

■ FEATURES

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



■ GENERAL ELECTRICAL DATA

Dielectric	NP0	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 Cap≥30pF: Q≥1000	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	±30ppm	±15%
Termination	Ni/Sn (lead-free termination)	
Certified number	TUV: R50195920, UL: E250427, E182369	
Test standard	EN 60384-14, UL 60950:2000, UL 60384-14	

■ EXPLANATION OF PART NUMBERS

S3	42	N	100	J	202	L	I
Series S3=X2	Size (Inch (mm)) 42=1808 (4520)	Dielectric N=NP0	Capacitance 100=10x10 ⁰ =10pF	Tolerance J=±5%	Rated voltage 202=2000 VDC	Termination L=Ag/Ni/Sn	Packaging T=7" reeled

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

■ CAPACITANCE RANGE

DIELECTRIC	NP0			
	1808		1812	
	2000	3000	3000	
SIZE				
RATED VOLTAGE (VDC)				
Capacitance	3.9pF (3R9)	F*	F*	
	4.7pF (4R7)	F*	F*	
	5.0pF (5R0)	F*	F*	
	5.6pF (5R6)	F*	F*	
	6.8pF (6R8)	F*	F*	
	8.2pF (8R2)	F*	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*	K*	D	
390pF (391)	K*	K*	D	
470pF (471)	K*	K*	D	
560pF (561)	K*	K*	D	
680pF (681)	K*	K*	K	
820pF (821)	K*	K*	K	
1,000pF (102)	K*	K*	K	

DIELECTRIC	X7R				
	1808		1812		
	2000	3000	2000	3000	
SIZE					
RATED VOLTAGE (VDC)					
Capacitance	150pF (151)	G			
	180pF (181)	G*	G*		
	220pF (221)	G*	G*		
	270pF (271)	G*	G*	G	
	330pF (331)	G*	G*	G*	G*
	390pF (391)	G*	G*	G*	G*
	470pF (471)	G*	G*	G*	G*
	560pF (561)	G*	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*	K*	G*	G*
	1,500pF (152)	K*	K*	K*	K*
	1,800pF (182)	K*	K*	K*	K*
	2,200pF (222)	K		M	M
	2,700pF (272)			M	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.