

# Safety Certificated Capacitors X2/Y3 S3 Series

## FEATURES

- \* High voltage in a given case size.
- \* High stability and reliability.
- \* RoHS compliant.



## GENERAL ELECTRICAL DATA

Dielectric	NPO	X7R
Size	1808, 1812	
Capacitance*	3.9pF to 1000pF	150pF to 5600pF
Capacitance tolerance	J (±5%), K (±10%)	K (±10%), M (±20%)
Rated voltage (WVDC)	2000V, 3000V	
Rated voltage (WVAC)	250Vrms	
Q/ DF(Tan δ)	Cap<30pF: Q≥400+20C	Tan δ≤2.5%
Insulation resistance at Ur	≥10GΩ	
Dielectric withstanding strength	1500VAC	
Peak impulse voltage (X2)	2500V	
Operating temperature	-55 to +125°C	
Capacitance characteristic	±60ppm	±15%
Termination	Ni/Sn (lead-free termination)	
Certified number	TUV: R500021351, R50118359, R50195920, UL: E250427, E182369	
Test standard	EN 60384-14:2005, IEC 60384-14:2005, UL 60950:2000, UL 60384-14	

## EXPLANATION OF PART NUMBERS

S3	42	N	100	J	202	L	I
Series	Size (Inch (mm))	Dielectric	Capacitance	Tolerance	Rated voltage	Termination	Packaging
S3=X2/Y3	42=1808 (4520)	N=NPO	100=10x10 <sup>0</sup> =10pF	J=±5%	202=2000 VDC	L=Ag/Ni/Sn	T=7" reeled

\* Please refer to page 2 "How to order" for more information.

## CAPACITANCE RANGE

DIELECTRIC	NPO			
	SIZE			
	1808	1812	1812	
RATED VOLTAGE (VDC)	2000	3000	3000	
Capacitance	3.9pF (3R9)		F	
	4.7pF (4R7)		F	
	5.0pF (5R0)		F	
	5.6pF (5R6)		F	
	6.8pF (6R8)		F	
	8.2pF (8R2)		F	
	10pF (100)	F	F	D
	12pF (120)	F	F	D
	15pF (150)	F	F	D
	18pF (180)	F	F	D
	22pF (220)	F	F	D
	27pF (270)	F	F	D
	33pF (330)	F	F	D
	39pF (390)	G	G	D
	47pF (470)	G	G	D
	56pF (560)	G	G	D
	68pF (680)	G	G	D
	82pF (820)	G	G	D
	100pF (101)	K	K	D
	120pF (121)	K	K	D
	150pF (151)	K	K	D
180pF (181)	K	K	D	
220pF (221)	K	K	D	
270pF (271)	K	K	D	
330pF (331)	K		D	
390pF (391)	K		D	
470pF (471)	K		D	
560pF (561)	K		D	
680pF (681)	K		K	
820pF (821)	K		K	
1,000pF (102)	K		K	

DIELECTRIC	X7R				
	SIZE				
	1808	3000	2000	3000	
RATED VOLTAGE (VDC)	2000	3000	2000	3000	
Capacitance	150pF (151)	G			
	180pF (181)	G			
	220pF (221)	G			
	270pF (271)	G		G	
	330pF (331)	G	G	G	
	390pF (391)	G	G	G	
	470pF (471)	G	G	G	
	560pF (561)	G	G	G	
	680pF (681)	G	G	G	G
	820pF (821)	G	G	G	G
	1,000pF (102)	K	K	G	G
	1,200pF (122)	K		G	
	1,500pF (152)	K		K	
	1,800pF (182)	K		K	
	2,200pF (222)	K		M	
	2,700pF (272)			M	
	3,300pF (332)			M	
3,900pF (392)			M		
4,700pF (472)			M		
5,600pF (562)			M		

1. The letter in cell is expressed the symbol of product thickness.
2. For more information about products with special capacitance or other data, please contact WTC local representative.