

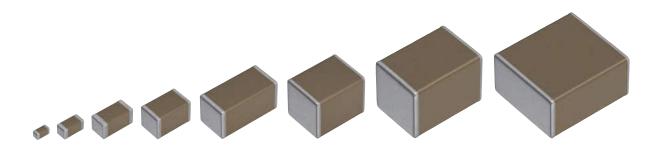


MULTILAYER CERAMIC CHIP CAPACITORS

Automotive Grade, General (Up to 50V)

CGA series

CGA1	0603 [0201 inch]
CGA2	1005 [0402 inch]
CGA3	1608 [0603 inch]
CGA4	2012 [0805 inch]
CGA5	3216 [1206 inch]
CGA6	3225 [1210 inch]
CGA8	4532 [1812 inch]
CGA9	5750 [2220 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 on this catalog are intended for use in automotive electronic equipment under a normal operation and use condi-

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

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 the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (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.

- 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 product label.

Contact your local TDK Sales representative for more information.

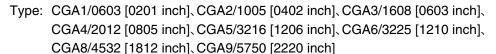
(Example)

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



CGA series

General (Up to 50V)











SERIES OVERVIEW

TDK multilayer ceramic chip capacitor CGA series is a product for surface mount which multiple sheets of dielectric and conductive material are layered alternately. The monolithic structure ensures superior mechanical strength and reliability.

Also the lower ESR, ESL and better frequency characteristics are offered by the simple structure than other capacitors. The capacitance range is up to 47uF and the line-up has been expanding to the region of the film capacitor or electrolytic capacitor.

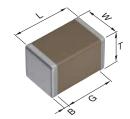
FEATURES

- The superior mechanical strength and reliability due to the monolithic structure
- Low ESR, ESL and excellent frequency characteristics allow for a circuit design that closely conforms to theoretical values.
- Low self-heating and high ripple resistance due to low ESR.
- · No polarity.
- · AEC-Q200 compliant.

APPLICATIONS

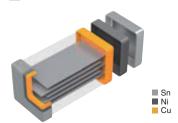
- Automotive electronic equipment (Engine control units, Sensor modules and Battery line smoothing)
- LC resonance circuit (C0G).
- · Applications requiring higher reliability

SHAPE & DIMENSIONS



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

PRODUCT STRUCTURE



The structure which multiple sheets of dielectric and conductive material are layered alternately. The superior mechanical strength and reliability are realized by the monolithic and simple structure.

Dimensions in mm

Туре	L	W	Т	В	G
CGA1	0.60±0.03	0.30±0.03	0.30±0.03	0.10 min.	0.20 min.
CGA2	1.00±0.05	0.50±0.05	0.50±0.05	0.10 min.	0.30 min.
CGA3	1.60±0.10	0.80±0.10	0.80±0.10	0.20 min.	0.30 min.
CGA4	2.00±0.20	1.25±0.20	1.25±0.20	0.20 min.	0.50 min.
CGA5	3.20±0.20	1.60±0.20	1.60±0.20	0.20 min.	1.00 min.
CGA6	3.20±0.40	2.50±0.30	2.50±0.30	0.20 min.	_
CGA8	4.50±0.40	3.20±0.40	2.50±0.30	0.20 min.	_
CGA9	5.70±0.40	5.00±0.40	2.50±0.30	0.20 min.	_

^{*}Dimensional tolerances are typical values.

MULTILAYER CERAMIC CHIP CAPACITORS



CATALOG NUMBER CONSTRUCTION

CGA	9	N	3	X7R	1E	476	M	230	K	В
(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
1	CC0201	0.60	0.30	0.10
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
8	CC1812	4.50	3.20	0.20
9	CC2220	5.70	5.00	0.20

(3) Thickness code

Code	Thickness
A	0.30 mm
В	0.50 mm
С	0.60 mm
E	0.80 mm
F	0.85 mm
Н	1.15 mm
J	1.25 mm
L	1.60 mm
М	2.00 mm
N	2.30 mm
Р	2.50 mm
Q	2.80 mm
R	3.20 mm

(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
COG	0±30 ppm/°C	-55 to +125°C
X5R	±15%	-55 to +85°C
X7R	±15%	-55 to +125°C
X7S	±22%	-55 to +125°C

(6) Rated voltage (DC)

Code	Voltage (DC)
0J	6.3V
1A	10V
1C	16V
1E	25V
1V	35V
1H	50V

(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

(0)	
Code	Thickness
030	0.30 mm
050	0.50 mm
060	0.60 mm
080	0.80 mm
085	0.85 mm
115	1.15 mm
125	1.25 mm
160	1.60 mm
200	2.00 mm
230	2.30 mm
250	2.50 mm
280	2.80 mm
320	3.20 mm

(10) Packaging style

Code	Style	
A	178mm reel, 4mm pitch	
В	178mm reel, 2mm pitch	
K	178mm reel, 8mm pitch	

(11) Special reserved code

Code	Description	
A,B,C	TDK internal code	



CGA1/0603 [0201 inch]

Capacitar	nce	C)G	X7R				
(pF)	Code	1H (50V)	1E (25V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)
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			-				
150	151			-	_	_		
220	221			-	_	_		
330	331				-	-		
470	471							
680	681				-	-		
1,000	102				-	-		
1,500	152							
2,200	222							
3,300	332							
4,700	472							
6,800	682							
10,000	103							

Standard thickness 0.30mm

[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.



CGA2/1005 [0402 inch]

(pF)	1C	
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 6 88 680 82 820	(16V)	1A (10V)
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 10 100 112 120 15 150 18 180 22 220 27 270 33 330 39 390 47 470 56 560 68 680 82 820	, ,	
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68 680 82 820		
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 68,000 683 100,000 104 150,000 154		
68,000 683 100,000 104		
100,000 104		
150,000 154		
220,000 224		
330,000 334		
470,000 474		

Standard thickness 0.50mm

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

■ Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.



CGA3/1608 [0603 inch]

Capacitance Code X5R X7R (pF) Code 1H (50V) 1H (50V) (50V) 1 010 1.5 1R5 2020 222 2R2 33030 3333 3R3 44040 44747 4877 55050 6606 <th></th> <th></th> <th></th> <th></th>				
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470 471 560 561 680 681 820 821 1,000 102 1,200 122 1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103			-	
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680 681 820 821 1,000 102 1,200 122 1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103	_		-	
820 821 1,000 102 1,200 122 1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103				
1,000 102 1,200 122 1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103				
1,200 122 1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103				
1,500 152 1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103				
1,800 182 2,200 222 2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103				
2,700 272 3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103		182		
3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103		222		
3,900 392 4,700 472 5,600 562 6,800 682 8200 822 10,000 103	2,700	272		
4,700 472 5,600 562 6,800 682 8200 822 10,000 103	3,300	332		
5,600 562 6,800 682 8200 822 10,000 103	3,900	392		
6,800 682 8200 822 10,000 103	4,700	472		
6,800 682 8200 822 10,000 103	5,600	562		
10,000 103	6,800	682		
	8200	822		
15,000 153		153		
22,000 223	22,000			
33,000 333	33,000			
47,000 473		473		
68,000 683	68,000	683		

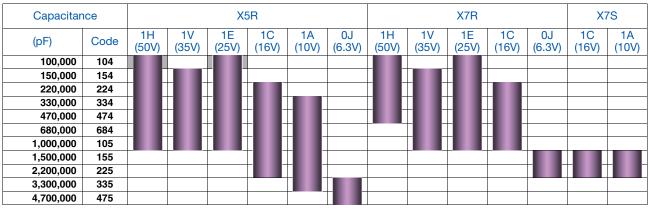
Standard thickness 0.80mm

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

[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.



CGA3/1608 [0603 inch]



Standard thickness 0.80mm

[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.



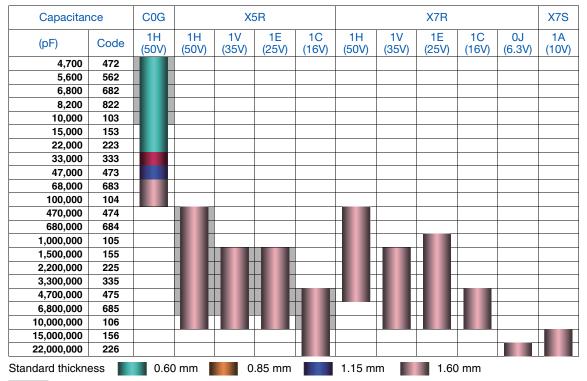
CGA4/2012 [0805 inch]



[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.



CGA5/3216 [1206 inch]



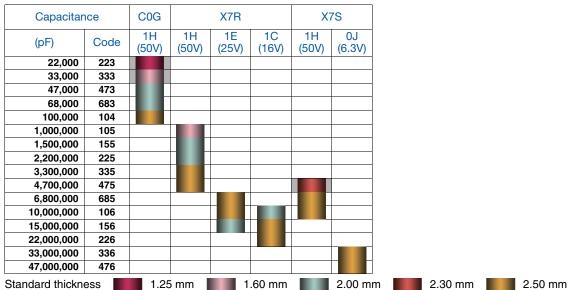
Background gray: The product which is not recommended to a new design.

Capacitance range chart

CGA6/3225 [1210 inch]

Capacitar	ice	COG	X7R			X7	X7S	
(pF)	Code	1H (50V)	1H (50V)	1E (25V)	1C (16V)	1H (50V)	0J (6.3V)	
22,000	223							
33,000	333							
47,000	473							
68,000	683							
100,000	104							
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							
15,000,000	156							
22,000,000	226							
33,000,000	336							
47,000,000	476							
Standard thickne	ess	1.25	mm [1	.60 mm		2.00 mr	

[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.

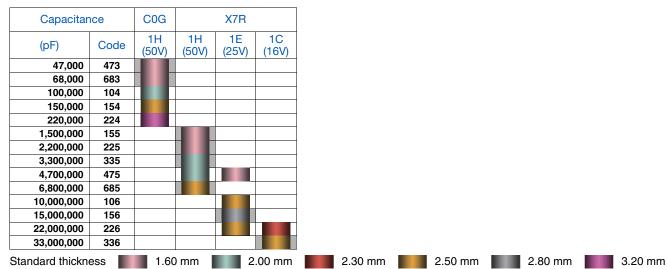


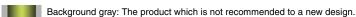
[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



CGA8/4532 [1812 inch]

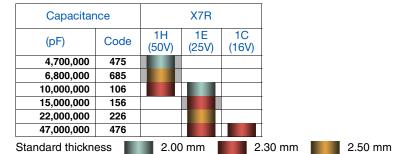




[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.

Capacitance range chart

CGA9/5750 [2220 inch]



[■] Please refer to the capacitance range table after P-12 for the details such as product thickness and capacitance tolerance.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



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

Dec	Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 50V	Rated voltage Edc: 25V
1698		0603	0.30±0.03	±0.25pF	CGA1A2C0G1H010C030BA	CGA1A2C0G1E010C030BA
1.5pF 1005	1pF					
1.5pF 1005						
1608						CGA1A2C0G1E1R5C030BA
2pF 0603 0.30±0.05 ±0.25pF CGARBACCOG HIRDOCOSIGNA 1608 0.80±0.05 ±0.25pF CGARBECCOG HIRDOCOSIGNA 1608 0.80±0.01 ±0.25pF CGARBECCOG HIRDOCOSIGNA 2.2pF 1006 0.80±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 1006 0.80±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 0003 0.30±0.03 ±0.25pF CGARBECCOG HIRROCOSIGNA 0003 0.90±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 0003 0.90±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 0003 0.90±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 0003 0.90±0.03 ±0.25pF CGARBECCOG HIRROCOSIGNA 1005 0.50±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 40F 1005 0.50±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA 40F 1005 0.50±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA CGA14ACCOG HIRROCOSIGNA 47pF 1005 0.50±0.05 ±0.25pF CGARBECCOG HIRROCOSIGNA CGA14ACCOG HIRRO	1.5pF					
2pF 1005 0.50±0.05 ±0.25pF CGASESCOG HIRDGOGGGRAA 1068 0.80±0.01 ±0.25pF CGA142CCGG1H2R2CC050BA CGA142CCG1H2R2CC050BA 1006 0.80±0.03 ±0.25pF CGA142CCGG1H2R2CC050BA CGA142CCG1H2R2CC050BA 0603 0.30±0.03 ±0.25pF CGA28ECCG1H2R2C2C050BA CGA142CCG1E030CG3 1608 0.80±0.01 ±0.25pF CGA28ECCGG1H2R3CC2050BA CGA142CCG1E3GCGG1BGGCGGGGGA 1608 0.80±0.01 ±0.25pF CGA28ECCGG1H3R3CC030BA CGA142CCG1E3R3CC30BA 3.3pF 1005 0.50±0.05 ±0.25pF CGA28ECCGG1H3R3CC030BA CGA142CCG1E3R3CC30BA 4pF 1006 0.80±0.01 ±0.25pF CGA28ECCGG1H3R3CC03BA CGA142CCGG1E3R3CC30BA 4pF 1005 0.50±0.05 ±0.25pF CGA142CCGG1H3R3CC03BA CGA142CCGG1E3R3CC3CGHAGCCGGAACAGAGAGAGAGAGAGAGAGAGAGAGAGAG						CCA1A2C0C1E020C020BA
1608	2nE					CGATA2COGTE020C030BA
2.2pF	Σþi					
22pF						CGA1A2C0G1E2B2C030BA
1608	2.2pF					34
0603						
1608		0603		±0.25pF		CGA1A2C0G1E030C030BA
1608	3pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H030C050BA	
3.3pF		1608	0.80±0.10	±0.25pF	CGA3E2C0G1H030C080AA	
1608		0603	0.30±0.03	±0.25pF	CGA1A2C0G1H3R3C030BA	CGA1A2C0G1E3R3C030BA
4pF 1005 0.50±0.03 ±0.25pF CGA12C0G1H04C0C050BA 1608 0.50±0.05 ±0.25pF CGA2B2C0G1H04C0C080BA 1608 0.80±0.10 ±0.25pF CGA2B2C0G1H04C0C080AA 0603 0.30±0.03 ±0.25pF CGA12C0G1H04C0C080AA 14.7pF 1005 0.50±0.05 ±0.25pF CGA12C0G1H04T0C080AA 1608 0.80±0.10 ±0.25pF CGA12C0G1H04T0C080BA CGA1A2C0G1E4R7C030BA 1608 0.80±0.10 ±0.25pF CGA12C0G1H04T0C080BA CGA1A2C0G1E4R7C030BA 1608 0.80±0.10 ±0.25pF CGA12C0G1H05C0C080BA CGA1A2C0G1E050C030BA 1608 0.80±0.10 ±0.25pF CGA2B2C0G1H05C0C080BA CGA1A2C0G1E050C030BA 1608 0.80±0.10 ±0.25pF CGA2B2C0G1H05C0C080BA 1608 0.80±0.10 ±0.25pF CGA2B2C0G1H05C0C080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H05C0C080BA CGA1A2C0G1E050C030BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H05C0C080BA CGA1A2C0G1E060D030BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H05C0C080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06C0D080AA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06R0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06R0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H06R0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H07C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H07C0D080BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H07C0D080BA 1608 0.80±0.10 ±0.50pF CGA3B2C0G1H07C0D080BA 1608 0.80±0.10 ±0.50pF C	3.3pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H3R3C050BA	
4PF		1608	0.80±0.10	±0.25pF	CGA3E2C0G1H3R3C080AA	
1608		0603	0.30±0.03	±0.25pF	CGA1A2C0G1H040C030BA	CGA1A2C0G1E040C030BA
4.7pF 1005	4pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H040C050BA	
4.7pF		1608	0.80±0.10	±0.25pF	CGA3E2C0G1H040C080AA	
1608		0603	0.30±0.03	±0.25pF	CGA1A2C0G1H4R7C030BA	CGA1A2C0G1E4R7C030BA
De03	4.7pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H4R7C050BA	
5pF		1608	0.80±0.10	±0.25pF	CGA3E2C0G1H4R7C080AA	
1608		0603	0.30±0.03	±0.25pF	CGA1A2C0G1H050C030BA	CGA1A2C0G1E050C030BA
0603	5pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H050C050BA	
6pF 1005 0.50±0.05 ±0.50pF CGA3E2COG1H060D080BA 608 0.80±0.10 ±0.50pF CGA3E2COG1H060D080BA CGA142COG1E6R8D030BA 6.8pF 1005 0.50±0.05 ±0.50pF CGA3E2COG1H6R8D030BA CGA142COG1E6R8D030BA 1608 0.80±0.10 ±0.50pF CGA3E2COG1H6R8D080AA CGA142COG1E670D030BA 7pF 1005 0.50±0.05 ±0.50pF CGA3E2COG1H070D080BA CGA142COG1E070D030BA 1608 0.80±0.10 ±0.50pF CGA3E2COG1H070D080BA CGA142COG1E080D030BA 1608 0.80±0.10 ±0.50pF CGA3E2COG1H080D080BA CGA142COG1E080D030BA 8pF 1005 0.50±0.05 ±0.50pF CGA3E2COG1H080D080BA CGA14A2COG1E080D030BA 1608 0.80±0.10 ±0.50pF CGA3E2COG1H080D080BA CGA14A2COG1E080D030BA 1608 0.80±0.10 ±0.50pF CGA3E2COG1H090D030BA CGA14A2COG1E090D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA3E2COG1H090D030BA CGA14A2COG1E1090D030BA 10pF 1005 0.50±0.05 ±0.50pF		1608	0.80±0.10	±0.25pF	CGA3E2C0G1H050C080AA	
1608		0603	0.30±0.03	±0.50pF	CGA1A2C0G1H060D030BA	CGA1A2C0G1E060D030BA
0603	6pF	1005	0.50±0.05	±0.50pF		
6.8pF						
1608			0.30±0.03		CGA1A2C0G1H6R8D030BA	CGA1A2C0G1E6R8D030BA
7pF 0603 0.30±0.03 ±0.50pF CGA1A2C0G1H070D030BA CGA1A2C0G1E070D030BA 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H070D050BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H070D080AA 0603 0.30±0.03 ±0.50pF CGA1A2C0G1H080D030BA CGA1A2C0G1E080D030BA 8pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H080D050BA CGA1A2C0G1H090D030BA 1608 0.80±0.10 ±0.50pF CGA1A2C0G1H090D050BA CGA1A2C0G1H090D050BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H090D050BA CGA1A2C0G1H090D030BA 1608 0.80±0.10 ±0.50pF CGA3E2C0G1H090D030BA CGA1A2C0G1H00D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H100D030BA CGA1A2C0G1H00D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H00D030BA CGA1A2C0G1H00D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H100D030BA CGA1A2C0G1E100D030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H120J030BA CGA1A	6.8pF		0.50±0.05		CGA2B2C0G1H6R8D050BA	
7pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H070D050BA 1608 0.80±0.10 ±0.50pF CGA3E2C0G1H070D080AA 0603 0.30±0.03 ±0.50pF CGA1A2C0G1H080D030BA CGA1A2C0G1E080D030BA 8pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H080D050BA CGA1A2C0G1E090D030BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H090D030BA CGA1A2C0G1E090D030BA 9pF 1005 0.50±0.05 ±0.50pF CGA3B2C0G1H090D050BA CGA1A2C0G1E1090D030BA 1068 0.80±0.10 ±0.50pF CGA3E2C0G1H109D080AA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA1A2C0G1H100D030BA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA1A2C0G1H100D030BA CGA1A2C0G1E10D030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H10D030BA CGA1A2C0G1E120J030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H120J030BA CGA1A2C0G1E120J030BA 15pF 1005 0.50±0.05 ±5% CGA2B						
1608						CGA1A2C0G1E070D030BA
8pF 1005 0.50±0.05 ±0.50pF CGA1A2C0G1H080D050BA CGA1A2C0G1E080D030BA 8pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H080D050BA CGA1A2C0G1E080D030BA 1608 0.80±0.10 ±0.50pF CGA3E2C0G1H080D080AA CGA1A2C0G1E090D030BA 9pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H090D050BA CGA1A2C0G1E100D030BA 1608 0.80±0.10 ±0.50pF CGA2B2C0G1H090D080AA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H100D030BA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H100D030BA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA3E2C0G1H100D080AA CGA1A2C0G1E120J030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H120J030BA CGA1A2C0G1E120J030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H120J030BA CGA1A2C0G1E150J030BA 15pF 1005 0.50±0.05 ±5% CGA2B2C0G1H150J030BA CGA1A2C0G1E150J030BA	7pF					
8pF						
1608						CGA1A2C0G1E080D030BA
9pF 1005 0.30±0.03 ±0.50pF CGA1A2C0G1H090D030BA CGA1A2C0G1E090D030BA 9pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H090D050BA CGA1A2C0G1E100D030BA 1608 0.80±0.10 ±0.50pF CGA1A2C0G1H1090D080AA CGA1A2C0G1E100D030BA 10pF 1005 0.50±0.05 ±0.50pF CGA2B2C0G1H100D050BA CGA1A2C0G1E120J030BA 1608 0.80±0.10 ±0.50pF CGA3E2C0G1H100D080AA CGA1A2C0G1E120J030BA 12pF 1005 0.50±0.05 ±5% CGA2B2C0G1H120J030BA CGA1A2C0G1E120J030BA 12pF 1005 0.50±0.05 ±5% CGA3E2C0G1H120J030BA CGA1A2C0G1E150J030BA 15pF 1005 0.50±0.05 ±5% CGA2B2C0G1H150J030BA CGA1A2C0G1E150J030BA 15pF 1005 0.50±0.05 ±5% CGA2B2C0G1H150J030BA CGA1A2C0G1E150J030BA 18pF 1005 0.50±0.05 ±5% CGA2B2C0G1H180J030BA CGA1A2C0G1E180J030BA 18pF 1005 0.50±0.05 ±5% CGA2B2C0G1H180J030BA CGA1A2C0G1E20J030BA	8pF					
9pF						CCA1A0C0C1E000D000BA
1608	0					CGATA2C0GTE090D030BA
10pF	эрг					
10pF						CGA1A2C0G1E100D030BA
1608	10nF					CGATAZCOGTETOODOSOBA
12pF	торг					
12pF						CGA1A2C0G1E120.I030BA
1608	12nF					Cartification 12 (2000)
15pF 1005	р.					
15pF						CGA1A2C0G1E150J030BA
1608	15pF					
18pF 1005	•					
18pF						CGA1A2C0G1E180J030BA
22pF	18pF	1005			CGA2B2C0G1H180J050BA	
22pF 1005 0.50±0.05 ±5% CGA2B2C0G1H220J050BA 1608 0.80±0.10 ±5% CGA3E2C0G1H220J080AA 0603 0.30±0.03 ±5% CGA1A2C0G1H270J030BA CGA1A2C0G1E270J030BA 27pF 1005 0.50±0.05 ±5% CGA2B2C0G1H270J050BA CGA1A2C0G1E270J030BA 1608 0.80±0.10 ±5% CGA3E2C0G1H270J080AA CGA1A2C0G1E330J030BA 33pF 1005 0.50±0.05 ±5% CGA1A2C0G1H330J050BA CGA1A2C0G1E330J030BA 1608 0.80±0.10 ±5% CGA3E2C0G1H330J030BA CGA1A2C0G1E390J030BA 39pF 1005 0.50±0.05 ±5% CGA2B2C0G1H390J030BA CGA1A2C0G1E390J030BA 39pF 1005 0.50±0.05 ±5% CGA2B2C0G1H390J050BA CGA1A2C0G1E390J030BA 1608 0.80±0.10 ±5% CGA3E2C0G1H390J080AA CGA1A2C0G1E470J030BA 1608 0.80±0.10 ±5% CGA3E2C0G1H470J030BA CGA1A2C0G1E470J030BA 47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA		1608	0.80±0.10	±5%	CGA3E2C0G1H180J080AA	
1608		0603	0.30±0.03	±5%	CGA1A2C0G1H220J030BA	CGA1A2C0G1E220J030BA
0603	22pF	1005	0.50±0.05	±5%	CGA2B2C0G1H220J050BA	
27pF		1608	0.80±0.10	±5%	CGA3E2C0G1H220J080AA	
1608		0603	0.30±0.03	±5%	CGA1A2C0G1H270J030BA	CGA1A2C0G1E270J030BA
0603	27pF	1005	0.50±0.05	±5%	CGA2B2C0G1H270J050BA	
33pF		1608	0.80±0.10	±5%	CGA3E2C0G1H270J080AA	
1608			0.30±0.03	±5%	CGA1A2C0G1H330J030BA	CGA1A2C0G1E330J030BA
39pF 0603 0.30±0.03 ±5% CGA1A2C0G1H390J030BA CGA1A2C0G1E390J030BA 1005 0.50±0.05 ±5% CGA2B2C0G1H390J050BA 1608 0.80±0.10 ±5% CGA3E2C0G1H390J080AA 0603 0.30±0.03 ±5% CGA1A2C0G1H470J030BA CGA1A2C0G1E470J030BA 47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA	33pF	1005	0.50±0.05	±5%	CGA2B2C0G1H330J050BA	
39pF 1005 0.50±0.05 ±5% CGA2B2C0G1H390J050BA 1608 0.80±0.10 ±5% CGA3E2C0G1H390J080AA 0603 0.30±0.03 ±5% CGA1A2C0G1H470J030BA CGA1A2C0G1E470J030BA 47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA						
1608 0.80±0.10 ±5% CGA3E2C0G1H390J080AA 0603 0.30±0.03 ±5% CGA1A2C0G1H470J030BA CGA1A2C0G1E470J030BA 47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA		0603	0.30±0.03	±5%	CGA1A2C0G1H390J030BA	CGA1A2C0G1E390J030BA
0603 0.30±0.03 ±5% CGA1A2C0G1H470J030BA CGA1A2C0G1E470J030BA 47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA CGA1A2C0G1E470J030BA	39pF					
47pF 1005 0.50±0.05 ±5% CGA2B2C0G1H470J050BA						
						CGA1A2C0G1E470J030BA
1608 0.80±0.10 ±5% CGA3E2C0G1H470J080AA	47pF					
		1608	0.80±0.10	±5%	CGA3E2C0G1H470J080AA	

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



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

Canacitance	Dimensions	Thickness	Capacitance	Catalog number	
Capacitarice	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 25V
	0603	0.30±0.03	±5%	CGA1A2C0G1H560J030BA	CGA1A2C0G1E560J030BA
56pF	1005	0.50±0.05	±5%	CGA2B2C0G1H560J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H560J080AA	
	0603	0.30±0.03	±5%	CGA1A2C0G1H680J030BA	CGA1A2C0G1E680J030BA
68pF	1005	0.50±0.05	±5%	CGA2B2C0G1H680J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H680J080AA	00444000045004500
	0603	0.30±0.03	±5%	CGA1A2C0G1H820J030BA	CGA1A2C0G1E820J030BA
82pF	1005	0.50±0.05	±5%	CGA2B2C0G1H820J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H820J080AA	004440000454041000004
100-5	0603	0.30±0.03	±5%	CGA1A2C0G1H101J030BA	CGA1A2C0G1E101J030BA
100pF	1005 1608	0.50±0.05 0.80±0.10	±5%	CGA2B2C0G1H101J050BA	
	1005	0.50±0.10	±5% ±5%	CGA3E2C0G1H101J080AA CGA2B2C0G1H121J050BA	
120pF	1608	0.80±0.03	±5%	CGA3E2C0G1H121J080AA	
	1005	0.50±0.10	±5%	CGA2B2C0G1H151J050BA	
150pF	1608	0.80±0.03	±5%	CGA3E2C0G1H151J080AA	
	1005	0.50±0.10	±5%	CGA2B2C0G1H181J050BA	
180pF	1608	0.80±0.03	±5%	CGA3E2C0G1H181J080AA	
	1005	0.50±0.10	±5%	CGA2B2C0G1H221J050BA	
220pF	1608	0.80±0.00	±5%	CGA3E2C0G1H221J080AA	
	1005	0.50±0.10	±5%	CGA2B2C0G1H271J050BA	
270pF	1608	0.80±0.10	±5%	CGA3E2C0G1H271J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H331J050BA	
330pF	1608	0.80±0.10	±5%	CGA3E2C0G1H331J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H391J050BA	
390pF	1608	0.80±0.10	±5%	CGA3E2C0G1H391J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H471J050BA	
470pF	1608	0.80±0.10	±5%	CGA3E2C0G1H471J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H561J050BA	
560pF	1608	0.80±0.10	±5%	CGA3E2C0G1H561J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H681J050BA	
680pF	1608	0.80±0.10	±5%	CGA3E2C0G1H681J080AA	
222 5	1005	0.50±0.05	±5%	CGA2B2C0G1H821J050BA	
820pF	1608	0.80±0.10	±5%	CGA3E2C0G1H821J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H102J050BA	
1nF	1608	0.80±0.10	±5%	CGA3E2C0G1H102J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H102J060AA	
1.2nF	1608	0.80±0.10	±5%	CGA3E2C0G1H122J080AA	
1.211	2012	0.60±0.15	±5%	CGA4C2C0G1H122J060AA	
1.5nF	1608	0.80±0.10	±5%	CGA3E2C0G1H152J080AA	
1.5111	2012	0.60±0.15	±5%	CGA4C2C0G1H152J060AA	
1.8nF	1608	0.80±0.10	±5%	CGA3E2C0G1H182J080AA	
1.0111	2012	0.60±0.15	±5%	CGA4C2C0G1H182J060AA	
2.2nF	1608	0.80±0.10	±5%	CGA3E2C0G1H222J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H222J060AA	
2.7nF	1608	0.80±0.10	±5%	CGA3E2C0G1H272J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H272J060AA	
3.3nF	1608	0.80±0.10	±5%	CGA3E2C0G1H332J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H332J060AA	
3.9nF	1608	0.80±0.10	±5%	CGA3E2C0G1H392J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H392J060AA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H472J080AA	
4.7nF	2012	0.60±0.15	±5%	CGA4C2C0G1H472J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H472J060AA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H562J080AA	
5.6nF	2012	0.60±0.15	±5%	CGA4C2C0G1H562J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H562J060AA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H682J080AA	
6.8nF	2012	0.60±0.15	±5%	CGA4C2C0G1H682J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H682J060AA	
0.0. =	1608	0.80±0.10	±5%	CGA3E2C0G1H822J080AA	
8.2nF	2012	0.60±0.15	±5%	CGA4C2C0G1H822J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H822J060AA	
10-5	1608	0.80±0.10	±5%	CGA3E2C0G1H103J080AA	
10nF	2012	0.60±0.15	±5%	CGA4C2C0G1H103J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H103J060AA	
15nF	2012	0.85±0.15	±5%	CGA4F2C0G1H153J085AA	
	3216	0.60±0.15	±5%	CGA412C0G1H2221125AA	
OOr F	2012	1.25±0.20	±5%	CGA4J2C0G1H223J125AA	
22nF	3216	0.60±0.15	±5%	CGA5C2C0G1H223J060AA	
	3225	1.25±0.20	±5%	CGA6J2C0G1H223J125AA	

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

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

Consoitones	Dimensions	Thickness	Capacitance	Catalog number
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V
	2012	1.25±0.20	±5%	CGA4J2C0G1H333J125AA
33nF	3216	0.85±0.15	±5%	CGA5F2C0G1H333J085AA
	3225	1.60±0.20	±5%	CGA6L2C0G1H333J160AA
	3216	1.15±0.15	±5%	CGA5H2C0G1H473J115AA
47nF	3225	2.00±0.20	±5%	CGA6M2C0G1H473J200AA
	4532	1.60±0.20	±5%	CGA8L2C0G1H473J160KA
·-	3216	1.60±0.20	±5%	CGA5L2C0G1H683J160AA
68nF	3225	2.00±0.20	±5%	CGA6M2C0G1H683J200AA
	4532	1.60±0.20	±5%	CGA8L2C0G1H683J160KA
·-	3216	1.60±0.20	±5%	CGA5L2C0G1H104J160AA
100nF	3225	2.50±0.30	±5%	CGA6P2C0G1H104J250AA
	4532	2.00±0.20	±5%	CGA8M2C0G1H104J200KA
150nF	4532	2.50±0.30	±5%	CGA8P2C0G1H154J250KA
220nF	4532	3.20±0.30	±5%	CGA8R2C0G1H224J320KA

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



Capacitance	Dimensions	Thickness	Capacitance	Catalog number		
Сараспансе	Difficusions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
220pF	1005	0.50±0.05	±10%	CGA2B2X5R1H221K050BA		
			±20%	CGA2B2X5R1H221M050BA		
330pF	1005	0.50±0.05	±10%	CGA2B2X5R1H331K050BA		
			±20% ±10%	CGA2B2X5R1H331M050BA		
470pF	1005	0.50±0.05	±10%	CGA2B2X5R1H471K050BA CGA2B2X5R1H471M050BA		
			±10%	CGA2B2X5R1H681K050BA		
680pF	1005	0.50±0.05	±20%	CGA2B2X5R1H681M050BA		
	1005	0.50.0.05	±10%	CGA2B2X5R1H102K050BA		
1nF	1005	0.50±0.05	±20%	CGA2B2X5R1H102M050BA		
	1608	0.80±0.10	±10%	CGA3E2X5R1H102K080AA		
			±20%	CGA3E2X5R1H102M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H152K050BA		
1.5nF			±20% ±10%	CGA2B2X5R1H152M050BA CGA3E2X5R1H152K080AA		
	1608	0.80±0.10	±10%	CGA3E2X5R1H152K080AA		
			±10%	CGA2B2X5R1H222K050BA		
	1005	0.50±0.05	±20%	CGA2B2X5R1H222M050BA		
2.2nF	4000	0.00.040	±10%	CGA3E2X5R1H222K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H222M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H332K050BA		
3.3nF	1000	0.0010.00	±20%	CGA2B2X5R1H332M050BA		
	1608	0.80±0.10	±10%	CGA3E2X5R1H332K080AA		
			±20% ±10%	CGA3E2X5R1H332M080AA CGA2B2X5R1H472K050BA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H472M050BA		
4.7nF			±10%	CGA3E2X5R1H472K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H472M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H682K050BA		
6.8nF ————————————————————————————————————	0.30±0.03	±20%	CGA2B2X5R1H682M050BA			
	0.80±0.10	±10%	CGA3E2X5R1H682K080AA			
			±20%	CGA3E2X5R1H682M080AA		
	1005	0.50±0.05	±10%	CGA2B3X5R1H103K050BB	CGA2B3X5R1V103K050BB	CGA2B2X5R1E103K050BA
10nF			±20% ±10%	CGA2B3X5R1H103M050BB CGA3E2X5R1H103K080AA	CGA2B3X5R1V103M050BB	CGA2B2X5R1E103M050BA
	1608	0.80±0.10	±20%	CGA3E2X5R1H103M080AA		
	1005	0.50.005	±10%	CGA2B3X5R1H153K050BB	CGA2B3X5R1V153K050BB	CGA2B2X5R1E153K050BA
15nF	1005	0.50±0.05	±20%	CGA2B3X5R1H153M050BB	CGA2B3X5R1V153M050BB	CGA2B2X5R1E153M050BA
ISHE	1608	0.80±0.10	±10%	CGA3E2X5R1H153K080AA		
	1000	0.0010.10	±20%	CGA3E2X5R1H153M080AA		
	1005	0.50±0.05	±10%	CGA2B3X5R1H223K050BB	CGA2B3X5R1V223K050BB	CGA2B2X5R1E223K050BA
22nF			±20%	CGA2B3X5R1H223M050BB	CGA2B3X5R1V223M050BB	CGA2B2X5R1E223M050BA
	1608	0.80±0.10	±10% ±20%	CGA3E2X5R1H223K080AA CGA3E2X5R1H223M080AA		
			±10%	CGA2B3X5R1H333K050BB	CGA2B3X5R1V333K050BB	CGA2B2X5R1E333K050BA
	1005	0.50±0.05	±20%	CGA2B3X5R1H333M050BB	CGA2B3X5R1V333M050BB	CGA2B2X5R1E333M050BA
33nF	1000	2.22.2.12	±10%	CGA3E2X5R1H333K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H333M080AA		
	1005	0.50±0.05	±10%	CGA2B3X5R1H473K050BB	CGA2B3X5R1V473K050BB	CGA2B2X5R1E473K050BA
47nF		0.00±0.00	±20%	CGA2B3X5R1H473M050BB	CGA2B3X5R1V473M050BB	CGA2B2X5R1E473M050BA
***	1608	0.80±0.10	±10%	CGA3E2X5R1H473K080AA		
			±20%	CGA3E2X5R1H473M080AA	CC ADDOVED 1 VCCOVOE ODD	CCAODOVED4ECOOKOEODD
68nF —	1005	0.50±0.05	±10% ±20%	CGA2B3X5R1H683K050BB CGA2B3X5R1H683M050BB	CGA2B3X5R1V683K050BB CGA2B3X5R1V683M050BB	CGA2B3X5R1E683K050BB CGA2B3X5R1E683M050BB
			±10%	CGA3E2X5R1H683K080AA	C GA ALBOAGA LA VOCCIVIOSOBB	C SA TEDONOL LI EGGONIOSUBB
	1608	0.80±0.10	±20%	CGA3E2X5R1H683M080AA		
	1005	0.50.005	±10%	CGA2B3X5R1H104K050BB	CGA2B3X5R1V104K050BB	CGA2B3X5R1E104K050BB
100nF	1005	0.50±0.05	±20%	CGA2B3X5R1H104M050BB	CGA2B3X5R1V104M050BB	CGA2B3X5R1E104M050BB
IUUIIF	1608	0.80±0.10	±10%	CGA3E2X5R1H104K080AA		CGA3E2X5R1E104K080AA
	1000	0.00±0.10	±20%	CGA3E2X5R1H104M080AA		CGA3E2X5R1E104M080AA
	1608	0.80±0.10	±10%	CGA3E3X5R1H154K080AB	CGA3E3X5R1V154K080AB	CGA3E2X5R1E154K080AA
150nF —			±20%	CGA412YED1H154K125AA	CGA3E3X5R1V154M080AB	CGA3E2X5R1E154M080AA
	2012	1.25±0.20	±10% ±20%	CGA4J2X5R1H154K125AA CGA4J2X5R1H154M125AA		
			± LU /0	S SA TOLAGITITIOTIVITZUAA		

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



Canacitance	Dimensions	Thickness	Capacitance	Catalog number		
Capacitance Dimensions		(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
	1608	0.80±0.10	±10%	CGA3E3X5R1H224K080AB	CGA3E3X5R1V224K080AB	CGA3E2X5R1E224K080AA
220nF	1000	0.00±0.10	±20%	CGA3E3X5R1H224M080AB	CGA3E3X5R1V224M080AB	CGA3E2X5R1E224M080AA
220111	2012	1.25±0.20	±10%	CGA4J2X5R1H224K125AA		
	2012	1.23±0.20	±20%	CGA4J2X5R1H224M125AA		
	1608	0.80±0.10	±10%	CGA3E3X5R1H334K080AB	CGA3E3X5R1V334K080AB	CGA3E3X5R1E334K080AB
330nF	1000	0.00±0.10	±20%	CGA3E3X5R1H334M080AB	CGA3E3X5R1V334M080AB	CGA3E3X5R1E334M080AB
000111	2012	1.25±0.20	±10%	CGA4J2X5R1H334K125AA		
	2012	1.20±0.20	±20%	CGA4J2X5R1H334M125AA		
	1608	0.80±0.10	±10%	CGA3E3X5R1H474K080AB	CGA3E3X5R1V474K080AB	CGA3E3X5R1E474K080AB
	1000	0.00±0.10	±20%	CGA3E3X5R1H474M080AB	CGA3E3X5R1V474M080AB	CGA3E3X5R1E474M080AB
470nF	2012	1.25±0.20	±10%	CGA4J3X5R1H474K125AB	CGA4J3X5R1V474K125AB	CGA4J2X5R1E474K125AA
470111	2012	1.20±0.20	±20%	CGA4J3X5R1H474M125AB	CGA4J3X5R1V474M125AB	CGA4J2X5R1E474M125AA
	3216	1.60+0.30,-0.10	±10%	CGA5L2X5R1H474K160AA		
	3210	1.00+0.30,-0.10	±20%	CGA5L2X5R1H474M160AA		
	1608	0.80±0.10	±10%	CGA3E3X5R1H684K080AB	CGA3E3X5R1V684K080AB	CGA3E3X5R1E684K080AB
	1000	0.00±0.10	±20%	CGA3E3X5R1H684M080AB	CGA3E3X5R1V684M080AB	CGA3E3X5R1E684M080AB
680nF	2012	1.25±0.20	±10%	CGA4J3X5R1H684K125AB	CGA4J3X5R1V684K125AB	CGA4J2X5R1E684K125AA
000111	2012	2 1.25±0.20	±20%	CGA4J3X5R1H684M125AB	CGA4J3X5R1V684M125AB	CGA4J2X5R1E684M125AA
	3216	6 1.60+0.30,-0.10	±10%	CGA5L2X5R1H684K160AA		
3216	3210	1.60+0.30,-0.10	±20%	CGA5L2X5R1H684M160AA		
	1608	0.80±0.10	±10%	CGA3E3X5R1H105K080AB	CGA3E3X5R1V105K080AB	CGA3E3X5R1E105K080AB
	1006	0.60±0.10	±20%	CGA3E3X5R1H105M080AB	CGA3E3X5R1V105M080AB	CGA3E3X5R1E105M080AB
1µF	2012	1.25±0.20	±10%	CGA4J3X5R1H105K125AB	CGA4J3X5R1V105K125AB	CGA4J2X5R1E105K125AA
īμī	2012	1.23±0.20	±20%	CGA4J3X5R1H105M125AB	CGA4J3X5R1V105M125AB	CGA4J2X5R1E105M125AA
	3216	1.60+0.30,-0.10	±10%	CGA5L2X5R1H105K160AA		
	3210	1.00+0.00,-0.10	±20%	CGA5L2X5R1H105M160AA		
	2012	1.25±0.20	±10%	CGA4J3X5R1H155K125AB	CGA4J3X5R1V155K125AB	CGA4J3X5R1E155K125AB
1.5µF	2012	1.23±0.20	±20%	CGA4J3X5R1H155M125AB	CGA4J3X5R1V155M125AB	CGA4J3X5R1E155M125AB
1.5μ1	3216	1.60+0.30,-0.10	±10%	CGA5L3X5R1H155K160AB	CGA5L3X5R1V155K160AB	CGA5L2X5R1E155K160AA
	3210	1.00+0.00,-0.10	±20%	CGA5L3X5R1H155M160AB	CGA5L3X5R1V155M160AB	CGA5L2X5R1E155M160AA
	2012	1.25±0.20	±10%	CGA4J3X5R1H225K125AB	CGA4J3X5R1V225K125AB	CGA4J3X5R1E225K125AB
2.2µF	2012	1.23±0.20	±20%	CGA4J3X5R1H225M125AB	CGA4J3X5R1V225M125AB	CGA4J3X5R1E225M125AB
2.2μι	3216	1.60+0.30,-0.10	±10%	CGA5L3X5R1H225K160AB	CGA5L3X5R1V225K160AB	CGA5L2X5R1E225K160AA
	3210	1.00+0.00,-0.10	±20%	CGA5L3X5R1H225M160AB	CGA5L3X5R1V225M160AB	CGA5L2X5R1E225M160AA
	2012	1.25±0.20	±10%	CGA4J3X5R1H335K125AB	CGA4J3X5R1V335K125AB	CGA4J3X5R1E335K125AB
2 2uE	2012	1.23±0.20	±20%	CGA4J3X5R1H335M125AB	CGA4J3X5R1V335M125AB	CGA4J3X5R1E335M125AB
3.3µF −	3216	1.60+0.30,-0.10	±10%	CGA5L3X5R1H335K160AB	CGA5L3X5R1V335K160AB	CGA5L2X5R1E335K160AA
	3210	1.00+0.50,-0.10	±20%	CGA5L3X5R1H335M160AB	CGA5L3X5R1V335M160AB	CGA5L2X5R1E335M160AA
4.7μF ——	2012	1.25±0.20	±10%	CGA4J3X5R1H475K125AB	CGA4J3X5R1V475K125AB	CGA4J3X5R1E475K125AB
	2012	1.2010.20	±20%	CGA4J3X5R1H475M125AB	CGA4J3X5R1V475M125AB	CGA4J3X5R1E475M125AB
	3216	3216 1.60+0.30,-0.10	±10%	CGA5L3X5R1H475K160AB	CGA5L3X5R1V475K160AB	CGA5L2X5R1E475K160AA
	3210	1.00+0.00,-0.10	±20%	CGA5L3X5R1H475M160AB	CGA5L3X5R1V475M160AB	CGA5L2X5R1E475M160AA
6.8µF	3216	1.60+0.30,-0.10	±10%	CGA5L3X5R1H685K160AB	CGA5L3X5R1V685K160AB	CGA5L3X5R1E685K160AB
υ.ομι	3210	1.00+0.00,-0.10	±20%	CGA5L3X5R1H685M160AB	CGA5L3X5R1V685M160AB	CGA5L3X5R1E685M160AB
10	3216	1 60 . 0 20 . 0 10	±10%	CGA5L3X5R1H106K160AB	CGA5L3X5R1V106K160AB	CGA5L3X5R1E106K160AB
10μF	3210	1.60+0.30,-0.10	±20%	CGA5L3X5R1H106M160AB	CGA5L3X5R1V106M160AB	CGA5L3X5R1E106M160AB

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



Topic	Canacitance	Dimensions	Thickness	Capacitance	Catalog number		
1005	Сараспапсе	Dimensions	(mm)	tolerance	Rated voltage Edc: 16V	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V
1005	33nF	1005	0.50±0.05	±10%	CGA2B2X5R1C333K050BA		
4	33111	1005	0.50±0.05	±20%	CGA2B2X5R1C333M050BA		
688F	47nF	1005	0.50+0.05	±10%			
100		1005	0.50±0.05	±20%	CGA2B2X5R1C473M050BA		
100n	68nF	1005	0.50+0.05				
100F 1005		1005	0.50±0.05	±20%	CGA2B2X5R1C683M050BA		
150nF 1005	100nF	1005	0.50+0.05				
1005			0.0020.00				
2005	150nF	1005	0.50+0.05				
20016 1608							
2006 1608 0.80±0.10 20% CGASEXSFITACZAMOSOBE CGASEXSFITAZAMOSOBE CGASEXSFITAZAMOSOBE CGASEXSFITAZAMOSOBE CGASEXSFITAZAMOSOBE CGASEXSFITAZAMOSOBE CGASEXSFITAZAMOSOA 20% CGASEXSFITAZAMOSOA CGA		1005	0.50±0.05				
1608	220nF					CGA2B3X5R1A224M050BB	
330nF 1608		1608	0.80+0.10				
1608							
470nF 1608	330nF	1608	0.80±0.10				
1608 1608							
1608	470nF	1608	0.80±0.10				
1608							
1008		1608	0.80±0.10				
1608	680nF					CGA3E2X5R1A684M080AA	
1608		2012	1.25±0.20				
1µF 1608 0.80±0.10 ±20% CGA3E1XSR1C105M080AC CGA3E2XSR1A105M080AA 2012 1.25±0.20 ±20% CGA4J2XSR1C105K125AA 1608 0.80±0.10 ±10% CGA3E1XSR1C155K080AC CGA3E3XSR1A155K080AB 1.5µF 2012 1.25±0.20 ±10% CGA4J2XSR1C155K080AC CGA3E3XSR1A155K080AB 1608 0.80±0.10 ±20% CGA4J2XSR1C155K125AA CGA4J2XSR1A15SK125AA 2012 1.25±0.20 ±20% CGA4J2XSR1C15SK125AA CGA4J2XSR1A15SK125AA 2012 1.25±0.20 ±10% CGA4J2XSR1C225K080AC CGA3E3XSR1A225K080AB 2012 1.25±0.20 ±10% CGA4J2XSR1C225K080AC CGA3E3XSR1A225K080AB 2012 1.25±0.20 ±10% CGA4J2XSR1C225K125AA CGA4J2XSR1A225K125AA 2012 1.25±0.20 ±20% CGA4J2XSR1C225K125AA CGA4J2XSR1A225K125AA 2012 1.25±0.20 ±10% CGA4J3XSR1C325K125AB CGA4J2XSR1A33SK080AC CGA3E3XSR0J33SK080AB 2012 1.25±0.20 ±10% CGA4J3XSR1C335K125AB CGA4J2XSR1A33SK080AC CGA3E3XSR0J33SK080AB 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C335K125AB CGA4J2XSR1A33SK125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C475K125AB CGA4J2XSR1A33SK125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C475K125AB CGA4J2XSR1A475K125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C475K160AA ±20% CGA4J3XSR1C475K160AA ±20% CGA4J3XSR1A685K125AC CGA4J3XSR1A685K125AB 4.60+0.30,-0.10 ±20% CGA4J3XSR1C685K125AC CGA4J3XSR1A106K125AB 4.60+0.30,-0.10 ±20% CGA4J3XSR1C106K160AC 4.20% CGA4J3XSR1C106K160AC 4.20% CGA4J3XSR1C106K160AC							
1.5μF 2012 1.25±0.20 ±10% CGA4J2XSR1C105K125AA ±20% CGA4J2XSR1C105M125AA 1.5μF 1.5μF 1.5μF 2012 1.25±0.20 ±10% CGA3E1XSR1C155M080AC CGA3E3XSR1A155K080AB ±10% CGA3E1XSR1C155M080AC CGA3E3XSR1A155K080AB ±10% CGA3E1XSR1C155K125AA CGA4J2XSR1A155M125AA ±10% CGA4J2XSR1C155M125AA CGA4J2XSR1A155M125AA 2.2μF 1608 0.80±0.10 ±10% CGA3E1XSR1C25M080AC CGA3E3XSR1A15SM125AA ±20% CGA3E1XSR1C225M080AC CGA3E3XSR1A225M080AB ±20% CGA3E1XSR1C225M080AC CGA3E3XSR1A225M080AB ±20% CGA3E1XSR1C225M080AC CGA3E3XSR1A225M080AB 2.2μF 1608 0.80±0.10 ±10% CGA4J2XSR1C225M125AA CGA4J2XSR1A225M125AA CGA3E3XSR03E3M080AC CGA3E3XSR0J335M080AB 2012 1.25±0.20 ±10% CGA4J3XSR1C35M125AB CGA4J2XSR1A335K080AC CGA3E3XSR0J335M080AB 2012 1.25±0.20 ±10% CGA4J3XSR1C335K125AB CGA4J2XSR1A335M080AC CGA3E3XSR0J335M080AB 4.7μF 2012 1.25±0.20 ±10% CGA4J3XSR1C335M125AB CGA4J2XSR1A335M125AA CGA3E1XSR0J475K080AC CGA3E1XSR0J475M080AC CGA3E3XSR0J475M080AC CGA4J3XSR1C475M125AA CGA4J2XSR1A475M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A455M125AA CGA4J2XSR1A4			0.80±0.10				
1.5μF 1.25±0.20 ±10% CGAAJZXSR1COSM12SAA CGA3E3XSR1A155K080AB	1µF					CGA3E2X5R1A105M080AA	
1.5µF 1608 0.80±0.10 ±10% CGA3E1XSR1C155K080AC CGA3E3XSR1A155K080AB 2012 1.25±0.20 ±10% CGA3E1XSR1C155M080AC CGA3E3XSR1A155K080AB 2012 1.25±0.20 ±10% CGA4J2XSR1C155M125AA CGA4J2XSR1A155K125AA 22µF 1608 0.80±0.10 ±10% CGA3E1XSR1C225K080AC CGA3E3XSR1A225K080AB 2.2µF 2012 1.25±0.20 ±10% CGA3E1XSR1C225M080AC CGA3E3XSR1A225K080AB 3.3µF 1608 0.80±0.10 ±10% CGA4J2XSR1C225M125AA CGA4J2XSR1A225M080AC 4.2µF 1608 0.80±0.10 ±10% CGA4J2XSR1C225M125AA CGA3E1XSR1A33SK080AC 2012 1.25±0.20 ±10% CGA4J2XSR1C225M125AA CGA3E1XSR1A33SK080AC CGA3E3XSR0J33SK080AB 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C33SK125AB CGA4J2XSR1A33SK125AA CGA3E1XSR0J475K080AC 4.7µF 2012 1.25±0.20 ±10% CGA4J3XSR1C475K125AB CGA4J2XSR1A475K125AA CGA3E1XSR0J475K080AC 4.7µF 2012 1.25±0.20 ±10%		1.25±0.20					
1.5μF 1.608						00405075044455700040	
1.5 μ 2012 1.25 ± 0.20		1608	0.80±0.10				
2012 1.25±0.20 ±20% CGA4J2X5R1C155M125AA CGA4J2X5R1A155M125AA 1608	1.5µF						
2.2µF 1608 0.80±0.10 ±10% CGA3E1X5R1C225K080AC CGA3E3X5R1A225K080AB 2012 1.25±0.20 ±10% CGA4J2X5R1C225M080AC CGA4J2X5R1A225M080AB 2012 1.25±0.20 ±10% CGA4J2X5R1C225K125AA CGA4J2X5R1A225M125AA 3.3µF 1608 0.80±0.10 ±10% CGA4J2X5R1C225M125AA CGA3E1X5R1A335K080AC CGA3E3X5R0J335K080AB 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335M080AC CGA3E3X5R0J335M080AB 4.7µF 1608 0.80±0.10 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335M125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7µF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475M125AA 4.7µF 2012 1.25±0.20 ±10% CGA5L2X5R1C475M160AA CGA4J3X5R1A685K125AC 4.8µF 2012 1.25±0.20 ±10% CGA4J3X5R1C685M160AA		2012	1.25±0.20				
2.2μF 2.2μF 2012 1.25±0.20							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1608	0.80±0.10				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.2µF						
$ 3.3 \mu F $		2012	1.25±0.20				
3.3μF 1608 0.80±0.10 ±20% CGA3E1X5R1A335M080AC CGA3E3X5R0J335M080AB 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335K125AA 4.7μF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7μF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.60+0.30,-0.10 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.60+0.30,-0.10 ±10% CGA5L2X5R1C475K160AA ±20% CGA4J3X5R1C475K160AA ±20% CGA4J1X5R1C685K125AC CGA4J3X5R1A685K125AB 6.8μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685K160AA ±20% CGA4J1X5R1C685M160AA ±10% CGA5L2X5R1C475M160AA ±10% CGA5L2X5R1C475M160AA ±20% CGA4J1X5R1C685M160AA ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC					CGA4JZX3HTCZZ3WTZ3AA		CCASESVEDS ISSEKSSSAD
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1608	0.80±0.10				
1608 1.25±0.20 ±20% CGA4J3X5R1C335M125AB CGA4J2X5R1A335M125AA 1608 0.80±0.10 ±20% CGA3E1X5R0J475K080AC ±20% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA ±10% CGA4J3X5R1C475M125AB CGA4J2X5R1A475M125AA ±10% CGA4J3X5R1C475M125AB CGA4J2X5R1A475M125AA ±10% CGA5L2X5R1C475K160AA ±20% CGA5L2X5R1C475M160AA ±20% CGA4J1X5R1C685K125AC CGA4J3X5R1A685K125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C685M125AC CGA4J3X5R1A685M125AB ±10% CGA5L2X5R1C685M160AA ±20% CGA5L2X5R1C685M160AA ±20% CGA4J1X5R1C685M160AA ±20% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 10µF 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106M125AB ±10% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106K125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M160AC ±20% CGA5L1X5R1C106M160AC ±20% CGA5L1X5R1C106M160AC ±20% CGA5L1X5R1C106M160AC ±20% CGA5L1X5R1C106M160AC ±20% CGA5L1X5R1C156M160AC ±20% CGA5L1X5R1C1	3.3µF				CGA4 13Y5D1C335K135AB		CGASESASHUJSSSINIUOUAB
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2012	1.25±0.20				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					OGA-00X3TTO003WT23AB	OGA-02X3TTA003WT23AA	CGA3E1X5R0.I475K080AC
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1608	0.80±0.10				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					CGA4.I3X5B1C475K125AB	CGA4.I2X5B1A475K125AA	Cariot 170110047 ONIOCO/10
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4.7µF	2012	1.25±0.20				
1.25±0.20 ±10% CGA5L2X5R1C475M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C685K125AC CGA4J3X5R1A685K125AB 2012 1.25±0.20 ±20% CGA4J1X5R1C685M125AC CGA4J3X5R1A685M125AB 2012 1.60+0.30,-0.10 ±10% CGA5L2X5R1C685K160AA ±20% CGA5L2X5R1C685M160AA ±20% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106K160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC				+10%		0 0,1102,1011,171,17011,120,171	
6.8µF 2012 1.25±0.20 ±10% CGA4J1X5R1C685K125AC CGA4J3X5R1A685K125AB 10µF 3216 1.60+0.30,-0.10 ±10% CGA5L2X5R1C685K160AA 10µF 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 10µF 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 10µF 3216 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106K160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC		3216	1.60+0.30,-0.10				
6.8μF	6.8µF					CGA4.I3X5B1A685K125AB	
6.8μF 3216 1.60+0.30,-0.10 ±10% CGA5L2X5R1C685K160AA ±20% CGA5L2X5R1C685M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 3216 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106K160AC ±20% CGA5L1X5R1C106M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC		2012	1.25±0.20				
3216 1.60+0.30,-0.10 ±20% CGA5L2X5R1C685M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 3216 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106K160AC ±20% CGA5L1X5R1C106M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC				+10%			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3216	1.60+0.30,-0.10				
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10µF 3216 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106K160AC ±20% CGA5L1X5R1C106M160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC		2012	1.25±0.20				
15µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC	10μF			+10%			
15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC		3216	1.60+0.30,-0.10				
	15µF	3216	1.60+0.30,-0.10				
		3216	1.60+0.30,-0.10	±20%	CGA5L1X5R1C226M160AC		

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



Capacitance	Dimensions	Thickness	Capacitance	Catalog number		
σαρασπαίτου	Billionolono	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
100pF	0603	0.30±0.03	±10%	CGA1A2X7R1H101K030BA		CGA1A2X7R1E101K030BA
			±20%	CGA1A2X7R1H101M030BA		CGA1A2X7R1E101M030BA
150pF	0603	0.30±0.03	±10%	CGA1A2X7R1H151K030BA		CGA1A2X7R1E151K030BA
			±20%	CGA1A2X7R1H151M030BA		CGA1A2X7R1E151M030BA
	0603	0.30±0.03	±10%	CGA1A2X7R1H221K030BA		CGA1A2X7R1E221K030BA
220pF			±20% ±10%	CGA1A2X7R1H221M030BA CGA2B2X7R1H221K050BA		CGA1A2X7R1E221M030BA
	1005	0.50±0.05	±10%	CGA2B2X7R1H221M050BA		
			±10%	CGA1A2X7R1H331K030BA		CGA1A2X7R1E331K030BA
	0603	0.30±0.03	±20%	CGA1A2X7R1H331M030BA		CGA1A2X7R1E331M030BA
330pF			±10%	CGA2B2X7R1H331K050BA		
	1005	0.50±0.05	±20%	CGA2B2X7R1H331M050BA		
	0000	0.00.000	±10%	CGA1A2X7R1H471K030BA		CGA1A2X7R1E471K030BA
470nE	0603	0.30±0.03	±20%	CGA1A2X7R1H471M030BA		CGA1A2X7R1E471M030BA
470pF	1005	0.50±0.05	±10%	CGA2B2X7R1H471K050BA		
	1005	0.50±0.05	±20%	CGA2B2X7R1H471M050BA		
	0603	0.30±0.03	±10%			CGA1A2X7R1E681K030BA
680pF		0.00±0.00	±20%			CGA1A2X7R1E681M030BA
осор.	1005	0.50±0.05	±10%	CGA2B2X7R1H681K050BA		
			±20%	CGA2B2X7R1H681M050BA		
	0603	0.30±0.03	±10%			CGA1A2X7R1E102K030BA
			±20%	004000/7041400/05004		CGA1A2X7R1E102M030BA
1nF	1005	0.50±0.05	±10%	CGA2B2X7R1H102K050BA		
			±20%	CGA2B2X7R1H102M050BA		
	1608	0.80±0.10	±10%	CGA3E2X7R1H102K080AA		
			±20% ±10%	CGA3E2X7R1H102M080AA		CGA1A2X7R1E152K030BA
	0603	0.30±0.03	±20%			CGA1A2X7R1E152M030BA
			±10%	CGA2B2X7R1H152K050BA		OGATAZXITTE 13ZINIOOODA
1.5nF	1005	0.50±0.05	±20%	CGA2B2X7R1H152M050BA		
-			±10%	CGA3E2X7R1H152K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H152M080AA		
	2000		±10%			CGA1A2X7R1E222K030BA
	0603	0.30±0.03	±20%			CGA1A2X7R1E222M030BA
2.2nF	1005	0.50±0.05	±10%	CGA2B2X7R1H222K050BA		
2.211	1005	0.50±0.05	±20%	CGA2B2X7R1H222M050BA		
	1608	0.80±0.10	±10%	CGA3E2X7R1H222K080AA		
	1000	0.00±0.10	±20%	CGA3E2X7R1H222M080AA		
	0603	0.30±0.03	±10%			CGA1A2X7R1E332K030BA
,			±20%			CGA1A2X7R1E332M030BA
3.3nF	1005	0.50±0.05	±10%	CGA2B2X7R1H332K050BA		
			±20%	CGA2B2X7R1H332M050BA		
	1608	0.80±0.10	±10%	CGA3E2X7R1H332K080AA		
			±20%	CGA3E2X7R1H332M080AA		
	1005	0.50±0.05	±10%	CGA2B2X7R1H472K050BA		
4.7nF			±20%	CGA2B2X7R1H472M050BA		
	1608	0.80±0.10	±10% ±20%	CGA3E2X7R1H472K080AA CGA3E2X7R1H472M080AA		
			±20%	CGA2B2X7R1H682K050BA		
	1005	0.50±0.05	±20%	CGA2B2X7R1H682M050BA		
6.8nF			±10%	CGA3E2X7R1H682K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H682M080AA		
			±10%	CGA2B3X7R1H103K050BB	CGA2B3X7R1V103K050BB	CGA2B2X7R1E103K050BA
	1005	0.50±0.05	±20%	CGA2B3X7R1H103M050BB	CGA2B3X7R1V103M050BB	CGA2B2X7R1E103M050BA
10nF	4000	0.00 5 :-	±10%	CGA3E2X7R1H103K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H103M080AA		
	1005	0.50.005	±10%	CGA2B3X7R1H153K050BB	CGA2B3X7R1V153K050BB	CGA2B2X7R1E153K050BA
1EpF	1005	0.50±0.05	±20%	CGA2B3X7R1H153M050BB	CGA2B3X7R1V153M050BB	CGA2B2X7R1E153M050BA
15nF	1600	0.00.0.10	±10%	CGA3E2X7R1H153K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H153M080AA		
	1005	0.50.005	±10%	CGA2B3X7R1H223K050BB	CGA2B3X7R1V223K050BB	CGA2B2X7R1E223K050BA
22nF	1005	0.50±0.05	±20%	CGA2B3X7R1H223M050BB	CGA2B3X7R1V223M050BB	CGA2B2X7R1E223M050BA
441II	1608	0.80±0.10	±10%	CGA3E2X7R1H223K080AA		
	1000	0.00±0.10	±20%	CGA3E2X7R1H223M080AA		



Capacitance	Dimensions	Thickness	Capacitance	Catalog number		
- Capacitario	2	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
	1005	0.50±0.05	±10%	CGA2B3X7R1H333K050BB	CGA2B3X7R1V333K050BB	CGA2B1X7R1E333K050BC
33nF			±20%	CGA2B3X7R1H333M050BB	CGA2B3X7R1V333M050BB	CGA2B1X7R1E333M050BC
	1608	0.80±0.10	±10%	CGA3E2X7R1H333K080AA CGA3E2X7R1H333M080AA		
			±10%	CGA2B3X7R1H473K050BB	CGA2B3X7R1V473K050BB	CGA2B1X7R1E473K050BC
	1005	0.50±0.05	±20%	CGA2B3X7R1H473M050BB	CGA2B3X7R1V473M050BB	CGA2B1X7R1E473M050BC
47nF	1000	0.00.0.10	±10%	CGA3E2X7R1H473K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H473M080AA		
	1005	0.50±0.05	±10%	CGA2B3X7R1H683K050BB	CGA2B3X7R1V683K050BB	CGA2B3X7R1E683K050BB
68nF			±20%	CGA2B3X7R1H683M050BB	CGA2B3X7R1V683M050BB	CGA2B3X7R1E683M050BB
	1608	0.80±0.10	±10%	CGA3E2X7R1H683K080AA		
-			±20% ±10%	CGA3E2X7R1H683M080AA CGA2B3X7R1H104K050BB	CGA2B3X7R1V104K050BB	CGA2B3X7R1E104K050BB
	1005	0.50±0.05	±10%	CGA2B3X7R1H104R050BB	CGA2B3X7R1V104R050BB	CGA2B3X7R1E104R050BB
100nF			±10%	CGA3E2X7R1H104K080AA	CG/LEBOX/TTTVTO-INICOODE	CGA3E2X7R1E104K080AA
	1608	0.80±0.10	±20%	CGA3E2X7R1H104M080AA		CGA3E2X7R1E104M080AA
	2012	1.25±0.20	±10%	CGA4J2X7R1H104K125AA		
	1005	0.50±0.05	±10%		CGA2B1X7R1V154K050BC	CGA2B3X7R1E154K050BB
	1005	0.30±0.03	±20%		CGA2B1X7R1V154M050BC	CGA2B3X7R1E154M050BB
150nF	1608	0.80±0.10	±10%	CGA3E3X7R1H154K080AB	CGA3E3X7R1V154K080AB	CGA3E2X7R1E154K080AA
			±20%	CGA410X7P11154M080AB	CGA3E3X7R1V154M080AB	CGA3E2X7R1E154M080AA
	2012	1.25±0.20	±10% ±20%	CGA4J2X7R1H154K125AA CGA4J2X7R1H154M125AA		
-			±10%	CUA402X/TITTT54WT25AA	CGA2B1X7R1V224K050BC	CGA2B3X7R1E224K050BB
	1005	0.50±0.05	±20%		CGA2B1X7R1V224M050BC	CGA2B3X7R1E224M050BB
	1000	2.22.2.12	±10%	CGA3E3X7R1H224K080AB	CGA3E3X7R1V224K080AB	CGA3E1X7R1E224K080AC
220nF	1608	0.80±0.10	±20%	CGA3E3X7R1H224M080AB	CGA3E3X7R1V224M080AB	CGA3E1X7R1E224M080AC
	2012	1.25±0.20	±10%	CGA4J2X7R1H224K125AA		CGA4J2X7R1E224K125AA
	2012	1.23±0.20	±20%	CGA4J2X7R1H224M125AA		
	1608	0.80±0.10	±10%	CGA3E3X7R1H334K080AB	CGA3E1X7R1V334K080AC	CGA3E3X7R1E334K080AB
330nF			±20%	CGA410X7P111024K105AA	CGA3E1X7R1V334M080AC	CGA3E3X7R1E334M080AB
	2012	1.25±0.20	±10% ±20%	CGA4J2X7R1H334K125AA CGA4J2X7R1H334M125AA		
-			±20%	CGA3E3X7R1H474K080AB	CGA3E1X7R1V474K080AC	CGA3E3X7R1E474K080AB
	1608	0.80±0.10	±20%	CGA3E3X7R1H474M080AB	CGA3E1X7R1V474M080AC	CGA3E3X7R1E474M080AB
470 5	2012	1.25±0.20 1.60+0.30,-0.10	±10%	CGA4J3X7R1H474K125AB	CGA4J3X7R1V474K125AB	CGA4J2X7R1E474K125AA
470nF			±20%	CGA4J3X7R1H474M125AB	CGA4J3X7R1V474M125AB	CGA4J2X7R1E474M125AA
	3216		±10%	CGA5L2X7R1H474K160AA		
	02.10		±20%	CGA5L2X7R1H474M160AA		
	1608	0.80±0.10	±10%		CGA3E1X7R1V684K080AC	CGA3E1X7R1E684K080AC
			±20% ±10%	CGA4J3X7R1H684K125AB	CGA3E1X7R1V684M080AC CGA4J3X7R1V684K125AB	CGA3E1X7R1E684M080AC CGA4J3X7R1E684K125AB
680nF	2012	1.25±0.20	±10%	CGA4J3X7R1H684M125AB	CGA4J3X7R1V684M125AB	CGA4J3X7R1E684M125AB
			+10%	CGA5L2X7R1H684K160AA	OGA-00X/TTTV00-IWITZ5AD	OGA-00X/TTTE00-WITZ5AB
	3216	1.60+0.30,-0.10	±20%	CGA5L2X7R1H684M160AA		
	1000	0.00.040	±10%		CGA3E1X7R1V105K080AC	CGA3E1X7R1E105K080AC
	1608	0.80±0.10	±20%		CGA3E1X7R1V105M080AC	CGA3E1X7R1E105M080AC
	2012	1.25±0.20	±10%	CGA4J3X7R1H105K125AB	CGA4J3X7R1V105K125AB	CGA4J3X7R1E105K125AB
1µF			±20%	CGA4J3X7R1H105M125AB	CGA4J3X7R1V105M125AB	CGA4J3X7R1E105M125AB
	3216	1.60+0.30,-0.10	±10%	CGA5L3X7R1H105K160AB		CGA5L2X7R1E105K160AA
			±20% ±10%	CGA5L3X7R1H105M160AB CGA6L2X7R1H105K160AA		CGA5L2X7R1E105M160AA
	3225	1.60±0.20	±10%	CGA6L2X7R1H105M160AA		
·-			±10%	CGA4J3X7R1H155K125AB	CGA4J1X7R1V155K125AC	CGA4J3X7R1E155K125AB
	2012	1.25±0.20	±20%	CGA4J3X7R1H155M125AB	CGA4J1X7R1V155M125AC	CGA4J3X7R1E155M125AB
	3216	1.60+0.30,-0.10	+10%	CGA5L3X7R1H155K160AB	CGA5L3X7R1V155K160AB	CGA5L2X7R1E155K160AA
1.5µF			±20%	CGA5L3X7R1H155M160AB	CGA5L3X7R1V155M160AB	CGA5L2X7R1E155M160AA
	3225	2.00±0.20	±10%	CGA6M2X7R1H155K200AA		
			±20%	CGA6M2X7R1H155M200AA		
	4532	1.60±0.20	±10%	CGA412X7R1H155K160KA	CGA4J1X7R1V225K125AC	CGA4J3X7R1E225K125AB
	2012	1.25±0.20	±10% ±20%	CGA4J3X7R1H225K125AB CGA4J3X7R1H225M125AB	CGA4J1X7R1V225K125AC CGA4J1X7R1V225M125AC	CGA4J3X7R1E225K125AB CGA4J3X7R1E225M125AB
			+10%	CGA5L3X7R1H225K160AB	CGA5L3X7R1V225W125AC	CGA5L2X7R1E225K160AA
2.2µF		1.60+0.30,-0.10	±20%	CGA5L3X7R1H225M160AB	CGA5L3X7R1V225M160AB	CGA5L2X7R1E225M160AA
•	0005		±10%	CGA6M3X7R1H225K200AB		
	3225	2.00±0.20	±20%	CGA6M3X7R1H225M200AB		
	4532	1.60±0.20	±10%	CGA8L2X7R1H225K160KA		

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



0	Dimensione	Thickness	Capacitance	Catalog number		
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
	2012	1.05 . 0.00	±10%		CGA4J1X7R1V335K125AC	CGA4J1X7R1E335K125AC
	2012	1.25±0.20	±20%		CGA4J1X7R1V335M125AC	CGA4J1X7R1E335M125AC
	0040	1.00.0.00.0.10	±10%	CGA5L3X7R1H335K160AB	CGA5L1X7R1V335K160AC	CGA5L1X7R1E335K160AC
3.3µF	3216	1.60+0.30,-0.10	±20%	CGA5L3X7R1H335M160AB	CGA5L1X7R1V335M160AC	CGA5L1X7R1E335M160AC
	2005	0.50.0.00	±10%	CGA6P3X7R1H335K250AB		
3.3µF 4.7µF 6.8µF	3225	2.50±0.30	±20%	CGA6P3X7R1H335M250AB		
	4532	2.00±0.20	±10%	CGA8M2X7R1H335K200KA		
	0040	4.05.0.00	±10%		CGA4J1X7R1V475K125AC	CGA4J1X7R1E475K125AC
	2012	1.25±0.20	±20%		CGA4J1X7R1V475M125AC	CGA4J1X7R1E475M125AC
	0040	1.00.0.00.0.10	±10%	CGA5L3X7R1H475K160AB	CGA5L1X7R1V475K160AC	CGA5L1X7R1E475K160AC
	3216	1.60+0.30,-0.10	±20%	CGA5L3X7R1H475M160AB	CGA5L1X7R1V475M160AC	CGA5L1X7R1E475M160AC
	3225	2.50±0.30	±10%	CGA6P3X7R1H475K250AB		
4.7μ⊦			±20%	CGA6P3X7R1H475M250AB		
	4532	1.60±0.20	±10%			CGA8L2X7R1E475K160KA
			±20%			CGA8L2X7R1E475M160KA
		2.00±0.20	±10%	CGA8M3X7R1H475K200KB		
	5750	2.00±0.20	±10%	CGA9M2X7R1H475K200KA		
	3216	1.60+0.30,-0.10	±10%		CGA5L1X7R1V685K160AC	CGA5L1X7R1E685K160AC
			±20%		CGA5L1X7R1V685M160AC	CGA5L1X7R1E685M160AC
6.8µF	2005	2.50±0.30	±10%			CGA6P3X7R1E685K250AB
	3225		±20%			CGA6P3X7R1E685M250AB
	4532	2.50±0.30	±10%	CGA8P3X7R1H685K250KB		
	5750	#10%				
	0040	1.00.0.00.0.10	±10%		CGA5L1X7R1V106K160AC	CGA5L1X7R1E106K160AC
	3216	1.60+0.30,-0.10	±20%		CGA5L1X7R1V106M160AC	CGA5L1X7R1E106M160AC
	2225	0.50.000	±10%			CGA6P1X7R1E106K250AC
10μF	3225	Table Tabl		CGA6P1X7R1E106M250AC		
	4532	2.50±0.30	±10%			CGA8P2X7R1E106K250KA
	5750	2.00±0.20	±20%			CGA9M2X7R1E106M200KA
	5750	2.30±0.20	±10%	CGA9N3X7R1H106K230KB		
	3225	2.00±0.20	±20%			CGA6M3X7R1E156M200AB
15µF	4532	2.80±0.30	±20%			CGA8Q3X7R1E156M280KB
	4532 2.80±0.30 ±20% CGA8Q3X7F	CGA9N2X7R1E156M230KA				
	4532	2.50±0.30	±20%			CGA8P1X7R1E226M250KC
22µF	5750	2.50±0.30	±20%			CGA9P2X7R1E226M250KA
47μF	5750	2.30±0.20	±20%			CGA9N3X7R1E476M230KB

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



Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 16V	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	
100pF	0603	0.30±0.03	±10% ±20%	CGA1A2X7R1C101K030BA CGA1A2X7R1C101M030BA			
			±10%	CGA1A2X7R1C151K030BA			
150pF	0603	0.30±0.03	±20%	CGA1A2X7R1C151M030BA			
-			±10%	CGA1A2X7R1C221K030BA			
220pF	0603	0.30±0.03	±20%	CGA1A2X7R1C221M030BA			
			±10%	CGA1A2X7R1C331K030BA			
330pF	0603	0.30±0.03	±20%	CGA1A2X7R1C331M030BA			
			±10%	CGA1A2X7R1C471K030BA			
470pF	0603	0.30±0.03	±20%	CGA1A2X7R1C471M030BA			
			±10%	CGA1A2X7R1C681K030BA			
680pF	0603	0.30±0.03	±20%	CGA1A2X7R1C681M030BA			
4	0000	0.00.000	±10%	CGA1A2X7R1C102K030BA			
1nF	0603	0.30±0.03	±20%	CGA1A2X7R1C102M030BA			
1.5=5	0000	0.00.000	±10%	CGA1A2X7R1C152K030BA			
1.5nF	0603	0.30±0.03	±20%	CGA1A2X7R1C152M030BA			
2.2nF	0603	0.30±0.03	±10%	CGA1A2X7R1C222K030BA			
2.211F	0003	0.30±0.03	±20%	CGA1A2X7R1C222M030BA			
2 2nE	0603	0.20.0.02	±10%	CGA1A2X7R1C332K030BA			
3.3nF	0603	0.30±0.03	±20%	CGA1A2X7R1C332M030BA			
4.7nF	0603	0.30±0.03	±10%	CGA1A2X7R1C472K030BA			
4.711	0003	0.30±0.03	±20%	CGA1A2X7R1C472M030BA			
6 9nE	0603	0.20.0.02	±10%	CGA1A2X7R1C682K030BA			
6.8nF	0003	0.30±0.03	±20%	CGA1A2X7R1C682M030BA			
10nF	0603	0.30±0.03	±10%		CGA1A2X7R1A103K030BA	CGA1A2X7R0J103K030BA	
	0003	0.30±0.03	±20%		CGA1A2X7R1A103M030BA	CGA1A2X7R0J103M030BA	
33nF	1005	0.50±0.05	±10%	CGA2B2X7R1C333K050BA			
33115	1005	0.50±0.05	±20%	CGA2B2X7R1C333M050BA			
47nF	1005	0.50±0.05 0.50±0.05	±10%	CGA2B2X7R1C473K050BA			
47111	1005		±20%	CGA2B2X7R1C473M050BA			
68nF	1005		±10%	CGA2B1X7R1C683K050BC			
	1000		±20%	CGA2B1X7R1C683M050BC			
100nF	1005	0.50±0.05	±10%	CGA2B1X7R1C104K050BC			
	1005	0.0010.00	±20%	CGA2B1X7R1C104M050BC			
150nF	1005	0.50±0.05	±10%	CGA2B2X7R1C154K050BA	CGA2B1X7R1A154K050BC	CGA2B3X7R0J154K050BB	
			±20%	CGA2B2X7R1C154M050BA	CGA2B1X7R1A154M050BC	CGA2B3X7R0J154M050BB	
	1005	0.50±0.05	±10%	CGA2B2X7R1C224K050BA	CGA2B1X7R1A224K050BC	CGA2B3X7R0J224K050BB	
220nF			±20%	CGA2B2X7R1C224M050BA	CGA2B1X7R1A224M050BC	CGA2B3X7R0J224M050BB	
	1608	0.80±0.10	±10%	CGA3E2X7R1C224K080AA			
			±20%	CGA3E2X7R1C224M080AA			
330nF	1608	0.80±0.10	±10%	CGA3E1X7R1C334K080AC			
			±20%	CGA3E1X7R1C334M080AC			
470×F	1608	1608	0.80±0.10	±10%	CGA3E1X7R1C474K080AC		
470nF	0010	1.25±0.20	±20%	CGA3E1X7R1C474M080AC CGA4J2X7R1C474K125AA			
-	2012	1.25±0.20	±10%				
	1608	0.80±0.10	±10% ±20%	CGA3E1X7R1C684K080AC CGA3E1X7R1C684M080AC			
680nF			±10%	CGA4J2X7R1C684K125AA			
	2012	1.25±0.20	±20%	CGA4J2X7R1C684M125AA			
			±20%	CGA3E1X7R1C105K080AC			
	1608	0.80±0.10	±20%	CGA3E1X7R1C105M080AC			
1µF			±10%	CGA4J2X7R1C105K125AA			
	2012	1.25±0.20	±20%	CGA4J2X7R1C105M125AA			
-			±10%			CGA3E1X7R0J155K080AC	
	2012		±20%			CGA3E1X7R0J155M080AC	
1.5µF			±10%	CGA4J3X7R1C155K125AB			
			±20%	CGA4J3X7R1C155M125AB			
-	1608 2012 2012	0.80±0.10 1.25±0.20 1.25±0.20	±10%			CGA3E1X7R0J225K080AC	
0.5 =			±20%			CGA3E1X7R0J225M080AC	
2.2µF			±10%	CGA4J3X7R1C225K125AB			
			±20%	CGA4J3X7R1C225M125AB			
			±10%	CGA4J3X7R1C335K125AB	CGA4J3X7R1A335K125AB		
3.3µF			±20%	CGA4J3X7R1C335M125AB			
-	0010	1.05 .0.00	±10%	CGA4J3X7R1C475K125AB	CGA4J3X7R1A475K125AB		
4 7	2012	1.25±0.20	±20%	CGA4J3X7R1C475M125AB			
4.7µF	2016	1 60 10 20 0 10	±10%	CGA5L3X7R1C475K160AB			
	3216	1.60+0.30,-0.10	±20%	CGA5L3X7R1C475M160AB			

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



Capacitance	Dimensions	Thickness	Capacitance	Catalog number	
Сараспапсе	Dimensions	(mm)	tolerance	Rated voltage Edc: 16V	Rated voltage Edc: 6.3V
	2012	1.25+0.20	±10%		CGA4J1X7R0J685K125AC
6.8µF		1.25±0.20	±20%		CGA4J1X7R0J685M125AC
ο.ομι	0040	1.60+0.30,-0.10	±10%	CGA5L1X7R1C685K160AC	
	3216		±20%	CGA5L1X7R1C685M160AC	
	2012	1.25±0.20	±10%		CGA4J1X7R0J106K125AC
			±20%		CGA4J1X7R0J106M125AC
10μF	3216	1.60+0.30,-0.10	±10%	CGA5L1X7R1C106K160AC	
торі			±20%	CGA5L1X7R1C106M160AC	
	3225	2.00±0.20	±10%	CGA6M3X7R1C106K200AB	
			±20%	CGA6M3X7R1C106M200AB	
15µF	3225	2.50±0.30	±20%	CGA6P3X7R1C156M250AB	
	3216	1.60+0.30,-0.10	±20%		CGA5L1X7R0J226M160AC
22µF	3225	2.50±0.30	±20%	CGA6P1X7R1C226M250AC	
	4532	2.30±0.20	±20%	CGA8N3X7R1C226M230KB	
33µF	4532	2.50±0.30	±20%	CGA8P1X7R1C336M250KC	
47µF	5750	2.30±0.20	±20%	CGA9N3X7R1C476M230KB	

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



Consoitones	Dimensions	Thickness	Capacitance	Catalog number								
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 16V	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V					
220-5	1005	0.50.005	±10%		CGA2B1X7S1C334K050BC	CGA2B3X7S1A334K050BB						
330nF	330nF 1005	0.50±0.05	±20%		CGA2B1X7S1C334M050BC	CGA2B3X7S1A334M050BB						
470	470nF 1005	0.50.005	±10%		CGA2B1X7S1C474K050BC	CGA2B3X7S1A474K050BB						
470NF		0.50±0.05	±20%		CGA2B1X7S1C474M050BC	CGA2B3X7S1A474M050BB						
4.5	1608	0.80±0.10	±10%		CGA3E1X7S1C155K080AC	CGA3E3X7S1A155K080AB						
1.5µF	1608	0.80±0.10	±20%		CGA3E1X7S1C155M080AC	CGA3E3X7S1A155M080AB						
2 205	1608	0.80±0.10	±10%		CGA3E1X7S1C225K080AC	CGA3E3X7S1A225K080AB						
2.2µF	1000	0.60±0.10	±20%		CGA3E1X7S1C225M080AC	CGA3E3X7S1A225M080AB						
4.7µF	3225	2.30±0.20	±10%	CGA6N3X7S1H475K230AB								
	2012	1.25±0.20	±10%		CGA4J1X7S1C685K125AC	CGA4J3X7S1A685K125AB						
6.8µF			±20%		CGA4J1X7S1C685M125AC	CGA4J3X7S1A685M125AB						
о.оµг	3225	5 2.50±0.30	±10%	CGA6P3X7S1H685K250AB								
		2.50±0.50	±20%	CGA6P3X7S1H685M250AB								
	2012	1.25±0.20	±10%		CGA4J1X7S1C106K125AC	CGA4J3X7S1A106K125AB						
10μF		1.25±0.20	±20%		CGA4J1X7S1C106M125AC	CGA4J3X7S1A106M125AB						
τομε	3225 2.50±0.3	2 50 . 0 20	±10%	CGA6P3X7S1H106K250AB								
		3223	3223 2	3223	0220	0220	0220	2.50±0.50	±20%	CGA6P3X7S1H106M250AB		
15µF	3216	1.60+0.30,-0.10	±20%			CGA5L1X7S1A156M160AC						
22µF	3216	1.60+0.30,-0.10	±20%	·	·	CGA5L1X7S1A226M160AC	·					
33µF	3225	2.50±0.30	±20%				CGA6P1X7S0J336M250AC					
47µF	3225	2.50±0.30	±20%				CGA6P1X7S0J476M250AC					

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