

February 2019

MULTILAYER CERAMIC CHIP CAPACITORS

Commercial grade, MEGACAP type

CKG series

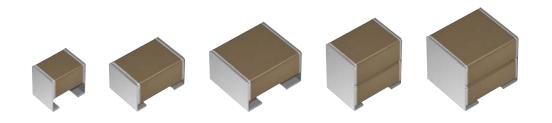
Single type

CKG32K	3225 [1210 inch]
CKG45K	4532 [1812 inch]
CKG57K	5750 [2220 inch]

Stacked type

CKG45N	4532 [1812 inch]
CKG57N	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 general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

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 (cars, 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

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CKG series

MEGACAP type



Type: CKG32K/ 3225 [1210 inch], CKG45K/ 4532 [1812 inch], CKG57K/5750 [2220 inch], CKG45N/ 4532 [1812 inch], CKG57N/ 5750 [2220 inch]

SERIES OVERVIEW

TDK multilayer ceramic chip capacitor CKG series is a product which metal frames are connected to terminations of MLCC, and it is also called MEGACAP.

MEGACAP has higher mechanical endurance by the flexible metal frame structure which absorbs thermal and mechanical stress. Also the stacked type is effective in mounting area reduction because twice capacitance is realized by double-stacked structure without changing footprint.

FEATURES

- Higher mechanical endurance is realized by metal frame structure.
- Twice capacitance is realized by double-stacked structure without changing footprint.
- Lower ESR and ESL than AI caps.
- C0G temperature characteristic which has excellent stable temperature and DC-bias characteristcs is applicable.

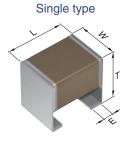
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• Mounting on Al board is applicable.

APPLICATIONS

- · Smoothing circuits
- DC-DC converters, inverters, battery chargers
- The places where AI electrolytic or Film capacitor is not suitable because of higher ESR/ESL, heat resistivity, or its size.
- Areas where electrolytic capacitors or film capacitors cannot be placed due to high temperatures (e.g., IGBT) around them.
- The COG temperature characteristic is suitable for the high-reliability circuits such as time constant, filter, resonance, oscillation and snubber circuits.

SHAPE & DIMENSIONS



Stacked type
T

L	Body length
W	Body width
Т	Body height
Е	Metal-frame width

L	Body length
W	Body width
Т	Body height
Е	Metal-frame width

			D	imensions in mm
Туре	L	W	т	E
CKG32K	3.60±0.30	2.60±0.30	3.35±0.10	0.80±0.15
CKG45K	5.00±0.50	3.50±0.50	2.90±0.10	1.10±0.30
CKG57K	6.00±0.50	5.00±0.50	3.35±0.15	1.60±0.30
CKG45N	5.00±0.50	3.50±0.50	5.00±0.50	1.10±0.30
CKG57N	6.00±0.50	5.00±0.50	5.00±0.50	1.60±0.30

*Dimensional tolerances are typical values.

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.

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CATALOG NUMBER CONSTRUCTION CKG 57 Ν X7R 1E 107 Μ 500 J н (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Series

(2) Dimensions L x W (mm)

Code	EIA	Length	Width	Metal frame width
32	CC1210	3.60	2.60	0.80
45	CC1812	5.00	3.50	1.10
57	CC2220	6.00	5.00	1.60

(3) Structure

Code	Description
K	Single type
N	Stacked type

(4) Temperature characteristics

Temperature characteristics	Temperature coefficient or capacitance change	Temperature range
COG	0±30ppm/°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

(5) Rated voltage (DC)

Code	Voltage (DC)
1C	16V
1E	25V
1H	50V
2A	100V
2E	250V
2W	450V
2J	630V
ЗA	1000V

(6) 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 = 2.2µF

(7) Capacitance tolerance

Code	Tolerance	
J	± 5%	
K	± 10%	
М	± 20%	

(8) Thickness

Code	Thickness
290	2.90 mm
335	3.35 mm
500	5.00 mm

(9) Packaging style

Code	Style
A	178mm reel, 4mm pitch
J	330mm reel, 8mm pitch

(10) Special reserved code

Code	Description
Н	MEGACAP type

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Capacitance range chart

CKG32K/ 3225 [1210 inch], Single type

Capacita	ince	T .1			C0G					X7R			X7	7S		X7T	
(pF)	Code	Tolerance	3A (1kV)	2J (630V)	2W (450V)	2E (250V)	2A (100V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	2A (100V)	1H (50V)	2J (630V)	2W (450V)	2E (250V)
1,000	102	J: ±5%															
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	C0G ;															
68,000	683	J: ±5%															
100,000	104																
150,000	154	X7R, X7S,															
220,000	224	X7T ;															
330,000	334	K: ±10%															
470,000	474	M: ±20%															
1,000,000	105																
2,200,000	225																
3,300,000	335																
4,700,000	475																
6,800,000	685																
10,000,000	106																

Standard thickness 3.35 mm

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

Please refer to the capacitance range table at P-9 and after for the details such as product thickness and capacitance tolerance.

Capacitance range chart

CKG45K/ 4532 [1812 inch], Single type

Capacita	ance			C0G				X7	′R				X7S			X7T	
(pF)	Code	Tolerance	2J (630V)	2W (450V)	2E (250V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V
33,000	333	J: ±5%															
47,000	473																
68,000	683																
100,000	104	K: ±10%															
150,000	154	M: ±20%													-		
220,000	224																
330,000	334																
470,000	474																
680,000																	-
1,000,000	105																
1,500,000	155																
2,200,000	225																
3,300,000	335											-					
4,700,000	475																
10,000,000	106	Mt + 209/									-						
22,000,000	226	M: ±20%															

Please refer to the capacitance range table at P-9 and after for the details such as product thickness and capacitance tolerance.

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Capacitance range chart

CKG57K/ 5750 [2220 inch], Single type

Capacita	ance	- .	CC	G			X7	'R				X7S			X7T	
(pF)	Code	Tolerance	2J (630V)	2E (250V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)
68,000	683	J: ±5%														
150,000	154															
220,000	224	K: ±10%														
330,000	334	M: ±20%														
470,000	474															
680,000	684															
1,000,000	105															
1,500,000	155															
2,200,000	225															
3,300,000	335															
4,700,000	475															
6,800,000	685											_				
10,000,000	106															
15,000,000	156	M: ±20%														
22,000,000	226															
47,000,000	476															

Please refer to the capacitance range table at P-9 and after for the details such as product thickness and capacitance tolerance.

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Capacitance range chart

CKG45N/ 4532 [1812 inch], Stacked type

Capacitan	се			C0G		X5	ōR			X7	7R		
(pF)	Code	Tolerance	2J (630V)	2W (450V)	2E (250V)	1H (50V)	1C (16V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
66,000	663	J: ±5%											
94,000	943												
140,000	144	K: ±10%											
220,000	224	M: ±20%											
470,000	474												
1,000,000	105												
2,200,000	225												
3,300,000	335												
4,700,000	475												
6,800,000	685												
10,000,000	106												
22,000,000	226												
47,000,000	476												

Capacitan	се	The		X7S			X7T		
(pF)	Code	Tolerance	2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)	
330,000	334	M: ±20%							
470,000	474								
680,000	684								
1,000,000	105								
1,500,000	155								
2,200,000	225								
6,800,000	685								Otomological the later and
10,000,000	106								Standard thickness
47,000,000	476	1							5.00 mm

Please refer to the capacitance range table at P-9 and after for the details such as product thickness and capacitance tolerance.

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Capacitance range chart

CKG57N/ 5750 [2220 inch], Stacked type

Capacitan	се	T .1	C)G		X5	ōR				X7	'R		
(pF)	Code	Tolerance	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
140,000	144	K: ±10%												
300,000	304	J: ±5%												
470,000	474	M: ±20%												
1,000,000	105													
2,200,000	225													
4,700,000	475													
10,000,000	106													
22,000,000	226													
33,000,000	336													
47,000,000	476													
100,000,000	107													

Capacitan	се	T 1		X	7S			X7T		
(pF)	Code	Tolerance	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)	
680,000	684	M: ±20%								
1,000,000	105									
1,500,000	155									
2,200,000	225									
3,300,000	335									
22,000,000	226									Otomological thick manage
47,000,000	476									Standard thickness
100,000,000	107]								5.00 mm

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

Please refer to the capacitance range table at P-9 and after for the details such as product thickness and capacitance tolerance.

(8/12)

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Capacitance range table

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

Capacitance	Dimensions	Thickness	Capacitance	Catalog number				
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 1kV	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V	Rated voltage Edc: 100V
1nF	3225	3.35±0.10	±5%	CKG32KC0G3A102J335AH				
1.2nF	3225	3.35±0.10	±5%	CKG32KC0G3A122J335AH				
1.5nF	3225	3.35±0.10	±5%	CKG32KC0G3A152J335AH				
1.8nF	3225	3.35±0.10	±5%	CKG32KC0G3A182J335AH				
2.2nF	3225	3.35±0.10	±5%	CKG32KC0G3A222J335AH				
2.7nF	3225	3.35±0.10	±5%	CKG32KC0G3A272J335AH				
3.3nF	3225	3.35±0.10	±5%	CKG32KC0G3A332J335AH				
3.9nF	3225	3.35±0.10	±5%	CKG32KC0G3A392J335AH				
4.7nF	3225	3.35±0.10	±5%	CKG32KC0G3A472J335AH				
5.6nF	3225	3.35±0.10	±5%	CKG32KC0G3A562J335AH				
6.8nF	3225	3.35±0.10	±5%	CKG32KC0G3A682J335AH				
8.2nF	3225	3.35±0.10	±5%	CKG32KC0G3A822J335AH				
10nF	3225	3.35±0.10	±5%	CKG32KC0G3A103J335AH				
15nF	3225	3.35±0.10	±5%	CKG32KC0G3A153J335AH				
22nF	3225	3.35±0.10	±5%	CKG32KC0G3A223J335AH	CKG32KC0G2J223J335AH	CKG32KC0G2W223J335AH		
33nF	3225	3.35±0.10	±5%		CKG32KC0G2J333J335AH	CKG32KC0G2W333J335AH	CKG32KC0G2E333J335AH	
0011	4532	2.90±0.10	±5%		CKG45KC0G2J333J290JH			
47nF	3225	3.35±0.10	±5%				CKG32KC0G2E473J335AH	
4711	4532	2.90±0.10	±5%			CKG45KC0G2W473J290JH		
66nF	4532	5.00±0.50	±5%		CKG45NC0G2J663J500JH			
	3225	3.35±0.10	±5%					CKG32KC0G2A683J335AH
68nF	4532	2.90±0.10	±5%				CKG45KC0G2E683J290JH	
	5750	3.35±0.15	±5%		CKG57KC0G2J683J335JH			
94nF	4532	5.00±0.50	±5%			CKG45NC0G2W943J500JH		
140nF	4532	5.00±0.50	±10%				CKG45NC0G2E144K500JH	
14011	5750	5.00±0.50	±10%		CKG57NC0G2J144K500JH			
150nF	5750	3.35±0.15	±5%				CKG57KC0G2E154J335JH	
300nF	5750	5.00±0.50	±5%				CKG57NC0G2E304J500JH	

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

Capacitance range table

Temperature characteristics: X5R (-55 to +85°C, ±15%)

Capacitance	Dimensions	Thickness (mm)	Capacitance tolerance	Catalog number Rated voltage Edc: 100V	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
10	4532	5.00±0.50	±20%		CKG45NX5R1H106M500JH		
10µF	5750	5.00±0.50	±20%	CKG57NX5R2A106M500JH			
22µF	5750	5.00±0.50	±20%		CKG57NX5R1H226M500JH		
47.5	4532	5.00±0.50	±20%				CKG45NX5R1C476M500JH
47µF	5750	5.00±0.50	±20%			CKG57NX5R1E476M500JH	
100µF	5750	5.00±0.50	±20%				CKG57NX5R1C107M500JH

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

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MULTILAYER CERAMIC CHIP CAPACITORS

Capacitance range table

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

Canacitanco	Dimensions	Thickness	Capacitance	Catalog number				
Capacitance	Dimensions	(mm)	tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 250V	Rated voltage Edc: 100V	Rated voltage Edc: 50V	
47nF	3225	3.35±0.10	±10%	CKG32KX7R2J473K335AH				
	3223		±20%	CKG32KX7R2J473M335AH				
100nF	3225	3.35±0.10	±10%		CKG32KX7R2E104K335AH			
	3223		±20%		CKG32KX7R2E104M335AH			
	4532	2.90±0.10	±10%	CKG45KX7R2J104K290JH				
	4002		±20%	CKG45KX7R2J104M290JH				
	3225	3.35±0.10	±10%		CKG32KX7R2E224K335AH			
			±20%		CKG32KX7R2E224M335AH			
		2.90±0.10	±10%		CKG45KX7R2E224K290JH			
220nF	4532		±20%		CKG45KX7R2E224M290JH			
	-	5.00±0.50	±20%	CKG45NX7R2J224M500JH				
	5750	5750 3.35±0.15	±10%	CKG57KX7R2J224K335JH				
	5750		±20%	CKG57KX7R2J224M335JH				
	3225	3225 3.35±0.10	±10%			CKG32KX7R2A474K335AH		
			±20%			CKG32KX7R2A474M335AH		
	4532	2.90±0.10	±10%		CKG45KX7R2E474K290JH			
170.5			±20%		CKG45KX7R2E474M290JH			
470nF		5.00±0.50	±20%		CKG45NX7R2E474M500JH			
	5750	3.35±0.15	±10%		CKG57KX7R2E474K335JH			
			±20%		CKG57KX7R2E474M335JH			
		5.00±0.50	±20%	CKG57NX7R2J474M500JH				
	0005	0.05.0.40	±10%			CKG32KX7R2A105K335AH	CKG32KX7R1H105K335AI	
	3225	3.35±0.10	±20%			CKG32KX7R2A105M335AH	CKG32KX7R1H105M335A	
		2.90±0.10	±10%			CKG45KX7R2A105K290JH		
	4532		±20%			CKG45KX7R2A105M290JH		
1μF		5.00±0.50	±20%		CKG45NX7R2E105M500JH			
		3.35±0.15	±10%		CKG57KX7R2E105K335JH	CKG57KX7R2A105K335JH		
	5750		±20%		CKG57KX7R2E105M335JH	CKG57KX7R2A105M335JH		
			-	5.00±0.50	±20%		CKG57NX7R2E105M500JH	
	4532		±10%				CKG45KX7R1H155K290JH	
1.5µF			±20%				CKG45KX7R1H155M290JH	
2.2µF	3225	5 3.35±0.10	±10%			CKG32KX7R2A225K335AH		
			±20%			CKG32KX7R2A225M335AH		
	4532	2.90±0.10	±10%			CKG45KX7R2A225K290JH		
			±20%			CKG45KX7R2A225M290JH		
		5.00±0.50	±20%			CKG45NX7R2A225M500JH		
	5750		±10%			CKG57KX7R2A225K335JH		
		3.35±0.15	±10%			CKG57KX7R2A225M335JH		
		5.00±0.50	±20%		CKG57NX7R2E225M500JH	CKG57NX7R2A225M500JH		
		J.00±0.30	±20/0		ONGOTINATIZEZZUW0000H	UKGJ/NA/HZAZZJWJJUUJH		

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Capacitance range table

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

Conocitoroo	Dimensions	sions Thickness (mm)	Capacitance	Catalog number							
Capacitance			tolerance	Rated voltage Edc: 100V	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V				
3.3µF	4532	2.90±0.10	±10%		CKG45KX7R1H335K290JH						
			±20%		CKG45KX7R1H335M290JH						
		5.00±0.50	±20%		CKG45NX7R1H335M500JH						
	5750	3.35±0.15	±10%	CKG57KX7R2A335K335JH							
			±20%	CKG57KX7R2A335M335JH							
	3225	3.35±0.10	±10%			CKG32KX7R1E475K335AH					
	3225		±20%			CKG32KX7R1E475M335AH					
	4532	2.90±0.10	±10%			CKG45KX7R1E475K290JH					
4.7µF			±20%			CKG45KX7R1E475M290JH					
4.7µF		5.00±0.50	±20%	CKG45NX7R2A475M500JH							
	5750	3.35±0.15	±10%	CKG57KX7R2A475K335JH	CKG57KX7R1H475K335JH						
			±20%	CKG57KX7R2A475M335JH	CKG57KX7R1H475M335JH						
		5.00±0.50	±20%	CKG57NX7R2A475M500JH							
6.8µF	4532	5.00±0.50	±20%		CKG45NX7R1H685M500JH						
	3225	3.35±0.10	±10%			CKG32KX7R1E106K335AH					
			±20%			CKG32KX7R1E106M335AH					
	4532	2.90±0.10	±10%				CKG45KX7R1C106K290JH				
10µF			±20%				CKG45KX7R1C106M290JH				
τομε		5.00±0.50	±20%			CKG45NX7R1E106M500JH					
	5750	3.35±0.15	±10%			CKG57KX7R1E106K335JH					
		5750	5750	5750	5750	3.35±0.15	±20%			CKG57KX7R1E106M335JH	
				5.00±0.50	±20%	CKG57NX7R2A106M500JH	CKG57NX7R1H106M500JH				
15µF	5750	3.35±0.15	±20%				CKG57KX7R1C156M335JH				
22µF	4532 -	2.90±0.10	±20%				CKG45KX7R1C226M290JH				
		5.00±0.50	±20%				CKG45NX7R1C226M500JH				
	5750 -	3.35±0.15	±20%			CKG57KX7R1E226M335JH					
		5.00±0.50	±20%			CKG57NX7R1E226M500JH					
33µF	5750	5.00±0.50	±20%				CKG57NX7R1C336M500JH				
47µF	5750	3.35±0.15	±20%			CKG57KX7R1E476M335JH					
100µF	5750	5.00±0.50	±20%			CKG57NX7R1E107M500JH					

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

Capacitance range table

Temperature characteristics: X7S (-55 to +125°C, ±22%)

Conseitence	Dimensions	ions Thickness (mm)	Capacitance	Catalog number			
Capacitance	Dimensions		tolerance	Rated voltage Edc: 100V	Rated voltage Edc: 50V	Rated voltage Edc: 25V	Rated voltage Edc: 16V
3.3µF	3225	3.35±0.10	±10%	CKG32KX7S2A335K335AH			
			±20%	CKG32KX7S2A335M335AH			
	4532	2.90±0.10	±10%	CKG45KX7S2A335K290JH			
			±20%	CKG45KX7S2A335M290JH			
	3225	3.35±0.10	±10%	CKG32KX7S2A475K335AH	CKG32KX7S1H475K335AH		
4 7.5			±20%	CKG32KX7S2A475M335AH	CKG32KX7S1H475M335AH		
4.7µF	4532	2 2.90±0.10	±10%	CKG45KX7S2A475K290JH	CKG45KX7S1H475K290JH		
			±20%	CKG45KX7S2A475M290JH	CKG45KX7S1H475M290JH		
	3225	3.35±0.10	±10%		CKG32KX7S1H685K335AH		
			±20%		CKG32KX7S1H685M335AH		
6.8µF	4532	5.00±0.50	±20%	CKG45NX7S2A685M500JH			
	5750	3.35±0.15	±10%	CKG57KX7S2A685K335JH			
			±20%	CKG57KX7S2A685M335JH			
	3225	3.35±0.10	±10%		CKG32KX7S1H106K335AH		
			±20%		CKG32KX7S1H106M335AH		
10µF	4532	5.00±0.50	±20%	CKG45NX7S2A106M500JH	CKG45NX7S1H106M500JH		
	5750	3.35±0.15	±10%	CKG57KX7S2A106K335JH	CKG57KX7S1H106K335JH		
			±20%	CKG57KX7S2A106M335JH	CKG57KX7S1H106M335JH		
15µF	5750	3.35±0.15	±20%	CKG57KX7S2A156M335JH			
2011E	4532	2.90±0.10	±20%				CKG45KX7S1C226M290JH
22µF	5750	5.00±0.50	±20%	CKG57NX7S2A226M500JH	CKG57NX7S1H226M500JH		
	4532	5.00±0.50	±20%				CKG45NX7S1C476M500JH
47µF	5750 -	3.35±0.15	±20%				CKG57KX7S1C476M335JH
	5750 -	5.00±0.50	±20%			CKG57NX7S1E476M500JH	
100µF	5750	5.00±0.50	±20%				CKG57NX7S1C107M500JH

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.

Capacitance range table

Temperature characteristics: X7T (-55 to +125°C, +22, -33%)

`anaaitan	Dimensions	Thickness (mm)	Capacitance	Catalog number				
лараспансе			tolerance	Rated voltage Edc: 630V	Rated voltage Edc: 450V	Rated voltage Edc: 250V		
100nF	3225	3.35±0.10	±10%	CKG32KX7T2J104K335AH				
TUUIIF	3223	3.35±0.10	±20%	CKG32KX7T2J104M335AH				
150nF	3225	2 25 0 10	±10%	CKG32KX7T2J154K335AH				
	3225	3.35±0.10	±20%	CKG32KX7T2J154M335AH				
13011	4532	2.90±0.10	±10%	CKG45KX7T2J154K290JH				
		2.90±0.10	±20%	CKG45KX7T2J154M290JH				
	3225	3.35±0.10	±10%		CKG32KX7T2W224K335AH			
220nF			±20%		CKG32KX7T2W224M335AH			
22011	4532	2.90±0.10	±10%	CKG45KX7T2J224K290JH				
			±20%	CKG45KX7T2J224M290JH				
	3225	3.35±0.10	±10%			CKG32KX7T2E334K335AF		
			±20%			CKG32KX7T2E334M335AF		
		2.90±0.10	±10%		CKG45KX7T2W334K290JH			
330nF	4532		±20%		CKG45KX7T2W334M290JH			
		5.00±0.50	±20%	CKG45NX7T2J334M500JH				
	5750	2 25 0 15	±10%	CKG57KX7T2J334K335JH				
	5750	3.35±0.15	±20%	CKG57KX7T2J334M335JH				
	4532	2.90±0.10	±10%		CKG45KX7T2W474K290JH			
			±20%		CKG45KX7T2W474M290JH			
470nF		5.00±0.50	±20%	CKG45NX7T2J474M500JH				
	5750	3.35±0.15	±10%	CKG57KX7T2J474K335JH				
			±20%	CKG57KX7T2J474M335JH				
	4532	2.90±0.10	±10%			CKG45KX7T2E684K290JH		
			±20%			CKG45KX7T2E684M290JH		
680nF		5.00±0.50	±20%		CKG45NX7T2W684M500JH			
00011	5750	3.35±0.15	±10%		CKG57KX7T2W684K335JH			
			±20%		CKG57KX7T2W684M335JH			
		5.00±0.50	±20%	CKG57NX7T2J684M500JH				
	4532	4532 _	2.90±0.10	±10%			CKG45KX7T2E105K290JH	
			4532	2.30±0.10	±20%			CKG45KX7T2E105M290JH
1µF				5.00±0.50	±20%		CKG45NX7T2W105M500JH	
ιμι	5750 _		3.35±0.15	±10%		CKG57KX7T2W105K335JH		
		5750 3.35±0.15	±20%		CKG57KX7T2W105M335JH			
		5.00±0.50	±20%	CKG57NX7T2J105M500JH				
1.5µF	4532	5.00±0.50	±20%			CKG45NX7T2E155M500JH		
	5750	5750 3.35±0.15	±10%			CKG57KX7T2E155K335JH		
			±20%			CKG57KX7T2E155M335JH		
		5.00±0.50	±20%		CKG57NX7T2W155M500JH			
	4532	5.00±0.50	±20%			CKG45NX7T2E225M500JH		
2.2µF	5750	5750 3.35±0.15	±10%			CKG57KX7T2E225K335JH		
			±20%			CKG57KX7T2E225M335JH		
	-	5.00±0.50	±20%		CKG57NX7T2W225M500JH			
3.3µF	5750	5.00±0.50	±20%			CKG57NX7T2E335M500JH		

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