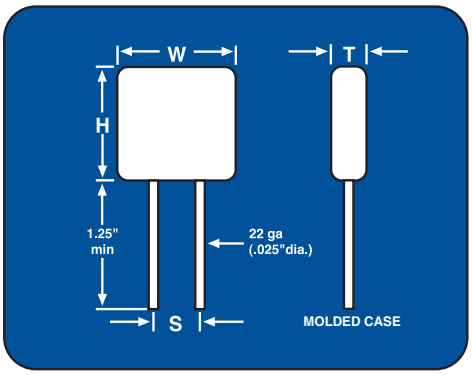
200˚C Leaded Ceramic Capacitors

25VDC - 200VDC



General Specifications

	X7R	NPO
Capacitance Range	10pf-3.9µF (+25° C, 1.0Vrms, 1Khz)	10pf-.15µF(+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	25 to 200 Vdc @ 200˚ C	
Dielectric Withstanding Voltage	2.5x 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
11	.200	.200	.100	.200
12	.300	.300	.100	.200
13	.500	.500	.150	.400
16	.650	.600	.150	.600

X7R MAXIMUM CAPACITANCE

STYLE	MIN	25V MAX	50V MAX	100V MAX	200V MAX
11	10 pf	.1 µF	.068 µF	.047 µF	.012 µF
12	1000 pf	.47 µF	.33 µF	.22 µF	.068 µF
13	.01 µF	2.2 µF	1.8 µF	1.5 µF	.47 µF
16	.01 µF	3.9 µF	3.3 µF	2.7 µF	.82 µF

NPO MAXIMUM CAPACITANCE

STYLE	MIN	25V MAX	50V MAX	100V MAX	200V MAX
11	10 pf	3900 pf	2700 pf	1800 pf	820 pf
12	1000 pf	.027 µF	.015 µF	.01 µF	3300 pf
13	.01 µF	.1 µF	.068 µF	.056 µF	.022 µF
16	.01 µF	.15 µF	.12 µF	.1 µF	.047 µF

(Custom sizes and values available, contact factory)

How To Order

50 — *Voltage*
25 = 25V
50 = 50V
100 = 100V
200 = 200V

L — *Configuration*
L = Leaded

12 — *Style*

B — *Dielectric Type*
B = X7R
A = NPO

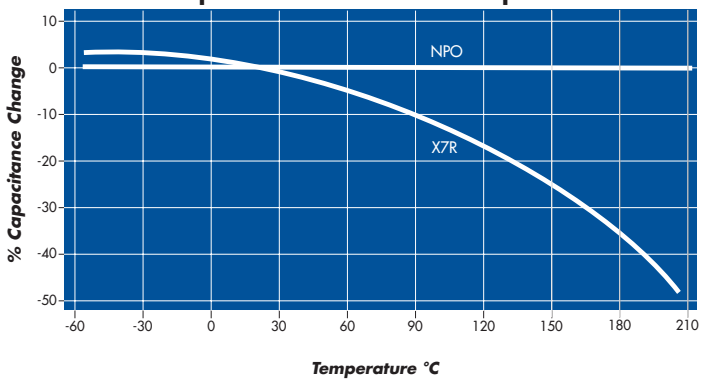
103 — *Capacitance Value*
Capacitance In Picofarads
Last Digit is the Number of Zeros
ie, 103 = 10,000 pf

K — *Tolerance*
F = ± 1%
G = ± 2%
J = ± 5%
K = ± 10%
M = ± 20%
Z = + 80/- 20%
P = GMV

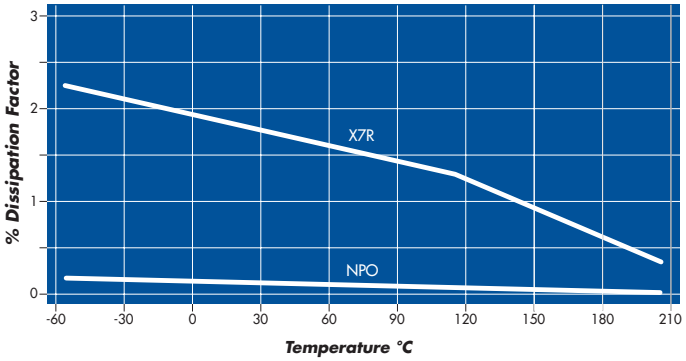
HT — *Temperature Rating*
HT = 200˚ C

CIRCUIT FUNCTIONS, Inc.
2282 Mouton Drive • Carson City, Nevada 89706 • (775) 885-8003 • Fax (775) 885-9943
www.circuitfunctions.com

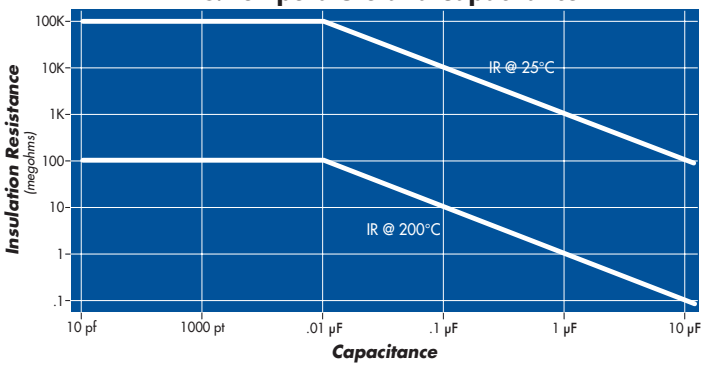
Temperature Coefficient of Capacitance



Typical Dissipation Factor vs. Temperature



Minimum Insulation Resistance vs. Temperature and Capacitance



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