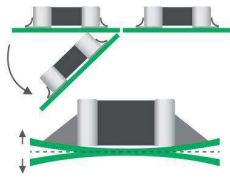


# Special Automotive Capacitors

Higher Bending Strength

## Feature

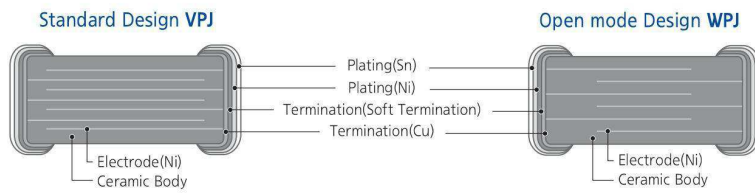
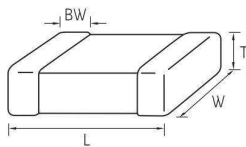


- AEC – Q200 qualified, 5mm bending strength guarantee.
- Strong thermal – mechanical properties.

## Application

- Critical circuits and Battery line circuits.  
(Prevent a module / sub – system failure in the event of a cracked /shorted capacitor)

## Structure and Dimensions



Size Code	EIA Code	Dimension(mm)				
		L	W	T	Thickness Code	BW
05	0402	1.00±0.10	0.50±0.05	0.50±0.05	5	0.25±0.10
10	0603	1.60±0.20	0.80±0.10	0.80±0.10	8	0.30±0.20
21	0805	2.00±0.30	1.25±0.20	0.85±0.10	C	0.50+0.20/-0.30
				1.25±0.20	F	
31	1206	3.20±0.30	1.60±0.30	1.60±0.30	H	0.50±0.30
32	1210	3.20±0.40	2.50±0.30	2.50±0.30	J	0.60±0.30

### Higher Bending Strength Capacitance Table (X7R)

Size inch (mm)	Thickness (mm)	Rated Voltage (Vdc)	Capacitance											
			nF					uF						
			10	22	47	100	220	470	1.0	2.2	4.7	10	22	
0402 (1005)	0.50	16												
		50												
0603(1608)	0.80	25												
0805(2012)	1.25	25												
1206(3216)	1.60	16												

### Product Line Up (Higher Bending Strength Capacitors – X7R)

#### ■ Size : 1.00 X 0.50mm (inch : 0402)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.55mm	16Vdc	10nF	±10%	CL05B103K05VPJ □
		22nF	±10%	CL05B223K05VPJ □
		47nF	±10%	CL05B473K05VPJ □
		100nF	±10%	CL05B104K05VPJ □
	25Vdc	10nF	±10%	CL05B103KA5VPJ □
		22nF	±10%	CL05B223KA5VPJ □
	50Vdc	10nF	±10%	CL05B103KB5VPJ □
		22nF	±10%	CL05B223KB5VPJ □

#### ■ Size : 1.60 X 0.80mm (inch : 0603)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
0.90mm	10Vdc	1.0uF	±10%	CL10B105KP8VPJ □
	16Vdc	1.0uF	±10%	CL10B105K08VPJ □
	25Vdc	1.0uF	±10%	CL10B105KA8VPJ □

#### ■ Size : 2.00 X 1.25mm (inch : 0805)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
1.45mm	10Vdc	1.0uF	±10%	CL21B105KPFVVPJ □
	16Vdc	1.0uF	±10%	CL21B105K0FVVPJ □
	25Vdc	1.0uF	±10%	CL21B105KAFVVPJ □

#### ■ Size : 3.20 X 1.60mm (inch : 1206)

Thickness Max.	Rated Voltage	Capacitance	Capacitance Tolerance	Part Number
1.90mm	10Vdc	4.7uF	±10%	CL31B475KPHVVPJ □
	16Vdc	4.7uF	±10%	CL31B475KOHVVPJ □

※ □ mark means packaging code. If you want to learn the code or quantity in detail, please see p.148  
In order to move to the page directly, please click the here. ↑