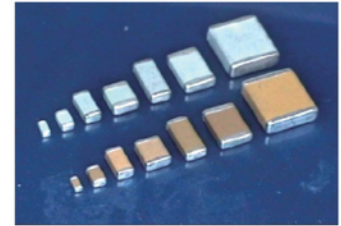


## Multilayer Ceramic Chip Capacitors

### [Automotive Grade] ACC Series



#### ◆ Features

- AEC-Q200 qualified.
- Suitable for harsh Automotive environments without additional qualification testing
- Available with Polymer Termination (Super Term) to prevent mechanical cracking
- High Reliability
- RoHS compliant
- 250Vac, X1/Y2 Safety capacitors available

#### ◆ Applications

- Power supplies
- Lighting
- Isolation
- Powertrain
- Safety equipment
- Custom applications , BMS ,On board charger

#### ◆ Summary of Specifications

Operating Temperature	-55 °C ~ +125 °C
Rated Voltage	16Vdc ~ 1000Vdc , 250Vac X1/Y2 Safety capacitors
Temperature Coefficient	NP0 : $\leq \pm 30\text{ppm}/^\circ\text{C}$ , -55~+125 °C (EIA Class I )
	X7R : $\pm 15\%$ , -55~+125 °C (EIA Class II )
Capacitance Range	NP0 : 10pF ~ 47nF ; X7R : 330pF ~ 4.7uF
Dissipation Factor	NP0 : More than 30pF $Q \geq 1000$ ; 30pF & below $Q \geq 400+20C$ X7R : Range 2.5% ~ 10%
Insulation Resistance	10G $\Omega$ or 500/C $\Omega$ , whichever is smaller (C in Farad )
Aging	NP0 : 0% ; X7R : 2.5% per decade of time
Dielectric Strength	$V < 100V$ : 250% rated voltage
	$100V \leq V < 500V$ : 200% rated voltage
	$500V \leq V < 1000V$ : 150% rated voltage
	$1000V \leq V$ : 120% rated voltage

#### ◆ How To Order

ACC 1206 X 104 K 101 T D X Y

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Thickness (mm) (Optional)	Special Requirement	Suffix Code
ACC : Automotive Grade Capacitors	EX : 0805 1206 1210 1812 1825	EX : N : NP0 X : X7R	EX : 100 : 10 x 10 <sup>0</sup> 221 : 22 x 10 <sup>1</sup> 332 : 33 x 10 <sup>2</sup> 473 : 47 x 10 <sup>3</sup> 684 : 68 x 10 <sup>4</sup>	Ex: J : +/- 5% K : +/- 10% M : +/- 20%	EX : 025 : 25Vdc 050 : 50Vdc 101 : 100Vdc 251 : 250Vdc 501 : 500Vdc	EX : T : T&R 7" R : T&R 13" B : Bulk	Ex: D: 1.25±0.20 E: 1.60±0.20	EX : X: Polymer Termination (Super Term)	Y



