



Holy Stone Enterprise Co., Ltd.

CERAMIC CAPACITOR CATALOG

HCT Series

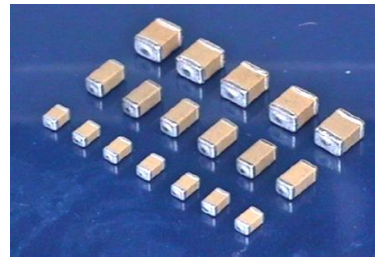
**Commerical grade
High Voltage &
Low DC Bias**

www.holystone.com.tw

www.holystonecaps.com

HCT Series

Multilayer Ceramic Chip Capacitors
250V ~ 630V High Voltage & Low DC Bias



Holy Stone high voltage products are designed and manufactured to meet the general requirements of international standards. The X7T product offering is ideally suited for LED driver, lighting, power adapter and USB charger applications where effective capacitance at working voltage is critical to circuit design.

◆ Features

+22/-33% Temperature Coefficient
from -55° C to +125° C
Low DC Bias characteristics
1206, 1210, 1812 sizes, other sizes and dielectric available upon request
These dielectrics produce lower acoustic noise.

◆ Applications

- LED Drivers
- Power Adapters/USB Chargers
- Lighting
- Power Supplies
- General telecommunications equipment

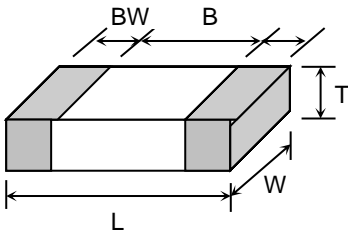
◆ Summary of Specifications

Operation Temperature	-55 to +125 °C
Rated Voltage	250Vdc ~630Vdc
Temperature Coefficient	+22/-33% at -55°C ~+125°C
Capacitance Range	10nF~0.47uF ,other capacitance values available upon request
Dissipation Factor :	2.5% max. at 1KHz 25°C
Insulation Resistance	10GΩ or 500 MΩ ·μF min. whichever is smaller
Dielectric Withstanding	1.5 x WVDC for 5 sec
Capacitance Tolerance	± 10% , ± 20%,

◆ How To Order

C	1210	T	154	K	631	T	X
Product Code C : MLCC Multilayer Ceramic Capacitor	Chip Size 1206 1210 1812	Dielectric T : X7T	Capacitance Unit : pF Example: 103 : 10 x 10 ³ 104 : 10 x 10 ⁴ 224 : 22 x 10 ⁴	Tolerance Example: J : +/- 5% K : +/-10% M : +/-20%	Rated Voltage Example: 251 : 250Vdc 451 : 450Vdc 631 : 630Vdc	Packaging T : T/R 7" R : T/R 13" B : Bulk	Special Requirement Example: O : Arc Prevention Coating X : Polymer Termination (Super Term) Z : Arc coating and Polymer Termination

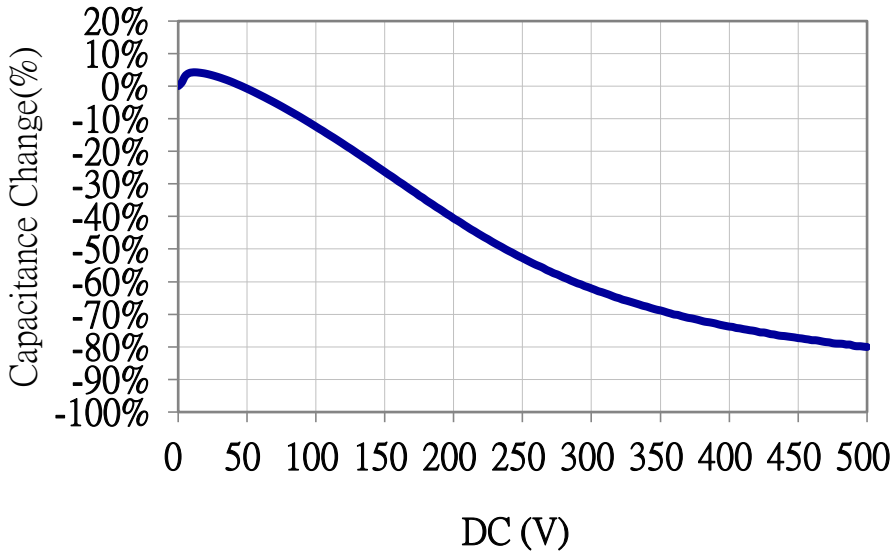
◆ Dimensions



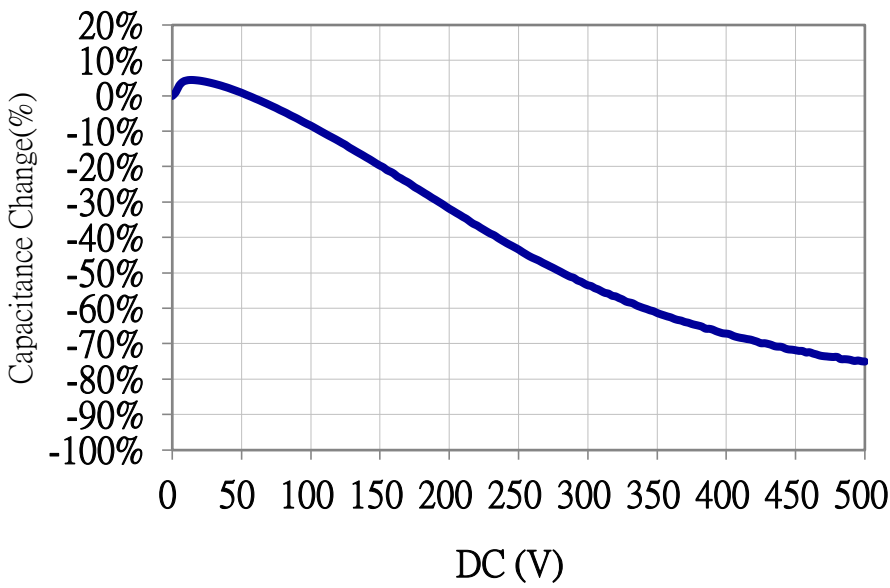
SIZE	L	W	T (max)	B (min)	BW (min)
1206	3.20±0.30	1.60±0.20	1.80	1.50	0.30
	[.126±.012]	[.126±.012]	[.071]	[.059]	[.012]
1210	3.20±0.30	2.50±0.20	2.60	1.60	0.30
	[.126±.012]	[.126±.012]	[.102]	[.059]	[.012]
1812	4.60±0.30	3.20±0.30	3.00	2.50	0.30
	[.181±.012]	[.126±.012]	[.118]	[.098]	[.012]

◆ Capacitance Range (preferred values)

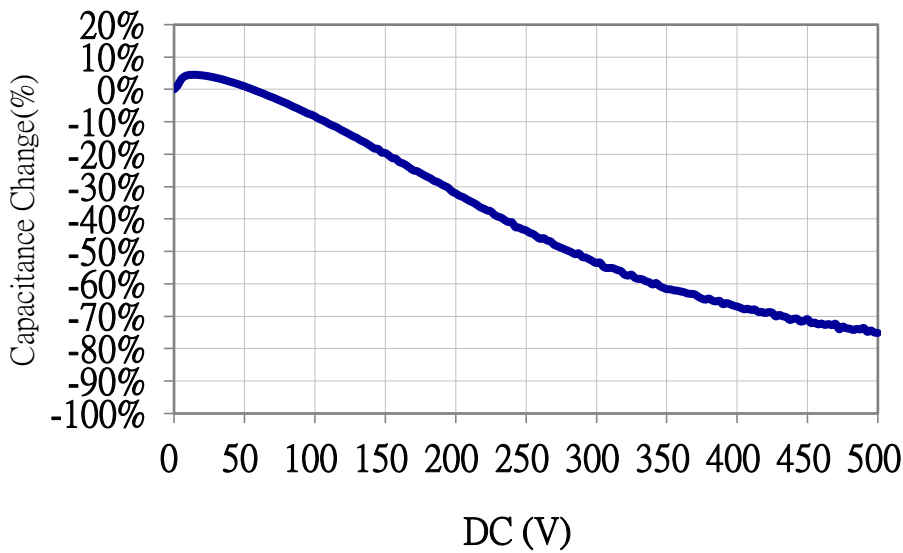
Temperature Characteristic	Voltage	Size	EIA Capacitance Code																				
			103	123	153	183	223	273	333	393	473	563	683	823	104	154	224	334	394	474	684		
X7T	250V	1206															E						
		1210																	F				
	450V	1206										E		E									
		1210																F					
	630V	1206	B		B		C		D		E												
		1210													E	F							



C1812T334K451T
DC Bias Characteristics
(typical)



C1210T154K631T
DC Bias Characteristics
(typical)



C1206T473K631T
DC Bias Characteristics
(typical)

Cap	Size	Thickness	Cap. Tol.	Catalog Number		
				Rated Voltage Vdc 250V	Rated Voltage Vdc 450V	Rated Voltage Vdc 630V
103 (10nF)	1206 B/0.85±0.15mm		K			C1206T103K631T
153 (15nF)	1206 B/0.85±0.15mm		K			C1206T153K631T
223 (22nF)	1206 C/1.0 +0.1mm -0.05mm		K			C1206T223K631T
333 (33nF)	1206 D/1.25±0.2mm		K			C1206T333K631T
473 (47nF)	1206 E/1.6±0.2mm		K			C1206T473K631T
683 (68nF)	1206 E/1.6±0.2mm		K		C1206T683K451T	
104 (100nF)	1206 E/1.6±0.2mm		K		C1206T104K451T	
	1210 E/1.6±0.2mm		K			C1210T104K631T
154 (150nF)	1210 F/2.0±0.2mm		K			C1210T154K631T
224 (220nF)	1206 E/1.6±0.2mm		K	C1206T224K251T		
	1210 F/2.0±0.2mm		K		C1210T224K451T	
334 (330nF)	1210 F/2.0±0.2mm		K	C1210T334K251T		
	1812 F/2.0±0.2mm		K		C1812T334K451T	
474 (470nF)	1812 G/2.4±0.2mm		K		C1812T474K451T	

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[NMC0603NPO330G50TRPF](#) [NMC0603X5R475M6.3TRPF](#) [NMC0805NPO270J50TRPF](#) [NMC0805NPO820J50TRPF](#)
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[NMC1206X7R475K10TRPLPF](#) [NMC-H0805X7R472K250TRPF](#) [NMC-L0402NPO7R0C50TRPF](#) [NMC-L0603NPO2R2B50TRPF](#) [NMC-](#)
[P0805NPO221J500TRPLPF](#) [NMC-Q0402NPO8R2D200TRPF](#) [C1206C101J1GAC](#) [C1608C0G2A221J](#) [C1608X7R1E334K](#) [C2012C0G2A472J](#)
[2220J2K00562KXT](#) [1812J2K00332KXT](#) [CDR31BX103AKWR](#) [CDR33BX104AKUR](#) [CDR33BX683AKUS](#) [CGA2B2C0G1H010C](#)
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