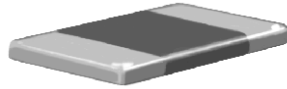


Surface Mount Multilayer Ceramic Chip Capacitors for Low Profile Applications



FEATURES

- Ideal for "low headroom" (i.e. under IC) applications
- VTOP product available in 0.022" [0.56 mm] and 0.026" [0.66 mm] maximum thickness.
- Surface mount, precious metal technology, wet build process



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Note: Electrical characteristics at + 25 °C unless otherwise specified.

Capacitance Range: 470 pF to 0.33 μ F

Voltage Range: 25 Vdc to 50 Vdc

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

Dissipation Factor (DF):

25 V ratings: 3.5 % maximum at 1.0 V_{rms} and 1 kHz
50 V ratings: 2.5 % maximum at 1.0 V_{rms} and 1 kHz

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

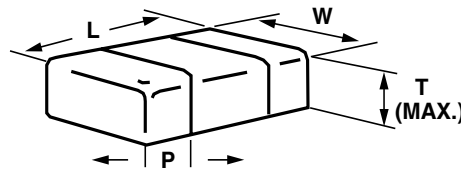
Dielectric Withstanding Voltage (DWV):

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

≤ 50 Vdc: DWV at 250 % of rated voltage

Aging Rate: 1 % maximum per decade

DIMENSIONS in inches [millimeters]



CASE SIZE	STYLE/ DIELECTRIC	LENGTH (L)	WIDTH (W)	MAXIMUM THICKNESS (T)	TERMINATION (P)	
					MINIMUM	MAXIMUM
0603	VJ9522 VJ9526	0.063 $\pm$ 0.005 [1.60 $\pm$ 0.12]	0.031 $\pm$ 0.005 [0.80 $\pm$ 0.12]	0.022 [0.56] 0.026 [0.66]	0.012 [0.30]	0.018 [0.46]
0805	VJ9622 VJ9626	0.079 $\pm$ 0.008 [2.00 $\pm$ 0.20]	0.049 $\pm$ 0.008 [1.25 $\pm$ 0.20]	0.022 [0.56] 0.026 [0.66]	0.010 [0.25]	0.028 [0.71]
1206	VJ9722 VJ9726	0.126 $\pm$ 0.008 [3.20 $\pm$ 0.20]	0.063 $\pm$ 0.008 [1.60 $\pm$ 0.20]	0.022 [0.56] 0.026 [0.66]	0.010 [0.25]	0.028 [0.71]
1210	VJ9922 VJ9926	0.126 $\pm$ 0.008 [3.20 $\pm$ 0.20]	0.098 $\pm$ 0.008 [2.50 $\pm$ 0.20]	0.022 [0.56] 0.026 [0.66]	0.010 [0.25]	0.028 [0.71]

ORDERING INFORMATION

VJ9626	Y	102	K	X	A	A	T
CASE CODE	DIELECTRIC	CAPACITANCE NOMINAL CODE	CAPACITANCE TOLERANCE	TERMINATION	DC VOLTAGE RATING ⁽¹⁾	MARKING	PACKAGING
9522 9526 9622 9626 9722 9726 9922 9926	Y = X7R	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. Example: 102 = 1000 pF	J = ± 5 % K = ± 10 % M = ± 20 %	X = Ni barrier 100 % tin plated	X = 25 V A = 50 V	A = Unmarked	T = 7" reel/plastic tape C = 7" reel/paper tape R = 11 1/4" reel/plastic tape P = 11 1/4" reel/paper tape

Vishay Vitramon Surface Mount Multilayer Ceramic Chip Capacitors for Low Profile Applications

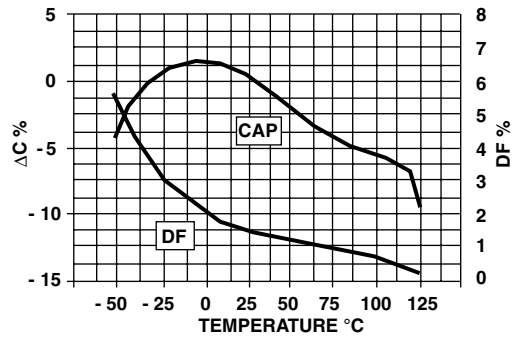
SELECTION CHART																	
STYLE		VJ9522		VJ9526		VJ9622		VJ9626		VJ9722		VJ9726		VJ9922		VJ9926	
EIA TYPE		0603				0805				1206				1210			
VOLTAGE (Vdc)		25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50
CAP. CODE	CAP.																
471	470 pF	•	•	•	•	•	•	•	•								
561	560 pF	•	•	•	•	•	•	•	•								
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	•		•		•	•	•	•	•	•	•	•	•	•	•	•
203	0.020 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																



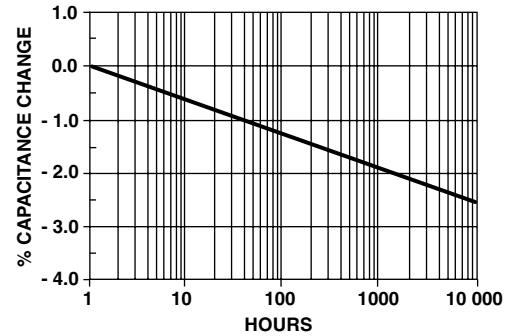
Surface Mount Multilayer Ceramic Chip Capacitors Vishay Vitramon
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SELECTION CHART

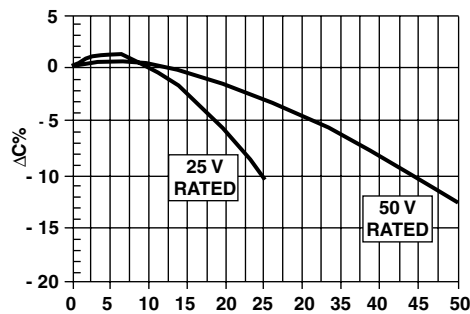
CAPACITANCE AND DISSIPATION FACTOR
VS. TEMPERATURE



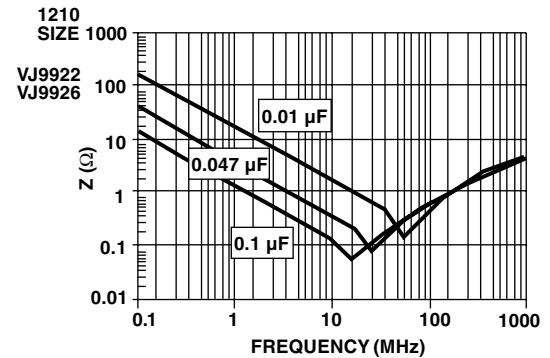
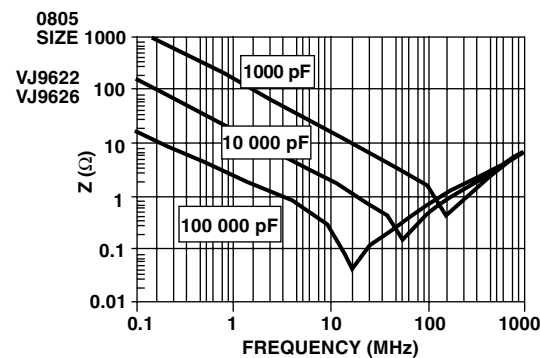
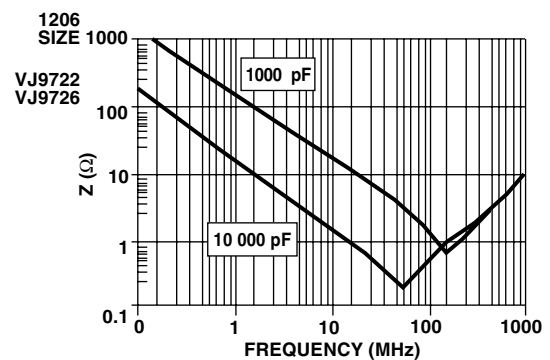
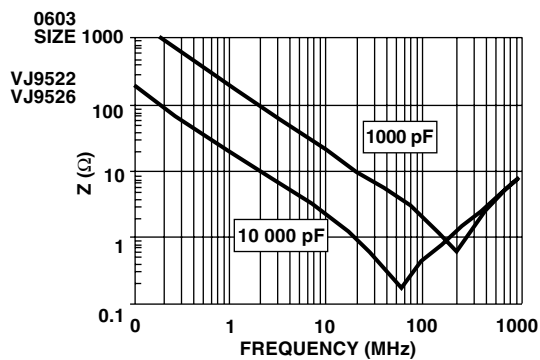
AGING RATE



VOLTAGE COEFFICIENT OF CAPACITANCE



IMPEDANCE VS. FREQUENCY





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