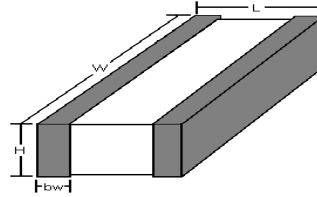


Surface Mount Capacitors: 2220– X7R; X5R High Voltage

2220 SMT Capacitors feature:

- 2220 Case Size
- High Voltage
- X7R, X5R Dielectric Material
- Extended Range

Mechanical Dimensions



Length (L): .220" ± .010"

Width (W): .200" ± .010"

Thickness (T): .060" to .160"

Bandwidth (bw): .040"

Capacitance Value

Value (pF)	Cap. Code	Max Voltage	Dielectric	Value (pF)	Cap. Code	Max Voltage	Dielectric		
100	101	5000 VDC	X7R	33,000 (.033μF)	333	2000 VDC	X7R		
150	151	↓	X7R	39,000 (.039μF)	393	↓	X7R		
220	221		X7R	47,000 (.047μF)	473		X7R		
330	331		X7R	56,000 (.056μF)	563		X7R		
470	471		X7R	68,000 (.068μF)	683		1500 VDC	X7R	
680	681		X7R	82,000 (.082μF)	823		↓	X7R	
820	821		X7R	100,000 (.10μF)	104		1000VDC	X7R	
1000	102		X7R	150,000 (.15μF)	154		↓	X7R	
1500	152		X7R	220,000 (.22μF)	224		↓	X7R	
1800	182		X7R	330,000 (.33μF)	334		630 VDC	X7R	
2200	222		X7R	470,000 (.47μF)	474		↓	X7R	
2700	272	↓	X7R	560,000 (.56μF)	564	↓	X7R		
3300	332		X7R	680,000 (.68μF)	684		X7R		
4700	472		X7R	1,000,000 (1μF)	105		X7R		
5600	562		3000 VDC	X7R	1,500,000 (1.5μF)		155	250 VDC	X7R
6800	682		X7R	2,200,000 (2.2μF)	225		250 VDC	X7R,X5R	
8200	822		X7R	3,300,000 (3.3μF)	335		200 VDC	X7R,X5R	
10,000 (.01μF)	103		X7R	4,700,000 (4.7μF)	475		↓	X7R,X5R	
15,000 (.015μF)	153		X7R	10μF	106		150 VDC	X7R,X5R	
18,000 (.018μF)	183		X7R	22μF	226		100 VDC	X7R,X5R	
22,000 (.022μF)	223		X7R	47μF	476		50VDC	X7R,X5R	
27,000 (.027μF)	273	X7R	100μF	107	25 VDC	X7R, X5R			

** For Additional Capacitance Values and Working Voltages, Please Contact the Factory **

ORDERING INFORMATION

Case Size	Dielectric	Capacitance	Tolerance	Voltage	Termination	Packaging	Hi-Reli Testing
2220	X	103	K	302	SN	T	- A
Mechanical Dimensions Shown Above	X = X7R B = X5R	First 2 digits are Significant; Third digit indicates # of Zeros. Use "R" for decimal point Examples: 103 = 10000pF 2R2 = 2.2pF	J ±5% K ±10% M ±20% GM = -0%/+40%	First 2 digits are Significant; Third digit indicates number of Zeros Examples: 201 = 200VDC 302 = 3000VDC	S Solder Plated Over Nickel SN Tin over Nickel Plated (RoHS Compliant) G Gold over Nickel Plated (RoHS Compliant)	T = Tape and Reel	(Optional) A = Group A B = Group B C = Group C Tested and Screened