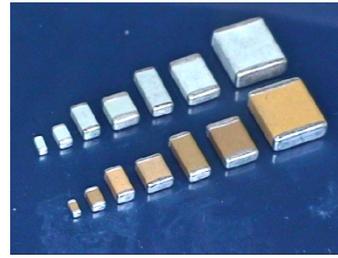


Multilayer Ceramic Chip Capacitors

[High Voltage NP0 and X7R Capacitors]



HVC Series

Holy Stone high voltage products are designed and manufactured to meet the general requirements of international standards. The product offering is well suitable for commercial and industrial applications and includes NP0 (C0G), SL, and X7R characteristics in sizes 0603 to 2225 and with working voltages up to 5KV.

◆ 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 5000Vdc
Temperature Coefficient	NP0 : $\leq \pm 30$ ppm/ °C , -55 °C ~ +125 °C (EIA Class I)
	X7R : $\leq \pm 15\%$, -55 °C ~ +125 °C (EIA Class II)
	SL : $\leq +350/-1000$ ppm/ °C , -25 °C ~ +85 °C (EIA Class I)
Dissipation Factor	NP0/SL : $Q \geq 1000$, X7R : D.F. $\leq 2.5\%$
Insulation Resistance	10G Ω or 500/C Ω whichever is smaller
Aging	NP0/SL : 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
	1000V \leq V : 120% Rated Voltage

◆ How To Order

C
1206
X
102
K
202
T
E
X

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Thickness (mm)	Special Requirement
C: MLCC (Multilayer Ceramic Chip of 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 102: 1000Vdc 202: 2000Vdc 302: 3000Vdc 402: 4000Vdc 502: 5000Vdc	T: T/R 7" R: T/R 13" B: Bulk	Ex: B:0.85 \pm 0.10 E:1.60 \pm 0.20	Ex.: O: Arc Prevention Coating X: Polymer Termination (Super Term)

