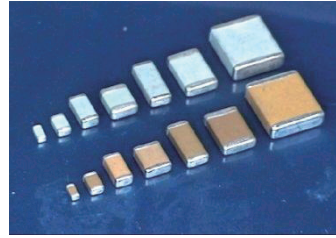


## ACC Series

Automotive Grade MLCC Capacitors.

Rated Voltage 16V – 1KVdc



### ◆ Features

- Suitable for harsh Automotive environments without additional qualification testing
- Available with Polymer Termination (Super Term) to prevent mechanical cracking
- High Reliability
- AEC-Q200 qualified
- TS16949 certified production site
- Rated voltage up to 1KVdc
- RoHS compliant
- 250Vac, X1/Y2 Safety Capacitors available

### ◆ Applications

- Power supplies
- Lighting
- Isolation
- Powertrain
- Safety equipment
- Customized application

### ◆ Summary of Specifications

Operating Temperature	-55~+125 °C
Rated Voltage	16Vdc to 1KVdc
Temperature Coefficient	NP0 : $\leq \pm 30\text{ppm}/^\circ\text{C}$ , -55~+125 °C (EIA Class I )
	X7R : $\leq \pm 15\%$ , -55~+125 °C (EIA Class II )
Capacitance Range	NP0 :10pF to 100nF ; X7R :330pF to 10uF
Dissipation Factor	NP0 : more than 30pF $Q \geq 1000$ ; 30pF & below $Q \geq 400+20C$ X7R : more than or equal to 50V: Max. 2.5% , less than 50V: Max. 10%
Insulation Resistance	10GΩ or 500/C Ω 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	0805	X	104	K	050	T	X	Y
Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Special Requirement	Suffix Code
ACC: Automotive Grade Capacitors	Ex.: 0805 1206 1210 1812 1825 2220	Ex.: N: NP0 X: X7R	Ex.: 100:10×10 <sup>0</sup> 471:47×10 <sup>1</sup> 102:10×10 <sup>2</sup> 473:47×10 <sup>3</sup> 104:10×10 <sup>4</sup>	Ex.: J :+/- 5% K :+/-10% M:+/-20%	Ex.: 025:25Vdc 050:50Vdc 101:100Vdc 251:250Vdc 501:500Vdc 102:1000Vdc	Ex.: T: T/R 7" R: T/R 13" B: Bulk	Ex.: X: Polymer Termination (Super Term)	Y

■ Regarding to the specification and How to Order of the X1/Y2 Class, please refer to SCC series or contact your local Holy Stone office.

