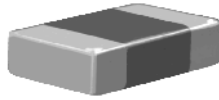




Multilayer Ceramic Chip Capacitors



FEATURES

- High voltage ratings
- Low ESR designs
- Ideal for surge suppression and high voltage applications

RoHS
COMPLIANT

GENERAL SPECIFICATIONS

NOTE: Electrical characteristics at + 25 °C unless otherwise specified

Capacitance Range: 330 pF to 1.8 μ F

Temperature Coefficient of Capacitance (TCC):
 ± 15 % from - 55 °C to + 125 °C

Dissipation Factor (DF):
2.5 % maximum at 1.0 Vrms and 1 kHz

Aging Rate:
1 % maximum per decade

Insulation Resistance (IR):

At + 25 °C and rated voltage 100 000 M Ω minimum or 1000 Ω F, whichever is less
At + 125 °C and rated voltage 10 000 M Ω minimum or 100 Ω F, whichever is less

Dielectric Withstanding Voltage (DWV):

This is the maximum voltage the capacitors are tested for a 1 to 5 second period and the charge/discharge current does not exceed 50 mA

≤ 200 V DC: DWV at 250 % rated voltage
500 V DC: DWV at 200 % rated voltage
630 V DC: DWV at 150 % rated voltage
1000 V DC: DWV at 150 % rated voltage

ORDERING INFORMATION

VJ1812	Y	472	K	X	E	A	T	### ³⁾
CASE CODE	DIELECTRIC	CAPACITANCE NOMINAL CODE	CAPACITANCE TOLERANCE	TERMINATION	DC VOLTAGE RATING ¹⁾	MARKING	PACKAGING	PROCESS CODE
0603 0805 1206 1210 1808 1812 1825 2220 2225 3640	Y = X7R	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. Examples: 472 = 4700 pF	J = ± 5 % K = ± 10 % M = ± 20 %	X = Ni barrier 100 % tinplated F = AgPd	C = 200 V E = 500 V L = 630 V G = 1000 V	A = Unmarked M = Marked	T = 7" reel/plastic tape C = 7" reel/paper tape R = 11 1/4" reel/plastic tape P = 11 1/4" reel/paper tape O = 7" reel/flamed paper tape I = 11 1/4"/13" reel/flamed paper tape NOTE: "I" and "O" is used for "F" termination	

Note

1. DC voltage rating should not be exceeded in application

3. Process Code may be added with up to three digits, used to control non-standard products and/or special requirements

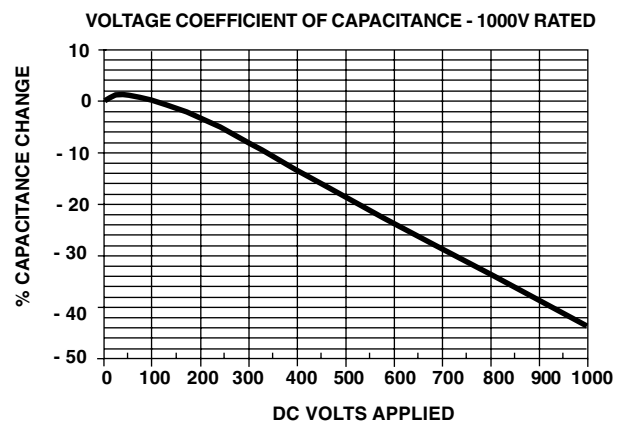
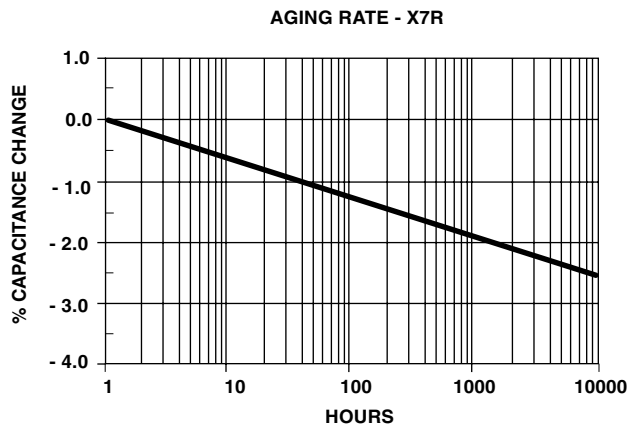
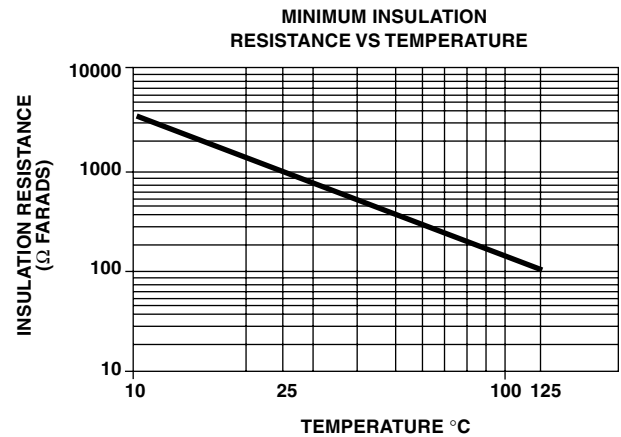
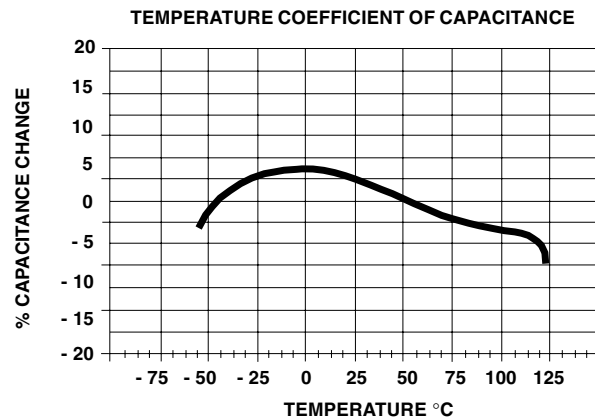
X7R DIELECTRIC - HIGH VOLTAGE																											
STYLE		VJ0603		VJ0805		VJ1206			VJ1210 ¹⁾		VJ1808 ¹⁾			VJ1812 ¹⁾			VJ1825 ¹⁾			VJ2220 ¹⁾		VJ2225 ¹⁾			VJ3640 ¹⁾		
EIA TYPE		0603		0805		1206			1210		—			1812			1825			-		-			-		
VOLTAGE (Vdc)		200	-	200	-	200	500	630	200	500	200	500	1000	200	500	1000	200	500	1000	200	500	200	500	1000	200	500	
CAP. CODE	CAP.																										
121	120 pF																										
151	150 pF																										
181	180 pF																										
221	220 pF																										
271	270 pF																										
331	330 pF																										
391	390 pF																										
471	470 pF																										
561	560 pF																										
681	680 pF																										
821	820 pF																										
102	1000 pF																										
122	1200 pF																										
152	1500 pF																										
182	1800 pF																										
222	2200 pF																										
272	2700 pF																										
332	3300 pF																										
392	3900 pF																										
472	4700 pF																										
562	5600 pF																										
682	6800 pF																										
822	8200 pF																										
103	0.010 µF																										
123	0.012 µF																										
153	0.015 µF																										
183	0.018 µF																										
223	0.022 µF																										
273	0.027 µF																										
333	0.033 µF																										
393	0.039 µF																										
473	0.047 µF																										
563	0.056 µF																										
683	0.068 µF																										
823	0.082 µF																										
104	0.10 µF																										
124	0.12 µF																										
154	0.15 µF																										
184	0.18 µF																										
224	0.22 µF																										
274	0.27 µF																										
334	0.33 µF																										
394	0.39 µF																										
474	0.47 µF																										
564	0.56 µF																										
684	0.68 µF																										
824	0.82 µF																										
105	1.0 µF																										
125	1.2 µF																										
155	1.5 µF																										
185	1.8 µF																										

Note

¹ See soldering recommendations within this data book, or visit www.vishay.com/doc?45034



X7R DIELECTRIC - HIGH VOLTAGE - TYPICAL PARAMETERS





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