3216	0.60±0.15	±5%		CGA5C2C0G1H103J060AD
45-5	2012	0.85±0.15	±5%		CGA4F2C0G1H153J085AD
15nF	3216	0.60±0.15	±5%		CGA5C2C0G1H153J060AD
22nE	2012	1.25±0.25	±5%		CGA4J2C0G1H223J125AD
22nF	3216	0.60±0.15	±5%		CGA5C2C0G1H223J060AD
00-5	2012	1.25±0.25	±5%		CGA4J2C0G1H333J125AD
33nF	3216	0.85±0.15	±5%		CGA5F2C0G1H333J085AD
47nF	3216	1.15±0.15	±5%		CGA5H2C0G1H473J115AD
68nF	3216	1.60+0.30,-0.10	±5%		CGA5L2C0G1H683J160AD
100nF	3216	1.60+0.30,-0.10	±5%		CGA5L2C0G1H104J160AD
-					

[■] Gray item: The product which is not recommended to a new design.



Temperature characteristics: X7R (-55 to +125°C, ±15%)

Canacitance	Dimensions	Thickness	Capacitance	Catalog number			
Сарабнанов	Dimonolorio	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
1nF	1608	0.80±0.15	±10%	CGA3E2X7R1H102K080AD			
		0.0020110	±20%	CGA3E2X7R1H102M080AD			
1.5nF	1608	0.80±0.15	±10%	CGA3E2X7R1H152K080AD			
1.5111	1000	0.00±0.13	±20%	CGA3E2X7R1H152M080AD			
2.2nF	1600	0.90.0.15	±10%	CGA3E2X7R1H222K080AD			
2.211	1608	0.80±0.15	±20%	CGA3E2X7R1H222M080AD			
			±10%	CGA3E2X7R1H332K080AD			
3.3nF	1608	0.80±0.15	±20%	CGA3E2X7R1H332M080AD			
	1000	0.00.045	±10%	CGA3E2X7R1H472K080AD			
4.7nF	1608	0.80±0.15	±20%	CGA3E2X7R1H472M080AD			
6.8nF	1608	0.80±0.15	±10%	CGA3E2X7R1H682K080AD			
0.0111	1000	0.00±0.13	±20%	CGA3E2X7R1H682M080AD			
	1005	0.50±0.10	±10%	CGA2B3X7R1H103K050BD			
10nF			±20%	CGA2B3X7R1H103M050BD			
	1608	0.80±0.15	±10%	CGA3E2X7R1H103K080AD			
			±20% ±10%	CGA3E2X7R1H103M080AD CGA2B3X7R1H153K050BD		CGA2B2X7R1E153K050BD	
	1005	0.50±0.10	±20%	CGA2B3X7R1H153M050BD		CGA2B2X7R1E153M050BD	
15nF			±10%	CGA3E2X7R1H153K080AD		od, iebe viiie ioonoobb	
	1608	0.80±0.15	±20%	CGA3E2X7R1H153M080AD			
	1005	0.50±0.10	±10%	CGA2B3X7R1H223K050BD		CGA2B2X7R1E223K050BD	
22nF	1005	0.50±0.10	±20%	CGA2B3X7R1H223M050BD		CGA2B2X7R1E223M050BD	
ZZIII	1608	0.80±0.15	±10%	CGA3E2X7R1H223K080AD			
			±20%	CGA3E2X7R1H223M080AD			004000/7040000/05000
	1005	0.50±0.10	±10%	CGA2B3X7R1H333K050BD			CGA2B2X7R1C333K050BD
33nF			±20% ±10%	CGA2B3X7R1H333M050BD CGA3E2X7R1H333K080AD			CGA2B2X7R1C333M050BD
	1608	0.80±0.15	±20%	CGA3E2X7R1H333M080AD			
			±10%	CGA2B3X7R1H473K050BD			
47 5	1005	0.50±0.10	±20%	CGA2B3X7R1H473M050BD			
47nF	1608	0.80±0.15	±10%	CGA3E2X7R1H473K080AD			
	1000	0.00±0.13	±20%	CGA3E2X7R1H473M080AD			
	1005	0.50±0.10	±10%	CGA2B3X7R1H683K050BD			
68nF			±20%	CGA2B3X7R1H683M050BD			
	1608	0.80±0.15	±10% ±20%	CGA3E2X7R1H683K080AD CGA3E2X7R1H683M080AD			
			±10%	CGA2B3X7R1H104K050BD			
	1005	0.50±0.10	±20%	CGA2B3X7R1H104M050BD			
100nF	4000	0.00.045	±10%	CGA3E2X7R1H104K080AD			
	1608	0.80±0.15	±20%	CGA3E2X7R1H104M080AD			
	1608	0.80±0.15	±10%	CGA3E3X7R1H154K080AD		CGA3E2X7R1E154K080AD	
150nF		0.0020.10	±20%	CGA3E3X7R1H154M080AD		CGA3E2X7R1E154M080AD	
	2012	1.25±0.25	±10%	CGA4J2X7R1H154K125AD			
			±20% ±10%	CGA4J2X7R1H154M125AD CGA3E3X7R1H224K080AD			CGA3E2X7R1C224K080AD
	1608	0.80±0.15	±20%	CGA3E3X7R1H224M080AD			CGA3E2X7R1C224R080AD
220nF			±10%	CGA4J2X7R1H224K125AD			
	2012	1.25±0.25	±20%	CGA4J2X7R1H224M125AD			
	1608	0.80±0.15	±10%		CGA3E1X7R1V334K080AD	CGA3E3X7R1E334K080AD	
330nF	1000	0.00±0.13	±20%		CGA3E1X7R1V334M080AD	CGA3E3X7R1E334M080AD	
333111	2012	1.25±0.25	±10%	CGA4J2X7R1H334K125AD			
			±20%	CGA4J2X7R1H334M125AD	OCA0E4V7D41/474//00045	OCA0E0V7D4E474V00045	
	1608	0.80±0.15	±10% ±20%		CGA3E1X7R1V474K080AD CGA3E1X7R1V474M080AD	CGA3E3X7R1E474K080AD CGA3E3X7R1E474M080AD	
		±20% ±10%		OGAGETA/111V4/4IVIUOUAD	CGA4J2X7R1E474W080AD		
470nF	470nF 2012	1.25±0.25	±20%			CGA4J2X7R1E474M125AD	
	0010	4.00.0.00.0.1	+10%	CGA5L2X7R1H474K160AD			
	3216	1.60+0.30,-0.10	±20%	CGA5L2X7R1H474M160AD			
	1608	0.80±0.15	±10%			CGA3E1X7R1E684K080AD	
	1000	0.00±0.10	±20%			CGA3E1X7R1E684M080AD	
680nF	2012	1.25±0.25	±10%			CGA4J3X7R1E684K125AD	CGA4J2X7R1C684K125AD
			±20%	CCAELOV7D1LICO4K1COAD		CGA4J3X7R1E684M125AD	CGA4J2X7R1C684M125AD
	3216	1.60+0.30,-0.10	±10% ±20%	CGA5L2X7R1H684K160AD CGA5L2X7R1H684M160AD			
			IZU 70	OGAGLZA/TITH004WT00AD			

 $[\]blacksquare$ Gray item: The product which is not recommended to a new design.



Capacitance range table Temperature characteristics: X7R (-55 to +125°C, ±15%)

Capacitance [)imanaiana	Thickness	Capacitance	Catalog number					
араспапсе і	imensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V	Rated voltage Edc: 6.3V		
	1608	0.80±0.15	±10%		CGA3E1X7R1E105K080AD				
	1000	0.60±0.15	±20%		CGA3E1X7R1E105M080AD				
_	2012	1.25±0.25	±10%		CGA4J3X7R1E105K125AD	CGA4J2X7R1C105K125AD			
1μF -	2012	1.25±0.25	±20%		CGA4J3X7R1E105M125AD	CGA4J2X7R1C105M125AD			
ıμι	3216	1.60+0.30,-0.10	±10%		CGA5L2X7R1E105K160AD				
_	3210	1.00+0.30,-0.10	±20%		CGA5L2X7R1E105M160AD				
	3225	1.60±0.20	±10%	CGA6L2X7R1H105K160AD					
	3225	1.60±0.20	±20%	CGA6L2X7R1H105M160AD					
	2012	1.25±0.25	±10%		CGA4J1X7R1E155K125AD				
1.5µF -	2012	1.25±0.25	±20%		CGA4J1X7R1E155M125AD				
1.5μ-	3225	2.00±0.20	±10%	CGA6M2X7R1H155K200AD					
	3225	2.00±0.20	±20%	CGA6M2X7R1H155M200AD					
	0010	1.05.0.05	±10%		CGA4J3X7R1E225K125AD				
0.00-	2012	1.25±0.25	±20%		CGA4J3X7R1E225M125AD				
2.2μF -	0040	1 00 0 00 0 10	±10%		CGA5L2X7R1E225K160AD				
	3216	1.60+0.30,-0.10	±20%		CGA5L2X7R1E225M160AD				
0.0	0040		±10%		CGA4J1X7R1E335K125AD	CGA4J3X7R1C335K125AD			
3.3µF	2012	1.25±0.25	±20%		CGA4J1X7R1E335M125AD	CGA4J3X7R1C335M125AD			
	2012	4.05.0.00.0.05	±10%		CGA4J1X7R1E475K125AD	CGA4J3X7R1C475K125AD			
		2012	2012	1.25+0.30,-0.25	±20%		CGA4J1X7R1E475M125AD	CGA4J3X7R1C475M125AD	
-			±10%			CGA5L3X7R1C475K160AD			
	3216	1.60+0.30,-0.10	±20%			CGA5L3X7R1C475M160AD			
4.7μF -				0.00.000	±10%		CGA6M2X7R1E475K200AD		
	2005	2.00±0.20	±20%		CGA6M2X7R1E475M200AD				
	3225		±10%	CGA6P3X7R1H475K250AD					
		2.50±0.30	±20%	CGA6P3X7R1H475M250AD					
			±10%				CGA4J1X7R0J685K125AD		
	2012	1.25±0.25	±20%				CGA4J1X7R0J685M125AD		
6.8μF <u>3216</u>		±10%		CGA5L1X7R1E685K160AD					
	1.60+0.30,-0.10	±20%		CGA5L1X7R1E685M160AD					
			±10%				CGA4J1X7R0J106K125AD		
	2012	1.25±0.25	±20%				CGA4J1X7R0J106M125AD		
10μF -	2010	1 00 0 00 5 :-	±10%		CGA5L1X7R1E106K160AD		-		
3216	3216	3216	1.60+0.30,-0.10	±20%		CGA5L1X7R1E106M160AD			



Temperature characteristics: X8R (-55 to +150°C, ±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 100V	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
		, ,	±10%	Tiated Voltage Ede. 100V	CGA2B2X8R1H151K050BD	Hatca Voltage Ede. 25V	Hated Voltage Ede. 10V
150pF	1005	0.50±0.10	±20%		CGA2B2X8R1H151M050BD		
220pF	1005	0.50±0.10	±10%		CGA2B2X8R1H221K050BD		
220pr	1005	0.50±0.10	±20%		CGA2B2X8R1H221M050BD		
330pF	1005	0.50±0.10	±10%		CGA2B2X8R1H331K050BD		
			±20%		CGA2B2X8R1H331M050BD		
470pF	1005	0.50±0.10	±10%		CGA2B2X8R1H471K050BD		
			±20% ±10%		CGA2B2X8R1H471M050BD CGA2B2X8R1H681K050BD		
680pF	1005	0.50±0.10	±20%		CGA2B2X8R1H681M050BD		
			±10%		CGA2B2X8R1H102K050BD		
4	1005	0.50±0.10	±20%		CGA2B2X8R1H102M050BD		
1nF	1608	0.80±0.15	±10%	CGA3E2X8R2A102K080AD	CGA3E2X8R1H102K080AD		
	1000	0.00±0.15	±20%	CGA3E2X8R2A102M080AD	CGA3E2X8R1H102M080AD		
	1005	0.50±0.10	±10%		CGA2B2X8R1H152K050BD		
1.5nF			±20%	004050\/0504450\/00045	CGA2B2X8R1H152M050BD		
	1608	0.80±0.15	±10%	CGA3E2X8R2A152K080AD	CGA3E2X8R1H152K080AD		
			±20% ±10%	CGA3E2X8R2A152M080AD	CGA3E2X8R1H152M080AD CGA2B2X8R1H222K050BD		
	1005	0.50±0.10	±10%		CGA2B2X8R1H222M050BD		
2.2nF	-		±10%	CGA3E2X8R2A222K080AD	CGA3E2X8R1H222K080AD		
	1608	0.80±0.15	±20%	CGA3E2X8R2A222M080AD	CGA3E2X8R1H222M080AD		
	4005	0.50.040	±10%		CGA2B2X8R1H332K050BD		
3.3nF	1005	0.50±0.10	±20%		CGA2B2X8R1H332M050BD		
3.311	1608	0.80±0.15	±10%	CGA3E2X8R2A332K080AD	CGA3E2X8R1H332K080AD		
	1000	0.0010.10	±20%	CGA3E2X8R2A332M080AD	CGA3E2X8R1H332M080AD		
	1005	0.50±0.10	±10%		CGA2B2X8R1H472K050BD		
4.7nF			±20%	004050V0D04470V0004D	CGA2B2X8R1H472M050BD		
	1608	0.80±0.15	±10% ±20%	CGA3E2X8R2A472K080AD CGA3E2X8R2A472M080AD	CGA3E2X8R1H472K080AD		
			±20%	CGASEZXONZA47ZINIO8UAD	CGA3E2X8R1H472M080AD CGA2B3X8R1H682K050BD	CGA2B2X8R1E682K050BD	
	1005 6.8nF 1608	5 0.50±0.10	±20%		CGA2B3X8R1H682M050BD	CGA2B2X8R1E682M050BD	
6.8nF			±10%	CGA3E2X8R2A682K080AD	CGA3E2X8R1H682K080AD	0 0, 1252, 10, 11, 2002, 110, 000, 000	
		0.80±0.15	±20%	CGA3E2X8R2A682M080AD	CGA3E2X8R1H682M080AD		
	1005	0.50±0.10	±10%		CGA2B3X8R1H103K050BD	CGA2B2X8R1E103K050BD	
	1003	0.30±0.10	±20%		CGA2B3X8R1H103M050BD	CGA2B2X8R1E103M050BD	
10nF	1608	0.80±0.15	±10%	CGA3E2X8R2A103K080AD	CGA3E2X8R1H103K080AD		
			±20%	CGA3E2X8R2A103M080AD	CGA3E2X8R1H103M080AD		
	2012	0.85±0.15	±10%	CGA4F2X8R2A103K085AD			
			±20% ±10%	CGA4F2X8R2A103M085AD		CGA2B3X8R1E153K050BD	
	1005	0.50±0.10	±20%			CGA2B3X8R1E153M050BD	
			±10%	CGA3E2X8R2A153K080AD	CGA3E2X8R1H153K080AD		
15nF	1608	0.80±0.15	±20%	CGA3E2X8R2A153M080AD	CGA3E2X8R1H153M080AD		
	2012	0.85±0.15	±10%	CGA4F2X8R2A153K085AD			
	2012	0.05±0.15	±20%	CGA4F2X8R2A153M085AD			
	1005	0.50±0.10	±10%			CGA2B3X8R1E223K050BD	
			±20%	CCA0E0V0B0A000V000AD	CCA0E0V0D411000V00045	CGA2B3X8R1E223M050BD	
22nF	1608	0.80±0.15	±10% ±20%	CGA3E3X8R2A223K080AD	CGA3E2X8R1H223K080AD CGA3E2X8R1H223M080AD		
			±20% ±10%	CGA3E3X8R2A223M080AD CGA4J2X8R2A223K125AD	OGASEZAON (MZZSIWIUOUAD		
	2012	1.25±0.25	±20%	CGA4J2X8R2A223M125AD			
	105-	0.50.5.5	±10%			CGA2B1X8R1E333K050BD	CGA2B3X8R1C333K050BD
	1005	0.50±0.10	±20%			CGA2B1X8R1E333M050BD	CGA2B3X8R1C333M050BD
	1600	0.80±0.15	±10%	CGA3E3X8R2A333K080AD	CGA3E2X8R1H333K080AD		
33nF	1608	U.OU±U.15	±20%	CGA3E3X8R2A333M080AD	CGA3E2X8R1H333M080AD		
Join	33nF	1.25±0.25	±10%	CGA4J3X8R2A333K125AD			
		±20%	CGA4J3X8R2A333M125AD				
3216		0.85±0.15	±10%	CGA5F2X8R2A333K085AD			
			±20%	CGA5F2X8R2A333M085AD		CGA2B1X8R1E473K050BD	CGA2B3X8R1C473K050BD
	1005	0.50±0.10	±10% ±20%			CGA2B1X8R1E473M050BD	CGA2B3X8R1C473K050BD
			±20%		CGA3E2X8R1H473K080AD	- G. L.S KOI ITE TO ONIOOODD	
47.5	1608	0.80±0.15	±20%		CGA3E2X8R1H473M080AD		
47nF	2010	1.05 . 0.05	±10%	CGA4J3X8R2A473K125AD	<u> </u>		
	2012	1.25±0.25	±20%	CGA4J3X8R2A473M125AD			
	3216	0.85±0.15	±10%	CGA5F2X8R2A473K085AD			
			±20%	CGA5F2X8R2A473M085AD			

 $[\]blacksquare$ Gray item: The product which is not recommended to a new design.



Temperature characteristics: X8R (-55 to +150°C, ±15%)

apacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 100V	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
		,	±10%	Tiatou voltago Lao. 100 v	CGA3E3X8R1H683K080AD	CGA3E2X8R1E683K080AD	riated voltage Ede. 10 v
	1608	0.80±0.15	±20%		CGA3E3X8R1H683M080AD	CGA3E2X8R1E683M080AD	
٥٥ ٦	2010	4.05.0.05	±10%	CGA4J3X8R2A683K125AD	CGA4J2X8R1H683K125AD		
68nF	2012	1.25±0.25	±20%	CGA4J3X8R2A683M125AD	CGA4J2X8R1H683M125AD		
	3216	1.15±0.15	±10%	CGA5H2X8R2A683K115AD			
	3210	1.15±0.15	±20%	CGA5H2X8R2A683M115AD			
	1608	0.80±0.15	±10%		CGA3E3X8R1H104K080AD	CGA3E2X8R1E104K080AD	
		0.0020.10	±20%		CGA3E3X8R1H104M080AD	CGA3E2X8R1E104M080AD	
100nF	2012	1.25±0.25	±10%		CGA4J2X8R1H104K125AD		
			±20%	004511070004404144540	CGA4J2X8R1H104M125AD		
	3216	1.15±0.15	±10% ±20%	CGA5H2X8R2A104K115AD CGA5H2X8R2A104M115AD			
			±20%	CGASH2A6H2A104WI1ISAD		CGA3E3X8R1E154K080AD	
	1608	0.80±0.15	±10%			CGA3E3X8R1E154M080AD	
			±10%			CGA4F2X8R1E154K085AD	
		0.85±0.15	±20%			CGA4F2X8R1E154M085AD	
	2012 -		±10%		CGA4J3X8R1H154K125AD		
150nF		1.25±0.25	±20%		CGA4J3X8R1H154M125AD		
		0.05.045	±10%		CGA5F2X8R1H154K085AD		
	2010	0.85±0.15	±20%		CGA5F2X8R1H154M085AD		
	3216 -	1.60+0.30,-0.10	±10%	CGA5L2X8R2A154K160AD			
		1.00+0.30,-0.10	±20%	CGA5L2X8R2A154M160AD			
	1608	0.80±0.15	±10%			CGA3E3X8R1E224K080AD	
		0.00_0.10	±20%			CGA3E3X8R1E224M080AD	
	2012	1.25±0.25	±10%		CGA4J3X8R1H224K125AD	CGA4J2X8R1E224K125AD	
220nF			±20%		CGA4J3X8R1H224M125AD	CGA4J2X8R1E224M125AD	
		1.15±0.15	±10%		CGA5H2X8R1H224K115AD		
	3216 -		±20%	00.451.0\/00.400.41/400.40	CGA5H2X8R1H224M115AD		
	-	1.60+0.30,-0.10	±10%	CGA5L3X8R2A224K160AD			
			±20% ±10%	CGA5L3X8R2A224M160AD		CGA3E1X8R1E334K080AD	CGA3E3X8R1C334K080A
1608	1608	0.80±0.15	±10%			CGA3E1X8R1E334M080AD	CGA3E3X8R1C334M080A
			±20%			CGA4J2X8R1E334K125AD	CCASESAGITICSS4WIOOOA
	2012	1.25±0.25	±20%			CGA4J2X8R1E334M125AD	
330nF			±10%			CGA5F2X8R1E334K085AD	
		0.85±0.15	±20%			CGA5F2X8R1E334M085AD	
	3216 -	1 00 0 00 0 10	±10%	CGA5L3X8R2A334K160AD	CGA5L2X8R1H334K160AD		
		1.60+0.30,-0.10	±20%	CGA5L3X8R2A334M160AD	CGA5L2X8R1H334M160AD		
	1608	0.80±0.15	±10%				CGA3E3X8R1C474K080Al
	1000	0.00±0.13	±20%				CGA3E3X8R1C474M080A
	2012	1.25±0.25	±10%			CGA4J3X8R1E474K125AD	
		1.2020.20	±20%			CGA4J3X8R1E474M125AD	
470nF		0.85±0.15	±10%			CGA5F2X8R1E474K085AD	
	3216 -		±20%		00451000004114541440040	CGA5F2X8R1E474M085AD	
	-	1.60+0.30,-0.10	±10%		CGA5L2X8R1H474K160AD		
			±20% ±10%	CGA6M3X8R2A474K200AD	CGA5L2X8R1H474M160AD		
	3225	2.00±0.20	±10%	CGA6M3X8R2A474K200AD			
			±20%	3 G. IOMONOI ILATI TIVILOUAD		CGA4J1X8R1E684K125AD	CGA4J3X8R1C684K125AI
	2012	1.25±0.25	±20%			CGA4J1X8R1E684M125AD	CGA4J3X8R1C684M125AI
			±10%			CGA5H2X8R1E684K115AD	
000- 5	0040	1.15±0.15	±20%			CGA5H2X8R1E684M115AD	
680nF	3216 -	1 00 0 00 0 10	+10%		CGA5L3X8R1H684K160AD		
		1.60+0.30,-0.10	±20%		CGA5L3X8R1H684M160AD		
	3225	2.50±0.30	±10%	CGA6P3X8R2A684K250AD			
	3223	∠.JU±U.JU	±20%	CGA6P3X8R2A684M250AD			
9	2012	1.25±0.25	±10%			CGA4J1X8R1E105K125AD	CGA4J3X8R1C105K125A
1µF			±20%			CGA4J1X8R1E105M125AD	CGA4J3X8R1C105M125A
· F-	3216	1.60+0.30,-0.10	±10%		CGA5L3X8R1H105K160AD	CGA5L2X8R1E105K160AD	
			±20%		CGA5L3X8R1H105M160AD	CGA5L2X8R1E105M160AD	
	3216	1.60+0.30,-0.10	±10%			CGA5L3X8R1E155K160AD	
1.5µF		,	±20%			CGA5L3X8R1E155M160AD	
•	3225	1.60±0.20	±10%			CGA6L2X8R1E155K160AD	
			±20%			CGA6L2X8R1E155M160AD	
	3216	1.60+0.30,-0.10	±10%			CGA5L3X8R1E225K160AD	
3∠16 2.2µF ———			±20% ±10%			CGA5L3X8R1E225M160AD CGA6M2X8R1E225K200AD	
						CAMONICAGINICAGINACIONAL	

[■] Gray item: The product which is not recommended to a new design.



Capacitance range table Temperature characteristics: X8R (-55 to +150°C, ±15%)

Capacitance	Capacitance Dimensions		Capacitance	Catalog number	
- Capacitai io			tolerance	Rated voltage Edc: 25V	Rated voltage Edc: 16V
	3216	1.60+0.300.10	±10%	CGA5L1X8R1E335K160AD	CGA5L3X8R1C335K160AD
0.0	3210	1.60+0.30,-0.10	±20%	CGA5L1X8R1E335M160AD	CGA5L3X8R1C335M160AD
3.3µF	3225	0.50.000	±10%	CGA6P2X8R1E335K250AD	
	3225	2.50±0.30	±20%	CGA6P2X8R1E335M250AD	
	3216	1.00.0.00.0.10	±10%	CGA5L1X8R1E475K160AD	CGA5L3X8R1C475K160AD
4.7		1.60+0.30,-0.10	±20%	CGA5L1X8R1E475M160AD	CGA5L3X8R1C475M160AD
4.7µF	0005	0.50.000	±10%	CGA6P3X8R1E475K250AD	
	3225	2.50±0.30	±20%	CGA6P3X8R1E475M250AD	
0.05	0005	0.00.000	±10%	CGA6M1X8R1E685K200AD	CGA6M3X8R1C685K200AD
6.8µF	3225	2.00±0.20	±20%	CGA6M1X8R1E685M200AD	CGA6M3X8R1C685M200AD
10	3225	0.50.0.00	±10%	CGA6P1X8R1E106K250AD	CGA6P3X8R1C106K250AD
10μF	3225	225 2.50±0.30	±20%	CGA6P1X8R1E106M250AD	CGA6P3X8R1C106M250AD

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KHC201E225M76N0T00 LRC-LRF1206LF-01R025FTR1K 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT

1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C

CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C

CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K

CGA3E1X7R1C474K