

Soft – term Capacitors

Feature

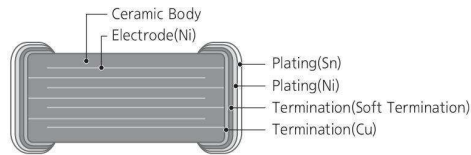
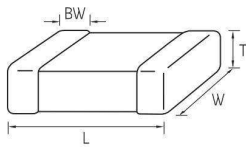


- Soft – Termination relaxes the applied thermal/mechanical stresses by ductile properties of metal-polymer composites.
- Excellent bending strength
- Durability against thermal shock / cycles.

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
03	0201	0.60±0.03	0.30±0.03	0.30±0.03	3	0.15±0.05
		1.00±0.05	0.50±0.05	0.50±0.05	5	
05	0402	1.00±0.05	0.50±0.05	0.60±0.10	6	0.25±0.10
		1.00±0.05	0.50±0.05	0.70±0.10	7	
10	0603	1.60±0.10	0.80±0.10	0.80±0.10	8	0.30±0.20
21	0805	2.00±0.10	1.25±0.10	0.60±0.10	6	0.50+0.2/-0.3
		2.00±0.10	1.25±0.10	0.85±0.10	C	
		2.00±0.10	1.25±0.10	1.25±0.10	F	
		2.00±0.15	1.25±0.15	1.25±0.15	Q	
31	1206	2.00±0.20	1.25±0.20	1.25±0.20	Y	0.50±0.30
		3.20±0.15	1.60±0.15	0.85±0.15	C	
		3.20±0.15	1.60±0.15	1.10±0.15	E	
		3.20±0.15	1.60±0.15	1.15±0.10	P	



Soft - term Capacitance Table (X5R)

Size inch (mm)	Rated Voltage (Vdc)	Capacitance																		
		nF						uF												
		100	150	220	330	470	680	1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
0201 (0603)	6.3							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
	10							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
0402 (1005)	6.3							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
	10							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
0603 (1608)	6.3							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
	10							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100
1206(3216)	25							1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100

Soft - term Capacitance Table (X7R)

Size inch (mm)	Rated Voltage (Vdc)	Capacitance																							
		nF									uF														
		1.0	1.5	6.8	10	15	22	33	47	68	100	150	220	330	470	680	1.0	1.5	2.2	3.3	4.7	6.8	10		
0805(2012)	250																								
1206 (3216)	25																								
	50																								
	100																								
	250																								
	350																								
1210 (3225)	35																								
	50																								
	100																								

Soft – term Capacitors

Product Line Up (X5R)

■ Size : 0.60 X 0.30mm (inch : 0201)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.33mm	10Vdc	100nF	±10%	CL03A104KP3ZNN□	Derating
0.35mm	6.3Vdc	1.0uF	±20%	CL03A105MQ3ZSN□	Derating Ref
	10Vdc	1.0uF	±20%	CL03A105MP3ZSN□	Derating Ref
0.39mm	6.3Vdc	2.2uF	±20%	CL03A225MQ3ZRN□	Derating Ref

■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.57mm	10Vdc	2.2uF	±10%	CL05A225KP5ZSN□	Derating Ref
	6.3Vdc	4.7uF	±20%	CL05A475MQ5ZRN□	Derating Ref
0.65mm	10Vdc	4.7uF	±10%	CL05A475KP5ZRN□	Derating Ref
	6.3Vdc	10uF	±20%	CL05A106MQ5ZUN□	Derating Ref
0.70mm	10Vdc	10uF	±20%	CL05A106MP5ZUN□	Derating Ref
	6.3Vdc	22uF	±20%	CL05A226MQ6ZUN□	Derating
0.80mm	6.3Vdc	22uF	±20%	CL05A226MQ7ZUN□	Derating

■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.95mm	6.3Vdc	10uF	±20%	CL10A106MQ8ZQN□	Ref
1.05mm	6.3Vdc	22uF	±20%	CL10A226MQ8ZUN□	Derating
	10Vdc	22uF	±20%	CL10A226MP8ZUN□	Derating

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
1.80mm	25Vdc	22uF	±10%	CL31A226KAHSNN□	
		22uF	±10%	CL31A226KAHZNN□	

Product Line Up (X7R)

■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
0.95mm	250Vdc	1.0nF	±10%	CL21B102KECSNN□	

■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
1.00mm	350Vdc	10nF	±10%	CL31B103KFCSNN□	
		22nF	±10%	CL31B223KFCSNN□	
1.25mm	350Vdc	33nF	±10%	CL31B333KFESNN□	
1.80mm	25Vdc	10uF	±10%	CL31B106KAHSNN□	
		50Vdc	1.0uF	±10%	CL31B105KBHSNN□
	100Vdc	220nF	±10%	CL31B224KCHSNN□	
		1.0uF	±10%	CL31B105KCHSNN□	
		2.2uF	±10%	CL31B225KCHSNN□	
		250Vdc	100nF	±10%	CL31B104KEHSNN□

■ Size : 3.20 X 2.50mm (inch : 1210)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number	Remark
2.00mm	35Vdc	4.7uF	±10%	CL32B475KLUYNN□	
	50Vdc	4.7uF	±10%	CL32B475KBUYNN□	
2.70mm	100Vdc	1.0uF	±10%	CL32B105KCJSNN□	
		2.2uF	±10%	CL32B225KCJSNN□	

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