

Medium-High Voltage Capacitors



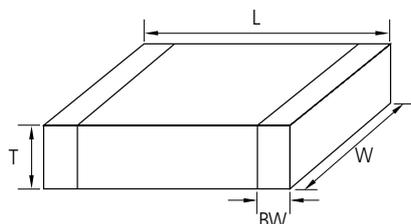
Feature

- Highly reliable performance
- Operating at high voltage level
- Wide voltage level: from 100V to 3000V
- High withstanding voltage
- Tape & reel surface mount assembly

Application

- Switching Power Circuit(SMPS)
- Lighting Ballast, LCD back lighting inverter
- DC-DC converter input filter, snubber circuit
- Phone, Fax, Modem
- Network(IEEE802.3)

Structure and Dimensions



Code	EIA Code	Dimension(mm)				
		L	W	T	Thickness Code	BW
10	0603	1.60±0.10	0.80±0.10	0.80±0.10	8	0.3±0.2
21	0805	2.00±0.10	1.25±0.10	1.25±0.10	F	0.5+0.2/-0.3
		2.00±0.10	1.25±0.10	0.85±0.10	C	
31	1206	2.00±0.10	1.25±0.10	0.65±0.10	A	0.5±0.3
		3.20±0.20	1.60±0.20	1.60±0.20	H	
		3.20±0.15	1.60±0.15	1.25±0.15	F	
32	1210	3.20±0.15	1.60±0.15	0.85±0.15	C	0.6±0.3
		3.20±0.30	2.50±0.20	2.50±0.20	J	
		3.20±0.30	2.50±0.20	1.60±0.20	H	
42	1808	3.20±0.30	2.50±0.20	1.25±0.20	F	0.8±0.3
		4.50±0.40	2.00±0.20	2.00±0.20	I	
		4.50±0.40	2.00±0.20	1.60±0.20	H	
43	1812	4.50±0.40	2.00±0.20	1.25±0.20	F	0.8±0.3
		4.50±0.40	3.20±0.30	2.50±0.20	J	
		4.50±0.40	3.20±0.30	1.60±0.20	H	
55	2220	4.50±0.40	3.20±0.30	1.25±0.20	F	1.0±0.3
		5.70±0.40	5.00±0.40	2.50±0.20	J	
		5.70±0.40	5.00±0.40	1.60±0.20	H	

Part Numbering System

General Capacitors

High Capacitance Capacitors

Super Small Size Capacitors

Medium-High Voltage Capacitors

Array Type Capacitors

Low ESL Capacitors

Reliability Test Condition

Premium Capacitors for Automotive Applications

Packaging Specification

Application Manual for Surface Mounting



Medium-High Voltage Capacitors Table (C0G)

Vr	Size(mm)	Capacitance																									
		(pF)						(nF)																			
		330	390	470	560	680	820	1	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2	10	12	15	18	22	27	33	47
100V	0603(1608)	■																									
	0805(2012)	■						■																			
	1206(3216)	■						■																			
	1210(3225)							■																			
	1812(4532)							■																			
	2220(5750)							■																			
200V	0603(1608)	■																									
	0805(2012)	■						■																			
	1206(3216)	■						■																			
	1210(3225)							■																			
	1812(4532)							■																			
	2220(5750)							■																			
250V	0603(1608)	■																									
	0805(2012)	■						■																			
	1206(3216)	■						■																			
	1210(3225)							■																			
	1812(4532)							■																			
	2220(5750)							■																			
500V	1206(3216)	■						■																			
	1210(3225)	■						■																			
	1812(4532)	■						■																			
	2220(5750)							■																			
630V	0805(2012)	■																									
	1206(3216)	■						■																			
	1210(3225)	■						■																			
	1812(4532)	■						■																			
	2220(5750)							■																			

Medium-High Voltage Capacitors Table (C0G)

Vr	Size(mm)	Capacitance																							
		(pF)										(nF)													
		47	56	68	82	100	120	150	180	220	270	330	390	470	560	680	820	1	1.2	1.5	1.8	2.2	2.7	3.3	3.9
1KV	1206(3216)	█																							
	1210(3225)											█													
	1812(4532)											█													
	2220(5750)											█													
2KV	1206(3216)	█																							
	1210(3225)	█																							
	1808(4520)	█																							
	1812(4532)	█										█													
	2220(5750)											█													
3KV	1808(4520)	█																							
	1812(4532)											█													
	2220(5750)											█													

- Part Numbering System
- General Capacitors
- High Capacitance Capacitors
- Super Small Size Capacitors
- Medium-High Voltage Capacitors**
- Array Type Capacitors
- Low ESL Capacitors
- Reliability Test Condition
- Premium Capacitors for Automotive Applications
- Packaging Specification
- Application Manual for Surface Mounting



Medium-High Voltage Capacitors Table (X7R)

Vr(V)	Size(mm)	Capacitance (nF)															
		4.7	10	15	22	33	47	68	100	150	220	330	470	680	1000	1500	2200
100V	0603(1608)	[Bar from 4.7 to 100]															
	0805(2012)	[Bar from 4.7 to 220]															
	1206(3216)	[Bar from 4.7 to 2200]															
	1210(3225)	[Bar from 4.7 to 2200]															
	1812(4532)	[Bar from 68 to 1000]															
	2220(5750)	[Bar from 680 to 4700]															
200V	0805(2012)	[Bar from 4.7 to 15]															
	1206(3216)	[Bar from 4.7 to 100]															
	1210(3225)	[Bar from 47 to 220]															
	1812(4532)	[Bar from 33 to 470]															
	2220(5750)	[Bar from 220 to 1000]															
250V	0805(2012)	[Bar from 4.7 to 15]															
	1206(3216)	[Bar from 15 to 100]															
	1210(3225)	[Bar from 47 to 220]															
	1812(4532)	[Bar from 100 to 470]															
	2220(5750)	[Bar from 220 to 1000]															
350V	1206(3216)	[Bar from 4.7 to 100] (Tmax=1.0) [Bar from 15 to 33] (Tmax=1.25) [Bar from 22 to 47] (Tmax=1.8)															
500V	1206(3216)	[Bar from 4.7 to 33]															
	1210(3225)	[Bar from 4.7 to 47]															
	1812(4532)	[Bar from 10 to 100]															
	2220(5750)	[Bar from 150 to 220]															
630V	1206(3216)	[Bar from 4.7 to 33]															
	1210(3225)	[Bar from 4.7 to 47]															
	1812(4532)	[Bar from 10 to 100]															
	2220(5750)	[Bar from 150 to 220]															

Medium-High Voltage Capacitors Table (X7R)

Vr(V)	Size(mm)	Capacitance (nF)															
		1	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100	150	220	330
1KV	1206(3216)	■	■	■	■												
	1210(3225)				■	■	■	■									
	1812(4532)		■	■	■	■	■	■	■	■	■	■	■	■	■		
	2220(5750)											■	■				
2KV	1206(3216)	■	■	■													
	1210(3225)	■															
	1808(4520)	■	■	■													
	1812(4532)	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
	2220(5750)				■	■	■	■	■	■	■	■	■	■	■		
3KV	1808(4520)	■															

Part Numbering System

General Capacitors

High Capacitance Capacitors

Super Small Size Capacitors

Medium-High Voltage Capacitors

Array Type Capacitors

Low ESL Capacitors

Reliability Test Condition

Premium Capacitors for Automotive Applications

Packaging Specification

Application Manual for Surface Mounting



Product Lineup (Medium-High Voltage Capacitors-C0G)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)
1	CL10C100JC8NNN □	1.60×0.80	10pF	100	±5%	0.90
2	CL10C150JC8NNN □		15pF	100	±5%	0.90
3	CL10C330JC8NNN □		33pF	100	±5%	0.90
4	CL10C390JC8NNN □		39pF	100	±5%	0.90
5	CL10C470JC8NNN □		47pF	100	±5%	0.90
6	CL10C560JC8NNN □		56pF	100	±5%	0.90
7	CL10C101JC8NNN □		100pF	100	±5%	0.90
8	CL10C121JC8NNN □		120pF	100	±5%	0.90
9	CL10C151JC8NNN □		150pF	100	±5%	0.90
10	CL10C331JC8NNN □		330pF	100	±5%	0.90
11	CL10C331JD8NNN □		330pF	200	±5%	0.90
12	CL10C331JE8NNN □		330pF	250	±5%	0.90
13	CL10C391JD8NNN □		390pF	200	±5%	0.90
14	CL10C391JE8NNN □		390pF	250	±5%	0.90
15	CL10C471JC8NNN □		470pF	100	±5%	0.90
16	CL10C471JD8NNN □		470pF	200	±5%	0.90
17	CL10C471JE8NNN □		470pF	250	±5%	0.90
18	CL10C561JD8NNN □		560pF	200	±5%	0.90
19	CL10C561JE8NNN □		560pF	250	±5%	0.90
20	CL10C681JC8NNN □		680pF	100	±5%	0.90
21	CL10C681JD8NNN □		680pF	200	±5%	0.90
22	CL10C681JE8NNN □		680pF	250	±5%	0.90
23	CL10C821JC8NNN □		820pF	100	±5%	0.90
24	CL10C102JC8NNN □		1nF	100	±5%	0.90
25	CL10C122JC8NNN □		1.2nF	100	±5%	0.90
1	CL21C100JCANNN □	2.00×1.25	10pF	100	±5%	0.75
2	CL21C120JCANNN □		12pF	100	±5%	0.75
3	CL21C150JCANNN □		15pF	100	±5%	0.75
4	CL21C150JDCNNN □		15pF	200	±5%	0.95
5	CL21C180JCANNN □		18pF	100	±5%	0.75
6	CL21C180JDCNNN □		18pF	200	±5%	0.95
7	CL21C220JCANNN □		22pF	100	±5%	0.75
8	CL21C270JCANNN □		27pF	100	±5%	0.75
9	CL21C270JHFNNN □		27pF	630	±5%	1.35
10	CL21C330JCANNN □		33pF	100	±5%	0.75
11	CL21C330JDCNNN □		33pF	200	±5%	0.95
12	CL21C330JHFNNN □		33pF	630	±5%	1.35
13	CL21C390JDCNNN □		39pF	200	±5%	0.95
14	CL21C470JCANNN □		47pF	100	±5%	0.75
15	CL21C470JDCNNN □		47pF	200	±5%	0.95
16	CL21C470JHFNNN □		47pF	630	±5%	1.35
17	CL21C560JCCNNN □		56pF	100	±5%	0.95
18	CL21C560JDCNNN □		56pF	200	±5%	0.95
19	CL21C680JCANNN □		68pF	100	±5%	0.75
20	CL21C680JDCNNN □		68pF	200	±5%	0.95
21	CL21C680JHFNNN □		68pF	630	±5%	1.35
22	CL21C820JCCNNN □		82pF	100	±5%	0.95
23	CL21C101JCANNN □		100pF	100	±5%	0.75
24	CL21C101JDCNNN □		100pF	200	±5%	0.95
25	CL21C101JECNNN □		100pF	250	±5%	0.95

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

Product Lineup (Medium-High Voltage Capacitors-C0G)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)
26	CL21C121JDCNNN □	2.00×1.25	120pF	200	±5%	0.95
27	CL21C151JCANNN □		150pF	100	±5%	0.75
28	CL21C151JHFNNN □		150pF	630	±5%	1.35
29	CL21C221JCANNN □		220pF	100	±5%	0.75
30	CL21C221JDCNNN □		220pF	200	±5%	0.95
31	CL21C331JCANNN □		330pF	100	±5%	0.75
32	CL21C471JCCNNN □		470pF	100	±5%	0.95
33	CL21C561JCCNNN □		560pF	100	±5%	0.95
34	CL21C561JHFNNN □		560pF	630	±5%	1.35
35	CL21C681JCCNNN □		680pF	100	±5%	0.95
36	CL21C102JCFNNN □		1nF	100	±5%	1.35
37	CL21C102JDFNNN □		1nF	200	±5%	1.35
38	CL21C272JDFNNN □		2.7nF	200	±5%	1.35
39	CL21C272JEFNNN □		2.7nF	250	±5%	1.35
40	CL21C472JCFNNN □		4.7nF	100	±5%	1.35
1	CL31C150JGFNNN □		3.20×1.60	15pF	500	±5%
2	CL31C180JGFNNN □	18pF		500	±5%	1.40
3	CL31C220JGFNNN □	22pF		500	±5%	1.40
4	CL31C220JHNNN □	22pF		2000	±5%	1.80
5	CL31C270JGFNNN □	27pF		500	±5%	1.40
6	CL31C330JGFNNN □	33pF		500	±5%	1.40
7	CL31C390JGFNNN □	39pF		500	±5%	1.40
8	CL31C470JGFNNN □	47pF		500	±5%	1.40
9	CL31C470JHFNNN □	47pF		630	±5%	1.40
10	CL31C470JIFNNN □	47μF		1000	±5%	1.40
11	CL31C470JHNNN □	47pF		2000	±5%	1.80
12	CL31C560JGFNNN □	56pF		500	±5%	1.40
13	CL31C680JCCNNN □	68pF		100	±5%	1.00
14	CL31C680JGFNNN □	68pF		500	±5%	1.40
15	CL31C680JHFNNN □	68pF		630	±5%	1.40
16	CL31C680JIFNNN □	68pF		1000	±5%	1.40
17	CL31C820JGFNCN □	82pF		500	±5%	1.40
18	CL31C101JGFNNN □	100pF		500	±5%	1.40
19	CL31C101JHFNNN □	100pF		630	±5%	1.40
20	CL31C101JIFNNN □	100pF		1000	±5%	1.40
21	CL31C101JHNNN □	100pF		2000	±5%	1.80
22	CL31C121JGFNNN □	120pF		500	±5%	1.40
23	CL31C151JGFNNN □	150pF		500	±5%	1.40
24	CL31C181JGFNNN □	180pF		500	±5%	1.40
25	CL31C221JGFNNN □	220pF		500	±5%	1.40
26	CL31C271JGFNNN □	270pF		500	±5%	1.40
27	CL31C271JCCNNN □	270pF		100	±5%	1.00
28	CL31C331JGFNNN □	330pF		500	±5%	1.40
29	CL31C331JHNNN □	330pF		1000	±5%	1.80
30	CL31C391JCCNNN □	390pF		100	±5%	1.00
31	CL31C471JGFNNN □	470pF		500	±5%	1.40
32	CL31C471JHFNNN □	470pF		630	±5%	1.40
33	CL31C471JIFNNN □	470pF		1000	±5%	1.40
34	CL31C561JCCNNN □	560pF		100	±5%	1.00
35	CL31C561JGFNNN □	560pF		500	±5%	1.40
36	CL31C681JGFNNN □	680pF		500	±5%	1.80
37	CL31C821JHNNN □	820pF		630	5%	1.80

Part Numbering System

General Capacitors

High Capacitance Capacitors

Super Small Size Capacitors

Medium-High Voltage Capacitors

Array Type Capacitors

Low ESL Capacitors

Reliability Test Condition

Premium Capacitors for Automotive Applications

Packaging Specification

Application Manual for Surface Mounting

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.



Product Lineup (Medium-High Voltage Capacitors-C0G)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)	
36	CL31C102JCCNNN □	3.20×1.60	1nF	100	±5%	1.00	
37	CL31C102JGHNNN □		1nF	500	±5%	1.80	
38	CL31C152JCCNNN □		1.5nF	100	±5%	1.00	
39	CL31C222JCCNNN □		2.2nF	100	±5%	1.00	
40	CL31C332JGHNNN □		3.3nF	500	±5%	1.80	
41	CL31C332JHHNNN □		3.3nF	630	±5%	1.80	
42	CL31C392JCHNNN □		3.9nF	100	±5%	1.80	
43	CL31C822JDHNNN □		8.2nF	200	±5%	1.80	
44	CL31C822JEHNNN □		8.2nF	250	±5%	1.80	
45	CL31C183JCHNNN □		18nF	100	±5%	1.80	
1	CL32C101JJFNNN □		3.20×2.50	100pF	2000	±5%	1.45
2	CL32C471JJJNNN □			470pF	2000	±5%	2.70
3	CL32C821JIJNNN □	820pF		1000	±5%	2.70	
4	CL32C103JGJNNN □	10nF		500	±5%	2.70	
5	CL32C103JHJNNN □	10nF		630	±5%	2.70	
6	CL32C273JDJNNN □	27nF		200	±5%	2.70	
7	CL32C273JEJNNN □	27nF		250	±5%	2.70	
8	CL32C563JCJNNN □	56nF		100	±5%	2.70	
1	CL42C100JKFNNN □	4.50×2.00	10pF	3000	±5%	1.45	
2	CL42C151JKINNN □		150pF	3000	±5%	2.20	
3	CL42C221JJHNNN □		220pF	2000	±5%	1.80	
1	CL43C391JKJNNN □	4.50×3.20	390pF	3000	±5%	2.70	
2	CL43C102JIHNNN □		1nF	1000	±5%	1.80	
3	CL43C122JIJNNN □		1.2nF	1000	±5%	2.20	
4	CL43C182JIJNNN □		1.8nF	1000	±5%	2.70	
5	CL43C182JJJNNN □		1.8nF	2000	±5%	2.70	
6	CL43C223JGJNNN □		22nF	500	±5%	2.70	
7	CL43C223JHJNNN □		22nF	630	±5%	2.70	
8	CL43C473JDJNNN □		47nF	200	±5%	2.70	
9	CL43C473JEJNNN □		47nF	250	±5%	2.70	
10	CL43C563JCJNNN □		56nF	100	±5%	2.70	
1	CL55C102JJJNNN □	5.70×5.00	1nF	2000	±5%	2.70	
2	CL55C102JKJNNN □		1nF	3000	±5%	2.70	
3	CL55C362JIJNNN □		3.6nF	1000	±5%	2.70	
4	CL55C223JGJNNN □		22nF	500	±5%	2.70	
5	CL55C223JHJNNN □		22nF	630	±5%	2.70	
6	CL55C473JDJNNN □		47nF	200	±5%	2.70	
7	CL55C473JEJNNN □		47nF	250	±5%	2.70	
8	CL55C683JCJNNN □		68nF	100	±5%	2.70	

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

Product Lineup (Medium-High Voltage Capacitors-X7R)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)
1	CL10B102KC8NNN □	1.60×0.80	1nF	100	±10%	0.90
2	CL10B472KC8NNN □		4.7nF	100	±10%	0.90
3	CL10B103KC8NNN □		10nF	100	±10%	0.90
4	CL10B104KC8NNN □		100nF	100	±10%	0.90
1	CL21B221KDCNNN □	2.00×1.25	220pF	200	±10%	0.95
2	CL21B221KCANNN □		220pF	100	±10%	0.75
3	CL21B331KDCNNN □		330pF	200	±10%	0.95
4	CL21B471KCANNN □		470pF	100	±10%	0.75
5	CL21B102KDCNNN □		1nF	200	±10%	0.95
6	CL21B102KCANNN □		1nF	100	±10%	0.75
7	CL21B222KDCNNN □		2.2nF	200	±10%	0.95
8	CL21B222KCANNN □		2.2nF	100	±10%	0.75
9	CL21B332KCANNN □		3.3nF	100	±10%	0.75
10	CL21B472KDCNNN □		4.7nF	200	±10%	0.95
11	CL21B472KCANNN □		4.7nF	100	±10%	0.75
12	CL21B682KCANNN □		6.8nF	100	±10%	0.75
13	CL21B103KDCNNN □		10nF	200	±10%	0.95
14	CL21B103KCANNN □		10nF	100	±10%	0.75
15	CL21B153KEFNNN □		15nF	250	±10%	1.35
16	CL21B153KDFNNN □		15nF	200	±10%	1.35
17	CL21B153KCCNNN □		15nF	100	±10%	0.95
18	CL21B223KCFNNN □		22nF	100	±10%	1.35
19	CL21B473KCFNNN □		47nF	100	±10%	1.35
20	CL21B683KCFNNN □		68nF	100	±10%	1.35
21	CL21B154KCFNNN □		150nF	100	±10%	1.35
22	CL21B224KCFNNN □		220nF	100	±10%	1.35
1	CL31B221KGFNNN □	3.20×1.60	220pF	500	±10%	1.40
2	CL31B471KGFNNN □		470pF	500	±10%	1.40
3	CL31B471KDCNNN □		470pF	200	±10%	1.00
4	CL31B102KJHNNN □		1nF	2000	±10%	1.80
5	CL31B102KI FNNN □		1nF	1000	±10%	1.40
6	CL31B102KGFNNN □		1nF	500	±10%	1.40
7	CL31B102KHFNNN □		1nF	630	±10%	1.40
8	CL31B152KGFNNN □		1.5nF	500	±10%	1.40
9	CL31B152KJHNNN □		1.5nF	2000	±10%	1.80
10	CL31B222KI FNNN □		2.2nF	1000	±10%	1.40
11	CL31B222KDCNNN □		2.2nF	200	±10%	1.00
12	CL31B222KGFNNN □		2.2nF	500	±10%	1.40
13	CL31B222KJHNNN □		2.2nF	2000	±10%	1.80
14	CL31B332KGFNNN □		3.3nF	500	±10%	1.40
15	CL31B332KIFNNN □		3.3nF	1000	±10%	1.40
16	CL31B472KGFNNN □		4.7nF	500	±10%	1.40

※ □mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

- Part Numbering System
- General Capacitors
- High Capacitance Capacitors
- Super Small Size Capacitors
- Medium-High Voltage Capacitors
- Array Type Capacitors
- Low ESL Capacitors
- Reliability Test Condition
- Premium Capacitors for Automotive Applications
- Packaging Specification
- Application Manual for Surface Mounting



Product Lineup (Medium-High Voltage Capacitors-X7R)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)	
17	CL31B472KDCNNN □	3.20×1.60	4.7nF	200	±10%	1.00	
18	CL31B682KGFNNN □		6.8nF	500	±10%	1.40	
19	CL31B103KHFNNN □		10nF	630	±10%	1.40	
20	CL31B103KGFNNN □		10nF	500	±10%	1.40	
21	CL31B103KFCSNN □		10nF	350	±10%	1.00	
22	CL31B153KDCNNN □		15nF	200	±10%	1.00	
23	CL31B153KFCSNN □		15nF	350	±10%	1.00	
24	CL31B153KCCNNN □		15nF	100	±10%	1.00	
25	CL31B153KGFNNN □		15nF	500	±10%	1.40	
26	CL31B153KHFNNN □		15nF	630	±10%	1.40	
27	CL31B223KDCNNN □		22nF	200	±10%	1.00	
28	CL31B223KCCNNN □		22nF	100	±10%	1.00	
29	CL31B223KFCSNN □		22nF	350	±10%	1.00	
30	CL31B223KGHNNN □		22nF	500	±10%	1.80	
31	CL31B223KHHNNN □		22nF	630	±10%	1.80	
32	CL31B333KDFNNN □		33nF	200	±10%	1.40	
33	CL31B333KFESNN □		33nF	350	±10%	1.25	
34	CL31B333KCCNNN □		33nF	100	±10%	1.00	
35	CL31B333KGHNNN □		33nF	500	±10%	1.80	
36	CL31B333KHHNNN □		33nF	630	±10%	1.80	
37	CL31B473KDFNNN □		47nF	200	±10%	1.40	
38	CL31B473KFHSNN □		47nF	350	±10%	1.80	
39	CL31B473KCCNNN □		47nF	100	±10%	1.00	
40	CL31B473KEHNNN □		47nF	250	±10%	1.80	
41	CL31B683KEHNNN □		68nF	250	±10%	1.80	
42	CL31B104KDHNNN □		100nF	200	±10%	1.80	
43	CL31B104KCFNNN □		100nF	100	±10%	1.40	
44	CL31B104KEHNNN □		100nF	250	±10%	1.80	
45	CL31B154KCHNNN □		150nF	100	±10%	1.80	
46	CL31B105KCHNNN □		1μF	100	±10%	1.80	
47	CL31B155KCHNNN □		1.5μF	100	±10%	1.80	
48	CL31B225KCHNNN □		2.2μF	100	±10%	1.80	
1	CL32B102KJFNNN □		3.20×2.50	1nF	2000	±10%	1.45
2	CL32B472KHFNNN □			4.7nF	630	±10%	1.45
3	CL32B472KIFNNN □			4.7nF	1000	±10%	1.45
4	CL32B682KIFNNN □			6.8nF	1000	±10%	1.45
5	CL32B103KCFNNN □			10nF	100	±10%	1.45
6	CL32B153KGFNNN □			15nF	500	±10%	1.45
7	CL32B223KGFNNN □	22nF		500	±10%	1.45	
8	CL32B333KHHNNN □	33nF		630	±10%	1.80	
9	CL32B333KGHNNN □	33nF		500	±10%	1.80	
10	CL32B473KHHNNN □	47nF		630	±10%	1.80	

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

Product Lineup (Medium-High Voltage Capacitors-X7R)

	Part Number	Size L×W (mm)	Capacitance	Rated Voltage (Vdc)	Capacitance Tolerance	Thickness Max. (mm)
11	CL32B473KDHNNN □	3.20×2.50	47nF	200	±10%	1.80
12	CL32B473KGHNNN □		47nF	500	±10%	1.80
13	CL32B683KDINNN □		68nF	200	±10%	2.20
14	CL32B104KE JNNN □		100nF	250	±10%	2.70
15	CL32B104KDINNN □		100nF	200	±10%	2.20
16	CL32B154KCFNNN □		150nF	100	±10%	1.45
17	CL32B154KDJNNN □		150nF	200	±10%	2.70
18	CL32B154KEJNNN □		150nF	250	±10%	2.70
19	CL32B224KCHNNN □		220nF	100	±10%	1.80
20	CL32B224KDJNNN □		220nF	200	±10%	2.70
21	CL32B224KEJNNN □		220nF	250	±10%	2.70
22	CL32B334KCHNNN □		330nF	100	±10%	1.80
23	CL32B474KCINNN □		470nF	100	±10%	2.20
24	CL32B105KCJNNN □		1μF	100	±10%	2.70
25	CL32B155KCHNNN □		1.5μF	100	±10%	1.80
26	CL32B225KCJNNN □		2.2μF	100	±10%	2.70
1	CL43B102KJFNNN □	4.50×3.20	1nF	2000	±10%	1.45
2	CL43B152KJFNNN □		1.5nF	2000	±10%	1.45
3	CL43B222KJFNNN □		2.2nF	1000	±10%	1.45
4	CL43B222KJFNNN □		2.2nF	2000	±10%	1.45
5	CL43B332KJFNNN □		3.3nF	2000	±10%	1.45
6	CL43B103KJFNNN □		10nF	1000	±10%	1.45
7	CL43B333KIJNNN □		33nF	1000	±10%	2.70
8	CL43B473KGFNNN □		47nF	500	±10%	1.45
9	CL43B473KHFNNN □		47nF	630	±10%	1.45
10	CL43B104KGINNN □		100nF	500	±10%	2.20
11	CL43B104KDFNNN □		100nF	200	±10%	1.45
12	CL43B104KHINNN □		100nF	630	±10%	2.20
13	CL43B224KCFNNN □		220nF	100	±10%	1.45
14	CL43B334KCFNNN □		330nF	100	±10%	1.45
15	CL43B474KEJNNN □		470nF	250	±10%	2.70
16	CL43B474KCHNNN □		470nF	100	±10%	1.80
17	CL43B474KDJNNN □		470nF	200	±10%	2.70
18	CL43B105KCJNNN □		1μF	100	±10%	2.70
1	CL55B103KJHNNN □	5.70×5.00	10nF	2000	±10%	1.80
2	CL55B473KIINNN □		47nF	1000	±10%	2.20
3	CL55B224KGJNNN □		220nF	500	±10%	2.70
4	CL55B224KHJNNN □		220nF	630	±10%	2.70
5	CL55B105KCHNNN □		1μF	100	±10%	1.80
6	CL55B105KDJNNN □		1μF	200	±10%	2.70
7	CL55B105KEJNNN □		1μF	250	±10%	2.70
8	CL55B475KCJNNN □		4.7μF	100	±10%	2.70

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p80.

- Part Numbering System
- General Capacitors
- High Capacitance Capacitors
- Super Small Size Capacitors
- Medium-High Voltage Capacitors
- Array Type Capacitors
- Low ESL Capacitors
- Reliability Test Condition
- Premium Capacitors for Automotive Applications
- Packaging Specification
- Application Manual for Surface Mounting