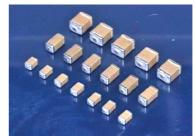


Multilayer Ceramic Chip Capacitors [Trigger Capacitors for Strobe]

TCX Series



The TCX series is specifically designed with a proprietary material for discharge applications such as strobe circuit applications. The unique properties of the X7E material, and the design of the TCX series, make them suitable for any discharge application which requires the capacitor to have a good damping characteristic.

The TCX series is also suitable for applications in which a minimum change in capacitance over temperature (T/C) is desired. The TCX series is offered in sizes 0805, 1206 and 1210 and at 350Vdc and 630Vdc.

♦ Features

- ☐ Excellent trigger characteristics
- \Box Low ESR & Low Tan δ
- Excellent DC Bias
- □ Provide good damping characteristics results in more light
- RoHS compliant

◆ Applications

☐ Suitable for strobe trigger circuit in digital and electric cameras.

◆ Summary of Specifications

Operation Temperature	-55 °C ~ +125 °C	
Rated Voltage	350Vdc and 630Vdc	
Temperature Coefficient	X7E : \leq ± 4.7% , -55 $^{\circ}$ C $^{\sim}$ +125 $^{\circ}$ C (EIA Class II)	
Capacitance Range	1.0nF to 100nF	
Dissipation Factor	1.0% max. at 1KHz 25 °C	
Insulation Resistance	10GΩ or 500/CΩ whichever is smaller (C in Farads)	
Dielectric Strength	350Vdc : 200% Rated Voltage	
	650Vdc : 150% Rated Voltage	
Capacitance Tolerance	± 5%, ± 10%, ± 20%	
Aging 1.0% per decade hr., typical		

♦ How To Order

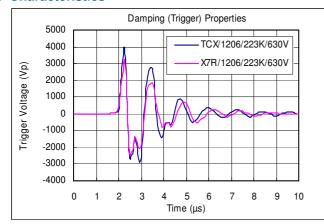
TCX	1206	С	223	К	631	T
Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
TCX: Trigger Capacitor	Ex.: 0805 1206 1210	C: X7E	Ex.: 102 : 10×10 ² 473 : 47×10 ³	Ex.: J: +/- 5% K: +/- 10% M: +/- 20%	Ex.: 351 : 350Vdc 631 : 630Vdc	T: T&R 7" R: T&R 13" B: Bulk

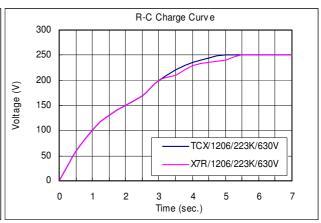




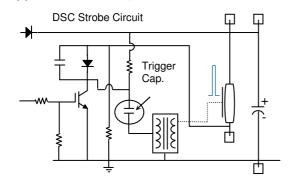
Unit: mm [inches]

♦ Characteristics

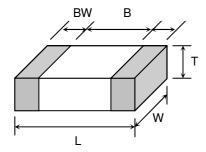




◆ Application Example of Circuit



♦ Dimensions



TYPE	L	W	T (max)	B (min)	BW (min)
0805	2.00±0.20	1.25±0.20	1.45	0.70	0.20
	[.079±.012]	[.049 ±.008]	[.057]	[.028]	[.008]
1206	3.20±0.30	1.60±0.20	1.80	1.50	0.30
	[.126±.012]	[.063±.008]	[.071]	[.059]	[.012]
1210	3.20±0.30	2.50±0.20	1.80	1.60	0.30
	[.126+.012]	[.098+.008]	[.071]	[.063]	[.012]

♦ Capacitance Range

Dielectric Characteristic	Size	Voltage	102 122 152 182 293	272 332 392 472		tance Rang		563 683 823 104	154	
X7E	0805	350V				CCCDC				
	1206	350V			(CCCC	CDEE	3		
	630V			DI	DDDD	DEEL				
	1210	350V				DDDD	DDD	DEEE		
	630V		DDDDDDDEE							
Symbol Code	S	0	Α	В	С	D	Е	F	G	Н
Thickness(mm)	0.3±0.03	0.5±0.05	0.6±0.1	0.85±0.1	1.0±0.1	1.25±0.20	1.6±0.2	2.0±0.2	2.4±0.2	2.8±0

■ Other dimensions, capacitance values and voltages rating are available. Please contact Holy Stone.

