

■ FEATURES

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



■ GENERAL ELECTRICAL DATA

Dielectric	NP0	X7R
Size	1808, 1812, 2211	1808, 1812, 2220, 2211
Capacitance	4pF to 680pF	100pF to 4700pF
Capacitance tolerance	J (±5%), K (±10%)	
Rated voltage (WVAC)	250Vrms	
Q/ DF(Tan δ)	Cap<30pF: Q≥400+20C Cap≥30pF: Q≥1000	DF≤2.5%
Insulation resistance at Ur	≥10GΩ	
Dielectric withstanding strength	1500VAC	
Peak impulse voltage	5000V	
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

S2	42	N	100	J	302	L	I
Series S2=X1/Y2	Size (Inch (mm)) 42=1808 (4520)	Dielectric N=NP0	Capacitance 100=10x10 ⁰ =10pF	Tolerance J=±5%	Rated voltage 302=3000 VDC 602=6000 Impulse Voltage	Termination L=Ag/Ni/Sn C=Cu/Ni/Sn	Packaging T=7" reeled

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

■ CAPACITANCE RANGE

DIELECTRIC	NP0				
	SIZE	1808	1812	2211	
	RATED VOLTAGE (VDC)	3000	3000	3000	
PEAK IMPULSE VOLTAGE	5000	5000	5000	6000	
Capacitance	4pF (4R0)	F*		K*	K
	5pF (5R0)	F*		K*	K
	10pF (100)	F*	D	K*	K
	12pF (120)	F*	D	K*	K
	15pF (150)	F*	D	K*	K
	18pF (180)	F*	D	K*	K
	22pF (220)	F*	D	K*	K
	27pF (270)	F*	D	K*	K
	33pF (330)	F*	D	K*	K
	39pF (390)	G*	D	K*	K
	47pF (470)	G*	D	K*	K
	56pF (560)	G*	D	K*	K
	68pF (680)	G*	D	K*	K
	82pF (820)	G*	D	K*	K
	100pF (101)	K	D	K*	K
	120pF (121)	K	D	M	
	150pF (151)	K	D	M	
	180pF (181)		D	M	
	220pF (221)		K	M	
	270pF (271)		K	M	
330pF (331)		K	M		
390pF (391)		K	M		
470pF (471)		K	M		
560pF (561)			M		
680pF (681)			M		

DIELECTRIC	X7R				
	SIZE	1808	1812	2211	2220
	RATED VOLTAGE (VDC)	3000			
PEAK IMPULSE VOLTAGE	5000				
Capacitance	56pF (560)				
	68pF (680)				
	82pF (820)				
	100pF (101)	G			
	120pF (121)	G			
	150pF (151)	G	G	G*	
	180pF (181)	G	G	G*	K
	220pF (221)	G	G	G*	K
	270pF (271)	K	G	G*	K
	330pF (331)	K	G	G*	K
	390pF (391)	K	G	G*	K
	470pF (471)	K	G	K*	K
	560pF (561)	K	G	K*	K
	680pF (681)	K	K	K*	K
	820pF (821)	K	K	K*	K
	1,000pF (102)	K	M	M*	K
	1,200pF (122)			M	M
	1,500pF (152)			M	M
	1,800pF (182)			M	M
	2,200pF (222)			M	M
3,300pF (332)				M	
4,700pF (472)				M	

- The letter in cell is expressed the symbol of product thickness.
- The letter in cell with "*" mark is expressed product with Cu/Ni/Sn terminations.
- For more information about products with special capacitance or other data, please contact WTC local representative.

■ PACKAGING DIMENSION AND QUANTITY (X1/Y2 & X2 Series)

Unit: pieces

Size Inch (mm)	L (mm)	W (mm)	M _B min(mm)	T (mm)/Symbol	7" Plastic tape	
1808 (4520)	4.50±0.5/-0.3	2.03±0.25	0.26	1.40±0.15	F	2,000
				1.60±0.20	G	1,000
				2.00±0.20	K	1,000
1812 (4532)	4.50±0.5/-0.3	3.20±0.30	0.26	1.60±0.20	G	1,000
				2.00±0.20	K	1,000
				2.50±0.30	M	500
2220 (5750)	5.70±0.40	5.00±0.40	0.30	2.00±0.20	K	1,000
				2.50±0.30	M	500
				1.60±0.20	G	1,000
2211 (5728)	5.70±0.40	2.80±0.30	0.30	2.00±0.20	K	1,000
				2.50±0.30	M	500
				2.50±0.30	M	500