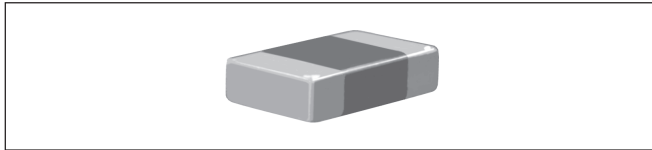


Multilayer Ceramic Chip Capacitors



FEATURES

- High operating temperature dielectric, up to + 150°C.
- Ideal for extreme environments.

GENERAL SPECIFICATIONS

NOTE: Electrical characteristics @ + 25°C unless otherwise specified.

Capacitance Range: 470pF to 2.2μF.

Temperature Coefficient of Capacitance (TCC):
± 15% from - 55°C to + 150°C.

Dissipation Factor (DF):

25V ratings: 3.5% maximum @ 1.0 Vrms and 1kHz.

50V ratings: 2.5% maximum @ 1.0 Vrms and 1kHz.

Insulation Resistance (IR):

@ + 25°C and rated voltage 100,000 Megohms minimum or 1000 ohm-farads, whichever is less.

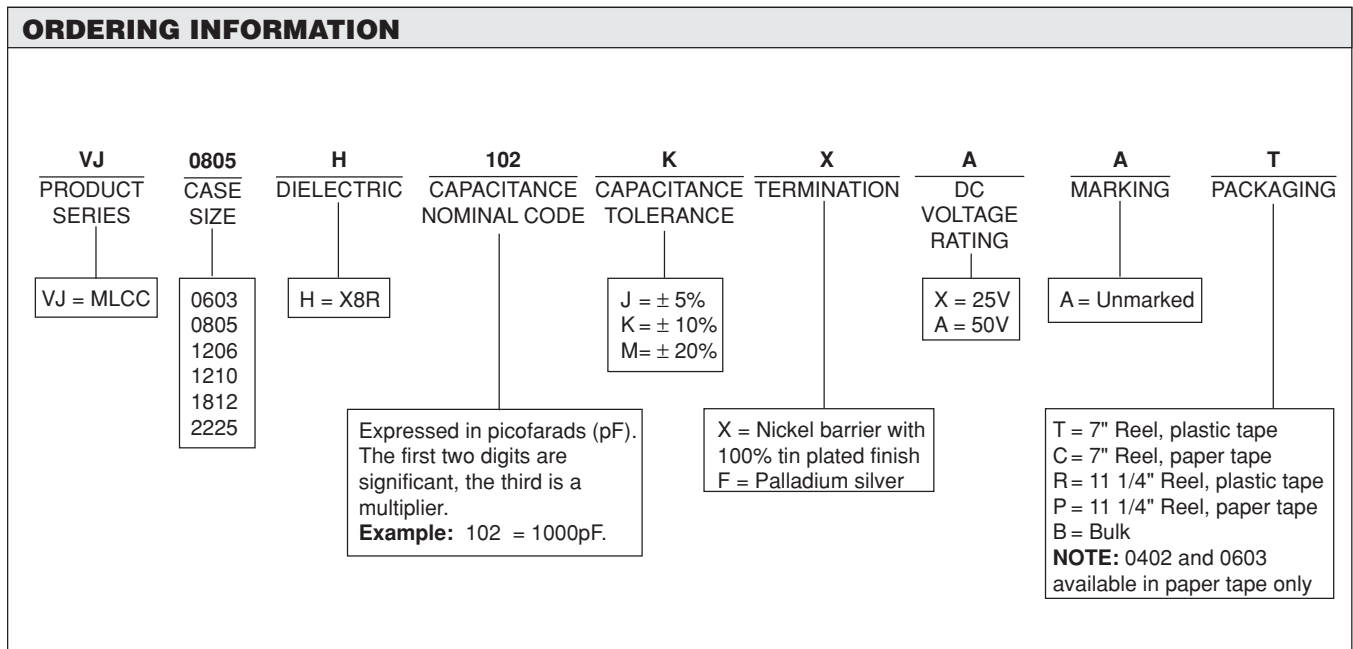
@ + 125°C and rated voltage 10,000 Megohms minimum or 100 ohm-farads, whichever is less.

Dielectric Withstanding Voltage (DWV):

250% of rated voltage for 5 ± 1 seconds, 50 milliamps current maximum.

Aging Rate: 1% maximum per decade.

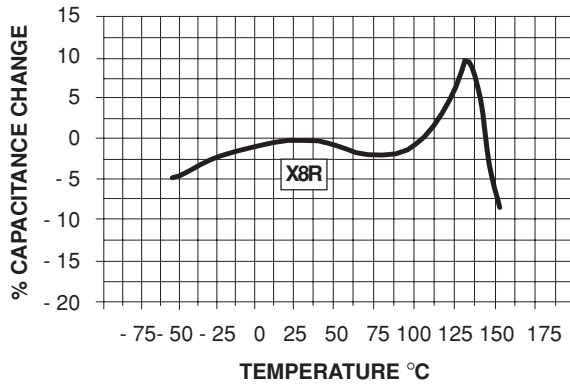
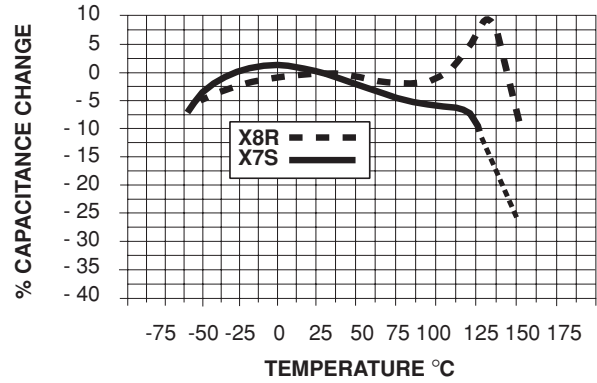
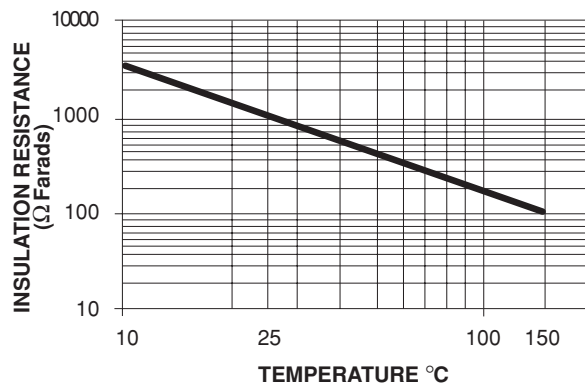
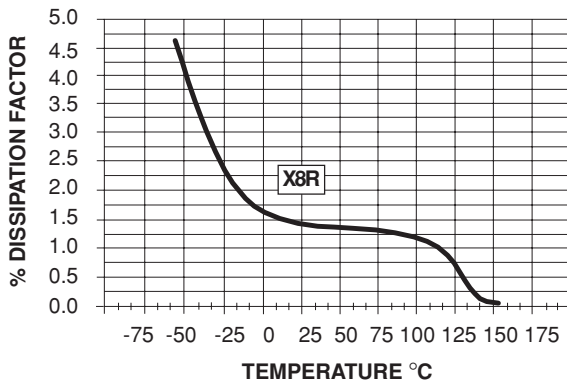
ORDERING INFORMATION





X8R DIELECTRIC													
STYLE		VJ0603		VJ0805		VJ1206		VJ1210		VJ1812*		VJ2225*	
E.I.A. TYPE		0603		0805		1206		1210		1812		2225	
VOLTAGE (Vdc)		25	50	25	50	25	50	25	50	25	50	25	50
Cap. Code	Capacitance												
101	100pF												
121	120pF												
151	150pF												
181	180pF												
221	220pF												
271	270pF												
331	330pF												
391	390pF												
471	470pF												
561	560pF												
681	680pF												
821	820pF												
102	1000pF												
122	1200pF												
152	1500pF												
182	1800pF												
222	2200pF												
272	2700pF												
332	3300pF												
392	3900pF												
472	4700pF												
562	5600pF												
682	6800pF												
822	8200pF												
103	.010μF												
123	.012μF												
153	.015μF												
183	.018μF												
223	.022μF												
273	.027μF												
333	.033μF												
393	.039μF												
473	.047μF												
563	.056μF												
683	.068μF												
823	.082μF												
104	.10μF												
124	.12μF												
154	.15μF												
184	.18μF												
224	.22μF												
274	.27μF												
334	.33μF												
394	.39μF												
474	.47μF												
564	.56μF												
684	.68μF												
824	.82μF												
105	1.0μF												
125	1.2μF												
155	1.5μF												
185	1.8μF												
225	2.2μF												

*See page 61 for soldering recommendations.

X8R DIELECTRIC - TYPICAL PARAMETERS
TEMPERATURE COEFFICIENT OF CAPACITANCE

TEMPERATURE COEFFICIENT OF CAPACITANCE X8R vs X7S

MINIMUM INSULATION RESISTANCE vs TEMPERATURE

DISSIPATION FACTOR vs TEMPERATURE

AGING RATE
