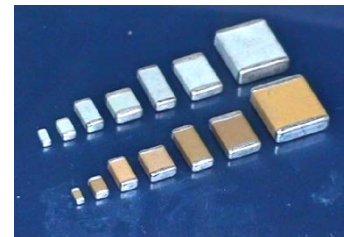


Multilayer Ceramic Chip Capacitors

MVC Series – Middle Voltage NP0 and X7R Capacitors [General Purpose – 100Vdc to 630Vdc]



Holy Stone middle voltage products are designed and manufactured to meet the general requirements of international standards. The product offering is well suited for commercial and industrial applications and includes NP0 (C0G) and X7R characteristics in sizes 0603 to 2225 and with working voltages up to 630Vdc.

◆ Features

- Special internal electrode design offers the highest voltage rating
- Surface mount suitable for wave and reflow soldering
- High reliability
- RoHS compliant

◆ Applications

- Suitable for LAN/WLAN interface, Back-Lighting Inverter, DC-DC Converters, Ballast, Modems and Power Supplies.

◆ Summary of Specifications

Operation Temperature	-55 °C ~ +125 °C
Rated Voltage	100Vdc to 630Vdc
Temperature Coefficient	NP0 : $\leq \pm 30\text{ppm}/^\circ\text{C}$, -55 °C ~ +125 °C (EIA Class I)
	X7R : $\leq \pm 15\%$, -55 °C ~ +125 °C (EIA Class II)
Dissipation Factor	NP0 : $Q \geq 1000$, X7R : D.F. $\leq 2.5\%$
Insulation Resistance	10G Ω or 500/C Ω whichever is smaller
Aging	NP0: 0% , X7R : Typically 1.0% per decade of time
Dielectric Strength	100V $\leq V < 500V$: 200% Rated Voltage
	500V $\leq V < 1000V$: 150% Rated Voltage

◆ How To Order

C
1206
X
102
K
631
T
E
X
Y

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Thickness (mm) (Optional)	Special Requirement (Optional)	Suffix Code
C: MLCC (Multilayer Ceramic Capacitor)	Ex.: 0603 0805 1206 1210 1808 1812 1825 2220 2225	Ex.: N: NP0 X: X7R	Ex.: 2R0:2.0pF 100:10 \times 10 ⁰ 471:47 \times 10 ¹ 102:10 \times 10 ²	Ex.: C: +/-0.25pF D: +/-0.50pF J : +/- 5% K : +/-10% M: +/-20%	Ex.: 101: 100Vdc 251: 250Vdc 501: 500Vdc 631: 630Vdc	Ex. T: T/R 7" R: T/R 13" B: Bulk	Ex: E:1.60 \pm 0.20 F:2.0 \pm 0.20	Ex.: O: Arc Prevention Coating X: Polymer Termination (Super Term) Z: Arc Prevention and Polymer Termination	Y

