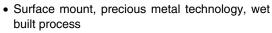
Vishay Vitramon

Surface Mount Multilayer Ceramic Chip Capacitors for Low Inductance

_VISHAY₀







- Low inductance, typically half the inductance of standard product
- Reduces AC noise in multi-chip modules (MCM)
- · Low profile, robust device for easy mounting

ELECTRICAL SPECIFICATIONS

Note: Electrical characteristics at + 25 °C unless otherwise

specified.

Operating Temperature: - 55 °C to + 125 °C Capacitance Range: 220 pF to 0.33 μF

Voltage Rating: 250 Vdc

Temperature Coefficient of Capacitance (TCC): ± 15 % from - 55 °C to + 125 °C, with 0 Vdc applied

Dissipation Factor (DF):

 \leq 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

Aging Rate: 1 % maximum per decade

Insulation Resistance (IR):

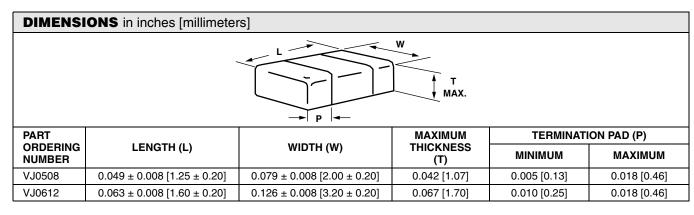
At + 25 °C and rated voltage 100 000 M Ω minimum or 1000 $\Omega F,$ whichever is less

At + 125 °C and rated voltage 10 000 M Ω minimum or 100 $\Omega F,$ 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.



ORDERING INFORMATION													
VJ0612 CASE CODE	Y DIELECTRIC	104 CAPACITANCE NOMINAL CODE	K CAPACITANCE TOLERANCE	X TERMINATION	A DC VOLTAGE RATING ⁽¹⁾	A MARKING L	T PACKAGING	### (2) PROCESS CODE					
0508 0612	Y = X7R	Expressed in picofarads (pF). The first two digits are significant, the	$J = \pm 5 \%$ $K = \pm 10 \%$ $M = \pm 20 \%$	X = Ni barrier 100 % tin plated F = AgPd	Q = 10 V J = 16 V X = 25 V A = 50 V	A = Unmarked							
		third is a multiplier. Example: 104 = 100 000 pF				PU T = 7	11 1/4" reel/plastic tape PU = 10 000 pieces = 7" reel/plastic tape PU = 3000 pieces						

Notes:

(1) DC voltage rating should not be exceeded in application

(2) Process code may be added with three digits, used to control non-standard products and/or special requirements



Not for New Designs Product Discontinuation

VJ0508/VJ0612

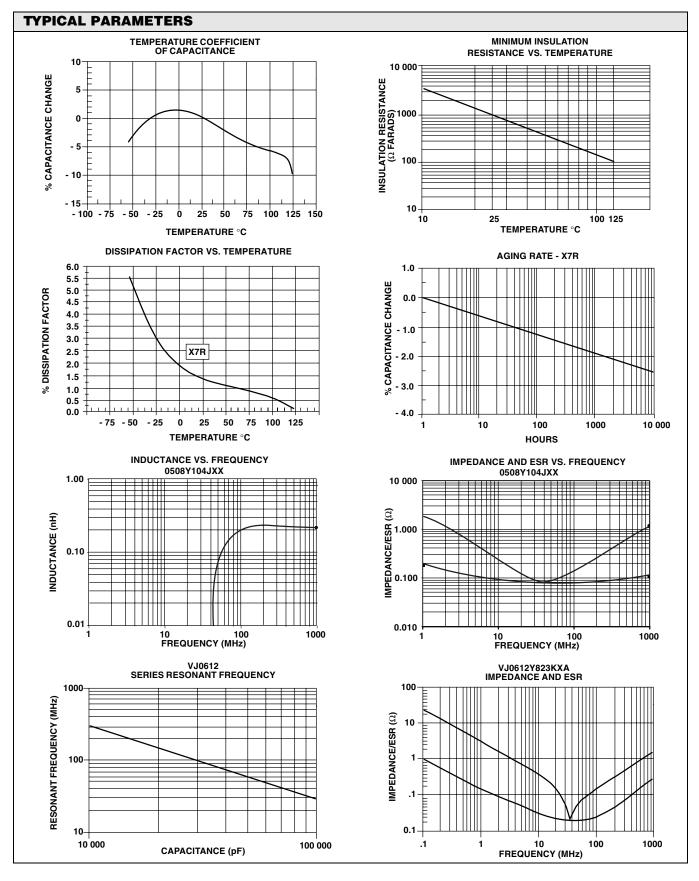
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SELECTION CHART												
ST	YLE		V 10500			V 10610						
EIA TYPE VOLTAGE (Vdc)			VJ0508		VJ0612							
		10	16	25	16	25	50					
CAP. CODE	CAP.											
221	220 pF	•	•	•								
271	270 pF	•	•	•								
331	330 pF	•	•	•								
391	390 pF	•	•	•								
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		 		•	•						



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Document Number: 45010



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