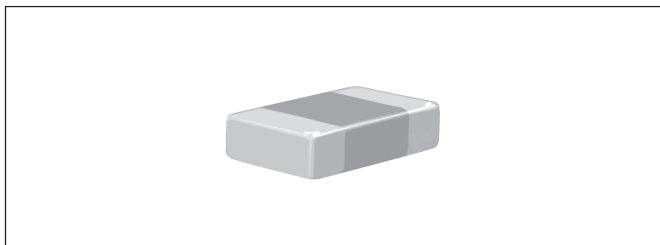


Film Replacement Capacitors



FEATURES

- An alternative to film capacitors for use in high frequency filtering in automotive audio, equalizer and crossover network applications
- Characteristics similar to film capacitors with the reliability of ceramics
- Available in 0603 to 1812 case sizes

GENERAL SPECIFICATIONS

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

Capacitance Range: 470pF to 0.47μF

Temperature Coefficient of Capacitance (TCC):

± 4.7% from - 30 to + 85°C

Dissipation Factor (DF):

3.5% maximum @ 1.0Vrms and 1KHz

Insulation Resistance:

@ + 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 ± 1 second, 50 milliamps current maximum.

Aging Rate: 1% maximum per decade

ORDERING INFORMATION

VJ	1206	F	104	J	X	X	A	T
PRODUCT SERIES	CASE SIZE	DIELECTRIC	CAPACITANCE NOMINAL CODE	CAPACITANCE TOLERANCE	TERMINATION	VOLTAGE	MARKING OPTIONS	PACKAGING OPTIONS
MLCC	0603 0805 1206 1210 1812	F = Y5E	Expressed in picofarads (pF). The first two digits are significant figures. The last digit is the number of zeros to follow. Example: 104 = 100,000pF	J = ± 5% K = ± 10% M = ± 20%	X = Nickel Barrier Tin plated finish	X = 25V	A = No Marking	T = 7" Reel, Plastic tape C = 7" Reel, Paper tape R = 11 1/4" Reel, Plastic tape P = 11 1/4" Reel, Paper tape B = Bulk NOTE: 0402 and 0603 available in paper tape only

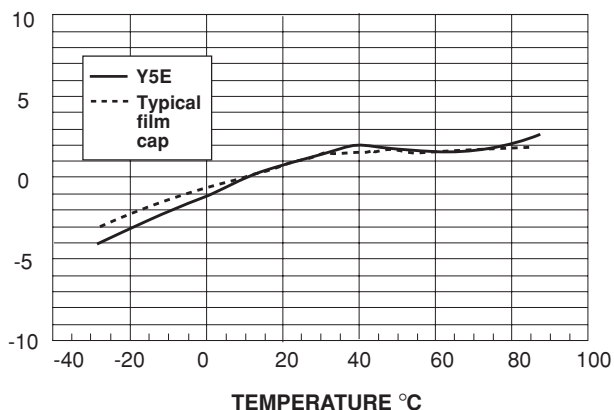


Cer-F (Y5E) DIELECTRIC						
STYLE		VJ0603	VJ0805	VJ1206	VJ1210	VJ1812*
E.I.A. TYPE		0603	0805	1206	1210	1812
VOLTAGE (Vdc)		25	25	25	25	25
Cap. Code	Capacitance					
101	100pF					
121	120pF					
151	150pF					
181	180pF					
221	220pF					
271	270pF					
331	330pF					
391	390pF					
471	470pF					
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					

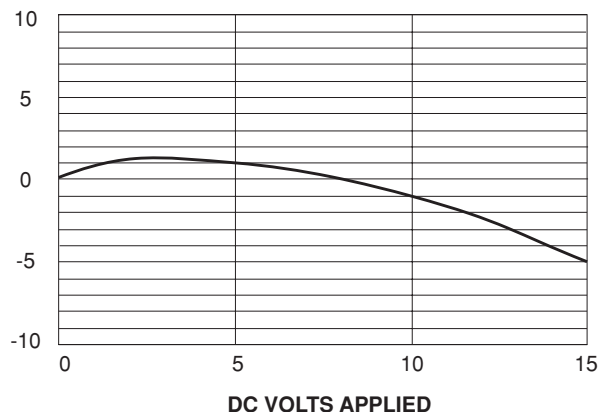
*See page 63 for soldering recommendations.

Cer-F (Y5E) DIELECTRIC - TYPICAL PARAMETERS

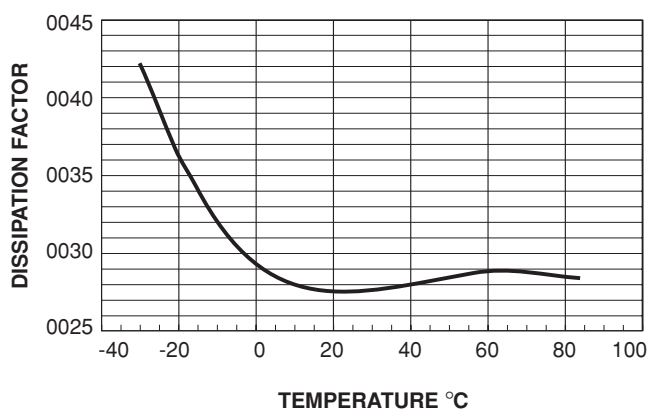
TEMPERATURE COEFFICIENT FILM
vs VITRAMON'S Y5E



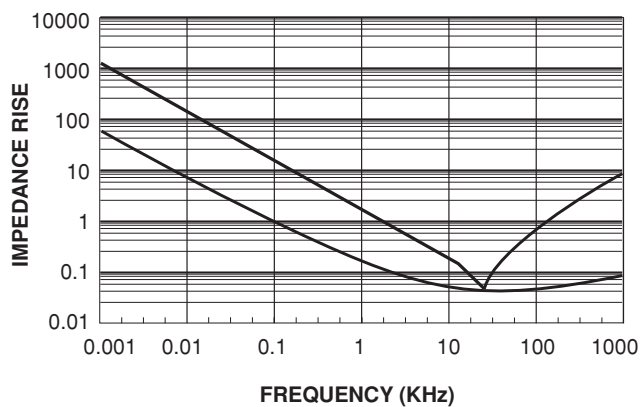
TYPICAL VOLTAGE COEFFICIENT



DISSIPATION FACTOR vs TEMPERATURE



TYPICAL IMPEDANCE VJ1206F104JXX



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Datasheets for electronics components.