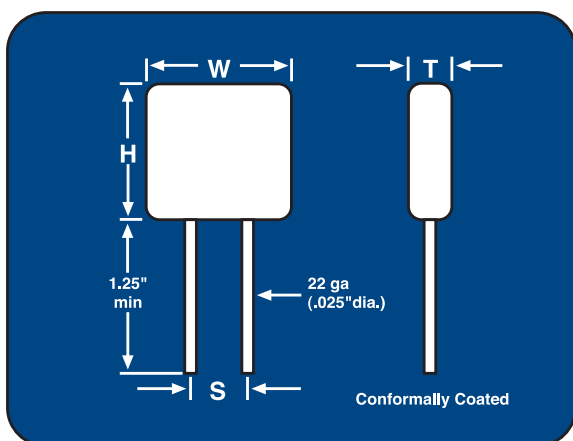


X7R High Voltage Leaded Ceramic Capacitors

500VDC - 10000VDC



General Specifications X7R

Capacitance Range	100pf-2.2µF (+25° C, 1.0Vrms, 1Khz)
Capacitance Tolerance	+/- 5,10,20%, +80/-20%
Temperature Coefficient	+/- 15% from -55° C to 125° C 2.5% max.
Dissipation Factor	(+25° C, 1.0Vrms, 1Khz)
Voltage Ratings	500 to 10,000 Vdc
Dielectric Withstanding Voltage	1.2x rated voltage (100mA max.)
Insulation Resistance (min.)	100K megohms or 1K megohms-mfd at 25° C, whichever is less 10000 megohms or 100 megohms-mfd at 125° C, whichever is less
Termination Type	Solder Coated Copper Clad Steel

Notes: 1) Conformally Coated 2) Designed to meet individual H.V. DSCC Drawings 87043, 87040, 87047, 89044, 87070 and 87081

Style and Size Information (All dimensions are in inches)

STYLE	MAX WIDTH(W)	MAX HEIGHT(H)	MAX THICKNESS(T)	LEAD SPACING(S) +/- .030
2522	.250	.220	.170	.170
3228	.320	.280	.220	.220
3730	.370	.300	.250	.275
4740	.470	.400	.270	.375
5750	.570	.500	.270	.475
6760	.670	.600	.270	.575
7772	.770	.720	.270	.675
12560	1.250	.600	.270	1.100
14572	1.450	.720	.270	1.300

X7R MAXIMUM CAPACITANCE

STYLE	MIN	500V MAX	1000V MAX	2000V MAX	3000V MAX	4000V MAX	5000V MAX	10000V MAX
2522	100 pf	.039 µF	.01 µF	1800 pf				
3228	100 pf	.1 µF	.033 µF	8200 pf	3300 pf			
3730	100 pf	.12 µF	.047 µF	.012 µF	4700 pf			
4740	100 pf	.56 µF	.15 µF	.033 µF	.015 µF	6800 pf		
5750	100 pf	1.0 µF	.27 µF	.068 µF	.027 µF	.01 µF	6800 pf	
6760	560 pf	1.5 µF	.47 µF	.1 µF	.039 µF	.018 µF	.012 µF	
7772	1000 pf	2.2 µF	.68 µF	.18 µF	.068 µF	.027 µF	.018 µF	
12560	1000 pf			.22 µF	.082 mf	.047 µF	.022 µF	6800 pf
14572	1500 pf			.33 µF	.12 µF	.068 µF	.039 µF	.01 µF

(Custom sizes and values available, contact factory)

How To Order

202

Voltage
501 = 500
102 = 1000
202 = 2000
302 = 3000
402 = 4000
502 = 5000
103 = 10000

L

Configuration
L = Leaded

4740

Style

B

Dielectric Type
B = X7R

103

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

K

Tolerance
J = ± 5%
K = ± 10%
M = ± 20%
Z = + 80/- 20% (subgroup 1, P = GMV)

A

Group A Screening
Add to part number if required, Mil-prf-49467 (subgroup 1, except corona)

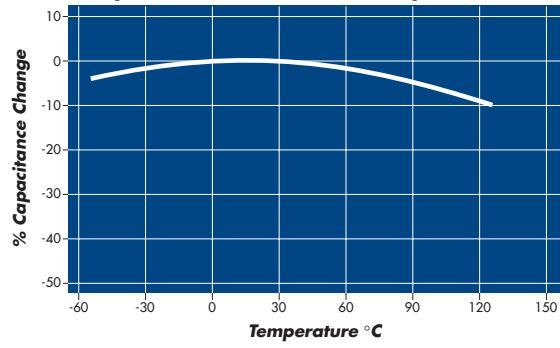
CIRCUIT FUNCTIONS, Inc.

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

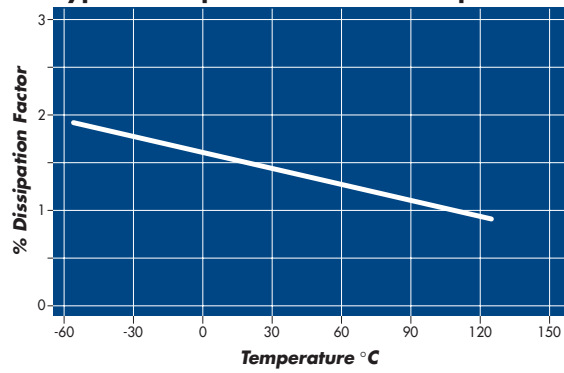
www.circuitfunctions.com

Data Sheet Rev A

Temperature Coefficient of Capacitance



Typical Dissipation Factor vs. Temperature



Minimum Insulation Resistance vs. Temperature and Capacitance

