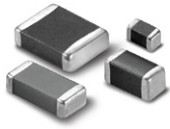


Standard & High Capacitors

Feature

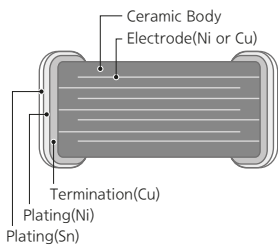
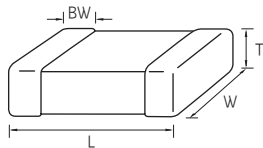


- Wide selection of size : from 0402(Inch) to 2220(Inch)
- Highly reliable tolerance and high speed automatic chip placement on PCBs
- Wide capacitance range
- Highly reliable performance
- Highly resistant termination metal
- Tape & reel for surface mount assembly

Application

- Mobile Phone
- DC-DC Converter
- Tablet devices
- PC (Laptop, Desktop)
- HDD /SSD board
- Display

Structure and Dimensions



Size Code	EIA Code	Dimension(mm)				
		L	W	T	Thickness Code	BW
05	0402	1.00±0.05	0.50±0.05	0.0975±0.0125(*)	L	0.25±0.075
		1.00±0.10	0.50±0.05	0.19±0.03(*)	X	
		1.00±0.05	0.50±0.05	0.30±0.03(*)	3	
		1.00±0.05	0.50±0.05	0.50±0.05	5	
10	0603	1.60±0.10	0.80±0.10	0.50±0.0/-0.1(*)	5	0.30±0.20
		1.60±0.10	0.80±0.10	0.80±0.10	8	
21	0805	2.00±0.10	1.25±0.10	0.70±0.10(*)	7	0.50±0.20/-0.30
		2.00±0.10	1.25±0.10	0.80±0.10(*)	8	
		2.00±0.10	1.25±0.10	0.85±0.10	C	
		2.00±0.10	1.25±0.10	0.90±0.10(*)	9	
		2.00±0.10	1.25±0.10	1.15±0.10	M	
		2.00±0.10	1.25±0.10	1.25±0.10	F	
		2.00±0.20	1.25±0.20	1.25±0.20	Y	
31	1206	3.20±0.20	1.60±0.20	0.60±0.10(*)	6	0.50±0.30
		3.20±0.15	1.60±0.15	0.85±0.15	C	
		3.20±0.20	1.60±0.20	0.85±0.10(*)	C	
		3.20±0.20	1.60±0.20	0.90±0.10(*)	9	
		3.20±0.20	1.60±0.20	1.10±0.10(*)	E	
		3.20±0.20	1.60±0.20	1.15±0.10(*)	M	
		3.20±0.20	1.60±0.20	1.15±0.10(*)	P	
		3.20±0.15	1.60±0.15	1.25±0.15	F	
3.20±0.20	1.60±0.20	1.60±0.20	H			
32	1210	3.20±0.30	2.50±0.20	0.85±0.10(*)	C	0.60±0.30
		3.20±0.30	2.50±0.20	0.90±0.10(*)	9	
		3.20±0.30	2.50±0.20	1.60±0.20	H	
		3.20±0.30	2.50±0.20	1.80±0.20(*)	U	
		3.20±0.30	2.50±0.20	2.00±0.20	I	
		3.20±0.30	2.50±0.20	2.50±0.20	J	
42	1808	4.50±0.40	2.00±0.20	1.25±0.20	F	0.80±0.30
		4.50±0.40	2.00±0.20	1.40±0.20	G	
		4.50±0.40	2.00±0.20	2.00±0.20	I	
43	1812	4.50±0.40	3.20±0.30	1.25±0.20	F	0.80±0.30
		4.50±0.40	3.20±0.30	2.50±0.20	J	
		4.50±0.40	3.20±0.30	3.20±0.30	L	
55	2220	5.70±0.40	5.00±0.40	2.50±0.20	J	1.00±0.30
		5.70±0.40	5.00±0.40	3.20±0.30	L	

* Mark is only applicable to "L", "F", 12th code in part number.

Standard & High Capacitors

Standard & High Capacitance Table (X5R)

Size inch (mm)	Rated Voltage (Vdc)	Capacitance											
		nF			uF								
		100	220	470	1.0	2.2	4.7	10	22	47	100	220	
0402 (1005)	4.0												
	6.3												
	10												
	16												
	25												
	35												
0603 (1608)	4.0												
	6.3												
	10												
	16												
	25												
	35												
	50												
0805 (2012)	4.0												
	6.3												
	10												
	16												
	25												
	35												
	50												
1206 (3216)	6.3											150	
	10												
	16												
	25												
	35												
	50												
1210 (3225)	6.3												
	10												
	16												
	25												
	35												
	50												
1812(4532)	6.3												
2220(5750)	6.3												
	10												

Standard & High Capacitance Table (X6S)

Size inch (mm)	Rated Voltage (Vdc)	Capacitance										
		nF			uF							
		100	220	470	1.0	2.2	4.7	10	22	47	100	
0402 (1005)	2.5											
	4.0											
	6.3											
	10											
	25											
0603 (1608)	4.0											
	6.3											
	10											
	16											
	25											
0805 (2012)	2.5											
	4.0											
	6.3											
	10											
	16											
	25											
1206 (3216)	4.0											
	6.3											
	10											
	16											
	25											
1210 (3225)	4.0											
	6.3											
	10											
	16											
	25											

Standard & High Capacitors

Standard & High Capacitance Table (X7R)

Size inch (mm)	Rated Voltage (Vdc)	Capacitance												
		nF					uF							
		47	100	220	330	470	1.0	2.2	3.3	4.7	10	22	47	100
0402 (1005)	6.3						X7S							
	10													
	16													
	25													
	50													
0603 (1608)	6.3										X7S			
	10													
	16													
	25													
	50													
0805 (2012)	6.3													
	10													
	16													
	25													
	35													
	50													
1206 (3216)	6.3													
	10													
	16													
	25													
	35													
	50													
1210 (3225)	6.3													X7T
	10													
	16													
	25													
	35													
	50													

Product Line Up (COG)

■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	
0.55mm	10Vdc	560pF	±5%	CL05C561JP5N>NN□	0.55mm	50Vdc	2.2pF	±0.1pF	CL05C2R2BB5N>NN□	
		16Vdc	33pF	±5%			CL05C330JO5N>NN□	2.2pF	±0.25pF	CL05C2R2CB5N>NN□
	100pF		±5%	CL05C101JO5N>NN□			2.4pF	±0.1pF	CL05C2R4BB5N>NN□	
	150pF		±5%	CL05C151JO5N>NN□			2.4pF	±0.25pF	CL05C2R4CB5N>NN□	
	220pF		±5%	CL05C221JO5N>NN□			2.5pF	±0.1pF	CL05C2R5BB5N>NN□	
	470pF		±5%	CL05C471JO5N>NN□			2.5pF	±0.25pF	CL05C2R5CB5N>NN□	
	1.0nF		±5%	CL05C102JO5N>NN□			2.7pF	±0.1pF	CL05C2R7BB5N>NN□	
	25Vdc	25Vdc	10pF	±0.5pF			CL05C100DA5N>NN□	2.7pF	±0.25pF	CL05C2R7CB5N>NN□
			10pF	±5%			CL05C100JA5N>NN□	3.0pF	±0.1pF	CL05C030BB5N>NN□
			11pF	±5%			CL05C110JA5N>NN□	3.0pF	±0.25pF	CL05C030CB5N>NN□
			12pF	±5%			CL05C120JA5N>NN□	3.3pF	±0.1pF	CL05C3R3BB5N>NN□
			13pF	±5%			CL05C130JA5N>NN□	3.3pF	±0.25pF	CL05C3R3CB5N>NN□
			15pF	±5%			CL05C150JA5N>NN□	3.5pF	±0.25pF	CL05C3R5CB5N>NN□
			18pF	±2%			CL05C180GA5N>NN□	3.6pF	±0.25pF	CL05C3R6CB5N>NN□
			20pF	±5%			CL05C200JA5N>NN□	3.9pF	±0.1pF	CL05C3R9BB5N>NN□
			22pF	±5%			CL05C220JA5N>NN□	3.9pF	±0.25pF	CL05C3R9CB5N>NN□
			27pF	±2%			CL05C270GA5N>NN□	4.0pF	±0.1pF	CL05C040BB5N>NN□
			27pF	±5%			CL05C270JA5N>NN□	4.0pF	±0.25pF	CL05C040CB5N>NN□
			33pF	±5%			CL05C330JA5N>NN□	4.3pF	±0.25pF	CL05C4R3CB5N>NN□
			39pF	±5%			CL05C390JA5N>NN□	4.7pF	±0.1pF	CL05C4R7BB5N>NN□
			43pF	±5%			CL05C430JA5N>NN□	4.7pF	±0.25pF	CL05C4R7CB5N>NN□
			47pF	±5%			CL05C470JA5N>NN□	4.7pF	±0.5pF	CL05C4R7DB5N>NN□
			68pF	±5%			CL05C680JA5N>NN□	5.0pF	±0.1pF	CL05C050BB5N>NN□
			82pF	±5%			CL05C820JA5N>NN□	5.0pF	±0.25pF	CL05C050CB5N>NN□
			91pF	±5%			CL05C910JA5N>NN□	5.0pF	±0.5pF	CL05C050DB5N>NN□
			100pF	±5%			CL05C101JA5N>NN□	5.1pF	±0.25pF	CL05C5R1CB5N>NN□
			100pF	±10%			CL05C101KA5N>NN□	5.6pF	±0.1pF	CL05C5R6BB5N>NN□
			120pF	±5%			CL05C121JA5N>NN□	5.6pF	±0.25pF	CL05C5R6CB5N>NN□
			150pF	±5%			CL05C151JA5N>NN□	5.6pF	±0.5pF	CL05C5R6DB5N>NN□
			180pF	±5%			CL05C181JA5N>NN□	6.0pF	±0.25pF	CL05C060CB5N>NN□
			220pF	±1%			CL05C221FA5N>NN□	6.0pF	±0.5pF	CL05C060DB5N>NN□
			220pF	±5%			CL05C221JA5N>NN□	6.2pF	±0.25pF	CL05C6R2CB5N>NN□
			270pF	±5%			CL05C271JA5N>NN□	6.2pF	±0.5pF	CL05C6R2DB5N>NN□
	560pF	±5%	CL05C561JA5N>NN□	6.8pF			±0.1pF	CL05C6R8BB5N>NN□		
	1.0nF	±5%	CL05C102JA5N>NN□	6.8pF			±0.25pF	CL05C6R8CB5N>NN□		
	50Vdc	50Vdc	0.2pF	±0.1pF			CL05C0R2BB5N>NN□	6.8pF	±0.5pF	CL05C6R8DB5N>NN□
			0.3pF	±0.1pF			CL05C0R3BB5N>NN□	7.0pF	±0.1pF	CL05C070BB5N>NN□
			0.3pF	±0.25pF			CL05C0R3CB5N>NN□	7.0pF	±0.25pF	CL05C070CB5N>NN□
			0.5pF	±0.1pF			CL05C0R5BB5N>NN□	7.0pF	±0.5pF	CL05C070DB5N>NN□
			0.5pF	±0.25pF			CL05C0R5CB5N>NN□	8.0pF	±0.25pF	CL05C080CB5N>NN□
			0.7pF	±0.1pF			CL05C0R7BB5N>NN□	8.0pF	±0.5pF	CL05C080DB5N>NN□
			0.75pF	±0.1pF			CL05CR75BB5N>NN□	8.2pF	±0.1pF	CL05C8R2BB5N>NN□
			0.75pF	±0.25pF			CL05CR75CB5N>NN□	8.2pF	±0.25pF	CL05C8R2CB5N>NN□
			1.0pF	±0.1pF			CL05C010BB5N>NN□	8.2pF	±0.5pF	CL05C8R2DB5N>NN□
			1.0pF	±0.25pF			CL05C010CB5N>NN□	9.0pF	±0.25pF	CL05C090CB5N>NN□
			1.2pF	±0.1pF			CL05C1R2BB5N>NN□	9.0pF	±0.5pF	CL05C090DB5N>NN□
			1.2pF	±0.25pF			CL05C1R2CB5N>NN□	9.1pF	±0.1pF	CL05C9R1BB5N>NN□
			1.3pF	±0.1pF			CL05C1R3BB5N>NN□	9.1pF	±0.25pF	CL05C9R1CB5N>NN□
			1.5pF	±0.1pF			CL05C1R5BB5N>NN□	10pF	±0.25pF	CL05C100CB5N>NN□
			1.5pF	±0.25pF			CL05C1R5CB5N>NN□	10pF	±0.5pF	CL05C100DB5N>NN□
			1.8pF	±0.1pF			CL05C1R8BB5N>NN□	10pF	±5%	CL05C100JB5N>NN□
			1.8pF	±0.25pF			CL05C1R8CB5N>NN□	11pF	±5%	CL05C110JB5N>NN□
			2.0pF	±0.1pF			CL05C020BB5N>NN□	12pF	±2%	CL05C120GB5N>NN□
			2.0pF	±0.25pF			CL05C020CB5N>NN□	12pF	±5%	CL05C120JB5N>NN□

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (COG)

■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.55mm	50Vdc	13pF	±5%	CL05C130JB5NNN□
		14pF	±5%	CL05C140JB5NNN□
		15pF	±5%	CL05C150JB5NNN□
		16pF	±5%	CL05C160JB5NNN□
		17pF	±5%	CL05C170JB5NNN□
		18pF	±2%	CL05C180GB5NNN□
		18pF	±5%	CL05C180JB5NNN□
		20pF	±2%	CL05C200GB5NNN□
		20pF	±5%	CL05C200JB5NNN□
		22pF	±1%	CL05C220FB5NNN□
		22pF	±2%	CL05C220GB5NNN□
		22pF	±5%	CL05C220JB5NNN□
		24pF	±5%	CL05C240JB5NNN□
		26pF	±5%	CL05C260JB5NNN□
		27pF	±1%	CL05C270FB5NNN□
		27pF	±5%	CL05C270JB5NNN□
		30pF	±5%	CL05C300JB5NNN□
		33pF	±1%	CL05C330FB5NNN□
		33pF	±5%	CL05C330JB5NNN□
		36pF	±5%	CL05C360JB5NNN□
		39pF	±2%	CL05C390GB5NNN□
		39pF	±5%	CL05C390JB5NNN□
		43pF	±2%	CL05C430GB5NNN□
		43pF	±5%	CL05C430JB5NNN□
		47pF	±1%	CL05C470FB5NNN□
		47pF	±5%	CL05C470JB5NNN□
		51pF	±5%	CL05C510JB5NNN□
		56pF	±1%	CL05C560FB5NNN□
		56pF	±5%	CL05C560JB5NNN□
		62pF	±2%	CL05C620GB5NNN□
		62pF	±5%	CL05C620JB5NNN□
		68pF	±5%	CL05C680JB5NNN□
		75pF	±5%	CL05C750JB5NNN□
82pF	±5%	CL05C820JB5NNN□		
91pF	±5%	CL05C910JB5NNN□		
100pF	±1%	CL05C101FB5NNN□		
100pF	±2%	CL05C101GB5NNN□		
100pF	±5%	CL05C101JB5NNN□		
100pF	±10%	CL05C101KB5NNN□		
110pF	±5%	CL05C111JB5NNN□		
120pF	±2%	CL05C121GB5NNN□		
120pF	±5%	CL05C121JB5NNN□		
130pF	±5%	CL05C131JB5NNN□		
150pF	±5%	CL05C151JB5NNN□		
160pF	±5%	CL05C161JB5NNN□		
180pF	±5%	CL05C181JB5NNN□		
200pF	±5%	CL05C201JB5NNN□		
220pF	±1%	CL05C221FB5NNN□		
220pF	±2%	CL05C221GB5NNN□		
220pF	±5%	CL05C221JB5NNN□		
240pF	±5%	CL05C241JB5NNN□		
270pF	±5%	CL05C271JB5NNN□		
300pF	±5%	CL05C301JB5NNN□		
330pF	±5%	CL05C331JB5NNN□		

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.55mm	50Vdc	390pF	±5%	CL05C391JB5NNN□
		470pF	±1%	CL05C471FB5NNN□
		470pF	±5%	CL05C471JB5NNN□
		560pF	±5%	CL05C561JB5NNN□
		680pF	±5%	CL05C681JB5NNN□
		820pF	±5%	CL05C821JB5NNN□
		1.0nF	±1%	CL05C102FB5NNN□
		1.0nF	±5%	CL05C102JB5NNN□

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	
0.90mm	16Vdc	68pF	±1%	CL10C680F08NNN□	
		68pF	±2%	CL10C680G08NNN□	
		100pF	±2%	CL10C101G08NNN□	
		820pF	±5%	CL10C821J08NNN□	
		1.0nF	±5%	CL10C102J08NNN□	
		2.2nF	±5%	CL10C222J08NNN□	
		3.9nF	±5%	CL10C392J08NNN□	
		25Vdc	10pF	±0.5pF	CL10C100DA8NNN□
			10pF	±5%	CL10C100JA8NNN□
			15pF	±5%	CL10C150JA8NNN□
			20pF	±5%	CL10C200JA8NNN□
			33pF	±5%	CL10C330JA8NNN□
			47pF	±5%	CL10C470JA8NNN□
			68pF	±5%	CL10C680JA8NNN□
			100pF	±5%	CL10C101JA8NNN□
	100pF		±10%	CL10C101KA8NNN□	
	120pF		±5%	CL10C121JA8NNN□	
	150pF		±5%	CL10C151JA8NNN□	
	180pF		±5%	CL10C181JA8NNN□	
	270pF		±10%	CL10C271KA8NNN□	
	330pF		±10%	CL10C331KA8NNN□	
	390pF		±5%	CL10C391JA8NNN□	
	470pF		±5%	CL10C471JA8NNN□	
	560pF		±5%	CL10C561JA8NNN□	
	680pF		±5%	CL10C681JA8NNN□	
	820pF	±5%	CL10C821JA8NNN□		
	1.5nF	±2%	CL10C152GA8NNN□		
	1.5nF	±5%	CL10C152JA8NNN□		
	1.8nF	±5%	CL10C182JA8NNN□		
	10nF	±5%	CL10C103JA8NNN□		
	1.0nF	±2%	CL10C102GA8NNN□		
	1.0nF	±5%	CL10C102JA8NNN□		
	2.2nF	±2%	CL10C222GA8NNN□		
2.2nF	±5%	CL10C222JA8NNN□			
3.3nF	±2%	CL10C332GA8NNN□			
3.3nF	±5%	CL10C332JA8NNN□			
3.9nF	±5%	CL10C392JA8NNN□			
50Vdc	0.2pF	±0.1pF	CL10C0R2BB8NNN□		
	0.2pF	±0.25pF	CL10C0R2CB8NNN□		
	0.3pF	±0.1pF	CL10C0R3BB8NNN□		
	0.3pF	±0.25pF	CL10C0R3CB8NNN□		

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (COG)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.90mm	50Vdc	0.47pF	±0.1pF	CL10CR47BB8NNN□	0.90mm	50Vdc	6.8pF	±0.25pF	CL10C6R8CB8NNN□
		0.5pF	±0.1pF	CL10C0R5BB8NNN□			6.8pF	±0.5pF	CL10C6R8DB8NNN□
		0.5pF	±0.25pF	CL10C0R5CB8NNN□			7.0pF	±0.1pF	CL10C070BB8NNN□
		0.56pF	±0.1pF	CL10CR56BB8NNN□			7.0pF	±0.25pF	CL10C070CB8NNN□
		0.68pF	±0.1pF	CL10CR68BB8NNN□			7.0pF	±0.5pF	CL10C070DB8NNN□
		0.75pF	±0.1pF	CL10CR75BB8NNN□			7.5pF	±0.1pF	CL10C7R5BB8NNN□
		0.75pF	±0.25pF	CL10CR75CB8NNN□			7.5pF	±0.25pF	CL10C7R5CB8NNN□
		0.8pF	±0.1pF	CL10C0R8BB8NNN□			7.5pF	±0.5pF	CL10C7R5DB8NNN□
		0.82pF	±0.1pF	CL10CR82BB8NNN□			8.0pF	±0.25pF	CL10C080CB8NNN□
		1.0pF	±0.1pF	CL10C010BB8NNN□			8.0pF	±0.5pF	CL10C080DB8NNN□
		1.0pF	±0.25pF	CL10C010CB8NNN□			8.2pF	±0.1pF	CL10C8R2BB8NNN□
		1.2pF	±0.1pF	CL10C1R2BB8NNN□			8.2pF	±0.25pF	CL10C8R2CB8NNN□
		1.2pF	±0.25pF	CL10C1R2CB8NNN□			8.2pF	±0.5pF	CL10C8R2DB8NNN□
		1.5pF	±0.1pF	CL10C1R5BB8NNN□			9.0pF	±0.25pF	CL10C090CB8NNN□
		1.5pF	±0.25pF	CL10C1R5CB8NNN□			9.0pF	±0.5pF	CL10C090DB8NNN□
		1.8pF	±0.1pF	CL10C1R8BB8NNN□			9.1pF	±0.25pF	CL10C9R1CB8NNN□
		1.8pF	±0.25pF	CL10C1R8CB8NNN□			9.1pF	±0.5pF	CL10C9R1DB8NNN□
		2.0pF	±0.1pF	CL10C020BB8NNN□			10pF	±0.1pF	CL10C100BB8NNN□
		2.0pF	±0.25pF	CL10C020CB8NNN□			10pF	±0.25pF	CL10C100CB8NNN□
		2.2pF	±0.1pF	CL10C2R2BB8NNN□			10pF	±0.5pF	CL10C100DB8NNN□
		2.2pF	±0.25pF	CL10C2R2CB8NNN□			10pF	±1%	CL10C100FB8NNN□
		2.4pF	±0.1pF	CL10C2R4BB8NNN□			10pF	±2%	CL10C100GB8NNN□
		2.4pF	±0.25pF	CL10C2R4CB8NNN□			10pF	±5%	CL10C100JB8NNN□
		2.5pF	±0.1pF	CL10C2R5BB8NNN□			10pF	±10%	CL10C100KB8NNN□
		2.5pF	±0.25pF	CL10C2R5CB8NNN□			11pF	±2%	CL10C110GB8NNN□
		2.7pF	±0.1pF	CL10C2R7BB8NNN□			11pF	±5%	CL10C110JB8NNN□
		2.7pF	±0.25pF	CL10C2R7CB8NNN□			12pF	±1%	CL10C120FB8NNN□
		3.0pF	±0.1pF	CL10C030BB8NNN□			12pF	±2%	CL10C120GB8NNN□
		3.0pF	±0.25pF	CL10C030CB8NNN□			12pF	±5%	CL10C120JB8NNN□
		3.3pF	±0.1pF	CL10C3R3BB8NNN□			13pF	±2%	CL10C130GB8NNN□
		3.3pF	±0.25pF	CL10C3R3CB8NNN□			13pF	±5%	CL10C130JB8NNN□
		3.5pF	±0.25pF	CL10C3R5CB8NNN□			14pF	±5%	CL10C140JB8NNN□
		3.6pF	±0.1pF	CL10C3R6BB8NNN□			15pF	±1%	CL10C150FB8NNN□
		3.6pF	±0.25pF	CL10C3R6CB8NNN□			15pF	±2%	CL10C150GB8NNN□
		3.9pF	±0.1pF	CL10C3R9BB8NNN□			15pF	±5%	CL10C150JB8NNN□
		3.9pF	±0.25pF	CL10C3R9CB8NNN□			15pF	±10%	CL10C150KB8NNN□
		4.0pF	±0.1pF	CL10C040BB8NNN□			16pF	±5%	CL10C160JB8NNN□
		4.0pF	±0.25pF	CL10C040CB8NNN□			17pF	±5%	CL10C170JB8NNN□
		4.3pF	±0.1pF	CL10C4R3BB8NNN□			18pF	±1%	CL10C180FB8NNN□
		4.3pF	±0.25pF	CL10C4R3CB8NNN□			18pF	±2%	CL10C180GB8NNN□
4.7pF	±0.1pF	CL10C4R7BB8NNN□	18pF	±5%	CL10C180JB8NNN□				
4.7pF	±0.25pF	CL10C4R7CB8NNN□	19pF	±5%	CL10C190JB8NNN□				
5.0pF	±0.1pF	CL10C050BB8NNN□	20pF	±1%	CL10C200FB8NNN□				
5.0pF	±0.25pF	CL10C050CB8NNN□	20pF	±2%	CL10C200GB8NNN□				
5.0pF	±0.5pF	CL10C050DB8NNN□	20pF	±5%	CL10C200JB8NNN□				
5.1pF	±0.25pF	CL10C5R1CB8NNN□	21pF	±5%	CL10C210JB8NNN□				
5.6pF	±0.1pF	CL10C5R6BB8NNN□	22pF	±1%	CL10C220FB8NNN□				
5.6pF	±0.25pF	CL10C5R6CB8NNN□	22pF	±2%	CL10C220GB8NNN□				
5.6pF	±0.5pF	CL10C5R6DB8NNN□	22pF	±5%	CL10C220JB8NNN□				
6.0pF	±0.25pF	CL10C060CB8NNN□	22pF	±10%	CL10C220KB8NNN□				
6.0pF	±0.5pF	CL10C060DB8NNN□	23pF	±5%	CL10C230JB8NNN□				
6.2pF	±0.25pF	CL10C6R2CB8NNN□	24pF	±2%	CL10C240GB8NNN□				
6.2pF	±0.5pF	CL10C6R2DB8NNN□	24pF	±5%	CL10C240JB8NNN□				
6.8pF	±0.1pF	CL10C6R8BB8NNN□	25pF	±5%	CL10C250JB8NNN□				

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (COG)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.90mm	50Vdc	26pF	±5%	CL10C260JB8NNN□	0.90mm	50Vdc	91pF	±5%	CL10C910JB8NNN□
		27pF	±1%	CL10C270FB8NNN□			95pF	±5%	CL10C950JB8NNN□
		27pF	±2%	CL10C270GB8NNN□			100pF	±1%	CL10C101FB8NNN□
		27pF	±5%	CL10C270JB8NNN□			100pF	±2%	CL10C101GB8NNN□
		28pF	±2%	CL10C280GB8NNN□			100pF	±5%	CL10C101JB8NNN□
		28pF	±5%	CL10C280JB8NNN□			100pF	±10%	CL10C101KB8NNN□
		30pF	±1%	CL10C300FB8NNN□			110pF	±5%	CL10C111JB8NNN□
		30pF	±5%	CL10C300JB8NNN□			120pF	±1%	CL10C121FB8NNN□
		32pF	±2%	CL10C320GB8NNN□			120pF	±2%	CL10C121GB8NNN□
		32pF	±5%	CL10C320JB8NNN□			120pF	±5%	CL10C121JB8NNN□
		33pF	±1%	CL10C330FB8NNN□			120pF	±10%	CL10C121KB8NNN□
		33pF	±2%	CL10C330GB8NNN□			130pF	±1%	CL10C131FB8NNN□
		33pF	±5%	CL10C330JB8NNN□			130pF	±5%	CL10C131JB8NNN□
		33pF	±10%	CL10C330KB8NNN□			140pF	±5%	CL10C141JB8NNN□
		35pF	±2%	CL10C350GB8NNN□			150pF	±2%	CL10C151GB8NNN□
		35pF	±5%	CL10C350JB8NNN□			150pF	±5%	CL10C151JB8NNN□
		36pF	±2%	CL10C360GB8NNN□			160pF	±5%	CL10C161JB8NNN□
		36pF	±5%	CL10C360JB8NNN□			170pF	±2%	CL10C171GB8NNN□
		39pF	±1%	CL10C390FB8NNN□			170pF	±5%	CL10C171JB8NNN□
		39pF	±2%	CL10C390GB8NNN□			180pF	±1%	CL10C181FB8NNN□
		39pF	±5%	CL10C390JB8NNN□			180pF	±2%	CL10C181GB8NNN□
		41pF	±2%	CL10C410GB8NNN□			180pF	±5%	CL10C181JB8NNN□
		41pF	±5%	CL10C410JB8NNN□			190pF	±5%	CL10C191JB8NNN□
		42pF	±5%	CL10C420JB8NNN□			200pF	±1%	CL10C201FB8NNN□
		43pF	±5%	CL10C430JB8NNN□			200pF	±5%	CL10C201JB8NNN□
		47pF	±1%	CL10C470FB8NNN□			220pF	±1%	CL10C221FB8NNN□
		47pF	±2%	CL10C470GB8NNN□			220pF	±2%	CL10C221GB8NNN□
		47pF	±5%	CL10C470JB8NNN□			220pF	±5%	CL10C221JB8NNN□
		47pF	±10%	CL10C470KB8NNN□			220pF	±10%	CL10C221KB8NNN□
		50pF	±5%	CL10C500JB8NNN□			240pF	±5%	CL10C241JB8NNN□
		51pF	±2%	CL10C510GB8NNN□			250pF	±5%	CL10C251JB8NNN□
		51pF	±5%	CL10C510JB8NNN□			270pF	±1%	CL10C271FB8NNN□
		56pF	±1%	CL10C560FB8NNN□			270pF	±2%	CL10C271GB8NNN□
		56pF	±2%	CL10C560GB8NNN□			270pF	±5%	CL10C271JB8NNN□
		56pF	±5%	CL10C560JB8NNN□			280pF	±5%	CL10C281JB8NNN□
		56pF	±10%	CL10C560KB8NNN□			300pF	±5%	CL10C301JB8NNN□
		60pF	±5%	CL10C600JB8NNN□			330pF	±0.25pF	CL10C331CB8NNN□
		62pF	±2%	CL10C620GB8NNN□			330pF	±1%	CL10C331FB8NNN□
		62pF	±5%	CL10C620JB8NNN□			330pF	±2%	CL10C331GB8NNN□
		68pF	±1%	CL10C680FB8NNN□			330pF	±5%	CL10C331JB8NNN□
		68pF	±2%	CL10C680GB8NNN□			350pF	±5%	CL10C351JB8NNN□
68pF	±5%	CL10C680JB8NNN□	360pF	±5%	CL10C361JB8NNN□				
68pF	±10%	CL10C680KB8NNN□	390pF	±1%	CL10C391FB8NNN□				
70pF	±2%	CL10C700GB8NNN□	390pF	±2%	CL10C391GB8NNN□				
70pF	±5%	CL10C700JB8NNN□	390pF	±5%	CL10C391JB8NNN□				
75pF	±2%	CL10C750GB8NNN□	390pF	±10%	CL10C391KB8NNN□				
75pF	±5%	CL10C750JB8NNN□	430pF	±5%	CL10C431JB8NNN□				
80pF	±2%	CL10C800GB8NNN□	470pF	±1%	CL10C471FB8NNN□				
80pF	±5%	CL10C800JB8NNN□	470pF	±2%	CL10C471GB8NNN□				
82pF	±1%	CL10C820FB8NNN□	470pF	±5%	CL10C471JB8NNN□				
82pF	±2%	CL10C820GB8NNN□	470pF	±10%	CL10C471KB8NNN□				
82pF	±5%	CL10C820JB8NNN□	500pF	±5%	CL10C501JB8NNN□				
90pF	±5%	CL10C900JB8NNN□	510pF	±5%	CL10C511JB8NNN□				
91pF	±2%	CL10C910JB8NNN□	560pF	±1%	CL10C561FB8NNN□				

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (COG)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.90mm	50Vdc	560pF	±2%	CL10C561GB8NNN □
		560pF	±5%	CL10C561JB8NNN □
		560pF	±10%	CL10C561KB8NNN □
		620pF	±5%	CL10C621JB8NNN □
		680pF	±1%	CL10C681FB8NNN □
		680pF	±2%	CL10C681GB8NNN □
		680pF	±5%	CL10C681JB8NNN □
		680pF	±10%	CL10C681KB8NNN □
		720pF	±5%	CL10C721JB8NNN □
		750pF	±5%	CL10C751JB8NNN □
		820pF	±1%	CL10C821FB8NNN □
		820pF	±2%	CL10C821GB8NNN □
		820pF	±5%	CL10C821JB8NNN □
		820pF	±10%	CL10C821KB8NNN □
		910pF	±5%	CL10C911JB8NNN □
		1.0nF	±1%	CL10C102FB8NNN □
		1.0nF	±2%	CL10C102GB8NNN □
		1.0nF	±5%	CL10C102JB8NNN □
		1.2nF	±5%	CL10C122JB8NNN □
		1.5nF	±5%	CL10C152JB8NNN □
1.8nF	±5%	CL10C182JB8NNN □		
2.2nF	±5%	CL10C222JB8NNN □		
2.7nF	±5%	CL10C272JB8NNN □		
3.3nF	±5%	CL10C332JB8NNN □		
4.7nF	±5%	CL10C472JB8NNN □		
5.6nF	±5%	CL10C562JB8NNN □		

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	
0.75mm	25Vdc	220pF	±2%	CL21C221GAANNN □	
		220pF	±5%	CL21C221JAANNN □	
		270pF	±5%	CL21C271JAANNN □	
		680pF	±5%	CL21C681JAANNN □	
		1.5nF	±5%	CL21C152JAANNN □	
		3.9nF	±5%	CL21C392JAANNN □	
		50Vdc	0.47pF	±0.1pF	CL21CR47BBANNN □
			0.47pF	±0.25pF	CL21CR47CBANNN □
			0.5pF	±0.1pF	CL21C0R5BBANNN □
			0.5pF	±0.25pF	CL21C0R5CBANNN □
	0.68pF		±0.1pF	CL21CR68BBANNN □	
	0.75pF		±0.1pF	CL21CR75BBANNN □	
	0.82pF		±0.1pF	CL21CR82BBANNN □	
	0.82pF		±0.25pF	CL21CR82CBANNN □	
	1.0pF		±0.1pF	CL21C010BBANNN □	
	1.0pF		±0.25pF	CL21C010CBANNN □	
	1.2pF	±0.1pF	CL21C1R2BBANNN □		
	1.2pF	±0.25pF	CL21C1R2CBANNN □		
	1.5pF	±0.1pF	CL21C1R5BBANNN □		
	1.5pF	±0.25pF	CL21C1R5CBANNN □		
1.8pF	±0.1pF	CL21C1R8BBANNN □			
1.8pF	±0.25pF	CL21C1R8CBANNN □			
1.8pF	±0.5pF	CL21C1R8DBANNN □			

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.75mm	50Vdc	2.0pF	±0.25pF	CL21C020CBANNN □
		2.2pF	±0.1pF	CL21C2R2BBANNN □
		2.2pF	±0.25pF	CL21C2R2CBANNN □
		2.4pF	±0.25pF	CL21C2R4CBANNN □
		2.5pF	±0.25pF	CL21C2R5CBANNN □
		2.7pF	±0.1pF	CL21C2R7BBANNN □
		2.7pF	±0.25pF	CL21C2R7CBANNN □
		3.0pF	±0.1pF	CL21C030BBANNN □
		3.0pF	±0.25pF	CL21C030CBANNN □
		3.2pF	±0.25pF	CL21C3R2CBANNN □
		3.3pF	±0.1pF	CL21C3R3BBANNN □
		3.3pF	±0.25pF	CL21C3R3CBANNN □
		3.6pF	±0.1pF	CL21C3R6BBANNN □
		3.6pF	±0.25pF	CL21C3R6CBANNN □
		3.9pF	±0.1pF	CL21C3R9BBANNN □
		3.9pF	±0.25pF	CL21C3R9CBANNN □
		4.0pF	±0.1pF	CL21C040BBANNN □
		4.0pF	±0.25pF	CL21C040CBANNN □
		4.7pF	±0.1pF	CL21C4R7BBANNN □
		4.7pF	±0.25pF	CL21C4R7CBANNN □
		5.0pF	±0.1pF	CL21C050BBANNN □
		5.0pF	±0.25pF	CL21C050CBANNN □
		5.1pF	±0.25pF	CL21C5R1CBANNN □
		5.6pF	±0.25pF	CL21C5R6CBANNN □
		5.6pF	±0.5pF	CL21C5R6DBANNN □
		6.0pF	±0.25pF	CL21C060CBANNN □
		6.0pF	±0.5pF	CL21C060DBANNN □
		6.2pF	±0.25pF	CL21C6R2CBANNN □
		6.8pF	±0.25pF	CL21C6R8CBANNN □
		6.8pF	±0.5pF	CL21C6R8DBANNN □
		7.0pF	±0.25pF	CL21C070CBANNN □
		7.0pF	±0.5pF	CL21C070DBANNN □
		7.5pF	±0.25pF	CL21C7R5CBANNN □
		7.5pF	±0.5pF	CL21C7R5DBANNN □
		8.0pF	±0.25pF	CL21C080CBANNN □
		8.0pF	±0.5pF	CL21C080DBANNN □
		8.2pF	±0.1pF	CL21C8R2BBANNN □
		8.2pF	±0.25pF	CL21C8R2CBANNN □
		8.2pF	±0.5pF	CL21C8R2DBANNN □
		9.0pF	±0.25pF	CL21C090CBANNN □
9.0pF	±0.5pF	CL21C090DBANNN □		
10pF	±0.1pF	CL21C100BBANNN □		
10pF	±0.25pF	CL21C100CBANNN □		
10pF	±0.5pF	CL21C100DBANNN □		
10pF	±1%	CL21C100FBANNN □		
10pF	±2%	CL21C100GBANNN □		
10pF	±5%	CL21C100JBANNN □		
12pF	±1%	CL21C120FBANNN □		
12pF	±2%	CL21C120GBANNN □		
12pF	±5%	CL21C120JBANNN □		
12pF	±5%	CL21C130JBANNN □		
13pF	±5%	CL21C130JBANNN □		
14pF	±5%	CL21C140JBANNN □		
15pF	±2%	CL21C150GBANNN □		
15pF	±5%	CL21C150JBANNN □		

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (COG)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.75mm	50Vdc	15pF	±10%	CL21C150KBANNN□	0.75mm	50Vdc	75pF	±5%	CL21C750JBANNN□
		16pF	±5%	CL21C160JBANNN□			80pF	±2%	CL21C800GBANNN□
		17pF	±5%	CL21C170JBANNN□			80pF	±5%	CL21C800JBANNN□
		18pF	±1%	CL21C180FBANNN□			82pF	±1%	CL21C820FBANNN□
		18pF	±2%	CL21C180GBANNN□			82pF	±2%	CL21C820GBANNN□
		18pF	±5%	CL21C180JBANNN□			82pF	±5%	CL21C820JBANNN□
		20pF	±2%	CL21C200GBANNN□			90pF	±5%	CL21C900JBANNN□
		20pF	±5%	CL21C200JBANNN□			91pF	±5%	CL21C910JBANNN□
		22pF	±1%	CL21C220FBANNN□			100pF	±1%	CL21C101FBANNN□
		22pF	±2%	CL21C220GBANNN□			100pF	±2%	CL21C101GBANNN□
		22pF	±5%	CL21C220JBANNN□			100pF	±5%	CL21C101JBANNN□
		22pF	±10%	CL21C220KBANNN□			100pF	±10%	CL21C101KBANNN□
		23pF	±5%	CL21C230JBANNN□			110pF	±5%	CL21C111JBANNN□
		24pF	±2%	CL21C240GBANNN□			120pF	±1%	CL21C121FBANNN□
		24pF	±5%	CL21C240JBANNN□			120pF	±2%	CL21C121GBANNN□
		25pF	±5%	CL21C250JBANNN□			120pF	±5%	CL21C121JBANNN□
		27pF	±1%	CL21C270FBANNN□			130pF	±5%	CL21C131JBANNN□
		27pF	±2%	CL21C270GBANNN□			150pF	±1%	CL21C151FBANNN□
		27pF	±5%	CL21C270JBANNN□			150pF	±2%	CL21C151GBANNN□
		28pF	±5%	CL21C280JBANNN□			150pF	±5%	CL21C151JBANNN□
		30pF	±5%	CL21C300JBANNN□			160pF	±5%	CL21C161JBANNN□
		32pF	±2%	CL21C320GBANNN□			180pF	±1%	CL21C181FBANNN□
		32pF	±5%	CL21C320JBANNN□			180pF	±2%	CL21C181GBANNN□
		33pF	±1%	CL21C330FBANNN□			180pF	±5%	CL21C181JBANNN□
		33pF	±2%	CL21C330GBANNN□			200pF	±5%	CL21C201JBANNN□
		33pF	±5%	CL21C330JBANNN□			220pF	±1%	CL21C221FBANNN□
		33pF	±10%	CL21C330KBANNN□			220pF	±2%	CL21C221GBANNN□
		36pF	±5%	CL21C360JBANNN□			220pF	±5%	CL21C221JBANNN□
		38pF	±2%	CL21C380GBANNN□			220pF	±10%	CL21C221KBANNN□
		38pF	±5%	CL21C380JBANNN□			240pF	±5%	CL21C241JBANNN□
		39pF	±2%	CL21C390GBANNN□			250pF	±5%	CL21C251JBANNN□
		39pF	±5%	CL21C390JBANNN□			260pF	±5%	CL21C261JBANNN□
		40pF	±2%	CL21C400GBANNN□			270pF	±1%	CL21C271FBANNN□
		40pF	±5%	CL21C400JBANNN□			270pF	±2%	CL21C271GBANNN□
		43pF	±5%	CL21C430JBANNN□			270pF	±5%	CL21C271JBANNN□
		47pF	±1%	CL21C470FBANNN□			300pF	±5%	CL21C301JBANNN□
		47pF	±2%	CL21C470GBANNN□			330pF	±1%	CL21C331FBANNN□
		47pF	±5%	CL21C470JBANNN□			330pF	±2%	CL21C331GBANNN□
		47pF	±10%	CL21C470KBANNN□			330pF	±5%	CL21C331JBANNN□
		50pF	±5%	CL21C500JBANNN□			360pF	±5%	CL21C361JBANNN□
		51pF	±2%	CL21C510GBANNN□			390pF	±1%	CL21C391FBANNN□
		51pF	±5%	CL21C510JBANNN□			390pF	±2%	CL21C391GBANNN□
		56pF	±1%	CL21C560FBANNN□			390pF	±5%	CL21C391JBANNN□
		56pF	±2%	CL21C560GBANNN□			430pF	±5%	CL21C431JBANNN□
		56pF	±5%	CL21C560JBANNN□			470pF	±1%	CL21C471FBANNN□
60pF	±5%	CL21C600JBANNN□	470pF	±2%	CL21C471GBANNN□				
62pF	±5%	CL21C620JBANNN□	470pF	±5%	CL21C471JBANNN□				
68pF	±1%	CL21C680FBANNN□	470pF	±10%	CL21C471KBANNN□				
68pF	±2%	CL21C680GBANNN□	510pF	±5%	CL21C511JBANNN□				
68pF	±5%	CL21C680JBANNN□	560pF	±1%	CL21C561JBANNN□				
68pF	±10%	CL21C680KBANNN□	560pF	±2%	CL21C561GBANNN□				
70pF	±5%	CL21C700JBANNN□	560pF	±5%	CL21C561JBANNN□				
70pF	±10%	CL21C700KBANNN□	680pF	±5%	CL21C681JBANNN□				
75pF	±2%	CL21C750GBANNN□	5.0pF	±0.25pF	CL21C050CBCNNN□				

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (COG)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.95mm	50Vdc	10pF	±0.1pF	CL21C100BCCNNN □
		10pF	±5%	CL21C100JBCNNN □
		11pF	±2%	CL21C110GBCNNN □
		11pF	±5%	CL21C110JBCNNN □
		12pF	±2%	CL21C120GBCNNN □
		12pF	±5%	CL21C120JBCNNN □
		13pF	±2%	CL21C130GBCNNN □
		15pF	±2%	CL21C150GBCNNN □
		15pF	±5%	CL21C150JBCNNN □
		16pF	±2%	CL21C160GBCNNN □
		18pF	±2%	CL21C180GBCNNN □
		18pF	±5%	CL21C180JBCNNN □
		20pF	±2%	CL21C200GBCNNN □
		20pF	±5%	CL21C200JBCNNN □
		22pF	±2%	CL21C220GBCNNN □
		22pF	±5%	CL21C220JBCNNN □
		24pF	±2%	CL21C240GBCNNN □
		30pF	±2%	CL21C300GBCNNN □
		30pF	±5%	CL21C300JBCNNN □
		36pF	±2%	CL21C360GBCNNN □
		36pF	±5%	CL21C360JBCNNN □
		39pF	±5%	CL21C390JBCNNN □
		43pF	±2%	CL21C430GBCNNN □
		43pF	±5%	CL21C430JBCNNN □
		47pF	±5%	CL21C470JBCNNN □
		51pF	±5%	CL21C510JBCNNN □
		51pF	±10%	CL21C510KBCNNN □
		56pF	±2%	CL21C560GBCNNN □
		56pF	±5%	CL21C560JBCNNN □
		68pF	±5%	CL21C680JBCNNN □
		82pF	±5%	CL21C820JBCNNN □
		100pF	±5%	CL21C101JBCNNN □
		120pF	±1%	CL21C121FBCNNN □
		120pF	±5%	CL21C121JBCNNN □
120pF	±10%	CL21C121KBCNNN □		
150pF	±5%	CL21C151JBCNNN □		
180pF	±5%	CL21C181JBCNNN □		
220pF	±5%	CL21C221JBCNNN □		
300pF	±5%	CL21C301JBCNNN □		
330pF	±2%	CL21C331GBCNNN □		
470pF	±5%	CL21C471JBCNNN □		
510pF	±5%	CL21C511JBCNNN □		
560pF	±5%	CL21C561JBCNNN □		
600pF	±5%	CL21C601JBCNNN □		
620pF	±5%	CL21C621JBCNNN □		
680pF	±1%	CL21C681FBCNNN □		
680pF	±2%	CL21C681GBCNNN □		
680pF	±5%	CL21C681JBCNNN □		
750pF	±5%	CL21C751JBCNNN □		
820pF	±1%	CL21C821FBCNNN □		
820pF	±2%	CL21C821GBCNNN □		
820pF	±5%	CL21C821JBCNNN □		
910pF	±5%	CL21C911JBCNNN □		
1.0nF	±1%	CL21C102FBCNNN □		

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	
0.95mm	50Vdc	1.0nF	±2%	CL21C102GBCNNN □	
		1.0nF	±5%	CL21C102JBCNNN □	
		1.0nF	±10%	CL21C102KBCNNN □	
1.35mm	25Vdc	270pF	±5%	CL21C271JAFNNN □	
		2.7nF	±5%	CL21C272JAFNNN □	
		3.3nF	±5%	CL21C332JAFNNN □	
		3.9nF	±5%	CL21C392JAFNNN □	
		4.7nF	±5%	CL21C472JAFNNN □	
		4.7nF	±10%	CL21C472KAFNNN □	
		8.2nF	±5%	CL21C822JAFNNN □	
		10nF	±2%	CL21C103GAFNNN □	
		10nF	±5%	CL21C103JAFNNN □	
		50Vdc	1.2nF	±1%	CL21C122FBFNNN □
			1.2nF	±2%	CL21C122GBFNNN □
			1.2nF	±5%	CL21C122JBFNNN □
			1.3nF	±5%	CL21C132JBFNNN □
			1.5nF	±1%	CL21C152FBFNNN □
			1.5nF	±2%	CL21C152GBFNNN □
			1.5nF	±5%	CL21C152JBFNNN □
			1.6nF	±5%	CL21C162JBFNNN □
1.8nF	±2%		CL21C182GBFNNN □		
1.8nF	±5%		CL21C182JBFNNN □		
2.0nF	±5%		CL21C202JBFNNN □		
2.2nF	±2%		CL21C222GBFNNN □		
2.2nF	±5%		CL21C222JBFNNN □		
2.7nF	±5%		CL21C272JBFNNN □		
3.3nF	±5%		CL21C332JBFNNN □		
3.9nF	±5%		CL21C392JBFNNN □		
4.7nF	±5%		CL21C472JBFNNN □		
5.6nF	±5%	CL21C562JBFNNN □			
6.8nF	±5%	CL21C682JBFNNN □			
10nF	±5%	CL21C103JBFNNN □			

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
1.00mm	25Vdc	330pF	±5%	CL31C331JACNNN □
		470pF	±10%	CL31C471KACNNN □
	50Vdc	0.5pF	±0.25pF	CL31C0R5CBCNNN □
		1.0pF	±0.25pF	CL31C010CBCNNN □
		1.2pF	±0.25pF	CL31C1R2CBCNNN □
		1.8pF	±0.25pF	CL31C1R8CBCNNN □
		2.0pF	±0.25pF	CL31C020CBCNNN □
		2.2pF	±0.25pF	CL31C2R2CBCNNN □
		2.7pF	±0.1pF	CL31C2R7BCCNNN □
		2.7pF	±0.25pF	CL31C2R7CBCNNN □
		3.0pF	±0.25pF	CL31C030CBCNNN □
		3.3pF	±0.25pF	CL31C3R3CBCNNN □
		3.9pF	±0.1pF	CL31C3R9BCCNNN □
		4.3pF	±0.1pF	CL31C4R3BCCNNN □
		4.7pF	±0.25pF	CL31C4R7CBCNNN □
		5.6pF	±0.25pF	CL31C5R6CBCNNN □
		5.6pF	±0.5pF	CL31C5R6DBCNNN □

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (COG)

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
1.00mm	50Vdc	6.0pF	±0.5pF	CL31C060DBCNNN□	1.00mm	50Vdc	200pF	±5%	CL31C201JBCNNN□
		6.8pF	±0.25pF	CL31C6R8CBCNNN□			220pF	±1%	CL31C221FBCNNN□
		8.0pF	±0.25pF	CL31C080CBCNNN□			220pF	±2%	CL31C221GBCNNN□
		8.2pF	±0.25pF	CL31C8R2CBCNNN□			220pF	±5%	CL31C221JBCNNN□
		10pF	±0.5pF	CL31C100DBCNNN□			240pF	±5%	CL31C241JBCNNN□
		10pF	±5%	CL31C100JBCNNN□			270pF	±5%	CL31C271JBCNNN□
		11pF	±5%	CL31C110JBCNNN□			300pF	±5%	CL31C301JBCNNN□
		12pF	±5%	CL31C120JBCNNN□			330pF	±1%	CL31C331FBCNNN□
		13pF	±5%	CL31C130JBCNNN□			330pF	±2%	CL31C331GBCNNN□
		15pF	±5%	CL31C150JBCNNN□			330pF	±5%	CL31C331JBCNNN□
		15pF	±10%	CL31C150KBCNNN□			360pF	±1%	CL31C361FBCNNN□
		16pF	±5%	CL31C160JBCNNN□			360pF	±5%	CL31C361JBCNNN□
		18pF	±5%	CL31C180JBCNNN□			390pF	±1%	CL31C391FBCNNN□
		20pF	±2%	CL31C200GBCNNN□			390pF	±2%	CL31C391GBCNNN□
		20pF	±5%	CL31C200JBCNNN□			390pF	±5%	CL31C391JBCNNN□
		22pF	±1%	CL31C220FBCNNN□			430pF	±5%	CL31C431JBCNNN□
		22pF	±5%	CL31C220JBCNNN□			470pF	±1%	CL31C471FBCNNN□
		24pF	±2%	CL31C240GBCNNN□			470pF	±2%	CL31C471GBCNNN□
		24pF	±5%	CL31C240JBCNNN□			470pF	±5%	CL31C471JBCNNN□
		25pF	±5%	CL31C250JBCNNN□			470pF	±10%	CL31C471KBCNNN□
		27pF	±1%	CL31C270FBCNNN□			510pF	±5%	CL31C511JBCNNN□
		27pF	±2%	CL31C270GBCNNN□			560pF	±1%	CL31C561FBCNNN□
		27pF	±5%	CL31C270JBCNNN□			560pF	±5%	CL31C561JBCNNN□
		30pF	±5%	CL31C300JBCNNN□			620pF	±5%	CL31C621JBCNNN□
		33pF	±1%	CL31C330FBCNNN□			680pF	±1%	CL31C681FBCNNN□
		33pF	±5%	CL31C330JBCNNN□			680pF	±2%	CL31C681GBCNNN□
		36pF	±5%	CL31C360JBCNNN□			680pF	±5%	CL31C681JBCNNN□
		38pF	±2%	CL31C380GBCNNN□			750pF	±5%	CL31C751JBCNNN□
		39pF	±2%	CL31C390GBCNNN□			820pF	±5%	CL31C821JBCNNN□
		39pF	±5%	CL31C390JBCNNN□			910pF	±5%	CL31C911JBCNNN□
		43pF	±2%	CL31C430GBCNNN□			1.0nF	±1%	CL31C102FBCNNN□
		43pF	±5%	CL31C430JBCNNN□			1.0nF	±2%	CL31C102GBCNNN□
		47pF	±5%	CL31C470JBCNNN□			1.0nF	±5%	CL31C102JBCNNN□
		47pF	±10%	CL31C470KBCNNN□			1.2nF	±2%	CL31C122GBCNNN□
		51pF	±5%	CL31C510JBCNNN□			1.2nF	±5%	CL31C122JBCNNN□
		56pF	±2%	CL31C560GBCNNN□			1.5nF	±2%	CL31C152GBCNNN□
		56pF	±5%	CL31C560JBCNNN□			1.5nF	±5%	CL31C152JBCNNN□
		62pF	±5%	CL31C620JBCNNN□			1.8nF	±2%	CL31C182GBCNNN□
		68pF	±2%	CL31C680GBCNNN□			1.8nF	±5%	CL31C182JBCNNN□
		68pF	±5%	CL31C680JBCNNN□			2.0nF	±5%	CL31C202JBCNNN□
82pF	±5%	CL31C820JBCNNN□	2.2nF	±1%	CL31C222FBCNNN□				
91pF	±5%	CL31C910JBCNNN□	2.2nF	±2%	CL31C222GBCNNN□				
100pF	±2%	CL31C101GBCNNN□	2.2nF	±5%	CL31C222JBCNNN□				
100pF	±5%	CL31C101JBCNNN□	1.40mm	25Vdc	4.7nF	±2%	CL31C472GAFNNN□		
100pF	±10%	CL31C101KBCNNN□			8.2nF	±2%	CL31C822GAFNNN□		
110pF	±5%	CL31C111JBCNNN□			8.2nF	±5%	CL31C822JAFNNN□		
120pF	±5%	CL31C121JBCNNN□			10nF	±2%	CL31C103GAFNNN□		
130pF	±5%	CL31C131JBCNNN□			10nF	±5%	CL31C103JAFNNN□		
150pF	±5%	CL31C151JBCNNN□		50Vdc	2.7nF	±5%	CL31C272JBFNNN□		
160pF	±5%	CL31C161JBCNNN□			3.0nF	±5%	CL31C302JBFNNN□		
160pF	±10%	CL31C161KBCNNN□			3.3nF	±1%	CL31C332GBFNNN□		
180pF	±1%	CL31C181FBCNNN□			3.3nF	±2%	CL31C332GBFNNN□		
180pF	±2%	CL31C181GBCNNN□			3.3nF	±5%	CL31C332JBFNNN□		
180pF	±5%	CL31C181JBCNNN□	3.3nF	±10%	CL31C332KBFNNN□				

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (COG)

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	
1.40mm	50Vdc	3.6nF	±5%	CL31C362JBFNNN □	
		3.9nF	±5%	CL31C392JBFNNN □	
		4.7nF	±1%	CL31C472JBFNNN □	
		4.7nF	±2%	CL31C472GBFNNN □	
		4.7nF	±5%	CL31C472JBFNNN □	
1.80mm	16Vdc	120nF	±5%	CL31C124JOHNNN □	
		25Vdc	6.8nF	±2%	CL31C682GAHNNN □
			8.2nF	±5%	CL31C822JAHNNN □
			10nF	±5%	CL31C103JAHNNN □
			39nF	±5%	CL31C393JAHNNN □
			47nF	±5%	CL31C473JAHNNN □
			56nF	±5%	CL31C563JAHNNN □
			68nF	±5%	CL31C683JAHNNN □
			82nF	±5%	CL31C823JAHNNN □
			100nF	±5%	CL31C104JAHNNN □
	50Vdc		5.6nF	±5%	CL31C562JBHNNN □
		6.8nF	±5%	CL31C682JBHNNN □	
		10nF	±2%	CL31C103GBHNNN □	
		15nF	±5%	CL31C153JBHNNN □	
		18nF	±5%	CL31C183JBHNNN □	
		22nF	±5%	CL31C223JBHNNN □	
		27nF	±5%	CL31C273JBHNNN □	
		33nF	±5%	CL31C333JBHNNN □	
		47nF	±5%	CL31C473JBHNNN □	

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
1.45mm	25Vdc	10nF	±5%	CL32C103JAFNNN □
	50Vdc	1.0nF	±5%	CL32C102JBFNNN □
		1.2nF	±5%	CL32C122JBFNNN □
		1.5nF	±5%	CL32C152JBFNNN □
		1.8nF	±5%	CL32C182JBFNNN □
		2.7nF	±5%	CL32C272JBFNNN □
		3.9nF	±5%	CL32C392JBFNNN □
		4.7nF	±5%	CL32C472JBFNNN □
		5.6nF	±5%	CL32C562JBFNNN □
		6.8nF	±5%	CL32C682JBFNNN □
		8.2nF	±1%	CL32C822JBFNNN □
		8.2nF	±5%	CL32C822JBFNNN □
		10nF	±1%	CL32C103JBFNNN □
		10nF	±2%	CL32C103GBFNNN □
		10nF	±5%	CL32C103JBFNNN □
1.80mm	50Vdc	11nF	±5%	CL32C113JBHNNN □

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X5R)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
0.50mm	4.0Vdc	10uF	±20%	CL10A106MR5LQN□	Derating Ref.	0.90mm	16Vdc	1.0uF	±10%	CL10A105K08NINN□		
		6.3Vdc	2.2uF	±10%	CL10A225KQ5LNN□				1.0uF	±20%	CL10A105M08NINN□	
			4.7uF	±10%	CL10A475KQ5LNN□				2.2uF	±10%	CL10A225K08NINN□	
			4.7uF	±20%	CL10A475MQ5LNN□				4.7uF	±10%	CL10A475K08NINN□	Derating
	10uF		±20%	CL10A106MQ5LNN□	Derating Ref.			4.7uF	±20%	CL10A475M08NINN□	Derating	
	10Vdc	1.0uF	±10%	CL10A105KP5LNN□				25Vdc	100nF	±10%	CL10A104K8NINN□	
		2.2uF	±10%	CL10A225KP5LNN□			220nF		±10%	CL10A224K8NINN□		
		4.7uF	±10%	CL10A475KP5LNN□	Derating		220nF		±20%	CL10A224MA8NINN□		
		4.7uF	±20%	CL10A475MP5LNN□	Derating		330nF		±10%	CL10A334K8NINN□		
	16Vdc	1.0uF	±10%	CL10A105K05LNN□			470nF		±10%	CL10A474K8NINN□		
		2.2uF	±10%	CL10A225K05LNN□	Derating		1.0uF		±10%	CL10A105K8NINN□		
		25Vdc	1.0uF	±10%	CL10A105KA5LNN□		Derating	2.2uF	±10%	CL10A225K8NINN□	Derating	
2.2uF			±10%	CL10A225KA5LNN□	Derating	35Vdc	1.0uF	±10%	CL10A105KL8NINN□			
0.60mm	6.3Vdc	4.7uF	±10%	CL10A475KQ5NINN□			2.2uF	±10%	CL10A225KL8NINN□	Derating		
		4.7uF	±20%	CL10A475MQ5NINN□			50Vdc	100nF	±10%	CL10A104K8NINN□		
0.80mm	6.3Vdc	22uF	±20%	CL10A226MQ7LUN□	Derating			220nF	±10%	CL10A224K8NINN□		
	10Vdc	22uF	±20%	CL10A226MP7LUN□	Derating			470nF	±10%	CL10A474K8NINN□		
	16Vdc	22uF	±20%	CL10A226M07JZN□	Derating			1.0uF	±10%	CL10A105K8NINN□		
0.90mm	4.0Vdc	2.2uF	±20%	CL10A225MR8NINN□		0.95mm		4.0Vdc	22uF	±20%	CL10A226MR8NQN□	Derating
		4.7uF	±20%	CL10A475MR8NINN□	Derating				6.3Vdc	4.7uF	±20%	CL10A475MQ8NQN□
		10uF	±10%	CL10A106KR8NINN□	Derating Ref.		10uF	±20%		CL10A106MQ8NQN□		
		10uF	±20%	CL10A106MR8NINN□	Derating Ref.		16Vdc	4.7uF	±10%	CL10A475K08NQN□	Derating	
		22uF	±20%	CL10A226MR8NINN□	Derating			10uF	±10%	CL10A106K08NQN□	Derating Ref.	
	6.3Vdc	470nF	±10%	CL10A474KQ8NINN□				10uF	±20%	CL10A106M08NQN□	Derating Ref.	
		470nF	±20%	CL10A474MQ8NINN□		25Vdc		4.7uF	±10%	CL10A475K8NQN□	Derating	
		680nF	±10%	CL10A684KQ8NINN□			4.7uF	±20%	CL10A475MA8NQN□	Derating		
		1.0uF	±10%	CL10A105KQ8NINN□		1.00mm	4.0Vdc	47uF	±20%	CL10A476MR8NRN□	Derating Ref.	
		1.0uF	±20%	CL10A105MQ8NINN□				6.3Vdc	10uF	±20%	CL10A106MQ8NRN□	Ref.
	2.2uF	±10%	CL10A225KQ8NINN□		22uF		±10%		CL10A226KQ8NRN□	Derating		
	2.2uF	±20%	CL10A225MQ8NINN□		22uF		±20%		CL10A226MQ8NRN□	Derating		
	3.3uF	±10%	CL10A335KQ8NINN□		47uF		±20%		CL10A476MQ8QRN□	Derating		
	3.3uF	±20%	CL10A335MQ8NINN□		10Vdc		22uF	±20%	CL10A226MP8NRN□	Derating		
	4.7uF	±10%	CL10A475KQ8NINN□				25Vdc	10uF	±20%	CL10A106MA8NRN□	Derating Ref.	
	4.7uF	±20%	CL10A475MQ8NINN□		35Vdc			4.7uF	±10%	CL10A475KL8NRN□	Derating	
	10uF	±10%	CL10A106KQ8NINN□	Ref.			1.05mm	6.3Vdc	22uF	±20%	CL10A226MQ8NUN□	Derating
	10uF	±20%	CL10A106MQ8NINN□	Ref.	10Vdc				22uF	±20%	CL10A226MP8NUN□	Derating
	22uF	±20%	CL10A226MQ7NRN□	Ref.				1.10mm	4.0Vdc	47uF	±20%	CL10A476MR8NZN□
	10Vdc	220nF	±10%	CL10A224KP8NINN□						6.3Vdc	47uF	±20%
		330nF	±10%	CL10A334KP8NINN□		16Vdc		330nF	±10%		CL10A334K08NINN□	
		470nF	±10%	CL10A474KP8NINN□				470nF	±10%	CL10A474K08NINN□		
		680nF	±10%	CL10A684KP8NINN□								
		820nF	±10%	CL10A824KP8NINN□								
		1.0uF	±10%	CL10A105KP8NINN□								
		1.0uF	±20%	CL10A105MP8NINN□								
		2.2uF	±10%	CL10A225KP8NINN□								
		2.2uF	±20%	CL10A225MP8NINN□								
		3.3uF	±10%	CL10A335KP8NINN□								
		3.3uF	±20%	CL10A335MP8NINN□								
		4.7uF	±10%	CL10A475KP8NINN□								
	4.7uF	±20%	CL10A475MP8NINN□									
	10uF	±10%	CL10A106KP8NINN□	Derating Ref.								
	10uF	±20%	CL10A106MP8NINN□	Derating Ref.								

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (X5R)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.70mm	10Vdc	2.2uF	±10%	CL21A225KP6LNN □		1.35mm	6.3Vdc	2.2uF	±20%	CL21A225MQFNNN □	
		1.0uF	±20%	CL21A105M06LNN □				3.3uF	±10%	CL21A335KQFNNN □	
	2.2uF	±10%	CL21A225K06LNN □		3.3uF			±20%	CL21A335MQFNNN □		
0.80mm	6.3Vdc	10uF	±10%	CL21A106KQ7LQN □				4.7uF	±10%	CL21A475KQFNNN □	
		47uF	±20%	CL21A476MQ7FRN □	Derating			4.7uF	±20%	CL21A475MQFNNN □	
		47uF	±20%	CL21A476MQ7LRN □	Derating			6.8uF	±10%	CL21A685KQFNNN □	
	10Vdc	10uF	±10%	CL21A106KP7LQN □	Derating			10uF	±10%	CL21A106KQFNNN □	
0.90mm	6.3Vdc	47uF	±20%	CL21A476MQ8LRN □	Derating			10uF	±20%	CL21A106MQFNNN □	
0.95mm	4.0Vdc	22uF	±20%	CL21A226MRCLRN □	Derating			10Vdc	1.0uF	±10%	CL21A105KQFNNN □
		47uF	±20%	CL21A476MRCLRP □	Derating		2.2uF		±10%	CL21A225KQFNNN □	
6.3Vdc	1.0uF	±10%	CL21A105KQCLNN □		2.2uF		±20%		CL21A225MPFNNN □		
	1.0uF	±10%	CL21A105KQCNN □		2.2uF		±20%		CL21A225MPFNNN □		
	4.7uF	±10%	CL21A475KQCLNN □		3.3uF		±10%		CL21A335KQFNNN □		
	4.7uF	±20%	CL21A475MQCLNN □		4.7uF		±10%		CL21A475KQFNNN □		
	10uF	±10%	CL21A106KQCLNN □		4.7uF		±20%		CL21A475MPFNNN □		
	10uF	±10%	CL21A106KQCLRN □		10uF		±10%		CL21A106KQFNNN □		
	10uF	±20%	CL21A106MQCLNN □		10uF		±20%		CL21A106MPFNNN □		
	22uF	±10%	CL21A226KQCLRN □	Derating	22uF		±10%	CL21A684KQFNNN □			
	22uF	±20%	CL21A226MQCLQN □	Derating	1.0uF	±10%	CL21A105KQFNNN □				
	22uF	±20%	CL21A226MQCLRN □	Derating	2.2uF	±10%	CL21A225KQFNNN □				
	47uF	±20%	CL21A476MQCLRN □	Derating	2.2uF	±20%	CL21A225MOFNNN □				
	10Vdc	2.2uF	±10%	CL21A225KQCLNN □		16Vdc	3.3uF	±10%	CL21A335KQFNNN □		
4.7uF		±10%	CL21A475KQCLNN □		4.7uF		±10%	CL21A475KQFNNN □			
4.7uF		±20%	CL21A475MPCLNN □		10uF		±10%	CL21A106KQFNNN □	Derating		
10uF		±10%	CL21A106KQCLNN □	Derating	25Vdc		470nF	±20%	CL21A474MAFNNN □		
10uF		±10%	CL21A106KQCLQN □	Derating			1.0uF	±10%	CL21A105KQFNNN □		
10uF		±20%	CL21A106MPCLNN □	Derating			2.2uF	±10%	CL21A225KQFNNN □		
10uF		±20%	CL21A106MPCLQN □	Derating	50Vdc		1.0uF	±10%	CL21A105KQFNNN □	Derating	
10uF		±20%	CL21A106MPCLRN □	Derating			2.2uF	±10%	CL21A225KQFNNN □	Derating	
22uF		±10%	CL21A226KQCLRN □	Derating			1.40mm	4.0Vdc	22uF	±20%	CL21A226MRQNNN □
22uF		±20%	CL21A226MPCLRN □	Derating	6.3Vdc	47uF			±20%	CL21A476MRQNNN □	Derating
22uF		+80/-20%	CL21A226ZPCLRN □	Derating		4.7uF			±10%	CL21A475KQNNN □	Derating
16Vdc		2.2uF	±10%	CL21A225KQCLNN □				10uF	±10%	CL21A106KQNNN □	Derating
	4.7uF	±10%	CL21A475KQCLNN □		22uF	±10%		CL21A226KQNNN □			
	4.7uF	±10%	CL21A475KQCLRN □		22uF	±20%		CL21A226MQNNN □			
	10uF	±10%	CL21A106KQCLNN □	Derating	10Vdc	22uF		±20%	CL21A226MPQNNN □		
	10uF	±10%	CL21A106KQCLRN □	Derating		16Vdc		10uF	±10%	CL21A106KQNNN □	Derating
	10uF	±10%	CL21A106KQCLSN □	Derating				22uF	±10%	CL21A226KQNNN □	Derating
22uF	±20%	CL21A226MOCLRN □	Derating	22uF	±20%			CL21A226MOQNNN □	Derating		
25Vdc	1.0uF	±10%	CL21A105KQCLNN □		25Vdc	4.7uF		±10%	CL21A475KQNNN □	Derating	
	1.0uF	±10%	CL21A105KQCLRN □			4.7uF		±20%	CL21A475MAQNNN □	Derating	
	2.2uF	±10%	CL21A225KQCLNN □	Derating		22uF	±20%	CL21A226MAQNNN □	Derating		
	4.7uF	±10%	CL21A475KQCLRN □	Derating	50Vdc	2.2uF	±10%	CL21A225KQNNN □	Derating		
10uF	±10%	CL21A106KQCLRN □	Derating	4.7uF		±10%	CL21A475KQNNN □	Derating			
10uF	±10%	CL21A106KQCLSN □	Derating	4.7uF		±20%	CL21A475MAQNNN □	Derating			
35Vdc	4.7uF	±10%	CL21A475KQCLQN □	Derating	50Vdc	2.2uF	±10%	CL21A225KQNNN □	Derating		
	1.0uF	±10%	CL21A105KQCLNN □			4.7uF	±10%	CL21A475KQNNN □	Derating		
50Vdc	1.0uF	±10%	CL21A105KQCLRN □		1.45mm	4.0Vdc	47uF	±20%	CL21A476MRYNNN □		
	1.0uF	±10%	CL21A105KQCLSN □				6.3Vdc	47uF	±10%	CL21A476KQYNNN □	Derating
	1.0uF	±10%	CL21A105KQCLRN □					47uF	±20%	CL21A476MQYNNN □	Derating
1.00mm	6.3Vdc	33uF	±20%	CL21A336MQ9LRN □	Derating	10uF	±10%	CL21A106KAYNNN □	Derating		
		47uF	±20%	CL21A476MQ9LRN □	Derating	25Vdc	47uF	±20%	CL21A476MRYNNN □	Derating	
	50Vdc	2.2uF	±10%	CL21A225KB9LNN □	Derating						
1.20mm	6.3Vdc	33uF	±20%	CL21A336MQELRN □	Derating						
	10Vdc	2.2uF	±10%	CL21A225KPENNN □							
1.25mm	6.3Vdc	47uF	±20%	CL21A476MQMNRN □	Derating						
1.35mm	4.0Vdc	10uF	±20%	CL21A106MRFNNN □							
	6.3Vdc	2.2uF	±10%	CL21A225KQFNNN □							

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X5R)

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
0.95mm	6.3Vdc	10uF	±20%	CL31A106MQCLNN □		
		22uF	±10%	CL31A226KQCLNN □	Derating	
		22uF	±20%	CL31A226MQCLNN □	Derating	
	10Vdc	10uF	±10%	CL31A106KPCLNN □		
		10uF	±20%	CL31A106MPCLNN □		
	16Vdc	2.2uF	±10%	CL31A225KQCLNN □		
		4.7uF	±10%	CL31A475KQCLNN □		
		4.7uF	±20%	CL31A475MOCLNN □		
		10uF	±10%	CL31A106KQCLNN □		
		22uF	±10%	CL31A226KQCLNN □	Derating	
		22uF	±20%	CL31A226MOCLNN □	Derating	
	25Vdc	4.7uF	±10%	CL31A475KACLNN □		
		10uF	±10%	CL31A106KACLNN □	Derating	
		10uF	±20%	CL31A106MACLNN □	Derating	
1.00mm	35Vdc	4.7uF	±10%	CL31A475KL9LNN □	Derating	
	50Vdc	1.0uF	±10%	CL31A105KB9LNN □		
		2.2uF	±10%	CL31A225KB9LNN □		
		4.7uF	±10%	CL31A475KB9LNN □	Derating	
100Vdc	2.2uF	±10%	CL31A225KC9LNN □	Derating		
1.20mm	16Vdc	4.7uF	±10%	CL31A475KOELNN □		
1.25mm	10Vdc	10uF	±10%	CL31A106KPPLNN □		
		10uF	±20%	CL31A106MPPLNN □		
	16Vdc	4.7uF	±10%	CL31A475KOPLNN □		
		4.7uF	±20%	CL31A475MOPLNN □		
	25Vdc	1.0uF	±10%	CL31A105KAPLNN □		
		2.2uF	±10%	CL31A225KAPLNN □		
4.7uF	±10%	CL31A475KAPLNN □				
1.70mm	50Vdc	2.2uF	±10%	CL31A225KBTLNN □		
1.80mm	6.3Vdc	3.3uF	±10%	CL31A335KQHNNN □		
		10uF	±10%	CL31A106KQHNNN □		
		10uF	±20%	CL31A106MQHNNN □		
		15uF	±10%	CL31A156KQHNNN □		
		15uF	±20%	CL31A156MQHNNN □		
		22uF	±10%	CL31A226KQHNNN □		
		22uF	±20%	CL31A226MQHNNN □		
		33uF	±20%	CL31A336MQHNNN □		
		47uF	±10%	CL31A476KQHNNN □		
		47uF	±20%	CL31A476MQHNNN □		
		100uF	±20%	CL31A107MQHNNN □	Derating	
		10Vdc	3.3uF	±10%	CL31A335KPHNNN □	
			4.7uF	±10%	CL31A475KPHNNN □	
			10uF	±10%	CL31A106KPHNNN □	
	10uF		±20%	CL31A106MPHNNN □		
	22uF		±10%	CL31A226KPHNNN □		
	22uF		±20%	CL31A226MPHNNN □		
	47uF		±20%	CL31A476MPHNNN □	Derating	
	100uF		±20%	CL31A107MPHNNN □	Derating	
	16Vdc	2.2uF	±10%	CL31A225KOHNNN □		
		3.3uF	±10%	CL31A335KOHNNN □		
		3.3uF	±20%	CL31A335MOHNNN □		
		4.7uF	±10%	CL31A475KOHNNN □		
		4.7uF	±20%	CL31A475MOHNNN □		
		10uF	±10%	CL31A106KOHNNN □		
		10uF	±20%	CL31A106MOHNNN □		
22uF		±10%	CL31A226KOHNNN □	Derating		
22uF		±20%	CL31A226MOHNNN □	Derating		
47uF		±10%	CL31A476KOHNNN □			

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
1.80mm	16Vdc	22uF	±20%	CL31A226MOHNNN □	Derating
	25Vdc	2.2uF	±10%	CL31A225KAHNNN □	
		3.3uF	±10%	CL31A335KAHNNN □	
		4.7uF	±10%	CL31A475KAHNNN □	
		10uF	±10%	CL31A106KAHNNN □	
		10uF	±20%	CL31A106MAHNNN □	
		22uF	±10%	CL31A226KAHNNN □	Derating
	22uF	±20%	CL31A226MAHNNN □	Derating	
	35Vdc	2.2uF	±10%	CL31A225KLHNNN □	
		2.2uF	±10%	CL31A225KBHNNN □	
	50Vdc	4.7uF	±10%	CL31A475KBHNNN □	
		10uF	±10%	CL31A106KBHNNN □	
		10uF	±20%	CL31A106MBHNNN □	
		10uF	±20%	CL31A106MHNNN □	

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.95mm	16Vdc	10uF	±10%	CL32A106KQCLNN □	
		22uF	±20%	CL32A226MOCLNN □	Derating
1.00mm	25Vdc	10uF	±10%	CL32A106KA9LNN □	
1.25mm	16Vdc	10uF	±10%	CL32A106KOMLNN □	
		10uF	±20%	CL32A106MOMLNN □	
1.50mm	10Vdc	22uF	±10%	CL32A226KPSLNN □	
		22uF	±20%	CL32A226MPSLNN □	
	25Vdc	6.8uF	±10%	CL32A685KASLNN □	
		22uF	±10%	CL32A226KOTFNN □	Derating
1.70mm	16Vdc	22uF	±20%	CL32A226MOTLNN □	Derating
		10uF	±10%	CL32A106KATLNN □	
2.00mm	25Vdc	10uF	±20%	CL32A106MATLNN □	
		4.7uF	±10%	CL32A475KAULNN □	
	35Vdc	10uF	±10%	CL32A106KAULNN □	
		4.7uF	±10%	CL32A475KLULNN □	
2.20mm	10Vdc	10uF	±10%	CL32A106KLULNN □	
		10uF	±20%	CL32A106MLULNN □	
	16Vdc	10uF	±10%	CL32A106KPINNN □	
		10uF	±10%	CL32A106KOILNN □	
25Vdc	2.2uF	±20%	CL32A225MAINNN □		
	4.7uF	±10%	CL32A475KAINNN □		
	10uF	±10%	CL32A106KAILNN □		
	10uF	±20%	CL32A106MAILNN □		
2.70mm	6.3Vdc	22uF	±10%	CL32A226KQJNNN □	
		22uF	±20%	CL32A226MQJNNN □	
		33uF	±20%	CL32A336MQJNNN □	
		47uF	±10%	CL32A476KQJNNN □	
		47uF	±20%	CL32A476MQJNNN □	
		47uF	±20%	CL32A476KQJNNN □	Derating
	10Vdc	22uF	±10%	CL32A226KQJNNN □	
		22uF	±20%	CL32A226MQJNNN □	Derating
		47uF	±10%	CL32A476KQJNNN □	Derating
		47uF	±20%	CL32A476MQJNNN □	Derating
	16Vdc	10uF	±10%	CL32A106KQJNNN □	
		10uF	±20%	CL32A106MOJNNN □	
		22uF	±10%	CL32A226KQJNNN □	
		22uF	±20%	CL32A226MOJNNN □	
47uF	±10%	CL32A476KQJNNN □			
47uF	±20%	CL32A476MQJNNN □			

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (X5R)

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
2.70mm	16Vdc	47uF	±20%	CL32A476MOJN [□]		
		25Vdc	10uF	±10%	CL32A106KAJN [□]	
			10uF	±20%	CL32A106MAJN [□]	
			22uF	±10%	CL32A226KAJN [□]	
	35Vdc	22uF	±20%	CL32A226MAJN [□]		
		10uF	±10%	CL32A106KJN [□]		
	50Vdc	2.2uF	±10%	CL32A225KBJN [□]		
		10uF	±10%	CL32A106KBJN [□]		
		10uF	±20%	CL32A106MBJN [□]		
	2.80mm	6.3Vdc	100uF	±20%	CL32A107MQV [□]	Derating
150uF			±20%	CL32A157MQV [□]	Derating	
220uF			±20%	CL32A227MQV [□]	Derating	
10Vdc		100uF	±20%	CL32A107MPV [□]	Derating	

■ Size : 4.50 X 3.20mm (inch : 1812)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
2.70mm	6.3Vdc	33uF	±20%	CL43A336MQJN [□]	
		47uF	±10%	CL43A476KQJN [□]	
		47uF	±20%	CL43A476MQJN [□]	
3.50mm	6.3Vdc	100uF	±20%	CL43A107MLN [□]	

■ Size : 5.70 X 5.00mm (inch : 2220)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
2.70mm	6.3Vdc	47uF	±20%	CL55A476MQJN [□]	
		68uF	±20%	CL55A686MQJN [□]	
		100uF	±20%	CL55A107MQJN [□]	
		10Vdc	47uF	±10%	CL55A476KPJN [□]

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X6S)

■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.33mm	6.3Vdc	1.0uF	±20%	CL05X105MQ3LNN □	Derating
0.55mm	4.0Vdc	2.2nF	±20%	CL05X222MR5NNN □	
		15nF	±20%	CL05X153MR5NNN □	
		47nF	±20%	CL05X473MR5NNN □	
		220nF	±20%	CL05X224MR5NNN □	
		2.2uF	±20%	CL05X225MR5NNN □	Derating
	6.3Vdc	680nF	±5%	CL05X684JQ5NNN □	
			1.0uF	±10%	CL05X105KQ5NNN □
	10Vdc	1.0uF	±10%	CL05X105KP5NNN □	Derating
0.57mm	2.5Vdc	2.2uF	±20%	CL05X225MS5NSN □	Derating Ref.
0.60mm	25Vdc	1.0uF	±10%	CL05X105KA5NQN □	Derating
0.70mm	4.0Vdc	4.7uF	±20%	CL05X475MR5NUN □	Derating Ref.
		10uF	±20%	CL05X106MR5NUN □	Derating Ref.

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.90mm	4.0Vdc	1.0uF	±20%	CL10X105MR8NNN □	
		4.7uF	±20%	CL10X475MR8NNN □	Derating
		10uF	±10%	CL10X106KR8NNN □	Derating Ref.
		10uF	±20%	CL10X106MR8NNN □	Derating Ref.
	6.3Vdc	1.0uF	±20%	CL10X105MQ8NNN □	
		2.2uF	±10%	CL10X225KQ8NNN □	
		2.2uF	±20%	CL10X225MQ8NNN □	
		4.7uF	±10%	CL10X475KQ8NNN □	Derating
		4.7uF	±20%	CL10X475MQ8NNN □	Derating
		10uF	±10%	CL10X106KQ8NNN □	Derating Ref.
		10uF	±20%	CL10X106MQ8NNN □	Derating Ref.
10Vdc	2.2uF	±10%	CL10X225KP8NNN □		
25Vdc	1.0uF	±10%	CL10X105KA8NNN □		
0.95mm	25Vdc	4.7uF	±10%	CL10X475KA8NQN □	Derating
1.00mm	10Vdc	10uF	±20%	CL10X106MP8NRN □	Derating Ref.
		4.7uF	±10%	CL10X475KO8NRN □	Derating
	16Vdc	10uF	±20%	CL10X106MO8NRN □	Derating Ref.

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.95mm	2.5Vdc	22uF	±20%	CL21X226MSCLRN □	Derating
	4.0Vdc	10uF	±10%	CL21X106KRCLRN □	Derating
	10Vdc	10uF	±10%	CL21X106KPCLRN □	Derating
1.35mm	4.0Vdc	4.7uF	±10%	CL21X475KRFNNN □	
		10uF	±10%	CL21X106KRFNNN □	
		10uF	±20%	CL21X106MRFNNN □	
	16Vdc	2.2uF	±10%	CL21X225KOFNNN □	
1.40mm	4.0Vdc	22uF	±20%	CL21X226MRQNNN □	Derating
	6.3Vdc	10uF	±10%	CL21X106KQNNN □	Derating
		22uF	±20%	CL21X226MQNNN □	Derating
	16Vdc	10uF	±10%	CL21X106KOQNNN □	
		10uF	±20%	CL21X106MOQNNN □	
		4.7uF	±10%	CL21X475KAQNNN □	Derating
			4.7uF	±20%	CL21X475MAQNNN □
1.45mm	2.5Vdc	47uF	±20%	CL21X476MSYNNN □	Derating
	4.0Vdc	47uF	±20%	CL21X476MRYNNN □	Derating
	10Vdc	10uF	±10%	CL21X106KPYNNN □	
	25Vdc	10uF	±10%	CL21X106KAYNNN □	Derating
		10uF	±20%	CL21X106MAYNNN □	Derating

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.95mm	25Vdc	4.7uF	±10%	CL31X475KACLNN □	
1.80mm	4.0Vdc	10uF	±10%	CL31X106KRHNNN □	
		10uF	±20%	CL31X106MRHNNN □	
		22uF	±10%	CL31X226KRHNNN □	
		22uF	±20%	CL31X226MRHNNN □	
		47uF	±20%	CL31X476MRHNNN □	Derating
	6.3Vdc	10uF	±10%	CL31X106KQHNNN □	
		10uF	±20%	CL31X106MQHNNN □	
		22uF	±10%	CL31X226KQHNNN □	
		47uF	±10%	CL31X476KQHNNN □	Derating
		47uF	±20%	CL31X476MQHNNN □	Derating
16Vdc	22uF	±10%	CL31X226KOHNNN □	Derating	
25Vdc	10uF	±10%	CL31X106KAHNNN □		

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
2.70mm	6.3Vdc	22uF	±20%	CL32X226MJNNN □	
	10Vdc	47uF	±10%	CL32X476KPNJNN □	
	16Vdc	10uF	±10%	CL32X106KQJNNN □	
2.80mm	4.0Vdc	100uF	±10%	CL32X107KRVNNN □	
	6.3Vdc	100uF	±20%	CL32X107MQVNNN □	

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X7R)

■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
0.55mm	50Vdc	390pF	±5%	CL05B391JB5NNN□		0.90mm	10Vdc	100nF	±10%	CL10B104KP8NNN□		
		390pF	±10%	CL05B391KB5NNN□				150nF	±10%	CL10B154KP8NNN□		
		470pF	±5%	CL05B471JB5NNN□				220nF	±5%	CL10B224JP8NNN□		
		470pF	±10%	CL05B471KB5NNN□				220nF	±10%	CL10B224KP8NNN□		
		510pF	±10%	CL05B511KB5NNN□				330nF	±10%	CL10B334KP8NNN□		
		560pF	±5%	CL05B561JB5NNN□				470nF	±10%	CL10B474KP8NNN□		
		560pF	±10%	CL05B561KB5NNN□				1.0uF	±10%	CL10B105KP8NNN□		
		620pF	±10%	CL05B621KB5NNN□				2.2uF	±10%	CL10B225KP8NNN□	Ref.	
		680pF	±5%	CL05B681JB5NNN□				16Vdc	470pF	±10%	CL10B471KO8NNN□	
		680pF	±10%	CL05B681KB5NNN□					820pF	±10%	CL10B821KO8NNN□	
		750pF	±10%	CL05B751KB5NNN□					1.0nF	±10%	CL10B102KO8NNN□	
		820pF	±10%	CL05B821KB5NNN□					2.2nF	±10%	CL10B222KO8NNN□	
		1.0nF	±5%	CL05B102JB5NNN□			3.3nF		±10%	CL10B332KO8NNN□		
		1.0nF	±10%	CL05B102KB5NNN□			3.9nF		±10%	CL10B392KO8NNN□		
		1.2nF	±5%	CL05B122JB5NNN□			10nF		±10%	CL10B103KO8NNN□		
		1.2nF	±10%	CL05B122KB5NNN□			15nF		±10%	CL10B153KO8NNN□		
		1.5nF	±5%	CL05B152JB5NNN□			16nF		±10%	CL10B163KO8NNN□		
		1.5nF	±10%	CL05B152KB5NNN□			18nF		±10%	CL10B183KO8NNN□		
		1.8nF	±10%	CL05B182KB5NNN□			22nF		±10%	CL10B223KO8NNN□		
		2.0nF	±10%	CL05B202KB5NNN□			27nF		±10%	CL10B273KO8NNN□		
		2.2nF	±5%	CL05B222JB5NNN□			33nF		±10%	CL10B333KO8NNN□		
		2.2nF	±10%	CL05B222KB5NNN□			39nF		±10%	CL10B393KO8NNN□		
		2.2nF	±20%	CL05B222MB5NNN□			47nF		±10%	CL10B473KO8NNN□		
		2.4nF	±10%	CL05B242KB5NNN□			56nF		±10%	CL10B563KO8NNN□		
		2.7nF	±10%	CL05B272KB5NNN□			68nF		±10%	CL10B683KO8NNN□		
		3.0nF	±10%	CL05B302KB5NNN□			68nF		±20%	CL10B683MO8NNN□		
		3.3nF	±5%	CL05B332JB5NNN□			75nF		±10%	CL10B753KO8NNN□		
		3.3nF	±10%	CL05B332KB5NNN□			82nF		±10%	CL10B823KO8NNN□		
		3.9nF	±5%	CL05B392JB5NNN□			100nF		±5%	CL10B104JO8NNN□		
		3.9nF	±10%	CL05B392KB5NNN□			100nF	±10%	CL10B104KO8NNN□			
		4.7nF	±5%	CL05B472JB5NNN□			100nF	±20%	CL10B104MO8NNN□			
		4.7nF	±10%	CL05B472KB5NNN□			120nF	±10%	CL10B124KO8NNN□			
		4.7nF	±20%	CL05B472MB5NNN□			150nF	±10%	CL10B154KO8NNN□			
5.6nF	±10%	CL05B562KB5NNN□		180nF	±10%	CL10B184KO8NNN□						
6.8nF	±5%	CL05B682JB5NNN□		220nF	±5%	CL10B224JO8NNN□						
6.8nF	±10%	CL05B682KB5NNN□		220nF	±10%	CL10B224KO8NNN□						
8.2nF	±10%	CL05B822KB5NNN□		220nF	±20%	CL10B224MO8NNN□						
10nF	±5%	CL05B103JB5NNN□		330nF	±10%	CL10B334KO8NNN□						
10nF	±10%	CL05B103KB5NNN□		470nF	±10%	CL10B474KO8NNN□						
10nF	±20%	CL05B103MB5NNN□		470nF	±20%	CL10B474MO8NNN□						
15nF	±10%	CL05B153KB5NNN□		680nF	±10%	CL10B684KO8NNN□						
22nF	±10%	CL05B223KB5NNN□		1.0uF	±10%	CL10B105KO8NNN□						
				25Vdc	220pF	±10%	CL10B221KA8NNN□					
					390pF	±10%	CL10B391KA8NNN□					
					470pF	±10%	CL10B471KA8NNN□					
					1.0nF	±5%	CL10B102JA8NNN□					
					1.0nF	±10%	CL10B102KA8NNN□					
					2.2nF	±10%	CL10B222KA8NNN□					
					4.7nF	±10%	CL10B472KA8NNN□					
					5.6nF	±10%	CL10B562KA8NNN□					
					6.8nF	±10%	CL10B682KA8NNN□					
					8.2nF	±10%	CL10B822KA8NNN□					
					10nF	±10%	CL10B103KA8NNN□					
					12nF	±10%	CL10B123KA8NNN□					

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.90mm	6.3Vdc	4.7nF	±10%	CL10B472KQ8NNN□	
		470nF	±10%	CL10B474KQ8NNN□	
		680nF	±10%	CL10B684KQ8NNN□	
		820nF	±10%	CL10B824KQ8NNN□	
		1.0uF	±10%	CL10B105KQ8NNN□	
		1.0uF	±20%	CL10B105MQ8NNN□	
		2.2uF	±10%	CL10B225KQ8NNN□	

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (X7R)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.90mm	25Vdc	15nF	±5%	CL10B153JA8NNN□		0.90mm	50Vdc	1.4nF	±5%	CL10B142JB8NNN□	
		15nF	±10%	CL10B153KA8NNN□				1.5nF	±5%	CL10B152JB8NNN□	
		18nF	±10%	CL10B183KA8NNN□				1.5nF	±10%	CL10B152KB8NNN□	
		18nF	±20%	CL10B183MA8NNN□				1.8nF	±5%	CL10B182JB8NNN□	
		22nF	±5%	CL10B223JA8NNN□				1.8nF	±10%	CL10B182KB8NNN□	
		22nF	±10%	CL10B223KA8NNN□				2.0nF	±10%	CL10B202KB8NNN□	
		27nF	±10%	CL10B273KA8NNN□				2.2nF	±5%	CL10B222JB8NNN□	
		33nF	±5%	CL10B333JA8NNN□				2.2nF	±10%	CL10B222KB8NNN□	
		33nF	±10%	CL10B333KA8NNN□				2.2nF	±20%	CL10B222MB8NNN□	
		39nF	±10%	CL10B393KA8NNN□				2.4nF	±10%	CL10B242KB8NNN□	
		47nF	±10%	CL10B473KA8NNN□				2.7nF	±5%	CL10B272JB8NNN□	
		56nF	±5%	CL10B563JA8NNN□				2.7nF	±10%	CL10B272KB8NNN□	
		56nF	±10%	CL10B563KA8NNN□				2.9nF	±10%	CL10B292KB8NNN□	
		68nF	±10%	CL10B683KA8NNN□				3.0nF	±10%	CL10B302KB8NNN□	
		82nF	±10%	CL10B823KA8NNN□				3.0nF	±20%	CL10B302MB8NNN□	
		100nF	±5%	CL10B104JA8NNN□				3.3nF	±5%	CL10B332JB8NNN□	
		100nF	±10%	CL10B104KA8NNN□				3.3nF	±10%	CL10B332KB8NNN□	
		100nF	±20%	CL10B104MA8NNN□				3.3nF	±20%	CL10B332MB8NNN□	
		150nF	±10%	CL10B154KA8NNN□				3.6nF	±5%	CL10B362JB8NNN□	
		220nF	±10%	CL10B224KA8NNN□				3.6nF	±10%	CL10B362KB8NNN□	
470nF	±10%	CL10B474KA8NNN□		3.9nF	±10%			CL10B392KB8NNN□			
1.0uF	±10%	CL10B105KA8NNN□		4.7nF	±5%			CL10B472JB8NNN□			
50Vdc	50Vdc	100pF	±10%	CL10B101KB8NNN□				4.7nF	±10%	CL10B472KB8NNN□	
		120pF	±10%	CL10B121KB8NNN□				4.7nF	±20%	CL10B472MB8NNN□	
		150pF	±10%	CL10B151KB8NNN□				5.1nF	±10%	CL10B512KB8NNN□	
		180pF	±10%	CL10B181KB8NNN□				5.6nF	±5%	CL10B562JB8NNN□	
		200pF	±10%	CL10B201KB8NNN□				5.6nF	±10%	CL10B562KB8NNN□	
		220pF	±5%	CL10B221JB8NNN□				5.6nF	±20%	CL10B562MB8NNN□	
		220pF	±10%	CL10B221KB8NNN□				6.2nF	±5%	CL10B622JB8NNN□	
		270pF	±5%	CL10B271JB8NNN□				6.2nF	±10%	CL10B622KB8NNN□	
		270pF	±10%	CL10B271KB8NNN□				6.8nF	±5%	CL10B682JB8NNN□	
		300pF	±10%	CL10B301KB8NNN□				6.8nF	±10%	CL10B682KB8NNN□	
		330pF	±5%	CL10B331JB8NNN□				6.8nF	±20%	CL10B682MB8NNN□	
		330pF	±10%	CL10B331KB8NNN□				7.5nF	±5%	CL10B752JB8NNN□	
		360pF	±10%	CL10B361KB8NNN□				8.2nF	±5%	CL10B822JB8NNN□	
		390pF	±10%	CL10B391KB8NNN□				8.2nF	±10%	CL10B822KB8NNN□	
		430pF	±10%	CL10B431KB8NNN□				9.1nF	±5%	CL10B912JB8NNN□	
		470pF	±5%	CL10B471JB8NNN□				10nF	±5%	CL10B103JB8NNN□	
		470pF	±10%	CL10B471KB8NNN□				10nF	±10%	CL10B103KB8NNN□	
		500pF	±10%	CL10B501KB8NNN□				10nF	±20%	CL10B103MB8NNN□	
		510pF	±10%	CL10B511KB8NNN□		12nF	±5%	CL10B123JB8NNN□			
		560pF	±5%	CL10B561JB8NNN□		12nF	±10%	CL10B123KB8NNN□			
		560pF	±10%	CL10B561KB8NNN□		15nF	±5%	CL10B153JB8NNN□			
		620pF	±5%	CL10B621JB8NNN□		15nF	±10%	CL10B153KB8NNN□			
		680pF	±5%	CL10B681JB8NNN□		15nF	±20%	CL10B153MB8NNN□			
		680pF	±10%	CL10B681KB8NNN□		18nF	±5%	CL10B183JB8NNN□			
		750pF	±10%	CL10B751KB8NNN□		18nF	±10%	CL10B183KB8NNN□			
		820pF	±5%	CL10B821JB8NNN□		20nF	±10%	CL10B203KB8NNN□			
		820pF	±10%	CL10B821KB8NNN□		22nF	±5%	CL10B223JB8NNN□			
		910pF	±5%	CL10B911JB8NNN□		22nF	±10%	CL10B223KB8NNN□			
		1.0nF	±10%	CL10B102KB8NNN□		22nF	±20%	CL10B223MB8NNN□			
		1.0nF	±20%	CL10B102MB8NNN□		27nF	±10%	CL10B273KB8NNN□			
		1.2nF	±5%	CL10B122JB8NNN□		33nF	±5%	CL10B333JB8NNN□			
		1.2nF	±10%	CL10B122KB8NNN□		33nF	±10%	CL10B333KB8NNN□			

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X7R)

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.90mm	50Vdc	39nF	±5%	CL10B393JB8NNN□		0.75mm	25Vdc	68nF	±10%	CL21B683KAANNN□	
		39nF	±10%	CL10B393KB8NNN□			50Vdc	18pF	±5%	CL21B180JBANNN□	
		47nF	±5%	CL10B473JB8NNN□			22pF	±5%	CL21B220JBANNN□		
		47nF	±10%	CL10B473KB8NNN□			56pF	±5%	CL21B560JBANNN□		
		47nF	±20%	CL10B473MB8NNN□			100pF	±5%	CL21B101JBANNN□		
		56nF	±5%	CL10B563JB8NNN□			100pF	±10%	CL21B101KBANNN□		
		56nF	±10%	CL10B563KB8NNN□			150pF	±10%	CL21B151KBANNN□		
		68nF	±5%	CL10B683JB8NNN□			180pF	±10%	CL21B181KBANNN□		
		68nF	±10%	CL10B683KB8NNN□			200pF	±10%	CL21B201KBANNN□		
		82nF	±5%	CL10B823JB8NNN□			220pF	±5%	CL21B221JBANNN□		
		82nF	±10%	CL10B823KB8NNN□			220pF	±10%	CL21B221KBANNN□		
		100nF	±5%	CL10B104JB8NNN□			270pF	±10%	CL21B271KBANNN□		
		100nF	±10%	CL10B104KB8NNN□			300pF	±10%	CL21B301KBANNN□		
		100nF	±20%	CL10B104MB8NNN□			330pF	±5%	CL21B331JBANNN□		
		220nF	±10%	CL10B224KB8NNN□			330pF	±10%	CL21B331KBANNN□		
330nF	±10%	CL10B334KB8NNN□		360pF	±10%	CL21B361KBANNN□					
						390pF	±5%	CL21B391JBANNN□			
						390pF	±10%	CL21B391KBANNN□			
						470pF	±5%	CL21B471JBANNN□			
						470pF	±10%	CL21B471KBANNN□			
						500pF	±10%	CL21B501KBANNN□			
						510pF	±10%	CL21B511KBANNN□			
						560pF	±5%	CL21B561JBANNN□			
						560pF	±10%	CL21B561KBANNN□			
						620pF	±10%	CL21B621KBANNN□			
						680pF	±5%	CL21B681JBANNN□			
						680pF	±10%	CL21B681KBANNN□			
						750pF	±10%	CL21B751KBANNN□			
						820pF	±10%	CL21B821KBANNN□			
						910pF	±10%	CL21B911KBANNN□			
						1.0nF	±5%	CL21B102JBANNN□			
						1.0nF	±10%	CL21B102KBANNN□			
						1.0nF	±20%	CL21B102MBANNN□			
						1.2nF	±10%	CL21B122KBANNN□			
						1.3nF	±5%	CL21B132JBANNN□			
						1.5nF	±5%	CL21B152JBANNN□			
						1.5nF	±10%	CL21B152KBANNN□			
						1.8nF	±5%	CL21B182JBANNN□			
						1.8nF	±10%	CL21B182KBANNN□			
						2.0nF	±5%	CL21B202JBANNN□			
						2.0nF	±10%	CL21B202KBANNN□			
						2.2nF	±5%	CL21B222JBANNN□			
						2.2nF	±10%	CL21B222KBANNN□			
						2.2nF	±20%	CL21B222MBANNN□			
						2.4nF	±10%	CL21B242KBANNN□			
						2.4nF	±20%	CL21B242MBANNN□			
						2.7nF	±5%	CL21B272JBANNN□			
						2.7nF	±10%	CL21B272KBANNN□			
						3.0nF	±5%	CL21B302JBANNN□			
						3.0nF	±20%	CL21B302MBANNN□			
						3.3nF	±5%	CL21B332JBANNN□			
						3.3nF	±10%	CL21B332KBANNN□			
						3.6nF	±10%	CL21B362KBANNN□			
						3.9nF	±5%	CL21B392JBANNN□			

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
0.75mm	16Vdc	15nF	±10%	CL21B153KOANNN□		
		22nF	±10%	CL21B223KOANNN□		
		33nF	±10%	CL21B333KOANNN□		
		39nF	±10%	CL21B393KOANNN□		
		47nF	±10%	CL21B473KOANNN□		
		56nF	±10%	CL21B563KOANNN□		
		68nF	±10%	CL21B683KOANNN□		
		100nF	±5%	CL21B104JOANNN□		
		100nF	±10%	CL21B104KOANNN□		
		100nF	±20%	CL21B104MOANNN□		
		120nF	±5%	CL21B124JOANNN□		
		150nF	±10%	CL21B154KOANNN□		
		180nF	±10%	CL21B184KOANNN□		
		25Vdc	220pF	±20%	CL21B221MAANNN□	
			1.0nF	±10%	CL21B102KAANNN□	
	1.0nF		±20%	CL21B102MAANNN□		
	2.2nF		±10%	CL21B222KAANNN□		
	2.2nF		±20%	CL21B222MAANNN□		
	4.7nF		±10%	CL21B472KAANNN□		
	5.6nF		±10%	CL21B562KAANNN□		
	6.8nF		±10%	CL21B682KAANNN□		
	6.8nF		±20%	CL21B682MAANNN□		
	10nF		±10%	CL21B103KAANNN□		
	12nF		±10%	CL21B123KAANNN□		
	15nF		±5%	CL21B153JAANNN□		
	15nF		±10%	CL21B153KAANNN□		
	18nF		±10%	CL21B183KAANNN□		
	22nF		±10%	CL21B223KAANNN□		
	27nF		±10%	CL21B273KAANNN□		
	33nF		±10%	CL21B333KAANNN□		
	39nF		±10%	CL21B393KAANNN□		
	47nF	±10%	CL21B473KAANNN□			
	56nF	±10%	CL21B563KAANNN□			

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (X7R)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark		
0.75mm	50Vdc	3.9nF	±10%	CL21B392KBANNN□		0.95mm	50Vdc	2.7nF	±10%	CL21B272KBCNNN□			
		4.7nF	±5%	CL21B472JBANNN□				3.3nF	±10%	CL21B332KBCNNN□			
		4.7nF	±10%	CL21B472KBANNN□				4.7nF	±5%	CL21B472JBCNNN□			
		5.0nF	±10%	CL21B502KBANNN□				6.8nF	±10%	CL21B682KBCNNN□			
		5.1nF	±10%	CL21B512KBANNN□				10nF	±5%	CL21B103JBCNNN□			
		5.6nF	±5%	CL21B562JBANNN□				10nF	±10%	CL21B103KBCNNN□			
		5.6nF	±10%	CL21B562KBANNN□				18nF	±5%	CL21B183JBCNNN□			
		6.8nF	±5%	CL21B682JBANNN□				22nF	±10%	CL21B223KBCNNN□			
		6.8nF	±10%	CL21B682KBANNN□				24nF	±5%	CL21B243JBCNNN□			
		7.5nF	±10%	CL21B752KBANNN□				33nF	±5%	CL21B333JBCNNN□			
		8.2nF	±5%	CL21B822JBANNN□				39nF	±5%	CL21B393JBCNNN□			
		8.2nF	±10%	CL21B822KBANNN□				39nF	±10%	CL21B393KBCNNN□			
		9.1nF	±10%	CL21B912KBANNN□				47nF	±5%	CL21B473JBCNNN□			
		10nF	±5%	CL21B103JBANNN□				47nF	±10%	CL21B473KBCNNN□			
		10nF	±10%	CL21B103KBANNN□				47nF	±20%	CL21B473MBCNNN□			
		10nF	±20%	CL21B103MBANNN□				51nF	±10%	CL21B513KBCNNN□			
		12nF	±5%	CL21B123JBANNN□				56nF	±5%	CL21B563JBCNNN□			
		12nF	±10%	CL21B123KBANNN□				56nF	±10%	CL21B563KBCNNN□			
		12nF	±20%	CL21B123MBANNN□				68nF	±5%	CL21B683JBCNNN□			
		15nF	±5%	CL21B153JBANNN□				68nF	±10%	CL21B683KBCNNN□			
		15nF	±10%	CL21B153KBANNN□				82nF	±5%	CL21B823JBCNNN□			
		15nF	±20%	CL21B153MBANNN□				82nF	±10%	CL21B823KBCNNN□			
		18nF	±10%	CL21B183KBANNN□				100nF	±5%	CL21B104JBCNNN□			
		20nF	±10%	CL21B203KBANNN□				100nF	±10%	CL21B104KBCNNN□			
		22nF	±5%	CL21B223JBANNN□				100nF	±20%	CL21B104MBCNNN□			
		22nF	±10%	CL21B223KBANNN□				1.35mm	6.3Vdc	1.0uF	±10%	CL21B105KQFNNN□	
		27nF	±5%	CL21B273JBANNN□						2.2uF	±5%	CL21B225JQFNNN□	
		27nF	±10%	CL21B273KBANNN□						2.2uF	±10%	CL21B225KQFNNN□	
		33nF	±5%	CL21B333JBANNN□						3.3uF	±10%	CL21B335KQFNNN□	
		33nF	±10%	CL21B333KBANNN□						3.3uF	±20%	CL21B335MQFNNN□	
		33nF	±20%	CL21B333MBANNN□						4.7uF	±10%	CL21B475KQFNNN□	Ref.
		39nF	±5%	CL21B393JBANNN□						10Vdc	470nF	±10%	CL21B474KPFNNN□
39nF	±10%	CL21B393KBANNN□		680nF	±10%	CL21B684KPFNNN□							
47nF	±10%	CL21B473KBANNN□		820nF	±10%	CL21B824KPFNNN□							
0.95mm	16Vdc	150nF	±10%	CL21B154KOCNNN□		1.0uF	±5%		CL21B105JPFNNN□				
		220nF	±5%	CL21B224JOCNNN□		1.0uF	±10%		CL21B105KPFNNN□				
		220nF	±10%	CL21B224KOCNNN□		1.0uF	±20%		CL21B105MPFNNN□				
		220nF	±20%	CL21B224MOCNNN□		2.2uF	±10%		CL21B225KPFNNN□				
		270nF	±5%	CL21B274JOCNNN□		2.2uF	±20%		CL21B225MPFNNN□				
		270nF	±10%	CL21B274KOCNNN□		3.3uF	±10%		CL21B335KPFNNN□				
		330nF	±5%	CL21B334JOCNNN□		4.7uF	±10%		CL21B475KPFNNN□	Ref.			
		330nF	±10%	CL21B334KOCNNN□		16Vdc	150nF	±10%	CL21B154KOFNNN□				
		1.0uF	±10%	CL21B105KOCNNN□			220nF	±10%	CL21B224KOFNNN□				
		25Vdc	47nF	±10%	CL21B473KACNNN□			330nF	±10%	CL21B334KOFNNN□			
	68nF		±10%	CL21B683KACNNN□			390nF	±10%	CL21B394KOFNNN□				
	82nF		±10%	CL21B823KACNNN□			470nF	±5%	CL21B474JOFNNN□				
	100nF		±5%	CL21B104JACNNN□			470nF	±10%	CL21B474KOFNNN□				
	100nF		±10%	CL21B104KACNNN□			470nF	±20%	CL21B474MOFNNN□				
	100nF		±20%	CL21B104MACNNN□			680nF	±5%	CL21B684JOFNNN□				
	50Vdc	120nF	±5%	CL21B124JACNNN□		680nF	±10%	CL21B684KOFNNN□					
120nF		±10%	CL21B124KACNNN□		1.0uF	±10%	CL21B105KOFNNN□						
150nF		±10%	CL21B154KACNNN□		2.2uF	±10%	CL21B225KOFNNN□						
1.0nF		±10%	CL21B102KBCNNN□		2.2uF	±20%	CL21B225MOFNNN□						
2.2nF		±10%	CL21B222KBCNNN□		4.7uF	±10%	CL21B475KOFNNN□	Ref.					

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X7R)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark		
1.35mm	25Vdc	18nF	±10%	CL21B183KAFNNN□		1.00mm	16Vdc	270nF	±20%	CL31B274MOCNNN□			
		47nF	±10%	CL21B473KAFNNN□				330nF	±10%	CL31B334KOCNNN□			
		100nF	±10%	CL21B104KAFNNN□				330nF	±20%	CL31B334MOCNNN□			
		150nF	±10%	CL21B154KAFNNN□				390nF	±10%	CL31B394KOCNNN□			
		180nF	±10%	CL21B184KAFNNN□				470nF	±10%	CL31B474KOCNNN□			
		220nF	±5%	CL21B224JAFNNN□				560nF	±10%	CL31B564KOCNNN□			
		220nF	±10%	CL21B224KAFNNN□				680nF	±10%	CL31B684KOCNNN□			
		220nF	±20%	CL21B224MAFNNN□				25Vdc	4.7nF	±10%	CL31B472KACNNN□		
		270nF	±10%	CL21B274KAFNNN□					22nF	±10%	CL31B223KACNNN□		
		330nF	±10%	CL21B334KAFNNN□					47nF	±10%	CL31B473KACNNN□		
		390nF	±10%	CL21B394KAFNNN□					68nF	±10%	CL31B683KACNNN□		
		470nF	±5%	CL21B474JAFNNN□					100nF	±10%	CL31B104KACNNN□		
		470nF	±10%	CL21B474KAFNNN□					120nF	±10%	CL31B124KACNNN□		
		1.0uF	±10%	CL21B105KAFNNN□					150nF	±10%	CL31B154KACNNN□		
		1.5uF	±10%	CL21B155KAFNNN□					180nF	±10%	CL31B184KACNNN□		
		2.2uF	±10%	CL21B225KAFNNN□					220nF	±5%	CL31B224JACNNN□		
		4.7uF	±10%	CL21B475KAFNNN□	Ref.				220nF	±10%	CL31B224KACNNN□		
		35Vdc	1.0uF	±10%	CL21B105KLFNNN□					270nF	±10%	CL31B274KACNNN□	
	50Vdc		560pF	±10%	CL21B561KBFNNN□				330nF	±10%	CL31B334KACNNN□		
			47nF	±10%	CL21B473KBFNNN□				390nF	±10%	CL31B394KACNNN□		
			68nF	±5%	CL21B683JBFNNN□				50Vdc	120pF	±10%	CL31B121KBCNNN□	
			68nF	±10%	CL21B683KBFNNN□					180pF	±10%	CL31B181KBCNNN□	
			75nF	±10%	CL21B753KBFNNN□					220pF	±10%	CL31B221KBCNNN□	
			82nF	±10%	CL21B823KBFNNN□					270pF	±10%	CL31B271KBCNNN□	
			100nF	±5%	CL21B104JBFNNN□					330pF	±10%	CL31B331KBCNNN□	
			100nF	±10%	CL21B104KBFNNN□			390pF		±5%	CL31B391JBCNNN□		
			100nF	±20%	CL21B104MBFNNN□			390pF		±10%	CL31B391KBCNNN□		
			120nF	±10%	CL21B124KBFNNN□			470pF		±10%	CL31B471KBCNNN□		
			150nF	±10%	CL21B154KBFNNN□			560pF		±10%	CL31B561KBCNNN□		
			220nF	±5%	CL21B224JBFNNN□			680pF		±10%	CL31B681KBCNNN□		
			220nF	±10%	CL21B224KBFNNN□			820pF		±10%	CL31B821KBCNNN□		
			270nF	±10%	CL21B274KBFNNN□			1.0nF		±5%	CL31B102KBCNNN□		
			330nF	±10%	CL21B334KBFNNN□			1.0nF		±10%	CL31B102KBCNNN□		
			470nF	±10%	CL21B474KBFNNN□			1.0nF		±20%	CL31B102MBCNNN□		
			680nF	±10%	CL21B684KBFNNN□			1.2nF		±10%	CL31B122KBCNNN□		
			1.0uF	±10%	CL21B105KBFNNN□			1.5nF		±5%	CL31B152JBCNNN□		
			1.0uF	±20%	CL21B105MBFNNN□		1.5nF	±10%		CL31B152KBCNNN□			
			1.40mm	6.3Vdc	4.7uF	±10%	CL21B475KQNNN□	Ref.		1.8nF	±10%	CL31B182KBCNNN□	
					10uF	±10%	CL21B106KQNNN□		2.0nF	±10%	CL31B202KBCNNN□		
				10Vdc	4.7uF	±10%	CL21B475KPQNNN□	Ref.	2.2nF	±10%	CL31B222KBCNNN□		
			10uF		±10%	CL21B106KPQNNN□		2.4nF	±10%	CL31B242KBCNNN□			
			16Vdc	10uF	±10%	CL21B106KQNNN□		3.0nF	±10%	CL31B302KBCNNN□			
								3.3nF	±5%	CL31B332JBCNNN□			
								3.3nF	±10%	CL31B332KBCNNN□			
							3.9nF	±5%	CL31B392JBCNNN□				
					3.9nF	±10%	CL31B392KBCNNN□						
					4.7nF	±5%	CL31B472JBCNNN□						
					4.7nF	±10%	CL31B472KBCNNN□						
					5.0nF	±20%	CL31B502MBCNNN□						
					5.6nF	±5%	CL31B562JBCNNN□						
					5.6nF	±10%	CL31B562KBCNNN□						
					6.8nF	±5%	CL31B682JBCNNN□						
					6.8nF	±10%	CL31B682KBCNNN□						
					8.2nF	±10%	CL31B822KBCNNN□						

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
1.00mm	10Vdc	1.0uF	±10%	CL31B105KPCNNN□	
		1.2uF	±10%	CL31B125KPCNNN□	
	16Vdc	22nF	±5%	CL31B223JOCNNN□	
		100nF	±10%	CL31B104KOCNNN□	
		220nF	±10%	CL31B224KOCNNN□	
		270nF	±10%	CL31B274KOCNNN□	

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Standard & High Capacitors

Product Line Up (X7R)

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	
1.00mm	50Vdc	10nF	±5%	CL31B103JBCNNN □		1.80mm	6.3Vdc	10uF	±10%	CL31B106KQHNNN □		
		10nF	±10%	CL31B103KBCNNN □				10uF	±20%	CL31B106MQHNNN □		
		10nF	±20%	CL31B103MBCNNN □				10Vdc	22uF	±10%	CL31B226KQHNNN □	
		15nF	±5%	CL31B153JBCNNN □					4.7uF	±10%	CL31B475KPHNNN □	
		15nF	±10%	CL31B153KBCNNN □					6.8uF	+80/-20%	CL31B685ZPHNNN □	
		18nF	±10%	CL31B183KBCNNN □					10uF	±10%	CL31B106KPHNNN □	
		22nF	±5%	CL31B223JBCNNN □			22uF		±10%	CL31B226KPHNNN □		
		22nF	±10%	CL31B223KBCNNN □			22uF		±20%	CL31B226MPHNNN □		
		27nF	±5%	CL31B273JBCNNN □			16Vdc	1.0uF	±20%	CL31B105MOHNNN □		
		27nF	±10%	CL31B273KBCNNN □				2.2uF	±10%	CL31B225KOHNNN □		
		33nF	±5%	CL31B333JBCNNN □				2.2uF	±20%	CL31B225MOHNNN □		
		33nF	±10%	CL31B333KBCNNN □				3.3uF	±10%	CL31B335KOHNNN □		
		39nF	±5%	CL31B393JBCNNN □				4.7uF	±10%	CL31B475KOHNNN □		
		39nF	±10%	CL31B393KBCNNN □				10uF	±10%	CL31B106KOHNNN □		
		47nF	±5%	CL31B473JBCNNN □			25Vdc	10uF	±20%	CL31B106MOHNNN □		
		47nF	±10%	CL31B473KBCNNN □				680nF	±10%	CL31B684KAHNNN □		
		56nF	±5%	CL31B563JBCNNN □				1.0uF	±5%	CL31B105JAHNNN □		
		56nF	±10%	CL31B563KBCNNN □				1.0uF	±10%	CL31B105KAHNNN □		
		68nF	±10%	CL31B683KBCNNN □				1.0uF	±20%	CL31B105MAHNNN □		
		82nF	±10%	CL31B823KBCNNN □				1.2uF	±20%	CL31B125MAHNNN □		
		100nF	±5%	CL31B104JBCNNN □				2.2uF	±10%	CL31B225KAHNNN □		
		100nF	±10%	CL31B104KBCNNN □				2.2uF	±20%	CL31B225MAHNNN □		
		100nF	±20%	CL31B104MBCNNN □				4.7uF	±10%	CL31B475KAHNNN □		
		120nF	±10%	CL31B124KBCNNN □				4.7uF	±20%	CL31B475MAHNNN □		
150nF	±10%	CL31B154KBCNNN □		10uF	±10%	CL31B106KAHNNN □						
220nF	±10%	CL31B224KBCNNN □		35Vdc	10uF	±10%	CL31B106KLHNNN □	Ref.				
4.7uF	±10%	CL31B475KOELENN □			50Vdc	4.7nF	±10%	CL31B472KBHNNN □				
2.2uF	±10%	CL31B225KPENNN □		390nF		±10%	CL31B394KBHNNN □					
2.2uF	±20%	CL31B225MPENNN □		470nF		±5%	CL31B474JBHNNN □					
1.0uF	±10%	CL31B105KAPLNN □		470nF		±10%	CL31B474KBHNNN □					
1.5uF	±10%	CL31B155KPFNNN □		680nF		±10%	CL31B684KBHNNN □					
2.2uF	±10%	CL31B225KPFNNN □		1.0uF		±10%	CL31B105KBHNNN □					
2.2uF	±20%	CL31B225MPFNNN □		2.2uF		±10%	CL31B225KBHNNN □					
820nF	±10%	CL31B824KOFNNN □		4.7uF		±10%	CL31B475KBHNNN □					
1.0uF	±5%	CL31B105JOFNNN □		10uF		±10%	CL31B106KBHNNN □	Ref.				
1.0uF	±10%	CL31B105KOFNNN □										
1.0uF	±20%	CL31B105MOFNNN □										
1.5uF	±10%	CL31B155KOFNNN □										
1.40mm	10Vdc	1.5uF	±10%	CL31B155KPFNNN □								
		2.2uF	±10%	CL31B225KPFNNN □								
		2.2uF	±20%	CL31B225MPFNNN □								
	16Vdc	820nF	±10%	CL31B824KOFNNN □								
		1.0uF	±5%	CL31B105JOFNNN □								
		1.0uF	±10%	CL31B105KOFNNN □								
		1.0uF	±20%	CL31B105MOFNNN □								
		1.5uF	±10%	CL31B155KOFNNN □								
		10nF	±2%	CL31B103GAFNNN □								
	25Vdc	470nF	±5%	CL31B474JAFNNN □								
		470nF	±10%	CL31B474KAFNNN □								
		470nF	±20%	CL31B474MAFNNN □								
560nF		±10%	CL31B564KAFNNN □									
100nF		±10%	CL31B104KBFNNN □									
180nF		±10%	CL31B184KBFNNN □									
50Vdc	200nF	±10%	CL31B204KBFNNN □									
	220nF	±5%	CL31B224JBFNNN □									
	220nF	±10%	CL31B224KBFNNN □									
	220nF	±20%	CL31B224MBFNNN □									
	270nF	±10%	CL31B274KBFNNN □									
	330nF	±5%	CL31B334JBFNNN □									
	330nF	±10%	CL31B334KBFNNN □									
1.80mm	6.3Vdc	3.3uF	±10%	CL31B335KQHNNN □								
		6.8uF	±10%	CL31B685KQHNNN □								

* □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Product Line Up (X7R)

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark	Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
1.45mm	16Vdc	100nF	± 10%	CL32B104KOFNNN □		2.70mm	50Vdc	4.7uF	± 10%	CL32B475KBJNNN □	
		220nF	± 10%	CL32B224KOFNNN □				10uF	± 10%	CL32B106KBJNNN □	
		470nF	± 10%	CL32B474KOFNNN □							
		680nF	± 10%	CL32B684KOFNNN □							
		1.0uF	± 10%	CL32B105KOFNNN □							
		2.2uF	± 10%	CL32B225KOFNNN □							
	25Vdc	220nF	± 5%	CL32B224JAFNNN □							
		220nF	± 10%	CL32B224KAFNNN □							
		470nF	± 20%	CL32B474MAFNNN □							
		560nF	± 5%	CL32B564JAFNNN □							
		1.0uF	± 10%	CL32B105KAFNNN □							
	50Vdc	47nF	± 10%	CL32B473KBFNNN □							
		100nF	± 5%	CL32B104JBFNNN □							
		100nF	± 10%	CL32B104KBFNNN □							
		100nF	± 20%	CL32B104MBFNNN □							
		120nF	± 5%	CL32B124JBFNNN □							
		120nF	± 10%	CL32B124KBFNNN □							
		120nF	± 20%	CL32B124MBFNNN □							
		150nF	± 5%	CL32B154JBFNNN □							
		150nF	± 10%	CL32B154KBFNNN □							
		220nF	± 5%	CL32B224JBFNNN □							
		220nF	± 10%	CL32B224KBFNNN □							
		270nF	± 10%	CL32B274KBFNNN □							
		330nF	± 5%	CL32B334JBFNNN □							
		330nF	± 10%	CL32B334KBFNNN □							
		390nF	± 10%	CL32B394KBFNNN □							
		470nF	± 5%	CL32B474JBFNNN □							
		470nF	± 10%	CL32B474KBFNNN □							
1.80mm	16Vdc	3.3uF	± 10%	CL32B335KOHNNN □							
	25Vdc	330nF	± 10%	CL32B334KAHNNN □							
		2.2uF	± 10%	CL32B225KAHNNN □							
	50Vdc	820nF	± 10%	CL32B824KBHNNN □							
		1.0uF	± 10%	CL32B105KBHNNN □							
		1.0uF	± 20%	CL32B105MBHNNN □							
2.00mm	16Vdc	10uF	± 10%	CL32B106KOLNND □							
	25Vdc	10uF	± 10%	CL32B106KAULND □							
	35Vdc	4.7uF	± 10%	CL32B475KLULND □							
		10uF	± 10%	CL32B106KLULND □							
2.20mm	10Vdc	4.7uF	± 10%	CL32B475KPINND □							
		10uF	± 10%	CL32B106KPINND □							
	16Vdc	4.7uF	± 10%	CL32B475KOINND □							
25Vdc	2.2uF	± 10%	CL32B225KAINND □								
2.70mm	6.3Vdc	22uF	± 20%	CL32B226MQJNND □							
		47uF	± 20%	CL32B476MQJNND □	Ref.						
	10Vdc	22uF	± 10%	CL32B226KPJNND □							
		47uF	± 20%	CL32B476MPJNND □	Ref.						
	16Vdc	10uF	± 10%	CL32B106KOJNND □							
		22uF	± 10%	CL32B226KOJNND □							
		22uF	± 20%	CL32B226MOJNND □							
	25Vdc	3.3uF	± 10%	CL32B335KAJNND □							
		10uF	± 10%	CL32B106KAJNND □							
		22uF	± 10%	CL32B226KAJNND □							
35Vdc	10uF	± 10%	CL32B106KLJNND □								
50Vdc	2.2uF	± 10%	CL32B225KBJNND □								

※ Remarks : Symbols in this catalog have the following definition.

Derating This capacitor with derating is designed for 70% of the rated voltage or less.

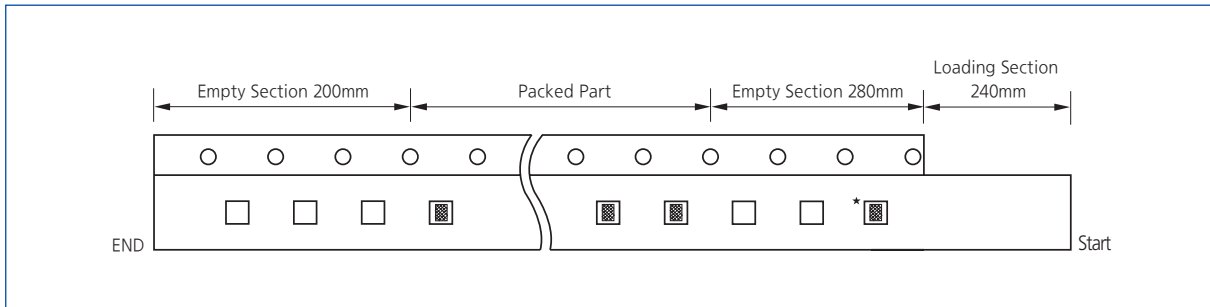
dv/dt dv/dt means Pulse(dv/dt) Guarantee Capacitor, 10,000V/us(=10V/ns) max.10,000 cycles guarantee(@Vr, Room temp)

Ref. Reference means that CAP & TCC have the exceptional measurement conditions for Capacitance and Temperature Characteristics of Capacitance. So please refer to the individual specification for CAP and the individual characteristics data for TCC on Website.

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148

Packaging Specifications

Taping figure



★The chip is only use for identifying the label and packaged products. Please don't use the chip.

Packaging Code & Quantity

Unit : kpcs

Size inch(mm)	Thickness code	Cardboard(Paper) Type										
		7" Reel					10" Reel	13" Reel				
		C	8	H	Z*	Y*	O	D	L	2*	7*	3
01005(0402)	2	20	-	-	-	-	-	100	50	-	-	-
0201(0603)	3	10	-	15	10	10	30	50	-	150	50	-
0402(1005)	3	10	-	15	-	-	30	50	-	-	-	-
	5	10	8	-	10	10	30	50	40	100	50	-
	7,8(THMC)	-	8	-	-	-	-	-	-	-	-	30
0504(1410)	8	4	-	-	-	-	10	10	15	-	-	-
	5	4	-	-	-	-	30	50	-	-	-	-
0603(1608)	8	4	-	-	4	4	10	10	15	-	-	-
	9,N	4	-	-	-	-	-	-	-	-	-	-
0805(2012)	A,C	4	-	-	-	-	10	10	15	-	-	-
1206(3216)	C	4	-	-	-	-	10	10	15	-	-	-

* 2 = 1mm Pitch / Z = Chip aligned for horizontal / Y, 7 = Chip aligned for vertical

Unit : kpcs

Size inch(mm)	Thickness code	Embossed(Plastic) Type							Bulk case Type	Bulk Type
		7" Reel				10" Reel	13" Reel			
		E	G	W*	R*	S	F	P		
01005(0402)	2	50	-	-	-	-	-	-	-	-
0201(0603)	1	10	-	-	-	-	-	-	-	-
0402(1005)	1,2,L	15	-	-	-	-	-	-	-	-
	3,5	-	-	-	-	-	-	50	-	-
0603(1608)	8	3	-	-	3	-	10	15	-	-
	E,M	3	-	-	-	-	-	-	-	-
0604(1610)	D	3	-	3	-	6	10	-	-	-
	A,C	-	-	-	-	-	-	10	-	-
0805(2012)	E	2	3	2	-	6	10	5	-	-
	F	2	3	2	-	6	10	5	-	-
	Q	2	3	2	-	6	10	5	-	-
1206(3216)	E,P,F	2	3	-	-	6	10	-	-	-
	H	2	-	2	-	4	8	-	-	-
1210(3225)	9,D,C,O	2	-	-	-	-	10	-	-	-
	E,F,M	2	-	-	-	-	10	-	-	-
	H,T	2	-	-	-	4	8	-	-	-
	I,U	2	-	-	-	-	4	-	-	-
	J,V	1	-	1	-	-	4	-	-	-
	S	2	-	-	-	-	8	-	-	-
1808(4520)	F	2	-	-	-	-	-	-	-	-
1812(4532)	F	1	-	-	-	-	4	-	-	-
	H,I	1	-	-	-	-	4	-	-	-
	J,L	-	-	-	-	-	2	-	-	-
2220(5750)	H,I,J	-	-	-	-	-	2	-	-	-

* R = Chip aligned for horizontal / W = Chip aligned for vertical