



## MULTILAYER CERAMIC CHIP CAPACITORS

### CKG Series Automotive Grade MEGACAP Type

Type:

CKG32K [EIA CC1210]  
CKG45K [EIA CC1812]  
CKG45N [EIA CC1812]  
CKG57K [EIA CC2220]  
CKG57N [EIA CC2220]

Issue date:  
Oct 2015



## REMINDERS

Please read before using this product

### SAFETY REMINDERS



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(Example)

Catalog Issued date	Catalog Number	Item Description (On Delivery Label)
Prior to January 2013	C1608C0G1E103J	C1608C0G1E103JT000N
January 2013 and Later	C1608C0G1E103J080AA	C1608C0G1E103JT000N



## CKG Series MEGACAP Type

Type: CKG32K [EIA CC1210], CKG45K [EIA CC1812],  
CKG45N [EIA CC1812], CKG57K [EIA CC2220], CKG57N [EIA CC2220]



### Features



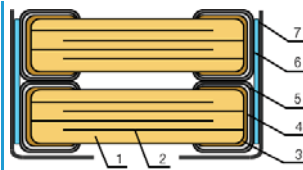
- Adopts a double-stacked structure that realizes twice as much capacitance as that of the existing products without changing the capacitor footprint.
- Lower ESR and ESL than Al caps.
- Capable of absorbing thermal and mechanical stress.
- Improved vibration performance.
- AEC-Q200 compliant.

### Applications



- Automotive application (EPS, ABS, EV, HEV, LED lighting etc.) -effect countermeasure
- Smoothing circuits
- DC-DC converters
- LED, HID applications
- Temperature variable applications
- Piezoelectric

### Design Structure



No.	NAME	MATERIAL	
		Class 1	Class 2
(1)	Ceramic Dielectric	CaZrO <sub>3</sub>	BaTiO <sub>3</sub>
(2)	Internal Electrode	Nickel (Ni)	
(3)	Termination	Copper (Cu)	
(4)		Nickel (Ni)	
(5)		Tin (Sn)	
(6)	Metal Cap Joint	High Temp Solder	
(7)	Metal Cap	42 Alloy	

### Shape & Dimensions



Single Type		Stacked Type	
L	Body Length	L	Body Length
W	Body Width	W	Body Width
T	Body Height	T	Body Height
E	Metal Terminal Width	E	Metal Terminal Width



### Catalog Number Construction

**CKG • 57 • N • X7S • 1C • 107 • M • 500 • J • J**

#### Series Name

#### Dimensions L x W (mm)

Code	Length	Width	Metal Terminal
32	3.60 ± 0.30	2.60 ± 0.30	0.80 ± 0.15
45	5.00 ± 0.50	3.50 ± 0.50	1.10 ± 0.30
57	6.00 ± 0.50	5.00 ± 0.50	1.60 ± 0.30

#### Structure

Code	Description
K	Single Type
N	Stacked Type

#### 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

#### Rated Voltage (DC)

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

#### 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.

Ex. 105 = 1,000,000pF = 1,000nF = 1μF; 107 = 100,000,000pF = 100,000nF = 100μF

#### Capacitance Tolerance

Code	Tolerance
J	± 5%
K	± 10%
M	± 20%

#### Nominal Thickness

Code	Thickness
290	2.90mm
335	3.35mm
500	5.00mm

#### Packaging Style

Code	Style
A	178mm Reel, 4mm Pitch
J	330mm Reel, 8mm Pitch

#### Special Reserved Code

Code	Description
J	MEGACAP (Automotive)



## Capacitance Range Chart

## CKG32K [EIA CC1210]

### Capacitance Range Chart

Temperature Characteristics: C0G ( $0 \pm 30\text{ppm}/^\circ\text{C}$ ), X7R ( $\pm 15\%$ ), X7S ( $\pm 22\%$ ), X7T ( $+22/-33\%$ )  
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E)

Capacitance (pF)	Code	Tolerance	C0G				X7R					X7S		X7T			
			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)	
22,000	223	C0G ; J : $\pm 5\%$	■	■													
33,000	333				■		■										
47,000	473																
68,000	683					■											
100,000	104									■							
150,000	154	X7R, X7S X7T ; K : $\pm 10\%$ M : $\pm 20\%$											■				
220,000	224										■				■		
330,000	334															■	
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																

Standard Thickness

■ 3.35 mm



## Capacitance Range Chart

## CKG45K [EIA CC1812]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ ), X7S ( $\pm 22\%$ ), X7T ( $+ 22/-33\%$ )  
 Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

Capacitance (pF)	Code	Tolerance	X7R						X7S			X7T				
			2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)		
100,000	104	K : $\pm 10\%$ M : $\pm 20\%$	■													
150,000	154												■			
220,000	224															
330,000	334															
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															
10,000,000	106															
22,000,000	226	M : $\pm 20\%$														

Standard Thickness

■ 2.90 mm



## Capacitance Range Chart

## CKG57K [EIA CC2220]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ ), X7S ( $\pm 22\%$ ), X7T (+22/-33%)

Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

Capacitance (pF)	Code	Tolerance	X7R						X7S			X7T			
			2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)	2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)	
220,000	224	K: $\pm 10\%$ M: $\pm 20\%$	■												
330,000	334												■		
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: $\pm 20\%$						■		■					
22,000,000	226						■								
47,000,000	476										■				

Standard Thickness

■ 3.35 mm



## Capacitance Range Chart

## CKG45N [EIA CC1812]

### Capacitance Range Chart

Temperature Characteristics: X7R ( $\pm 15\%$ ), X7S ( $\pm 22\%$ ), X7T (+ 22/-33%)

Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

Capacitance (pF)	Code	Tolerance	X7R					
			2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)	1C (16V)
220,000	224	M: $\pm 20\%$	■					
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							■

Capacitance (pF)	Code	Tolerance	X7S			X7T		
			2A (100V)	1H (50V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)
330,000	334	M: $\pm 20\%$				■		
470,000	474							
680,000	684						■	
1,000,000	105							
1,500,000	155							■
2,200,000	225							■
6,800,000	685			■				
10,000,000	106				■			
47,000,000	476					■		

Standard Thickness  
 5.00 mm



## Capacitance Range Chart

## CKG57N [EIA CC2220]

### Capacitance Range Chart

Temperature Characteristics: X5R ( $\pm 15\%$ ), X7R ( $\pm 15\%$ ), X7S ( $\pm 22\%$ ), X7T ( $+ 22/-33\%$ )

Rated Voltage: 630V (2J), 450V (2W), 250V (2E), 100V (2A), 50V (1H), 25V (1E), 16V (1C)

Capacitance (pF)	Code	Tolerance	X5R				X7R				
			2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2E (250V)	2A (100V)	1H (50V)	1E (25V)
470,000	474	M: $\pm 20\%$					■				
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					■					

Capacitance (pF)	Code	Tolerance	X7S				X7T		
			2A (100V)	1H (50V)	1E (25V)	1C (16V)	2J (630V)	2W (450V)	2E (250V)
680,000	684	M: $\pm 20\%$					■		
1,000,000	105							■	
1,500,000	155								■
2,200,000	225							■	
3,300,000	335								■
22,000,000	226		■	■					
47,000,000	476				■				
100,000,000	107					■			

Standard Thickness  
 5.00 mm



## Capacitance Range Table

### Class 1 (Temperature Compensating)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number			
				Rated Voltage Edc: 630V	Rated Voltage Edc: 450V	Rated Voltage Edc: 250V	Rated Voltage Edc: 100V
22nF	3225	3.35 ± 0.10	± 5%	CKG32KC0G2J223J335AJ	CKG32KC0G2W223J335AJ		
33nF	3225	3.35 ± 0.10	± 5%	CKG32KC0G2J333J335AJ	CKG32KC0G2W333J335AJ	CKG32KC0G2E333J335AJ	
47nF	3225	3.35 ± 0.10	± 5%			CKG32KC0G2E473J335AJ	
68nF	3225	3.35 ± 0.10	± 5%				CKG32KC0G2A683J335AJ

### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number			
				Rated Voltage Edc: 100V	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
10 µF	5750	5.00 ± 0.50	± 20%	CKG57NX5R2A106M500JJ			
22 µF	5750	5.00 ± 0.50	± 20%		CKG57NX5R1H226M500JJ		
47 µF	5750	5.00 ± 0.50	± 20%			CKG57NX5R1E476M500JJ	
100 µF	5750	5.00 ± 0.50	± 20%				CKG57NX5R1C107M500JJ

### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number					
				Rated Voltage Edc: 630V	Rated Voltage Edc: 250V	Rated Voltage Edc: 100V	Rated Voltage Edc: 50V		
47 nF	3225	3.35 ± 0.10	± 10%	CKG32KX7R2J473K335AJ					
			± 20%	CKG32KX7R2J473M335AJ					
100 nF	3225	3.35 ± 0.10	± 10%		CKG32KX7R2E104K335AJ				
			± 20%		CKG32KX7R2E104M335AJ				
	4532	2.90 ± 0.10	± 10%	CKG45KX7R2J104K290JJ					
			± 20%	CKG45KX7R2J104M290JJ					
220 nF	3225	3.35 ± 0.10	± 10%		CKG32KX7R2E224K335AJ				
			± 20%		CKG32KX7R2E224M335AJ				
	4532	2.90 ± 0.10	± 10%		CKG45KX7R2E224K290JJ				
			± 20%		CKG45KX7R2E224M290JJ				
		5750	3.35 ± 0.15	± 10%	CKG45NX7R2J224M500JJ				
				± 20%	CKG57KX7R2J224K335JJ				
470 nF	3225	3.35 ± 0.10	± 10%			CKG32KX7R2A474K335AJ			
			± 20%			CKG32KX7R2A474M335AJ			
	4532	2.90 ± 0.10	± 10%		CKG45KX7R2E474K290JJ				
			± 20%		CKG45KX7R2E474M290JJ				
		5750	3.35 ± 0.15	± 10%		CKG45NX7R2E474M500JJ			
				± 20%		CKG57KX7R2E474K335JJ			
	1 µF	3225	3.35 ± 0.10	± 10%			CKG32KX7R2A105K335AJ	CKG32KX7R1H105K335AJ	
				± 20%			CKG32KX7R2A105M335AJ	CKG32KX7R1H105M335AJ	
		4532	2.90 ± 0.10	± 10%			CKG45KX7R2A105K290JJ		
				± 20%			CKG45KX7R2A105M290JJ		
			5750	3.35 ± 0.15	± 10%	CKG45NX7R2E105M500JJ			
					± 20%	CKG57KX7R2E105K335JJ	CKG57KX7R2A105K335JJ		
1.5 µF	4532	2.90 ± 0.10	± 10%				CKG45KX7R1H155K290JJ		
			± 20%				CKG45KX7R1H155M290JJ		
	3225	3.35 ± 0.10	± 10%		CKG32KX7R2A225K335AJ				
			± 20%		CKG32KX7R2A225M335AJ				
2.2 µF	4532	2.90 ± 0.10	± 10%		CKG45KX7R2A225K290JJ				
			± 20%		CKG45KX7R2A225M290JJ				
	5750	3.35 ± 0.15	± 10%		CKG45NX7R2A225M500JJ				
			± 20%		CKG57KX7R2A225K335JJ				
		5750	3.35 ± 0.15	± 10%		CKG57KX7R2A225M335JJ			
				± 20%		CKG57NX7R2E225M500JJ	CKG57NX7R2A225M500JJ		





## Capacitance Range Table

### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number			
				Rated Voltage Edc: 100V	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
3.3 µF	4532	2.90 ± 0.10	± 10%	CKG45KX7R1H335K290JJ			
			± 20%	CKG45KX7R1H335M290JJ			
	5.00 ± 0.50	± 20%	CKG45NX7R1H335M500JJ				
		5750	3.35 ± 0.15	± 10%	CKG57KX7R2A335K335JJ		
± 20%	CKG57KX7R2A335M335JJ						
4.7 µF	3225	3.35 ± 0.10	± 10%	CKG32KX7R1E475K335AJ			
			± 20%	CKG32KX7R1E475M335AJ			
	4532	2.90 ± 0.10	± 10%	CKG45KX7R1E475K290JJ			
			± 20%	CKG45KX7R1E475M290JJ			
	5.00 ± 0.50	± 20%	CKG45NX7R2A475M500JJ				
		5750	3.35 ± 0.15	± 10%	CKG57KX7R2A475K335JJ	CKG57KX7R1H475K335JJ	
± 20%	CKG57KX7R2A475M335JJ			CKG57KX7R1H475M335JJ			
5.00 ± 0.50	± 20%	CKG57NX7R2A475M500JJ					
6.8 µF	4532	5.00 ± 0.50	± 20%	CKG45NX7R1H685M500JJ			
			3225	3.35 ± 0.10	± 10%	CKG32KX7R1E106K335AJ	
± 20%	CKG32KX7R1E106M335AJ						
10 µF	4532	2.90 ± 0.10	± 10%	CKG45KX7R1C106K290JJ			
			± 20%	CKG45KX7R1C106M290JJ			
	5.00 ± 0.50	± 20%	CKG45NX7R1E106M500JJ				
		5750	3.35 ± 0.15	± 10%	CKG57KX7R1E106K335JJ		
± 20%	CKG57KX7R1E106M335JJ						
5.00 ± 0.50	± 20%	CKG57NX7R2A106M500JJ	CKG57NX7R1H106M500JJ				
15 µF	5750	3.35 ± 0.15	± 20%	CKG57KX7R1C156M335JJ			
			4532	2.90 ± 0.10	± 20%	CKG45KX7R1C226M290JJ	
5.00 ± 0.50	± 20%	CKG45NX7R1C226M500JJ					
22 µF	5750	3.35 ± 0.15	± 20%	CKG57KX7R1E226M335JJ			
			5.00 ± 0.50	± 20%	CKG57NX7R1E226M500JJ		
33 µF	5750	5.00 ± 0.50	± 20%	CKG57NX7R1C336M500JJ			

### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number			
				Rated Voltage Edc: 100V	Rated Voltage Edc: 50V	Rated Voltage Edc: 25V	Rated Voltage Edc: 16V
3.3 µF	3225	3.35 ± 0.10	± 10%	CKG32KX7S2A335K335AJ			
			± 20%	CKG32KX7S2A335M335AJ			
			4532	2.90 ± 0.10	± 10%	CKG45KX7S2A335K290JJ	
± 20%	CKG45KX7S2A335M290JJ						
4.7 µF	3225	3.35 ± 0.10	± 10%	CKG32KX7S2A475K335AJ	CKG32KX7S1H475K335AJ		
			± 20%	CKG32KX7S2A475M335AJ	CKG32KX7S1H475M335AJ		
	4532	2.90 ± 0.10	± 10%	CKG45KX7S2A475K290JJ	CKG45KX7S1H475K290JJ		
			± 20%	CKG45KX7S2A475M290JJ	CKG45KX7S1H475M290JJ		
6.8 µF	3225	3.35 ± 0.10	± 10%	CKG32KX7S1H685K335AJ			
			± 20%	CKG32KX7S1H685M335AJ			
	4532	5.00 ± 0.50	± 20%	CKG45NX7S2A685M500JJ			
5750			3.35 ± 0.15	± 10%	CKG57KX7S2A685K335JJ		
	± 20%	CKG57KX7S2A685M335JJ					
10 µF	3225	3.35 ± 0.10	± 10%	CKG32KX7S1H106K335AJ			
			± 20%	CKG32KX7S1H106M335AJ			
	4532	5.00 ± 0.50	± 20%	CKG45NX7S2A106M500JJ	CKG45NX7S1H106M500JJ		
			5750	3.35 ± 0.15	± 10%	CKG57KX7S2A106K335JJ	CKG57KX7S1H106K335JJ
± 20%	CKG57KX7S2A106M335JJ	CKG57KX7S1H106M335JJ					
15 µF	5750	3.35 ± 0.15	± 20%	CKG57KX7S2A156M335JJ			
22 µF	4532	5.00 ± 0.50	± 20%	CKG45KX7S1C226M290JJ			
			5750	5.00 ± 0.50	± 20%	CKG57NX7S2A226M500JJ	CKG57NX7S1H226M500JJ
47 µF	5750	3.35 ± 0.15			± 20%	CKG45NX7S1C476M500JJ	
			5.00 ± 0.50	± 20%	CKG57KX7S1C476M335JJ		
100 µF	5750	5.00 ± 0.50	± 20%	CKG57NX7S1E476M500JJ			
			± 20%	CKG57NX7S1C107M500JJ			



## Capacitance Range Table

### Class 2 (Temperature Stable)

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

Capacitance	Size	Thickness (mm)	Capacitance Tolerance	Catalog Number		
				Rated Voltage Edc: 630V	Rated Voltage Edc: 450V	Rated Voltage Edc: 250V
100 nF	3225	3.35 ± 0.10	± 10%	CKG32KX7T2J104K335AJ		
			± 20%	CKG32KX7T2J104M335AJ		
150 nF	3225	3.35 ± 0.10	± 10%	CKG32KX7T2J154K335AJ		
			± 20%	CKG32KX7T2J154M335AJ		
	4532	2.90 ± 0.10	± 10%	CKG45KX7T2J154K290JJ		
			± 20%	CKG45KX7T2J154M290JJ		
220 nF	3225	3.35 ± 0.10	± 10%	CKG32KX7T2W224K335AJ		
			± 20%	CKG32KX7T2W224M335AJ		
	4532	2.90 ± 0.10	± 10%	CKG45KX7T2J224K290JJ		
			± 20%	CKG45KX7T2J224M290JJ		
330 nF	3225	3.35 ± 0.10	± 10%	CKG32KX7T2E334K335AJ		
			± 20%	CKG32KX7T2E334M335AJ		
	4532	2.90 ± 0.10	± 10%	CKG45KX7T2W334K290JJ		
			± 20%	CKG45KX7T2W334M290JJ		
	5750	3.35 ± 0.15	± 10%	CKG45NX7T2J334M500JJ		
			± 20%	CKG57KX7T2J334K335JJ		
± 20%	CKG57KX7T2J334M335JJ					
470 nF	4532	2.90 ± 0.10	± 10%	CKG45KX7T2W474K290JJ		
			± 20%	CKG45KX7T2W474M290JJ		
	5750	3.35 ± 0.15	± 10%	CKG45NX7T2J474M500JJ		
			± 20%	CKG57KX7T2J474K335JJ		
± 20%	CKG57KX7T2J474M335JJ					
680 nF	4532	2.90 ± 0.10	± 10%	CKG45KX7T2E684K290JJ		
			± 20%	CKG45KX7T2E684M290JJ		
	5750	3.35 ± 0.15	± 10%	CKG45NX7T2W684M500JJ		
			± 20%	CKG57KX7T2W684K335JJ		
	5750	5.00 ± 0.50	± 10%	CKG57KX7T2W684M335JJ		
			± 20%	CKG57NX7T2J684M500JJ		
1 µF	4532	2.90 ± 0.10	± 10%	CKG45KX7T2E105K290JJ		
			± 20%	CKG45KX7T2E105M290JJ		
	5750	3.35 ± 0.15	± 10%	CKG45NX7T2W105M500JJ		
			± 20%	CKG57KX7T2W105K335JJ		
5750	5.00 ± 0.50	± 10%	CKG57KX7T2W105M335JJ			
		± 20%	CKG57NX7T2J105M500JJ			
1.5 µF	4532	5.00 ± 0.50	± 10%	CKG45NX7T2E155M500JJ		
			± 20%	CKG57KX7T2E155K335JJ		
	5750	3.35 ± 0.15	± 10%	CKG57KX7T2E155M335JJ		
			± 20%	CKG57NX7T2W155M500JJ		
5750	5.00 ± 0.50	± 10%	CKG45NX7T2E225M500JJ			
		± 20%	CKG57KX7T2E225K335JJ			
2.2 µF	5750	3.35 ± 0.15	± 10%	CKG57KX7T2E225M335JJ		
			± 20%	CKG57NX7T2W225M500JJ		
3.3 µF	5750	5.00 ± 0.50	± 10%	CKG57NX7T2E335M500JJ		
			± 20%	CKG57NX7T2E335M500JJ		