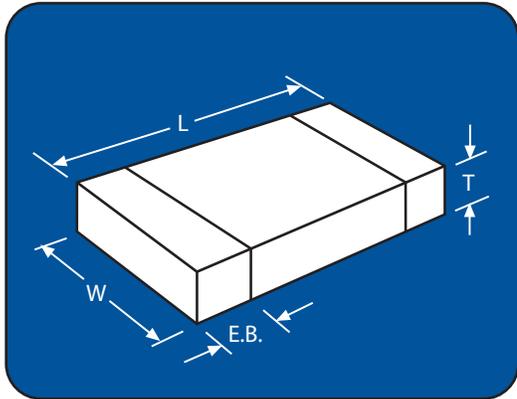


200°C High Voltage Chip Ceramic Capacitors

500VDC - 5000VDC



General Specifications

	X7R	NPO
Capacitance Range	100pf-1.0µF (+25° C, 1.0Vrms, 1KHz)	100pf-0.27µF (+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	
Termination Type	Palladium Silver	

Style and Size Information (All dimensions are in inches)

STYLE	LENGTH(L)	WIDTH(W)	MAX THICKNESS(T)	MAX ELECTRODE BAND (E.B.)
1515	.150+/-0.015	.150+/-0.015	.150	.020
1812	.180+/-0.015	.120+/-0.015	.150	.020
2520	.250+/-0.025	.200+/-0.020	.150	.020
3530	.350+/-0.030	.300+/-0.030	.150	.030
4540	.450+/-0.030	.400+/-0.030	.150	.030
5550	.550+/-0.030	.500+/-0.030	.150	.030
6560	.650+/-0.030	.600+/-0.030	.150	.030
8580	.850+/-0.030	.800+/-0.030	.150	.030

X7R MAXIMUM CAPACITANCE

STYLE	MIN	500V MAX	1000V MAX	2000V MAX	3000V MAX	4000V MAX	5000V MAX
1515	100 pf	.01 µF	2200 pf				
1812	100 pf	.012 µF	2700 pf	470 pf			
2520	100 pf	.033 µF	.01 µF	2700 pf			
3530	100 pf	.15 µF	.033 µF	8200 pf	3300 pf		
4540	560 pf	.22 µF	.056 µF	.015 µF	6800 pf	3300 pf	
5550	1000 pf	.39 µF	.1 µF	.022 µF	.01 µF	5600 pf	3300 pf
6560	1800 pf	.56 µF	.15 µF	.033 µF	.015 µF	8200 pf	5600 pf
8580	2200 pf	1.0 µF	.27 µF	.068 µF	.027 µF	.015 µF	.01 µF

NPO MAXIMUM CAPACITANCE

STYLE	MIN	500V MAX	1000V MAX	2000V MAX	3000V MAX	4000V MAX	5000V MAX
1515	100 pf	3900 pf	820 pf				
1812	100 pf	4700 pf	1000 pf	470 pf			
2520	100 pf	.01 µF	3300 pf	1000 pf			
3530	100 pf	.033 µF	.01 µF	4700 pf	2200 pf		
4540	560 pf	.068 µF	.018 µF	8200 pf	3900 pf	1800 pf	
5550	1000 pf	.1 µF	.027 µF	.012 µF	8200 pf	2700 pf	2200 pf
6560	1800 pf	.15 µF	.047 µF	.022 µF	.012 µF	4700 pf	3300 pf
8580	2200 pf	.27 µF	.068 µF	.033 µF	.018 µF	.01 µF	6800 pf

(Custom sizes and values available, contact factory)

How To Order

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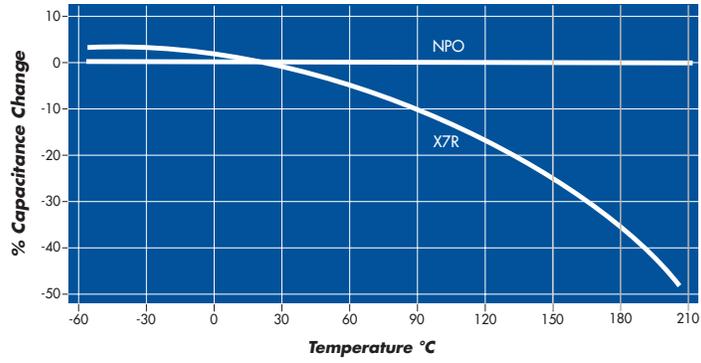
CIRCUIT FUNCTIONS, Inc.

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

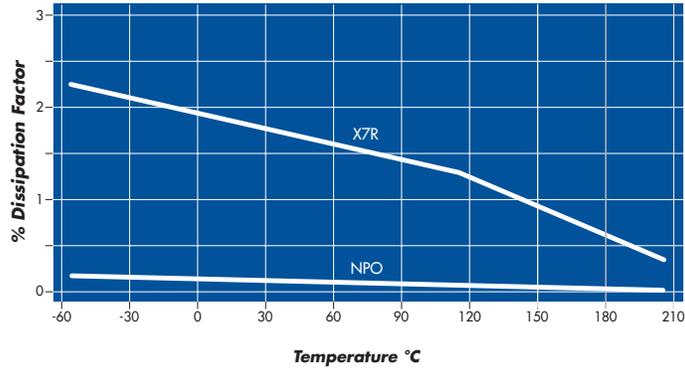
www.circuitfunctions.com

Data Sheet Rev A

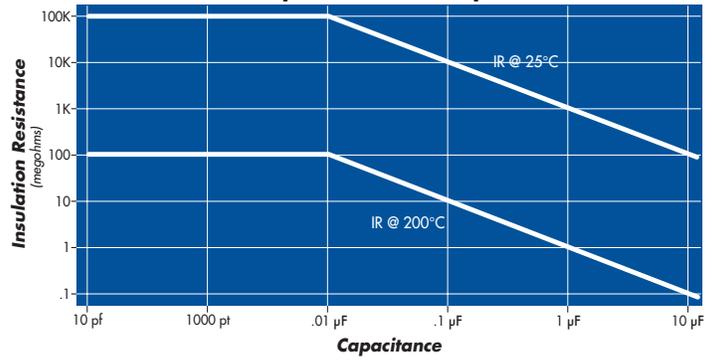
Temperature Coefficient of Capacitance



Typical Dissipation Factor vs. Temperature



Minimum Insulation Resistance vs. Temperature and Capacitance



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

