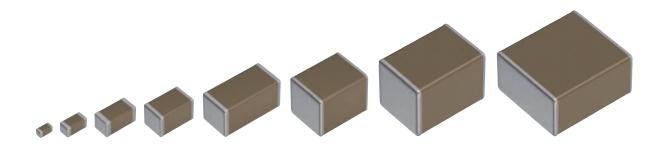


MULTILAYER CERAMIC CHIP CAPACITORS

Automotive grade, general (Up to 75V)

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 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.

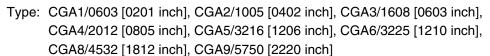
(Example)

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



CGA series

General (Up to 75V)











SERIES OVERVIEW

General type CGA series, automotive grade of TDK's multilayer ceramic chip capacitor, 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 47μ F and the line-up has been expanding to the region of the film capacitor or electrolytic capacitor.

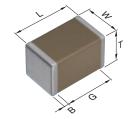
FEATURES

- 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

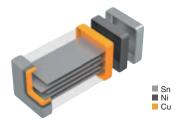
- Automotive electronic equipment (Engine control units, Sensor modules and Battery line smoothing)
- LC resonance circuit (C0G).
- · Applications requiring higher reliability

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

Type	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	5	L	1	X7T	0G	476	M	160	Α	С
(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
M	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
X7T	+22,-33%	-55 to +125°C

(6) Rated voltage (DC)

Code	Voltage (DC)
Code	O ()
0G	4V
0J	6.3V
1A	10V
1C	16V
1E	25V
1V	35V
1H	50V
1N	75V

(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

$$101 = 100$$
pF
 $225 = 2,200,000$ pF = 2.2 µF

(8) Capacitance tolerance

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

(9) Thickness

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	

Mease 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.



CGA1/0603 [0201 inch]

Capacitar	ice	C	OG			X7R			X7
(pF)	Code	1H (50V)	1E (25V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V
1	010	(001)		(001)	(===)	(101)	(101)	(0101)	(
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	-	-						
100 150	101 151			-	-	-			
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								
100,000	103								

Standard thickness 0.30mm

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.



CGA2/1005 [0402 inch]

Capacita	ance	C0G			X5R					X	7R			X7	7S	X7T
(pF)	Code	1H (50V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	1H (50V)	1V (35V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	1C (16V)	1A (10V)	0G (4V)
1	010	(661)	(001)	(001)	(=01)	()	(101)	(331)	(551)	(=31)	()	(101)	(0.01)	(:0:)	()	()
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															
150,000	154															
220,000	224															
330,000	334															
470,000	474															
1,000,000	105															
Standard th			0.5	-0	l	1	1			1	l		1			

Standard thickness 0.50mm

Background gray: These products are not recommended for new designs.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

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.



CGA3/1608 [0603 inch]

(pF) Code (50V) (50V)	Capacitar	nce	COG	X5R	X7R
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 10 100 112 120 15 150 18 180 22 220 27 270 33 330 39 390 47 470 566 560 68 680 88 282 1000 101 120 121 150 151 180 181 220 221 270 271 330 331 390 391 477 470 566 560 68 680 882 820 100 101 120 121 150 151 180 181 220 221 270 271 330 331 390 391 477 470 566 561 680 681 8820 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 8,200 622 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			1H	1H	1H
1.5			(50V)	(50V)	(50V)
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 10 100 112 120 115 150 18 180 22 220 27 270 33 330 39 390 47 470 56 560 68 680 82 820 100 101 120 121 150 151 180 181 220 221 277 270 271 333 331 339 390 47 470 56 560 68 680 82 820 100 101 120 121 150 151 180 181 220 221 277 270 271 333 331 339 391 470 471 560 561 680 681 820 821 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 8,200 822 11,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
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220 221 270 271 330 331 390 391 470 471 560 561 680 681 820 821 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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	150	151			
270 271 330 331 390 391 470 471 560 561 680 681 820 821 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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	180	181			
330 331 390 391 470 471 560 561 680 681 820 821 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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	220	221			
390 391 470 471 560 561 680 681 820 821 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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	270	271			
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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	330	331			
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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	390	391			
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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683	470				
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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683					
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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 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
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3,300 332 3,900 392 4,700 472 5,600 562 6,800 682 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683					
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4,700 472 5,600 562 6,800 682 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
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6,800 682 8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
8,200 822 10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
10,000 103 15,000 153 22,000 223 33,000 333 47,000 473 68,000 683			-		
15,000 153 22,000 223 33,000 333 47,000 473 68,000 683					
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Cton doud this language	68,000	683			
Standard Inickness III (1 XUMM	Standard thickne	ess).80mm	

Background gray: These products are not recommended for new designs.

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

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.

MULTILAYER CERAMIC CHIP CAPACITORS



Capacitance range chart

CGA3/1608 [0603 inch]



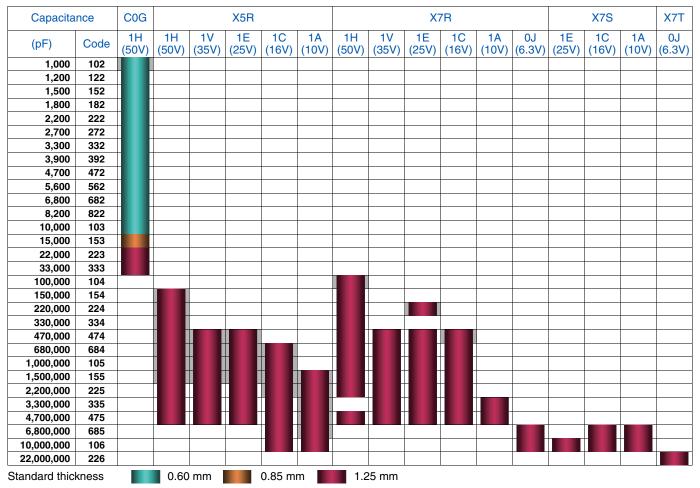
Standard thickness 0.80mm

Background gray: These products are not recommended for new designs.

■ For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.



CGA4/2012 [0805 inch]



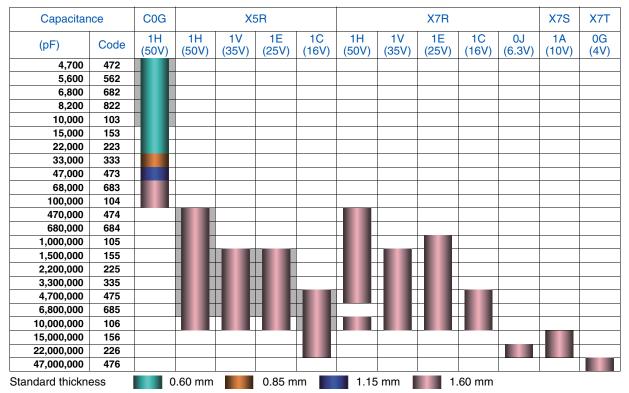
Background gray: These products are not recommended for new designs.

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

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CGA5/3216 [1206 inch]



Background gray: These products are not recommended for new designs.

Capacitance range chart

CGA6/3225 [1210 inch]

Capacitar	nce	COG		X	7R				
(pF)	Code	1H (50V)	1N (75V)	1H (50V)	1E (25V)	1C (16V)	1H (50V)	1A (10V)	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 thickness 1.25 mm 1.60 mm 2.00 mm 2.30 mm									
Daaluus		FI							

Background gray: These products are not recommended for new designs.

2.50 mm

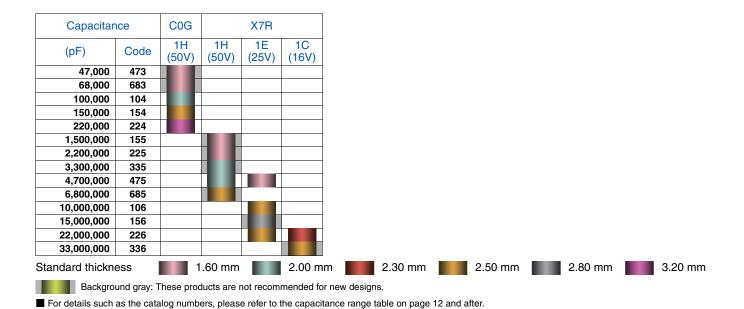
[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

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.

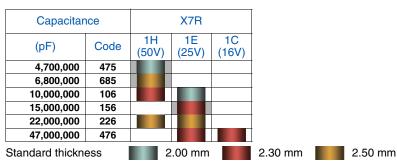


CGA8/4532 [1812 inch]



Capacitance range chart

CGA9/5750 [2220 inch]



Background gray: These products are not recommended for new designs.

[■] For details such as the catalog numbers, please refer to the capacitance range table on page 12 and after.

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

Capacitance Dimensions		Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 50V	Rated voltage Edc: 25V
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H010C030BA	CGA1A2C0G1E010C030BA
1					CGATA2COGTEOTOCO30BA
1pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H010C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H010C080AA	
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H1R5C030BA	CGA1A2C0G1E1R5C030BA
1.5pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H1R5C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H1R5C080AA	
	0603	0.30 ± 0.03	±0.25pF	CGA1A2C0G1H020C030BA	CGA1A2C0G1E020C030BA
2pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H020C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H020C080AA	
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H2R2C030BA	CGA1A2C0G1E2R2C030BA
2.2pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H2R2C050BA	
L.Lpi	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H2R2C080AA	
					CCA1A0C0C1E000C000BA
0	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H030C030BA	CGA1A2C0G1E030C030BA
3pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H030C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H030C080AA	
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H3R3C030BA	CGA1A2C0G1E3R3C030BA
3.3pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H3R3C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H3R3C080AA	
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H040C030BA	CGA1A2C0G1E040C030BA
4pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H040C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H040C080AA	
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H4R7C030BA	CGA1A2C0G1E4R7C030BA
4.7pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H4R7C050BA	
4.7 pi	1608	0.80±0.09	±0.25pF	CGA3E2C0G1H4R7C080AA	
					CCA1A0C0C1E0E0C000BA
	0603	0.30±0.03	±0.25pF	CGA1A2C0G1H050C030BA	CGA1A2C0G1E050C030BA
5pF	1005	0.50±0.05	±0.25pF	CGA2B2C0G1H050C050BA	
	1608	0.80±0.10	±0.25pF	CGA3E2C0G1H050C080AA	
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H060D030BA	CGA1A2C0G1E060D030BA
6pF	1005	0.50±0.05	±0.50pF	CGA2B2C0G1H060D050BA	
	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H060D080AA	
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H6R8D030BA	CGA1A2C0G1E6R8D030BA
6.8pF	1005	0.50±0.05	±0.50pF	CGA2B2C0G1H6R8D050BA	
5.5	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H6R8D080AA	
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H070D030BA	CGA1A2C0G1E070D030BA
7pF	1005	0.50±0.05	±0.50pF	CGA2B2C0G1H070D050BA	CATAZOGATEOTOBOGOBA
7 pi					
	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H070D080AA	001110000150000000
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H080D030BA	CGA1A2C0G1E080D030BA
8pF	1005	0.50±0.05	±0.50pF	CGA2B2C0G1H080D050BA	
	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H080D080AA	
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H090D030BA	CGA1A2C0G1E090D030BA
9pF	1005	0.50 ± 0.05	±0.50pF	CGA2B2C0G1H090D050BA	
	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H090D080AA	
	0603	0.30±0.03	±0.50pF	CGA1A2C0G1H100D030BA	CGA1A2C0G1E100D030BA
10pF	1005	0.50±0.05	±0.50pF	CGA2B2C0G1H100D050BA	
·	1608	0.80±0.10	±0.50pF	CGA3E2C0G1H100D080AA	
	0603	0.30±0.03	±5%	CGA1A2C0G1H120J030BA	CGA1A2C0G1E120J030BA
12pF	1005	0.50±0.05	±5%	CGA2B2C0G1H120J050BA	00,11,120001212000005,1
izpi	1608	0.80±0.00	±5%	CGA3E2C0G1H120J080AA	
		0.30±0.10		CGA1A2C0G1H150J030BA	CCA1A2C0C1E1E0 I020BA
45-5	0603		±5%		CGA1A2C0G1E150J030BA
15pF	1005	0.50±0.05	±5%	CGA2B2C0G1H150J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H150J080AA	
	0603	0.30±0.03	±5%	CGA1A2C0G1H180J030BA	CGA1A2C0G1E180J030BA
18pF	1005	0.50±0.05	±5%	CGA2B2C0G1H180J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H180J080AA	
	0603	0.30 ± 0.03	±5%	CGA1A2C0G1H220J030BA	CGA1A2C0G1E220J030BA
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	0 0,117 12 0 0 0 1 2 2 7 0 0 0 0 0 2 7 1
2/61	1608	0.80±0.03	±5%	CGA3E2C0G1H270J080AA	
					004440000450001000004
	0603	0.30±0.03	±5%	CGA1A2C0G1H330J030BA	CGA1A2C0G1E330J030BA
33pF	1005	0.50±0.05	±5%	CGA2B2C0G1H330J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H330J080AA	
	0603	0.30±0.03	±5%	CGA1A2C0G1H390J030BA	CGA1A2C0G1E390J030BA
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	
F.	1608	0.80±0.10	±5%	CGA3E2C0G1H470J080AA	

Click the part numbers for details.

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number 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	
	0603	0.30±0.03	±5%	CGA1A2C0G1H820J030BA	CGA1A2C0G1E820J030BA
82pF	1005	0.50±0.05	±5%	CGA2B2C0G1H820J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H820J080AA	
	0603	0.30±0.03	±5%	CGA1A2C0G1H101J030BA	CGA1A2C0G1E101J030BA
100pF	1005	0.50±0.05	±5%	CGA2B2C0G1H101J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H101J080AA	
100 5	1005	0.50±0.05	±5%	CGA2B2C0G1H121J050BA	
120pF	1608	0.80±0.10	±5%	CGA3E2C0G1H121J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H151J050BA	
150pF	1608	0.80±0.10	±5%	CGA3E2C0G1H151J080AA	
=	1005	0.50±0.05	±5%	CGA2B2C0G1H181J050BA	
180pF	1608	0.80±0.10	±5%	CGA3E2C0G1H181J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H221J050BA	
220pF	1608	0.80±0.10	±5%	CGA3E2C0G1H221J080AA	
	1005	0.50±0.05	±5%	CGA2B2C0G1H271J050BA	
270pF	1608	0.80±0.10	±5%	CGA3E2C0G1H271J080AA	
	1005	0.50±0.16	±5%	CGA2B2C0G1H331J050BA	
330pF	1608	0.80±0.03	±5%	CGA3E2C0G1H331J080AA	
	1005	0.50±0.10	±5%	CGA2B2C0G1H391J050BA	
390pF	1608	0.80±0.03	±5%	CGA3E2C0G1H391J080AA	
	1005		±5%	CGA2B2C0G1H471J050BA	
470pF		0.50±0.05			
	1608	0.80±0.10	±5%	CGA3E2C0G1H471J080AA	
560pF	1005	0.50±0.05	±5%	CGA2B2C0G1H561J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H561J080AA	
680pF	1005	0.50±0.05	±5%	CGA2B2C0G1H681J050BA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H681J080AA	
820pF	1005	0.50±0.05	±5%	CGA2B2C0G1H821J050BA	
	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	
	2012	0.60±0.15	±5%	CGA4C2C0G1H122J060AA	
1.5nF	1608	0.80±0.10	±5%	CGA3E2C0G1H152J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H152J060AA	
1.8nF	1608	0.80±0.10	±5%	CGA3E2C0G1H182J080AA	
	2012	0.60±0.15	±5%	CGA4C2C0G1H182J060AA	
2.2nF	1608	0.80±0.10	±5%	CGA3E2C0G1H222J080AA	
2.2.111	2012	0.60±0.15	±5%	CGA4C2C0G1H222J060AA	
2.7nF	1608	0.80±0.10	±5%	CGA3E2C0G1H272J080AA	
2.7111	2012	0.60±0.15	±5%	CGA4C2C0G1H272J060AA	
3.3nF	1608	0.80±0.10	±5%	CGA3E2C0G1H332J080AA	
0.0111	2012	0.60±0.15	±5%	CGA4C2C0G1H332J060AA	
3.9nF	1608	0.80±0.10	±5%	CGA3E2C0G1H392J080AA	
0.5111	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	
	1608	0.80±0.10	±5%	CGA3E2C0G1H822J080AA	
8.2nF	2012	0.60±0.15	±5%	CGA4C2C0G1H822J060AA	
	3216	0.60±0.15	±5%	CGA5C2C0G1H822J060AA	
	1608	0.80±0.10	±5%	CGA3E2C0G1H103J080AA	
10nF	2012	0.60±0.15	±5%	CGA4C2C0G1H103J060AA	
10111	3216	0.60±0.15	±5%	CGA5C2C0G1H103J060AA	
	2012	0.85±0.15	±5%	CGA4F2C0G1H153J085AA	
15nF	3216		±5%	CGA4F2C0G1H153J060AA	
	JE 10	0.60±0.15	±3 %	OGASOZOUG ITI ISSUUDUAA	

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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 50V		
	2012	1.25±0.20	±5%	CGA4J2C0G1H223J125AA		
22nF	3216	0.60±0.15	±5%	CGA5C2C0G1H223J060AA		
	3225	1.25±0.20	±5%	CGA6J2C0G1H223J125AA		
	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 items: These products are not recommended for new designs. Click the part numbers for details.



Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
200-F	4005		±10%	CGA2B2X5R1H221K050BA		
220pF	1005	0.50±0.05	±20%	CGA2B2X5R1H221M050BA		
330pF	1005	0.50±0.05	±10%	CGA2B2X5R1H331K050BA		
ооорі	1005	0.50±0.05	±20%	CGA2B2X5R1H331M050BA		
470pF	1005	0.50±0.05	±10%	CGA2B2X5R1H471K050BA		
-			±20%	CGA2B2X5R1H471M050BA		
680pF	1005	0.50±0.05	±10% ±20%	CGA2B2X5R1H681K050BA CGA2B2X5R1H681M050BA		
			±20%	CGA2B2X5R1H102K050BA		
	1005	0.50±0.05	±20%	CGA2B2X5R1H102M050BA		
1nF			±10%	CGA3E2X5R1H102K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H102M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H152K050BA		
1.5nF	1005	0.50±0.05	±20%	CGA2B2X5R1H152M050BA		
	1608	0.80±0.10	±10%	CGA3E2X5R1H152K080AA		
			±20%	CGA3E2X5R1H152M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H222K050BA		
2.2nF			±20%	CGA2B2X5R1H222M050BA CGA3E2X5R1H222K080AA		
	1608	0.80±0.10	±10% ±20%	CGA3E2X5R1H222M080AA		
-			±10%	CGA2B2X5R1H332K050BA		
	1005	0.50±0.05	±20%	CGA2B2X5R1H332M050BA		
3.3nF	1000	0.00.040	±10%	CGA3E2X5R1H332K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H332M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H472K050BA		
4.7nF	1005	0.30±0.03	±20%	CGA2B2X5R1H472M050BA		
4.7111	1608	0.80±0.10	±10%	CGA3E2X5R1H472K080AA		
			±20%	CGA3E2X5R1H472M080AA		
	1005	0.50±0.05	±10%	CGA2B2X5R1H682K050BA		
6.8nF			±20% ±10%	CGA2B2X5R1H682M050BA CGA3E2X5R1H682K080AA		
	1608	0.80±0.10	±10%	CGA3E2X5R1H682M080AA		
-			±10%	CGA2B3X5R1H103K050BB	CGA2B3X5R1V103K050BB	CGA2B2X5R1E103K050BA
	1005	0.50±0.05	±20%	CGA2B3X5R1H103M050BB	CGA2B3X5R1V103M050BB	CGA2B2X5R1E103M050BA
10nF	1000	0.00.040	±10%	CGA3E2X5R1H103K080AA		
	1608	0.80±0.10	±20%	CGA3E2X5R1H103M080AA		
	1005	0.50±0.05	±10%	CGA2B3X5R1H153K050BB	CGA2B3X5R1V153K050BB	CGA2B2X5R1E153K050BA
15nF		0.0020.00	±20%	CGA2B3X5R1H153M050BB	CGA2B3X5R1V153M050BB	CGA2B2X5R1E153M050BA
	1608	0.80±0.10	±10%	CGA3E2X5R1H153K080AA		
-			±20%	CGA3E2X5R1H153M080AA	CCADDOVED4VOOOVOEODD	CCAODOVED4E000K0E0DA
	1005	0.50±0.05	±10% ±20%	CGA2B3X5R1H223K050BB CGA2B3X5R1H223M050BB	CGA2B3X5R1V223K050BB CGA2B3X5R1V223M050BB	CGA2B2X5R1E223K050BA CGA2B2X5R1E223M050BA
22nF			±10%	CGA3E2X5R1H223K080AA	CGAZBOAGITI VZZOWIOOOBB	CGAZBZASITIEZZSWIOSOBA
	1608	0.80±0.10	±20%	CGA3E2X5R1H223M080AA		
-			±10%	CGA2B3X5R1H333K050BB	CGA2B3X5R1V333K050BB	CGA2B2X5R1E333K050BA
00-F	1005	0.50±0.05	±20%	CGA2B3X5R1H333M050BB	CGA2B3X5R1V333M050BB	CGA2B2X5R1E333M050BA
33nF	1608	0.80±0.10	±10%	CGA3E2X5R1H333K080AA		
	1000	0.80±0.10	±20%	CGA3E2X5R1H333M080AA		
	1005	0.50±0.05	±10%	CGA2B3X5R1H473K050BB	CGA2B3X5R1V473K050BB	CGA2B2X5R1E473K050BA
47nF			±20%	CGA2B3X5R1H473M050BB	CGA2B3X5R1V473M050BB	CGA2B2X5R1E473M050BA
	1608	0.80±0.10	±10%	CGA3E2X5R1H473K080AA		
-			±20% ±10%	CGA3E2X5R1H473M080AA CGA2B3X5R1H683K050BB	CGA2B3X5R1V683K050BB	CGA2B3X5R1E683K050BB
	1005	0.50±0.05	±20%	CGA2B3X5R1H683M050BB	CGA2B3X5R1V683M050BB	CGA2B3X5R1E683M050BB
68nF			±10%	CGA3E2X5R1H683K080AA	2 1.7 22 5.7 G. 1.1 V 000 W 000 00 D D	5 5.7 EDG/10.11 EDGG/1000BB
	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
100111	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%	CGA3E3X5R1H154M080AB	CGA3E3X5R1V154M080AB	CGA3E2X5R1E154M080AA
- ****	2012	1.25±0.20	±10%	CGA4J2X5R1H154K125AA CGA4J2X5R1H154M125AA		
			±20%	CGA4JZADD ITI 104WI IZOAA		

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O!+	Dimensia	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
000-5	1608	0.80±0.10	±20%	CGA3E3X5R1H224M080AB	CGA3E3X5R1V224M080AB	CGA3E2X5R1E224M080AA
220nF	2012	1.05.0.00	±10%	CGA4J2X5R1H224K125AA		
	2012	1.25±0.20	±20%	CGA4J2X5R1H224M125AA		
	1000	0.00.0.10	±10%	CGA3E3X5R1H334K080AB	CGA3E3X5R1V334K080AB	CGA3E3X5R1E334K080AB
	1608	0.80±0.10	±20%	CGA3E3X5R1H334M080AB	CGA3E3X5R1V334M080AB	CGA3E3X5R1E334M080AE
330nF	2010	105.000	±10%	CGA4J2X5R1H334K125AA		
	2012	1.25±0.20	±20%	CGA4J2X5R1H334M125AA		
	1000	0.00.0.10	±10%	CGA3E3X5R1H474K080AB	CGA3E3X5R1V474K080AB	CGA3E3X5R1E474K080AE
	1608	0.80±0.10	±20%	CGA3E3X5R1H474M080AB	CGA3E3X5R1V474M080AB	CGA3E3X5R1E474M080AE
			±10%	CGA4J3X5R1H474K125AB	CGA4J3X5R1V474K125AB	CGA4J2X5R1E474K125AA
470nF	2012	1.25±0.20	±20%	CGA4J3X5R1H474M125AB	CGA4J3X5R1V474M125AB	CGA4J2X5R1E474M125AA
-			±10%	CGA5L2X5R1H474K160AA		
	3216	1.60+0.30,-0.10	±20%	CGA5L2X5R1H474M160AA		
			±10%	CGA3E3X5R1H684K080AB	CGA3E3X5R1V684K080AB	CGA3E3X5R1E684K080AE
	1608	0.80±0.10	±20%	CGA3E3X5R1H684M080AB	CGA3E3X5R1V684M080AB	CGA3E3X5R1E684M080AE
			±10%	CGA4J3X5R1H684K125AB	CGA4J3X5R1V684K125AB	CGA4J2X5R1E684K125AA
680nF	2012	1.25±0.20	±20%	CGA4J3X5R1H684M125AB	CGA4J3X5R1V684M125AB	CGA4J2X5R1E684M125AA
·-			±10%	CGA5L2X5R1H684K160AA		
	3216	1.60+0.30,-0.10	±20%	CGA5L2X5R1H684M160AA		
			±10%	CGA3E3X5R1H105K080AB	CGA3E3X5R1V105K080AB	CGA3E3X5R1E105K080AE
	1608	1608 0.80±0.10	±20%	CGA3E3X5R1H105M080AB	CGA3E3X5R1V105M080AB	CGA3E3X5R1E105M080AE
-			±10%	CGA4J3X5R1H105K125AB	CGA4J3X5R1V105K125AB	CGA4J2X5R1E105K125AA
1µF	2012	2012 1.25±0.20	±20%	CGA4J3X5R1H105M125AB	CGA4J3X5R1V105M125AB	CGA4J2X5R1E105M125AA
-		3216 1.60+0.30,-0.10	±10%	CGA5L2X5R1H105K160AA	0 0,71100,701117100111120712	0 0,1102,101,112,100,11120,1
	3216		±20%	CGA5L2X5R1H105M160AA		
			±10%	CGA4J3X5R1H155K125AB	CGA4J3X5R1V155K125AB	CGA4J3X5R1E155K125AE
	2012	1.25±0.20	±20%	CGA4J3X5R1H155M125AB	CGA4J3X5R1V155M125AB	CGA4J3X5R1E155M125AE
1.5µF			±10%	CGA5L3X5R1H155K160AB	CGA5L3X5R1V155K160AB	CGA5L2X5R1E155K160AA
	3216	1.60+0.30,-0.10	±20%	CGA5L3X5R1H155M160AB	CGA5L3X5R1V155M160AB	CGA5L2X5R1E155M160AA
			±10%	CGA4J3X5R1H225K125AB	CGA4J3X5R1V225K125AB	CGA4J3X5R1E225K125AB
	2012	1.25±0.20	±20%	CGA4J3X5R1H225M125AB	CGA4J3X5R1V225M125AB	CGA4J3X5R1E225M125AB
2.2µF			±10%	CGA5L3X5R1H225K160AB	CGA5L3X5R1V225K160AB	CGA5L2X5R1E225K160AA
	3216	1.60+0.30,-0.10	±20%	CGA5L3X5R1H225M160AB	CGA5L3X5R1V225M160AB	CGA5L2X5R1E225M160AA
			±10%	CGA4J3X5R1H335K125AB	CGA4J3X5R1V335K125AB	CGA4J3X5R1E335K125AB
	2012	1.25±0.20	±20%	CGA4J3X5R1H335M125AB	CGA4J3X5R1V335M125AB	CGA4J3X5R1E335M125AB
3.3µF			±10%	CGA5L3X5R1H335K160AB	CGA5L3X5R1V335K160AB	CGA5L2X5R1E335K160AA
	3216	1.60+0.30,-0.10	±20%	CGA5L3X5R1H335M160AB	CGA5L3X5R1V335M160AB	CGA5L2X5R1E335M160AA
			±10%	CGA4J3X5R1H475K125AB	CGA4J3X5R1V475K125AB	CGA4J3X5R1E475K125AB
	2012	1.25±0.20	±20%	CGA4J3X5R1H475M125AB	CGA4J3X5R1V475M125AB	CGA4J3X5R1E475M125AB
4.7μF			+10%	CGA5L3X5R1H475K160AB	CGA5L3X5R1V475K160AB	CGA5L2X5R1E475K160AA
	3216	1.60+0.30,-0.10	±20%	CGA5L3X5R1H475M160AB	CGA5L3X5R1V475M160AB	CGA5L2X5R1E475M160AA
			+10%	CGA5L3X5R1H685K160AB	CGA5L3X5R1V685K160AB	CGA5L3X5R1E685K160AE
6.8µF	3216	1.60+0.30,-0.10	±10%	CGA5L3X5R1H685M160AB	CGA5L3X5R1V685M160AB	CGA5L3X5R1E685M160AB
			±20%	CGA5L3X5R1H106K160AB	CGA5L3X5R1V106K160AB	CGA5L3X5R1E106K160AB
10μF	3216	3216 1.60+0.30,-0.10	±10%	CGA5L3X5R1H106M160AB	CGA5L3X5R1V106M160AB	CGA5L3X5R1E106M160AB

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Supplementation Dimensions Common	Canacitance	Dimensions	Thickness	Capacitance	Catalog number		
1005	Опраснансе	Billichsions	(mm)	tolerance		Rated voltage Edc: 10V	Rated voltage Edc: 6.3V
### 1005	33nF	1005	0.50+0.05	±10%	CGA2B2X5R1C333K050BA		
47nF 1005		1000	0.0010.00	±20%	CGA2B2X5R1C333M050BA		
20% 20% CGA282XSH1C43XMOSBA	47nF	1005	0.50+0.05	±10%	CGA2B2X5R1C473K050BA		
1006 1005 0.59±0.05 120% CGA2BZXSFITCBSM60BA CGA2BZXSFITATD4KDS0BA 1006 0.50±0.05 120% CGA2BZXSFITC10MB00BA CGA2BZXSFITATD4KDS0BA 1007 1008 0.50±0.05 120% CGA2BZXSFITC10MB00BA CGA2BZXSFITATD4KDS0BA 1008 0.50±0.05 120% CGA2BZXSFITC15MK00BB CGA2BZXSFITATS4KDS0BB 1008 0.50±0.05 120% CGA2BZXSFITC15MK00BB CGA2BZXSFITATS4KDS0BB 1008 0.80±0.10 120% CGA2BZXSFITC3MK00BC CGA2BZXSFITAZ24KD00BB 1608 0.80±0.10 120% CGA3BZXSFITC2MK00BA CGA3BZXSFITAZ24KD00BB 1608 0.80±0.10 120% CGA3BZXSFITC2MK00BA CGA3BZXSFITAZ24KD00BA 470πF 1608 0.80±0.10 120% CGA3BZXSFITC2MK00BA CGA3BZXSFITAZ34KD00AA 470πF 1608 0.80±0.10 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAZ34KD00AA 470πF 1608 0.80±0.10 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAZ34KD00AA 470mF 1608 0.80±0.10 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAGABKK00BA 470mF 1608 0.80±0.10 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAGABKK00BA 470mF 1608 0.80±0.10 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAGBKK00BA 470mF 125±0.20 120% CGA3BZXSFITC3MK00BA CGA3BZXSFITAGSKN0BA 470mF 125±0.20 120% CGA3BZXSFITC3MK00BA CGA3BZXS	77111	1005	0.50±0.05	±20%	CGA2B2X5R1C473M050BA		
100nF 1005 0.50±0.05 ±0% CGA28E2XSR11C03KN050BA CGA28E2XSR1A104K050BA 150nF 1005 0.50±0.05 ±10% CGA28E3XSR1A104K050BA 1005 0.50±0.05 ±20% CGA28E3XSR1A104K050BA 1005 0.50±0.05 ±20% CGA28E3XSR1A104K050BB 1005 0.50±0.05 ±20% CGA28E3XSR1A154K050BB 1005 0.50±0.05 ±20% CGA28E3XSR1A154K050BB 1006 0.50±0.05 ±20% CGA28E3XSR1A154K050BB 1008 0.80±0.10 ±10% CGA28E3XSR1C224K050BC CGA28E3XSR1A224K050BB 1008 0.80±0.10 ±10% CGA38E3XSR1C224K050BC CGA28E3XSR1A224K050BB 1008 0.80±0.10 ±10% CGA38E2XSR1C224K050BC CGA28E3XSR1A224K050BB 1008 0.80±0.10 ±10% CGA38E2XSR1C324K050BA 1008 0.80±0.10 ±20% CGA38E2XSR1C33K050AA CGA38E2XSR1A334K050AA 1008 0.80±0.10 ±20% CGA38E2XSR1C33K050AA CGA38E2XSR1A334K050AA 1008 0.80±0.10 ±10% CGA38E2XSR1C33K050AA CGA38E2XSR1A334K050AA 1008 0.80±0.10 ±10% CGA38E2XSR1C3AKA0AA CGA38E2XSR1A334K050AA 1008 0.80±0.10 ±10% CGA38E2XSR1C3AKA0A CGA38E2XSR1A34K050AA 1008 0.80±0.10 ±10% CGA38EXSR1C5AKA0A CGA38E2XSR1A68AK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C5AKA0A CGA38E2XSR1A68AK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C5AKA0 CGA38E2XSR1A68AK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C5AKA0 CGA38E2XSR1A16SK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C10SK050AC CGA38E2XSR1A10SK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C10SK050AC CGA38E2XSR1A10SK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C10SK050AC CGA38EXSR1A1SK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C10SK050AC CGA38EXSR1A1SK050AA 1008 0.80±0.10 ±10% CGA38EXSR1C10SK050AC CGA38EXSR1A1SK050BAA 1008 0.80±0.10 ±10% CGA38EXSR1C1SK050AC CGA38EXSR1A1SK050BAB 1008 0.80±0.10 ±10% CGA38EXSR1C1SK050AC CGA38EXSR1A1SK050BAB 1008 0.80±0.10 ±10% CGA38EXSR1C1SK050AC CGA38EXSR1A1SSK050BAB 1008 0.80±0.10 ±10% CGA38EXSR1C1SK050AC CGA38EXSR1A1SSK050BAB 1008 0.80±0.10 ±10% CGA38EXSR1C3	68nF	1005	0.50+0.05	±10%	CGA2B2X5R1C683K050BA		
1000F 1005		1005	0.50±0.05	±20%	CGA2B2X5R1C683M050BA		
150nF 1005	100nE	1005	0.50+0.05	±10%	CGA2B2X5R1C104K050BA	CGA2B2X5R1A104K050BA	
1005 0.50±0.05 ±20% CGA2B1X5R1 C154M050BC CGA2B3X5R1 A122M050BB 220nF 1608 0.80±0.10 ±10% CGA2B1X5R1 C22M050BC CGA2B3X5R1 A22M050BB 330nF 1608 0.80±0.10 ±10% CGA3E2X5R1C22M050AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C334K080AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C334K080AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C334K080AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C334K080AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C34M050AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C36M050AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C58M050AA 470nF 1608 0.80±0.10 ±10% CGA3E2X5R1C58M050AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AA 470nF 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AC 470m 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AC 470m 1608 0.80±0.10 ±20% CGA3E2X5R1C158K050AC 470m 1608 0.80±0.10 ±20% CGA3E2X5R1C258M050AC 470m 1608 0.80±0.10 ±10% CGA3E2X5R1C358M050AC 470m 1608 0.80±0.	100111	1005	0.30±0.03	±20%	CGA2B2X5R1C104M050BA	CGA2B2X5R1A104M050BA	
200% CGA2EXSHTATASAM0S0BB CGA2EXSKR1A224M0S0BC CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0BB CGA2EXSKR1A224M0S0AB CGA3EXSKR1A224M0S0AB CGA3EXSKR1A224M0S0AB CGA3EXSKR1A224M0S0AB CGA3EXSKR1A224M0S0AB CGA3EXSKR1A234M0S0AA CGA3EXSKR1A34M0S0AA CGA3EXSKR1A34M0S0AA CGA3EXSKR1A54M0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A54M0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A10SM0S0AA CGA3EXSKR1A155M0S0AA CGA3EXSKR1A155M0S0AA CGA3EXSKR1A155M0S0AA CGA3EXSKR1A55M0S0AA CGA3EXSKR1A55M0S0A	150nF	1005	0.50+0.05	±10%	CGA2B1X5R1C154K050BC	CGA2B3X5R1A154K050BB	
220nF 1608	130111	1005	0.50±0.05	±20%	CGA2B1X5R1C154M050BC	CGA2B3X5R1A154M050BB	
22016		1005	0.50+0.05	±10%	CGA2B1X5R1C224K050BC	CGA2B3X5R1A224K050BB	
1608	220nE	1005	0.30±0.03	±20%	CGA2B1X5R1C224M050BC	CGA2B3X5R1A224M050BB	
330nF 1608	22011	1600	0.00.0.10	±10%	CGA3E2X5R1C224K080AA		
1008	1608		0.60±0.10	±20%	CGA3E2X5R1C224M080AA		_
470nF 1608	330nE	1609	0.80+0.10	±10%	CGA3E2X5R1C334K080AA	CGA3E2X5R1A334K080AA	
1608 1608	330111	.500 0.50±0.10	0.80±0.10	±20%	CGA3E2X5R1C334M080AA	CGA3E2X5R1A334M080AA	
1608	470nE	470nF 1608 0.80±0.1	0.00.0.10	±10%	CGA3E2X5R1C474K080AA	CGA3E2X5R1A474K080AA	
1688 1698 0.80±0.10 ±20% ±	47011		0.60±0.10	±20%	CGA3E2X5R1C474M080AA	CGA3E2X5R1A474M080AA	
1006		1600	0.00.0.10	±10%	CGA3E2X5R1C684K080AA	CGA3E2X5R1A684K080AA	_
1408	690nE	1000	0.60±0.10	±20%	CGA3E2X5R1C684M080AA	CGA3E2X5R1A684M080AA	
1608	GOUTE	2012	1.05 . 0.00	±10%	CGA4J2X5R1C684K125AA		
1608		2012	1.25±0.20	±20%	CGA4J2X5R1C684M125AA		
1μF 2012 1.25±0.20 ±10% CGA4JZXSR1C105M125AA CGA3E3XSR1A155M080AB ±10% CGA4JZXSR1C105M125AA ±20% CGA3E1XSR1C155M080AC CGA3E3XSR1A155M080AB ±10% CGA3E1XSR1C155M080AC CGA3E3XSR1A155M080AB ±10% CGA4JZXSR1C155M125AA CGA4JZXSR1A155M080AB ±10% CGA4JZXSR1C155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A155M125AA CGA4JZXSR1A125M080AB ±10% CGA3E1XSR1C225M080AC CGA3E3XSR1A225M080AB ±10% CGA3E1XSR1C225M080AC CGA3E3XSR1A225M080AB ±10% CGA4JZXSR1C225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A225M125AA CGA4JZXSR1A235M125AA CGA4JZXSR1A335M080AC CGA3E3XSR0J335M080AB ±10% CGA3E3XSR1A335M125AA CGA4JZXSR1A335M125AA CGA4JZXSR1A475K125AA CGA4JZXSR1A475K1		1μF	0.80±0.10	±10%	CGA3E1X5R1C105K080AC	CGA3E2X5R1A105K080AA	
1.5μF 1608	1		0.60±0.10	±20%	CGA3E1X5R1C105M080AC	CGA3E2X5R1A105M080AA	
1.5μF 1608	īμr		1 25+0 20	±10%	CGA4J2X5R1C105K125AA		
1.5μF 1.5μF 1.5μF 1.5μF 1.608 0.80±0.10 ±20% CGA3E1XSR1C155M080AC CGA3E3XSR1A15SM080AB CGA4J2XSR1C155K125AA CGA4J2XSR1A15SM080AB 1608 0.80±0.10 ±10% CGA3E1XSR1C25K080AC CGA3E3XSR1A25SK080AB 1608 0.80±0.10 ±20% CGA3E1XSR1C225K080AC CGA3E3XSR1A225K080AB 12012 1.25±0.20 ±10% CGA3E1XSR1C225K080AC CGA3E3XSR1A225K080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E3XSR1A22SK080AB CGA3E1XSR1A33SK080AC CGA3E3XSR0J33SK080AB 2012 1.25±0.20 ±10% CGA4J2XSR1C225M125AA CGA3E1XSR1A33SK080AC CGA3E3XSR0J33SK080AB CGA3E1XSR1A33SK080AC CGA3E3XSR0J33SM080AB CGA3E1XSR1A33SK080AC CGA3E3XSR0J33SM080AB CGA3E3XSR0J33SM080AB 2012 1.25±0.20 ±10% CGA4J3XSR1C335K125AB CGA4J2XSR1A33SK125AA CGA4J2XSR1A33SK125AA CGA3E1XSR0J475K080AC CGA3E1XSR0J475K080AC CGA3E1XSR0J475M080AC CGA3E1XSR0J475M080AC CGA3E1XSR0J475M080AC CGA3E1XSR0J475M080AC CGA3E1XSR0J475M080AC CGA3E1XSR0J475M080AC CGA4J3XSR1C475K150AA ±20% CGA4J3XSR1C475K150AA ±20% CGA5L2XSR1C475K160AA ±20% CGA5L2XSR1C45SK160AA ±20% CGA5L2XSR1C45SK160AA ±20% CGA5L2XSR1C45SK160AA ±20% CGA5L2XSR1C45SK160AA ±20% CGA5L2XSR1C685K160AA ±20% CGA5L2XSR1C685K160AA ±20% CGA5L2XSR1C685K160AA ±20% CGA5L2XSR1C685K160AA ±20% CGA5L2XSR1C685K160AA ±20% CGA5L1XSR1C106K160AC ±20% CGA5L1XSR1C106K160AC ±20% CGA5L1XSR1C106K160AC ±20% CGA5L1XSR1C106K160AC ±20% CGA5L1XSR1C106K160AC	2012	1.25±0.20	±20%	CGA4J2X5R1C105M125AA			
1.5μF		1600	0.80±0.10	±10%	CGA3E1X5R1C155K080AC	CGA3E3X5R1A155K080AB	
2012 1.25±0.20	1 5	1608	0.80±0.10	±20%	CGA3E1X5R1C155M080AC	CGA3E3X5R1A155M080AB	
#20% CGA3E1X5R10125AA CGA4J2XSR1A155M125AA	т.эµг	2012	1.05 . 0.00	±10%	CGA4J2X5R1C155K125AA	CGA4J2X5R1A155K125AA	_
2.2μF 2012		2012	1.25±0.20	±20%	CGA4J2X5R1C155M125AA	CGA4J2X5R1A155M125AA	_
2.2μF 2012 1.25±0.20 ±10% CGA4J2X5R1C225M125AA CGA4J2X5R1A225M125AA 2012 1.25±0.20 ±10% CGA4J2X5R1C225M125AA CGA4J2X5R1A225M125AA 2012 1.25±0.20 ±10% CGA4J2X5R1C225M125AA CGA4J2X5R1A225M125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335K080AC CGA3E3X5R0J335K080AB 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335K125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C335M125AB CGA4J2X5R1A335M125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C335M125AB CGA4J2X5R1A335M125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475M125AA 2012 1.25±0.20 ±10% CGA5L2X5R1C475K160AA ±20% CGA5L2X5R1C475M160AA ±20% CGA4J3X5R1C685M125AC CGA4J3X5R1A685K125AB 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA ±20% CGA4J1X5R1C685M125AC CGA4J3X5R1A685K125AB 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA ±20% CGA4J1X5R1C685M125AC CGA4J3X5R1A685M125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C685M160AA ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C106M15AC ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C106M15AC ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±10% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB ±20% CGA4J1X5R1C106M160AC ±20% CGA5L1X5R1C106M160AC ±20% CGA5L1X5R1C156M160AC ±20% CGA5L1X5R1C156M160A		1600	0.00.0.10	±10%	CGA3E1X5R1C225K080AC	CGA3E3X5R1A225K080AB	
2012 1.25±0.20	2 205	1000	0.60±0.10	±20%	CGA3E1X5R1C225M080AC	CGA3E3X5R1A225M080AB	
1608	2.2μΓ	2012	1.05 . 0.00	±10%	CGA4J2X5R1C225K125AA	CGA4J2X5R1A225K125AA	
3.3μF 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335M080AC CGA3E3X5R0J335M080AB 4.7μF 2012 1.25±0.20 ±10% CGA4J3X5R1C335M125AB CGA4J2X5R1A335M125AA 4.7μF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7μF 2012 1.25±0.20 ±20% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7μF 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C475M125AB CGA4J2X5R1A475M125AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C475M125AB CGA4J2X5R1A475M125AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C475M125AB CGA4J2X5R1A475M125AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685K125AC CGA4J3X5R1A685K125AB 4.6μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685K160AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA 4.7μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA 4.7μF 2012 1.25±0.20 ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 1.25±0.20 ±20% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 1.25±0.20 ±20% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 1.25±0.20 ±20% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 1.25±0.20 ±20% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 2012 ±20% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 4.6μF 2012 ±20% CGA5L1X5R1C106M160AC ±20%		2012	1.25±0.20	±20%	CGA4J2X5R1C225M125AA	CGA4J2X5R1A225M125AA	
3.3μF 2012 1.25±0.20 ±10% CGA4J3X5R1C335K125AB CGA4J2X5R1A335K080AC CGA3E3X5R0J335M080AB 2012 1.25±0.20 ±20% CGA4J3X5R1C335M125AB CGA4J2X5R1A335M125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A335M125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475K125AB CGA4J2X5R1A475K125AA 2012 1.25±0.20 ±10% CGA4J3X5R1C475M125AB CGA4J2X5R1A475M125AA 2012 1.25±0.20 ±10% CGA5L2X5R1C475K160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C475M160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C475M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C68SM125AC CGA4J3X5R1A685K125AB 2012 1.25±0.20 ±10% CGA5L2X5R1C685K160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C685K160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C685K160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C68SM125AC CGA4J3X5R1A685M125AB 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±10% CGA5L2X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±10% CGA5L1X5R1C106K125AC CGA4J3X5R1A106M125AB 2012 1.25±0.20 ±10% CGA5L1X5R1C106K160AC 2012 ±10% CGA5L1X5R1C106M160AC 2012 ±10% CGA5L1X5R1C106M160AC 2012 ±10% CGA5L1X5R1C106M160AC		1609	0.80+0.10	±10%		CGA3E1X5R1A335K080AC	CGA3E3X5R0J335K080AB
2012 1.25±0.20	0.0	1000	0.60±0.10	±20%		CGA3E1X5R1A335M080AC	CGA3E3X5R0J335M080AB
4.7μF 1608	э.эµг	2012	1.05 . 0.00	±10%	CGA4J3X5R1C335K125AB	CGA4J2X5R1A335K125AA	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2012	1.25±0.20	±20%	CGA4J3X5R1C335M125AB	CGA4J2X5R1A335M125AA	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1609	0.80+0.10	±10%			CGA3E1X5R0J475K080AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1000	0.60±0.10	±20%			CGA3E1X5R0J475M080AC
1.60+0.30,-0.10 ±10% CGA5L2X5R1C475M160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C475M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C685M125AC CGA4J3X5R1A685M125AB 2012 1.60+0.30,-0.10 ±10% CGA4J1X5R1C685M125AC CGA4J3X5R1A685M125AB 2012 1.60+0.30,-0.10 ±10% CGA5L2X5R1C685M160AA 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA 2012 1.25±0.20 ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±20% CGA4J1X5R1C106K125AC CGA4J3X5R1A106M125AB 2012 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC	4 7uE	2012	1.05 . 0.00	±10%	CGA4J3X5R1C475K125AB	CGA4J2X5R1A475K125AA	
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% CGA5L2X5R1C685M160AA ±10% CGA5L2X5R1C685M160AA ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB 2012 1.25±0.20 ±10% CGA4J1X5R1C106M125AC CGA4J3X5R1A106M125AB 2012 1.60+0.30,-0.10 ±10% CGA5L1X5R1C106M125AC CGA4J3X5R1A106M125AB 2012 1.60+0.30,-0.10 ±20% CGA5L1X5R1C106M160AC	4.7μΓ	2012	1.25±0.20	±20%	CGA4J3X5R1C475M125AB	CGA4J2X5R1A475M125AA	
		2216	1 60 10 30 -0 10	±10%	CGA5L2X5R1C475K160AA		
6.8μF		3210	1.00+0.30,-0.10	±20%	CGA5L2X5R1C475M160AA		
$\frac{420\%}{3216} \frac{\pm 20\%}{1.60+0.30,-0.10} \frac{\pm 20\%}{\pm 20\%} \frac{\text{CGA4J1X5R1C685M125AC}}{\text{CGA5L2X5R1C685K160AA}} \frac{\text{CGA4J3X5R1A685M125AB}}{\text{CGA4J3X5R1A106K125AB}} $ $\frac{2012}{3216} \frac{1.25\pm0.20}{1.60+0.30,-0.10} \frac{\pm 10\%}{\pm 20\%} \frac{\text{CGA4J1X5R1C106K125AC}}{\text{CGA4J1X5R1C106M125AC}} \frac{\text{CGA4J3X5R1A106K125AB}}{\text{CGA4J3X5R1A106M125AB}} $ $\frac{15}{3216} \frac{1.60+0.30,-0.10}{1.60+0.30,-0.10} \frac{\pm 10\%}{\pm 20\%} \frac{\text{CGA5L1X5R1C106M160AC}}{\text{CGA5L1X5R1C106M160AC}} $		0010	1 25+0 20	±10%	CGA4J1X5R1C685K125AC	CGA4J3X5R1A685K125AB	
	6 0	2012	1.23±0.20	±20%	CGA4J1X5R1C685M125AC	CGA4J3X5R1A685M125AB	
10μF 2012 1.25±0.20 ±10% CGA5L2X5R1C685M160AA ±10% CGA4J1X5R1C106K125AC CGA4J3X5R1A106K125AB ±20% CGA4J1X5R1C106K125AC CGA4J3X5R1A106M125AB ±10% CGA5L1X5R1C106K160AC ±10% CGA5L1X5R1C106M160AC 15μF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C156M160AC	о.оµг	2216	1 60 10 30 -0 10	±10%	CGA5L2X5R1C685K160AA		
10μF		3210	1.00+0.30,-0.10	±20%	CGA5L2X5R1C685M160AA		
10μF	·	2012	1 25 . 0 20	±10%	CGA4J1X5R1C106K125AC	CGA4J3X5R1A106K125AB	
3216 1.60+0.30,-0.10 ±10% CGASL1X5H1C106K160AC ±20% CGASL1X5R1C106M160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGASL1X5R1C156M160AC	10uE		1.20±0.20	±20%	CGA4J1X5R1C106M125AC	CGA4J3X5R1A106M125AB	
#20% CGASLTXSRTC106M160AC 15µF 3216 1.60+0.30,-0.10 ±20% CGASL1X5R1C156M160AC	ιομε	2010	1 60 . 0 20 0 10	±10%	CGA5L1X5R1C106K160AC		
		3216	1.00+0.30,-0.10	±20%	CGA5L1X5R1C106M160AC		
22µF 3216 1.60+0.30,-0.10 ±20% CGA5L1X5R1C226M160AC	15µF	3216	1.60+0.30,-0.10	±20%	CGA5L1X5R1C156M160AC		
	22µF	3216	1.60+0.30,-0.10	±20%	CGA5L1X5R1C226M160AC		

[■] Gray items: These products are not recommended for new designs. Click the part numbers for details.



0	Dimensione	Thickness	Capacitance	Catalog number		
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
			±10%	CGA1A2X7R1H101K030BA		CGA1A2X7R1E101K030BA
100pF	0603	0.30±0.03	±20%	CGA1A2X7R1H101M030BA		CGA1A2X7R1E101M030BA
-			±10%	CGA1A2X7R1H151K030BA		CGA1A2X7R1E151K030BA
150pF	0603	0.30±0.03	±20%	CGA1A2X7R1H151M030BA		CGA1A2X7R1E151M030BA
			±10%	CGA1A2X7R1H221K030BA		CGA1A2X7R1E221K030BA
	0603	0.30±0.03	±20%	CGA1A2X7R1H221M030BA		CGA1A2X7R1E221M030BA
220pF			±10%	CGA2B2X7R1H221K050BA		
	1005	0.50±0.05	±20%	CGA2B2X7R1H221M050BA		
			±10%	CGA1A2X7R1H331K030BA		CGA1A2X7R1E331K030BA
	0603	0.30±0.03	±20%	CGA1A2X7R1H331M030BA		CGA1A2X7R1E331M030BA
330pF			±10%	CGA2B2X7R1H331K050BA		CGATAZATTTESSTWOSOBA
	1005	0.50±0.05	±20%	CGA2B2X7R1H331M050BA		
			±10%	CGA1A2X7R1H471K030BA		CCA1A2V7D1E471K020DA
	0603	0.30 ± 0.03	±20%	CGA1A2X7R1H471M030BA		CGA1A2X7R1E471K030BA CGA1A2X7R1E471M030BA
470pF			±20%	CGA2B2X7R1H471K050BA		CGATAZA/TITE4/TIMOSOBA
	1005	0.50±0.05	±10%			
			±20%	CGA2B2X7R1H471M050BA		CGA1A2X7R1E681K030BA
	0603	0.30±0.03				
680pF			±20%	CCAOROVZD4LICO4I/OFODA		CGA1A2X7R1E681M030BA
	1005	0.50±0.05	±10%	CGA2B2X7R1H681K050BA		
			±20%	CGA2B2X7R1H681M050BA		004440VZD4E400V000D4
	0603	0.30±0.03	±10%			CGA1A2X7R1E102K030BA
			±20%			CGA1A2X7R1E102M030BA
1nF	1005	0.50±0.05	±10%	CGA2B2X7R1H102K050BA		
			±20%	CGA2B2X7R1H102M050BA		
	1608	608 0.80±0.10	±10%	CGA3E2X7R1H102K080AA		
			±20%	CGA3E2X7R1H102M080AA		
	0603	0.30±0.03	±10%			CGA1A2X7R1E152K030BA
			±20%			CGA1A2X7R1E152M030BA
1.5nF	1005	0.50±0.05	±10%	CGA2B2X7R1H152K050BA		
			±20%	CGA2B2X7R1H152M050BA		
	1608	0.80±0.10	±10%	CGA3E2X7R1H152K080AA		
			±20%	CGA3E2X7R1H152M080AA		
	0603	0.30±0.03 0.50±0.05	±10%			CGA1A2X7R1E222K030BA
			±20%			CGA1A2X7R1E222M030BA
2.2nF	1005		±10%	CGA2B2X7R1H222K050BA		
	1003		±20%	CGA2B2X7R1H222M050BA		
	1608	0.80±0.10	±10%	CGA3E2X7R1H222K080AA		
			±20%	CGA3E2X7R1H222M080AA		
	0603	0.30±0.03	±10%			CGA1A2X7R1E332K030BA
		0.0020.00	±20%			CGA1A2X7R1E332M030BA
3.3nF	1005	0.50±0.05	±10%	CGA2B2X7R1H332K050BA		
0.0111	1005	0.00±0.00	±20%	CGA2B2X7R1H332M050BA		
	1608 0.80	0.80±0.10	±10%	CGA3E2X7R1H332K080AA		
		0.00±0.10	±20%	CGA3E2X7R1H332M080AA		
	1005	0.50±0.05	±10%	CGA2B2X7R1H472K050BA		
4.7nF	1005	0.50±0.05	±20%	CGA2B2X7R1H472M050BA		
4.711	1600	0.90.0.10	±10%	CGA3E2X7R1H472K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H472M080AA		
	4005	0.50.005	±10%	CGA2B2X7R1H682K050BA		
	1005	0.50±0.05	±20%	CGA2B2X7R1H682M050BA		
6.8nF	1000	0.00.0.10	±10%	CGA3E2X7R1H682K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H682M080AA		
			±10%	CGA2B3X7R1H103K050BB	CGA2B3X7R1V103K050BB	CGA2B2X7R1E103K050BA
	1005	0.50±0.05	±20%	CGA2B3X7R1H103M050BB	CGA2B3X7R1V103M050BB	CGA2B2X7R1E103M050BA
10nF	1055	0.00 - :-	±10%	CGA3E2X7R1H103K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H103M080AA		
			±10%	CGA2B3X7R1H153K050BB	CGA2B3X7R1V153K050BB	CGA2B2X7R1E153K050BA
	1005	0.50±0.05	±20%	CGA2B3X7R1H153M050BB	CGA2B3X7R1V153M050BB	CGA2B2X7R1E153M050BA
15nF			±10%	CGA3E2X7R1H153K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1H153M080AA		
			±10%	CGA2B3X7R1H223K050BB	CGA2B3X7R1V223K050BB	CGA2B2X7R1E223K050BA
	1005	0.50±0.05	±10%	CGA2B3X7R1H223M050BB	CGA2B3X7R1V223R050BB	CGA2B2X7R1E223M050BA
22nF			±20% ±10%	CGA3E2X7R1H223K080AA	OGMEDON/THTV220IVIO30BB	OUAZDZA/INTEZZOWIUOUBA
	1608	0.80±0.10				
			±20%	CGA3E2X7R1H223M080AA		

Click the part numbers for details.



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

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V
	1005	0.50.0.05	±10%	CGA2B3X7R1H333K050BB	CGA2B3X7R1V333K050BB	CGA2B1X7R1E333K050BC
33nF	1005	0.50±0.05	±20%	CGA2B3X7R1H333M050BB	CGA2B3X7R1V333M050BB	CGA2B1X7R1E333M050BC
33111	1608	0.80±0.10	±10%	CGA3E2X7R1H333K080AA		
			±20%	CGA3E2X7R1H333M080AA	004000/704/470/45000	00.4004.V=0.45.470.V05000
	1005	0.50±0.05	±10% ±20%	CGA2B3X7R1H473K050BB CGA2B3X7R1H473M050BB	CGA2B3X7R1V473K050BB CGA2B3X7R1V473M050BB	CGA2B1X7R1E473K050BC CGA2B1X7R1E473M050BC
47nF			±20%	CGA3E2X7R1H473K080AA	CGA2D3X/111V4/3W030DD	CGAZDTX/TTL4/3M030BC
	1608	0.80±0.10	±20%	CGA3E2X7R1H473M080AA		
	1005		±10%	CGA2B3X7R1H683K050BB	CGA2B3X7R1V683K050BB	CGA2B3X7R1E683K050BB
C0=F	1005	0.50±0.05	±20%	CGA2B3X7R1H683M050BB	CGA2B3X7R1V683M050BB	CGA2B3X7R1E683M050BB
68nF	1608	0.80±0.10	±10%	CGA3E2X7R1H683K080AA		
	1000	0.60±0.10	±20%	CGA3E2X7R1H683M080AA		
	1005	0.50±0.05	±10%	CGA2B3X7R1H104K050BB	CGA2B3X7R1V104K050BB	CGA2B3X7R1E104K050BB
			±20%	CGA2B3X7R1H104M050BB	CGA2B3X7R1V104M050BB	CGA2B3X7R1E104M050BB
100nF	1608	0.80±0.10	±10%	CGA3E2X7R1H104K080AA		CGA3E2X7R1E104K080AA
	2012	1.25 . 0.20	±20%	CGA3E2X7R1H104M080AA		CGA3E2X7R1E104M080AA
	2012	1.25±0.20	±10% ±10%	CGA4J2X7R1H104K125AA	CGA2B1X7R1V154K050BC	CGA2B3X7R1E154K050BB
	1005	0.50±0.05	±10%		CGA2B1X7R1V154R050BC	CGA2B3X7R1E154M050BB
			±10%	CGA3E3X7R1H154K080AB	CGA3E3X7R1V154K080AB	CGA3E2X7R1E154K080AA
150nF	1608	0.80±0.10	±20%	CGA3E3X7R1H154M080AB	CGA3E3X7R1V154M080AB	CGA3E2X7R1E154M080AA
		105.000	±10%	CGA4J2X7R1H154K125AA		
	2012	1.25±0.20	±20%	CGA4J2X7R1H154M125AA		
	1005	0.50±0.05	±10%		CGA2B1X7R1V224K050BC	CGA2B3X7R1E224K050BB
	1005	0.30±0.03	±20%		CGA2B1X7R1V224M050BC	CGA2B3X7R1E224M050BB
220nF	1608	0.80±0.10	±10%	CGA3E3X7R1H224K080AB	CGA3E3X7R1V224K080AB	CGA3E1X7R1E224K080AC
		0.0020.10	±20%	CGA3E3X7R1H224M080AB	CGA3E3X7R1V224M080AB	CGA3E1X7R1E224M080AC
	2012	1.25±0.20	±10%	CGA4J2X7R1H224K125AA		CGA4J2X7R1E224K125AA
			±20%	CGA4J2X7R1H224M125AA	CC 40E1V7D1V004V0004C	CC 40E0V7D1E004K000AD
	1608	0.80±0.10	±10% ±20%	CGA3E3X7R1H334K080AB CGA3E3X7R1H334M080AB	CGA3E1X7R1V334K080AC CGA3E1X7R1V334M080AC	CGA3E3X7R1E334K080AB CGA3E3X7R1E334M080AB
330nF			±10%	CGA4J2X7R1H334K125AA	CGASETATTTVSS4WOOOAC	CGASESATTIESS4W000AB
	2012	1.25±0.20	±20%	CGA4J2X7R1H334M125AA		
			±10%	CGA3E3X7R1H474K080AB	CGA3E1X7R1V474K080AC	CGA3E3X7R1E474K080AB
	1608	0.80±0.10	±20%	CGA3E3X7R1H474M080AB	CGA3E1X7R1V474M080AC	CGA3E3X7R1E474M080AB
470nF	0010	1.05.0.00	±10%	CGA4J3X7R1H474K125AB	CGA4J3X7R1V474K125AB	CGA4J2X7R1E474K125AA
47011	2012	1.25±0.20	±20%	CGA4J3X7R1H474M125AB	CGA4J3X7R1V474M125AB	CGA4J2X7R1E474M125AA
	3216	1.60+0.30,-0.10	±10%	CGA5L2X7R1H474K160AA		
			±20%	CGA5L2X7R1H474M160AA		
	1608	0.80±0.10	±10%		CGA3E1X7R1V684K080AC	CGA3E1X7R1E684K080AC
			±20%	CC 44 IOV7D4LIC04K40E4D	CGA3E1X7R1V684M080AC	CGA3E1X7R1E684M080AC
680nF	2012	1.25±0.20	±10% ±20%	CGA4J3X7R1H684K125AB CGA4J3X7R1H684M125AB	CGA4J3X7R1V684K125AB CGA4J3X7R1V684M125AB	CGA4J3X7R1E684K125AB CGA4J3X7R1E684M125AB
			±20%	CGA5L2X7R1H684K160AA	CGA433X7111V004W112SAB	CGA433X7TTE004WT23AB
	3216	1.60+0.30,-0.10	±20%	CGA5L2X7R1H684M160AA		
			±10%		CGA3E1X7R1V105K080AC	CGA3E1X7R1E105K080AC
	1608	0.80±0.10	±20%		CGA3E1X7R1V105M080AC	CGA3E1X7R1E105M080AC
	2012	1.25 . 0.20	±10%	CGA4J3X7R1H105K125AB	CGA4J3X7R1V105K125AB	CGA4J3X7R1E105K125AB
1µF	2012	1.25±0.20	±20%	CGA4J3X7R1H105M125AB	CGA4J3X7R1V105M125AB	CGA4J3X7R1E105M125AB
īμī	3216	1.60+0.30,-0.10	±10%	CGA5L3X7R1H105K160AB		CGA5L2X7R1E105K160AA
			±20%	CGA5L3X7R1H105M160AB		CGA5L2X7R1E105M160AA
	3225	1.60±0.20	±10%	CGA6L2X7R1H105K160AA		
			±20%	CGA6L2X7R1H105M160AA	CCA4 HVZP4\/455V405AC	CC 44 IOVZD4 E4 EEV4 0 E 4 D
	2012	1.25±0.20	±10% ±20%	CGA4J3X7R1H155K125AB CGA4J3X7R1H155M125AB	CGA4J1X7R1V155K125AC CGA4J1X7R1V155M125AC	CGA4J3X7R1E155K125AB CGA4J3X7R1E155M125AB
-			±10%	CGA5L3X7R1H155K160AB	CGA5L3X7R1V155K160AB	CGA5L2X7R1E155K160AA
1.5µF	3216	1.60+0.30,-0.10	±20%	CGA5L3X7R1H155M160AB	CGA5L3X7R1V155M160AB	CGA5L2X7R1E155M160AA
		0.00	±10%	CGA6M2X7R1H155K200AA		
	3225	2.00±0.20	±20%	CGA6M2X7R1H155M200AA		
	4532	1.60±0.20	±10%	CGA8L2X7R1H155K160KA		
	2012	1.25. 0.20	±10%	CGA4J3X7R1H225K125AB	CGA4J1X7R1V225K125AC	CGA4J3X7R1E225K125AB
	2012	1.25±0.20	±20%	CGA4J3X7R1H225M125AB	CGA4J1X7R1V225M125AC	CGA4J3X7R1E225M125AB
	3216	1.60+0.30,-0.10	±10%	CGA5L3X7R1H225K160AB	CGA5L3X7R1V225K160AB	CGA5L2X7R1E225K160AA
2.2µF	J_10		±20%	CGA5L3X7R1H225M160AB	CGA5L3X7R1V225M160AB	CGA5L2X7R1E225M160AA
	3225	2.00±0.20	±10%	CGA6M3X7R1H225K200AB		
			±20%	CGA6M3X7R1H225M200AB		
	4532	1.60±0.20	±10%	CGA8L2X7R1H225K160KA		

■ Gray items: These products are not recommended for new designs. Click the part numbers for details.

Mease 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.



0	Dimensione	Thickness	Capacitance	Catalog number						
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 75V	Rated voltage Edc: 50V	Rated voltage Edc: 35V	Rated voltage Edc: 25V			
	0010	1.25±0.20	±10%			CGA4J1X7R1V335K125AC	CGA4J1X7R1E335K125AC			
	2012	1.25±0.20	±20%			CGA4J1X7R1V335M125AC	CGA4J1X7R1E335M125AC			
	3216	1.60+0.30,-0.10	±10%		CGA5L3X7R1H335K160AB	CGA5L1X7R1V335K160AC	CGA5L1X7R1E335K160AC			
3.3µF	3210	1.60+0.30,-0.10	±20%		CGA5L3X7R1H335M160AB	CGA5L1X7R1V335M160AC	CGA5L1X7R1E335M160AC			
	3225	2.50±0.30	±10%		CGA6P3X7R1H335K250AB					
	3223	2.30±0.30	±20%		CGA6P3X7R1H335M250AB					
	4532	2.00±0.20	±10%		CGA8M2X7R1H335K200KA					
	2012	1.25±0.20	±10%		CGA4J1X7R1H475K125AC	CGA4J1X7R1V475K125AC	CGA4J1X7R1E475K125AC			
	2012	1.25±0.20	±20%			CGA4J1X7R1V475M125AC	CGA4J1X7R1E475M125AC			
	3216	1.60+0.30,-0.10	±10%		CGA5L3X7R1H475K160AB	CGA5L1X7R1V475K160AC	CGA5L1X7R1E475K160AC			
	3210	1.60+0.30,-0.10	±20%		CGA5L3X7R1H475M160AB	CGA5L1X7R1V475M160AC	CGA5L1X7R1E475M160AC			
4 7	2005	0.50.0.00	±10%		CGA6P3X7R1H475K250AB					
4.7µF	3225	2.50±0.30	±20%		CGA6P3X7R1H475M250AB					
	4532	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			
		0 1.00+0.30,-0.10	±20%			CGA5L1X7R1V685M160AC	CGA5L1X7R1E685M160AC			
6.8µF	3225	2.50±0.30	±10%				CGA6P3X7R1E685K250AB			
ο.ομΓ			±20%				CGA6P3X7R1E685M250AB			
	4532	2.50±0.30	±10%		CGA8P3X7R1H685K250KB					
	5750	2.50±0.30	±10%		CGA9P2X7R1H685K250KA					
	3216	3216	2216	2216	1.60+0.30,-0.10	±10%		CGA5L1X7R1H106K160AC	CGA5L1X7R1V106K160AC	CGA5L1X7R1E106K160AC
			1.00+0.30,-0.10	±20%			CGA5L1X7R1V106M160AC	CGA5L1X7R1E106M160AC		
	3225	2.50±0.30	±10%				CGA6P1X7R1E106K250AC			
10μF		2.50±0.50	±20%	CGA6P1X7R1N106M250AC			CGA6P1X7R1E106M250AC			
	4532	2.50±0.30	±10%				CGA8P2X7R1E106K250KA			
	5750	2.00±0.20	±20%				CGA9M2X7R1E106M200KA			
	3730	2.30±0.20	±10%		CGA9N3X7R1H106K230KB					
	3225	2.00±0.20	±20%				CGA6M3X7R1E156M200AB			
15µF	4532	2.80±0.30	±20%				CGA8Q3X7R1E156M280KB			
	5750	2.30±0.20	±20%				CGA9N2X7R1E156M230KA			
	3225	2.50±0.30	±20%				CGA6P3X7R1E226M250AB			
22µF	4532	2.50±0.30	±20%				CGA8P1X7R1E226M250KC			
	5750	2.50±0.30	±20%	·	CGA9P3X7R1H226M250KB	·	CGA9P2X7R1E226M250KA			
47µF	5750	2.30±0.20	±20%				CGA9N3X7R1E476M230KB			

[■] Gray items: These products are not recommended for new designs. Click the part numbers for details.



Capacitance	Dimensions	Thickness	Capacitance	Catalog number	5	
		(mm)	tolerance ±10%	Rated voltage Edc: 16V CGA1A2X7R1C101K030BA	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V
100pF	0603	0.30±0.03	±10%	CGA1A2X7R1C101R030BA		
450-5	0000	0.00.000	±10%	CGA1A2X7R1C151K030BA		
150pF	0603	0.30±0.03	±20%	CGA1A2X7R1C151M030BA		
220pF	0603	0.30±0.03	±10%	CGA1A2X7R1C221K030BA		
·			±20%	CGA1A2X7R1C221M030BA		
330pF	0603	0.30±0.03	±10%	CGA1A2X7R1C331K030BA CGA1A2X7R1C331M030BA		
470.5	2222		±10%	CGA1A2X7R1C471K030BA		
470pF	0603	0.30±0.03	±20%	CGA1A2X7R1C471M030BA		
680pF	0603	0.30±0.03	±10%	CGA1A2X7R1C681K030BA		
·			±20%	CGA1A2X7R1C681M030BA		
1nF	0603	0.30±0.03	±10%	CGA1A2X7R1C102K030BA CGA1A2X7R1C102M030BA		
4.5-5	0000	0.00.000	±10%	CGA1A2X7R1C152K030BA		
1.5nF	0603	0.30±0.03	±20%	CGA1A2X7R1C152M030BA		
2.2nF	0603	0.30±0.03	±10%	CGA1A2X7R1C222K030BA		
			±20% ±10%	CGA1A2X7R1C222M030BA		
3.3nF	0603	0.30±0.03	±10%	CGA1A2X7R1C332K030BA CGA1A2X7R1C332M030BA		
47.5	0000	0.00.000	±10%	CGA1A2X7R1C472K030BA		
4.7nF	0603	0.30±0.03	±20%	CGA1A2X7R1C472M030BA		
6.8nF	0603	0.30±0.03	±10%	CGA1A2X7R1C682K030BA		
			±20%	CGA1A2X7R1C682M030BA	CC 4.1 4.0 V 7.D.1 4.10.0 V 0.0.0 D.4	CC 4 1 40 V 7 DO 11 00 V 00 0 D A
10nF	0603	0.30±0.03	±10% ±20%		CGA1A2X7R1A103K030BA CGA1A2X7R1A103M030BA	CGA1A2X7R0J103K030BA CGA1A2X7R0J103M030BA
	1005	0.50.005	±10%	CGA2B2X7R1C333K050BA	od////E//////od//od/	odi i i iziri i odi odi i odi odi odi odi odi odi od
33nF	1005	0.50±0.05	±20%	CGA2B2X7R1C333M050BA		
47nF	1005	0.50±0.05	±10%	CGA2B2X7R1C473K050BA		
-			±20%	CGA2B2X7R1C473M050BA		
68nF	1005	0.50±0.05	±10% ±20%	CGA2B1X7R1C683K050BC CGA2B1X7R1C683M050BC		
100 5	1005	0.50.005	±10%	CGA2B1X7R1C104K050BC		
100nF	1005	0.50±0.05	±20%	CGA2B1X7R1C104M050BC		
150nF	1005	0.50±0.05	±10%	CGA2B2X7R1C154K050BA	CGA2B1X7R1A154K050BC	CGA2B3X7R0J154K050BB
			±20%	CGA2B2X7R1C154M050BA	CGA2B1X7R1A154M050BC	CGA2B3X7R0J154M050BB
	1005	0.50±0.05	±10% ±20%	CGA2B2X7R1C224K050BA CGA2B2X7R1C224M050BA	CGA2B1X7R1A224K050BC CGA2B1X7R1A224M050BC	CGA2B3X7R0J224K050BB CGA2B3X7R0J224M050BB
220nF	4000	0.00.040	±10%	CGA3E2X7R1C224K080AA		
	1608	0.80±0.10	±20%	CGA3E2X7R1C224M080AA		
330nF	1608	0.80±0.10	±10%	CGA3E1X7R1C334K080AC		
-			±20%	CGA3E1X7R1C334M080AC		
470nF	1608	0.80±0.10	±10% ±20%	CGA3E1X7R1C474K080AC CGA3E1X7R1C474M080AC		
	2012	1.25±0.20	±10%	CGA4J2X7R1C474K125AA		
	1608	0.80±0.10	±10%	CGA3E1X7R1C684K080AC		
680nF	1000	0.00±0.10	±20%	CGA3E1X7R1C684M080AC		
	2012	1.25±0.20	±10% ±20%	CGA4J2X7R1C684K125AA CGA4J2X7R1C684M125AA		
-			±20%	CGA3E1X7R1C105K080AC		
1	1608	0.80±0.10	±20%	CGA3E1X7R1C105M080AC		
1μF -	2012	1.25±0.20	±10%	CGA4J2X7R1C105K125AA		
	2012	1.2020.20	±20%	CGA4J2X7R1C105M125AA		
	1608	0.80±0.10	±10% ±20%			CGA3E1X7R0J155K080AC CGA3E1X7R0J155M080AC
1.5µF			±20%	CGA4J3X7R1C155K125AB		COASETATHOSTSSWOODAC
	2012	1.25±0.20	±20%	CGA4J3X7R1C155M125AB		
	1608	0.80±0.10	±10%			CGA3E1X7R0J225K080AC
2.2µF	1008	0.00±0.10	±20%	0044107704000517405		CGA3E1X7R0J225M080AC
рі	2012	1.25±0.20	±10% ±20%	CGA4J3X7R1C225K125AB		
			±20% ±10%	CGA4J3X7R1C225M125AB CGA4J3X7R1C335K125AB	CGA4J3X7R1A335K125AB	
3.3µF	2012	1.25±0.20	±20%	CGA4J3X7R1C335M125AB		
	2012	1.25±0.20	±10%	CGA4J3X7R1C475K125AB	CGA4J3X7R1A475K125AB	
4.7µF	2012		±20%	CGA4J3X7R1C475M125AB		
	3216	1.60+0.30,-0.10	±10%	CGA5L3X7R1C475K160AB CGA5L3X7R1C475M160AB		
			±∠U //0	OGAJEJA/HTO4/BIVITOUAB		

[■] Gray item: The product is not recommended for a new design. Click the part numbers for details.

Mease 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.



Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 16V	Rated voltage Edc: 6.3V
		(11111)	±10%	hateu voitage Euc. 10v	CGA4J1X7R0J685K125AC
	2012	1.25±0.20			
6.8µF			±20%		CGA4J1X7R0J685M125AC
- · · · · · · · · · · · · · · · · · · ·	3216	1.60+0.300.10	±10%	CGA5L1X7R1C685K160AC	
	3210	1.00+0.30,-0.10	±20%	CGA5L1X7R1C685M160AC	
	2012	1.05.0.00	±10%		CGA4J1X7R0J106K125AC
		1.25±0.20	±20%		CGA4J1X7R0J106M125AC
405	3216 3225	1.00.000.010	±10%	CGA5L1X7R1C106K160AC	
10μF		1.60+0.30,-0.10	±20%	CGA5L1X7R1C106M160AC	
		0.00.000	±10%	CGA6M3X7R1C106K200AB	
		3225	2.00±0.20	±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 is not recommended for a new design. Click the part numbers for details.



0:	Dimensions	Thickness	Capacitance	Catalog number			
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V	
330nF	1005	0.50±0.05	±10%			CGA2B1X7S1C334K050BC	
33011	1005	0.50±0.05	±20%			CGA2B1X7S1C334M050BC	
470nF	1005	0.50.005	±10%			CGA2B1X7S1C474K050BC	
470NF	1005	0.50±0.05	±20%			CGA2B1X7S1C474M050BC	
1.505	1000	0.00.040	±10%			CGA3E1X7S1C155K080AC	
1.5µF	1608	0.80±0.10	±20%			CGA3E1X7S1C155M080AC	
0.0	1608	0.00.040	±10%			CGA3E1X7S1C225K080AC	
2.2µF		0.80±0.10	±20%			CGA3E1X7S1C225M080AC	
4.7µF	3225	2.30±0.20	±10%	CGA6N3X7S1H475K230AB			
	2012	2012 1.25±0.20	±10%			CGA4J1X7S1C685K125AC	
C 0E			±20%			CGA4J1X7S1C685M125AC	
6.8µF	3225	0005	0.50.000	±10%	CGA6P3X7S1H685K250AB		
		2.50±0.30	±20%	CGA6P3X7S1H685M250AB			
	2010	1.25+0.20	±10%		CGA4J1X7S1E106K125AC	CGA4J1X7S1C106K125AC	
10uE	2012	1.20±0.20	±20%			CGA4J1X7S1C106M125AC	
10μF	2005	2 50 . 0 20	±10%	CGA6P3X7S1H106K250AB			
	3225	2.50±0.30	±20%	CGA6P3X7S1H106M250AB			

 $[\]blacksquare$ Gray item: The product is not recommended for a new design. Click the part numbers for details.

Canacitanaa	Dimonoiono	Thickness	Capacitance	Catalog number		
Capacitance Dimension		(mm)	tolerance	Rated voltage Edc: 10V	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
330nF	1005	0.50±0.05	±10%	CGA2B3X7S1A334K050BB		
330111	1005	0.50±0.05	±20%	CGA2B3X7S1A334M050BB		
470nF	1005	0.50±0.05	±10%	CGA2B3X7S1A474K050BB		
47011	1005	0.50±0.05	±20%	CGA2B3X7S1A474M050BB		
1.5	1000	0.00.0.10	±10%	CGA3E3X7S1A155K080AB		
1.5µF	1608	0.80±0.10	±20%	CGA3E3X7S1A155M080AB		
2 205	1608	0.80±0.10	±10%	CGA3E3X7S1A225K080AB		
2.2µF		0.60±0.10	±20%	CGA3E3X7S1A225M080AB		
C 0E	2012	1.05.0.00	±10%	CGA4J3X7S1A685K125AB		
6.8µF		1.25±0.20	±20%	CGA4J3X7S1A685M125AB		
	1608	0.80+0.30,-0.10	±20%			CGA3E1X7S0G106M080AC
10μF	0010	1.25±0.20	±10%	CGA4J3X7S1A106K125AB		
	2012	1.25±0.20	±20%	CGA4J3X7S1A106M125AB		
15µF	3216	1.60+0.30,-0.10	±20%	CGA5L1X7S1A156M160AC		
22µF	3216	1.60+0.30,-0.10	±20%	CGA5L1X7S1A226M160AC		
20	2005	2.00±0.20	±20%	CGA6M1X7S1A336M200AC		
33µF	3225	2.50±0.30	±20%		CGA6P1X7S0J336M250AC	
47µF	3225	2.50±0.30	±20%	CGA6P1X7S1A476M250AC	CGA6P1X7S0J476M250AC	

[■] Gray items: These products are not recommended for new designs. Click the part numbers for details.

Capacitance range table Temperature characteristic: X7T (-55 to +125°C, +22, -33%)

Capacitance	Dimonoiono	Thickness	Capacitance	Catalog number	
Сараспансе	Difficusions	(mm)	tolerance	Rated voltage Edc: 6.3V	Rated voltage Edc: 4V
100nF	0603	0.30+0.10,-0.03	±20%		CGA1A1X7T0G104M030BC
1µF	1005	0.50+0.10,-0.05	±20%		CGA2B1X7T0G105M050BC
10μF	1608	0.80+0.30,-0.10	±20%		CGA3E1X7T0G106M080AC
22µF	2012	1.25+0.30,-0.15	±20%	CGA4J1X7T0J226M125AC	
47μF	3216	1.60+0.40,-0.10	±20%		CGA5L1X7T0G476M160AC

Click the part numbers for details.

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