

Multilayer Ceramic Capacitors

[X2 and X1/Y2 Safety Certified Capacitors]

SCC Series Rated up to 305Vac





The SCC series X2 and X1/Y2 rated at 250Vrms and X2 rated at 305Vrms safety capacitors are designed specifically for use in modem, facsimile, telephone and other electronic equipment. These parts are compliant to IEC60384-14, UL60950-1 and UL60384-14 standards. These capacitors are available in NP0 (C0G) and X7R dielectrics.

♦ Features

- ☐ Small size & high capacitance
- ☐ Suitable for reflow soldering
- □ Surface mount
- ☐ Safety standard approval by IEC60384-14, UL 60950-1 and UL60384-14
- ☐ RoHS compliant and Lead(Pb) free option
- ☐ Certified to:

TUV R50005234, R50103496 & UL E229738 TUV R50162550 & UL E300818 & UL E229738 for Lead(Pb) free

♦ Applications

☐ The X2 and X1/Y2 (250Vrms) and X2-(305Vrms) are specially designed for use in Modem, Facsimile, Telephone and other telecommunication equipment, electronic equipment for lighting and surge protection, EMI filtering and Isolation.

♦ Safety Details of Specifications

IEC 60384-14:2013+AMD1:2016	Meets the electrical requirements and certification for equipment requiring Class		
EN 60384-14:2013+AMD1:2016	X1/Y2 and X2 devices.		
UL 60384-14 : 2014, 2 nd Edition	Component certified for equipment requiring UL-60384-14 compliance		
UL 60950-1: 2007, 2 nd Edition	TNV/SELV isolation capacitors certified To UL 60950-1		

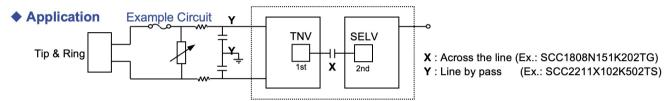
♦ How To Order

SCC	1808	X	102	K	502	T	S
Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Class	Packaging	Special Requirement
SCC: Safety Certified MLCC	Ex.: 1808 1812 2208 2211 2220 2825	Ex.: N: NP0 X: X7R	Ex.: 2R0:2.0pF 100:10×10 ⁰ 471:47×10 ¹ 182:18×10 ²	Ex.: J :+/-5% K :+/-10% M :+/-20%	Ex.: 202: X2 252: X2 (305Vrms) 502: X1/Y2 602: X1/Y2 for SCC2208N, SCC2211N, SCC2220N	Ex.: T: T&R 7" R: T&R 13" B: Bulk	Ex.: S: Arc Prevention Coating X: Polymer Termination (Super Term) Z: Arc Prevention Coating & Polymer Termination (Super Term) G: Lead (Pb) Free



♦ Summary of Specifications

Rated Voltage	AC 250Vrms and AC 305Vrms		
Tomporature Coefficient	NP0 : < ±30ppm/ °C , -55 °C to +125 °C (EIA Class I)		
Temperature Coefficient	X7R : < \pm 15% , -55 °C to +125 °C (EIA Class Π)		
	X1/Y2: 2.0pF ~ 4700pF		
Capacitance Range	X2 – 250Vrms : 2pF ~ 56nF X2 – 305Vrms : 150pF ~ 33nF		
Quality and Dissipation Factor	NP0 : Q≧1000 ,X7R : D.F.≦2.5%		
Climatic Category	55/125/21		
Insulation Resistance	10GΩ		
Voltage Proof	X Capacitor : Applied Voltage 1075Vdc(4.3Ur),1312Vdc(4.3Ur) Y Capacitor : Applied Voltage 1500Vac		
Impulse	X2: 2.5KV, Y2: 5KV for three times		
Aging	NP0: 0 % , X7R: 1.0 % per decade hr., typically		



♦ Capacitance Range

250Vrms							
Class	Size	Temperature Characteristic	Rated Voltage	Certificate	2220 2220		
	1808	NP0	250Vrms	TUV/UL			
X2	1808	X7R	250Vrms	TUV/UL			
	1812	X7R	250Vrms	TUV/UL			
	1808	NP0	250Vrms	TUV/UL			
	1808	X7R	250Vrms	TUV/UL			
	1812	NP0	250Vrms	TUV/UL			
	1812	X7R	250Vrms	TUV/UL			
X1/Y2	2208	NP0	250Vrms	TUV/UL			
\ \/\12	2208	X7R	250Vrms	TUV/UL			
	2211	NP0	250Vrms	TUV/UL			
	2211	X7R	250Vrms	TUV/UL			
	2220	NP0	250Vrms	TUV/UL			
	2220	X7R	250Vrms	TUV/UL	XXXXX X XXXX		
	l Circ I	e Rated		Capacitance Range			
Class		Voltage	Certificated	1			
X2	2220	X7R	250Vrms	TUV/UL			
1 ^2	2825	X7R	250Vrms	UL			

'X' denotes values that have been tested to a rated voltage of 305Vac. TUV test report number 28208004 dated on May 27th, 2010.

305Vrms					
Class	Size	Temperature Characteristic	Rated Voltage	Certificated	Capacitance Range 8 8 8 8 8 9 8 8 8 9 9 9 9 9 9 9 9 9 9
X2	2220	X7R	305Vrms	TUV/UL	