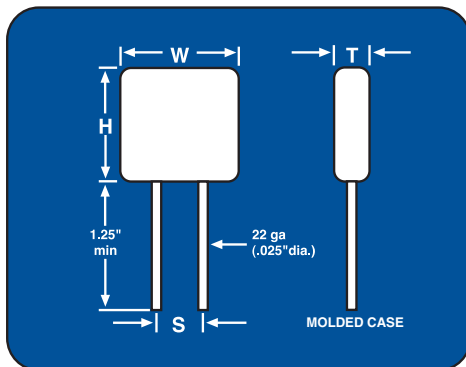


200°C High Voltage Leaded Ceramic Capacitors

500VDC - 5000VDC



General Specifications

	X7R	NPO
Capacitance Range	100pf-1.0µF (+25° C, 1.0Vrms, 1Khz)	100pf-.27µF (+25° C, 1.0Vrms, 1Khz)
Capacitance Tolerance	+/- 5,10,20%, +80/-20%	+/- 1,2,5,10,20%, +80/-20%
Temperature Coefficient	+15%, -50% from -55° C to 200° C	+/- 30ppm/ C, from -55° C to 200° C
Dissipation Factor	2.5% max. (+25° C, 1.0Vrms, 1Khz)	.15% max. (+25° C, 1.0Vrms, 1Khz)
Voltage Ratings	500 to 5000 Vdc @200° C	
Dielectric Withstanding Voltage	1Kv and below @ 1.5x rated voltage, 2Kv and above @ 1.2x rated voltage (100mA max.)	
Insulation Resistance (min.)	100K megohms or 1K megohms-mfd at 25° C, whichever is less 100 megohms or 1 megohms-mfd at 200° C, whichever is less	

Style and Size Information (All dimensions are in inches)

STYLE	MAX WIDTH(W)	MAX HEIGHT(H)	MAX THICKNESS(T)	LEAD SPACING(S) +/- .030
2525	.250	.250	.150	.200
3530	.350	.300	.200	.200
4540	.450	.400	.200	.400
5050	.500	.500	.200	.400
6560	.650	.600	.250	.600
7570	.750	.700	.250	.600
10090	1.000	.900	.250	.800

X7R MAXIMUM CAPACITANCE

STYLE	MIN	500V MAX	1000V MAX	2000V MAX	3000V MAX	4000V MAX	5000V MAX
2525	100 pf	.01 µF	2200 pf				
3530	100 pf	.033 µF	.01 µF	1500 pf			
4540	100 pf	.1 µF	.027 µF	5600 pf	2700 pf		
5050	100 pf	.15 µF	.047 µF	.01 µF	4700 pf	2700 pf	
6560	560 pf	.39 µF	.1 µF	.027 µF	.01 µF	8200 pf	3900 pf
7570	1000 pf	.56 µF	.15 µF	.039 µF	.018 µF	.012 µF	6800 pf
10090	2200 pf	1.0 µF	.27 µF	.068 µF	.027 µF	.022 µF	.012 µF

NPO MAXIMUM CAPACITANCE

STYLE	MIN	500V MAX	1000V MAX	2000V MAX	3000V MAX	4000V MAX	5000V MAX
2525	100 pf	3900 pf	820 pf				
3530	100 pf	.01 µF	3300 pf	1000 pf			
4540	100 pf	.033 µF	.01 µF	3900 pf	1800 pf		
5050	100 pf	.056 µF	.015 µF	6800 pf	2700 pf	1200 pf	
6560	560 pf	.1 µF	.033 µF	.015 µF	8200 pf	2500 pf	2200 pf
7570	1000 pf	.15 µF	.047 µF	.022 µF	.012 µF	4700 pf	3300 pf
10090	2200 pf	.27 µF	.068 µF	.033 µF	.022 µF	.01 µF	6800 pf

How To Order

(Custom sizes and values available, contact factory)

202	L	4540	B	103	K	HT
Voltage	Configuration	Style	Dielectric Type	Capacitance Value	Tolerance	Temperature Rating
501 = 500	L = Leaded		B = X7R	Capacitance In	F = ± 1%	HT = 200° C
102 = 1000			A = NPO	Picofarads	G = ± 2%	
202 = 2000				Last Digit is the	J = ± 5%	
302 = 3000				Number of Zeros	K = ± 10%	
402 = 4000				ie, 103 = 10,000 pf	M = ± 20%	
502 = 5000					Z = + 80/- 20%	
					P = GMV	

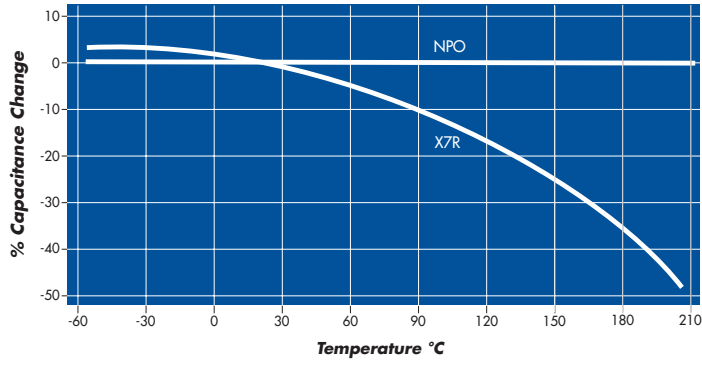
CIRCUIT FUNCTIONS, Inc.

2282 Mouton Drive • Carson City, Nevada 89706 • (775) 885-8003 • Fax (775) 885-9943

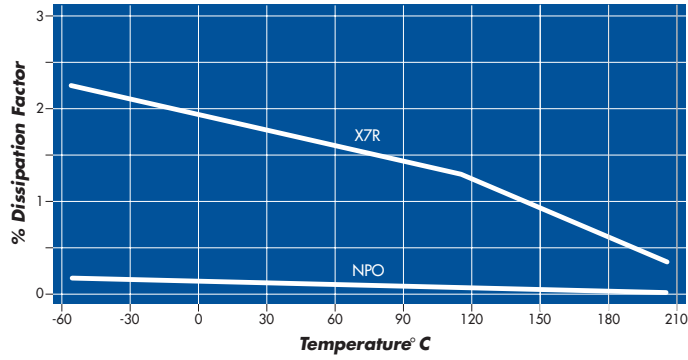
www.circuitfunctions.com

Data Sheet Rev A

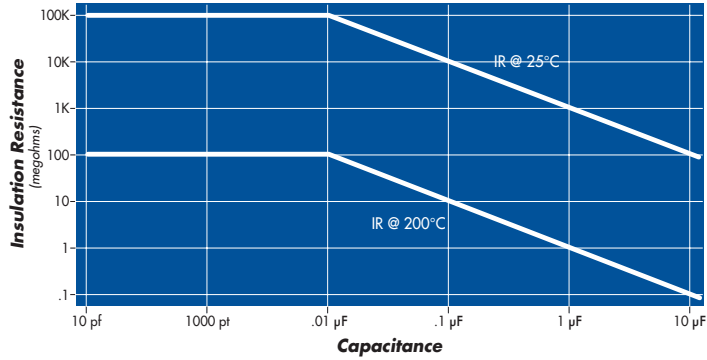
Temperature Coefficient of Capacitance



Typical Dissipation Factor vs. Temperature



Minimum Insulation Resistance vs. Temperature and Capacitance



% Voltage Rating vs. Temperature Rating X7R (200°C)

