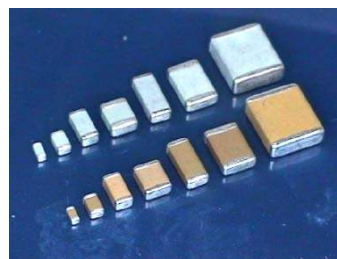


# HVC Series

## High Voltage NP0 and X7R Capacitors

Up to 5KV



**Holy Stone** high voltage products are designed and manufactured to meet the general requirements of international standards. This 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 5KV.

### ◆ Features

- Special internal electrode design offer the highest voltage rating.
- Surface mount suited for solder wave and reflow soldering.
- High reliability.
- RoHS compliant.

### ◆ Applications.

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

### ◆ Summary of Specifications

Operating Temperature	-55~+125 °C
Rated Voltage	100Vdc to 5000Vdc
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 )
Dissipation Factor	NP0: $Q \geq 1000$ ; X7R : D.F. $\leq 2.5\%$
Insulation Resistance	10G $\Omega$ or 500/C $\Omega$ whichever is smaller
Ageing	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
	1000V $\leq$ V : 120% Rated Voltage

### ◆ How To Order



Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Special Requirement
C : MLCC Multilayer Ceramic Capacitor	EX. : 0603 0805 1206 1210 1808 1812 2220 2225	Ex. : N : NP0 X : X7R	Ex. : 2R0 : 2.0pF 100 : 10 $\times$ 10 <sup>0</sup> 471 : 47 $\times$ 10 <sup>1</sup> 102 : 10 $\times$ 10 <sup>2</sup>	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 : Tape & Reel B : Bulk	Ex. : O : Arc Prevention Coating X : Polymer Termination (Super Term)





