



Multilayer Ceramic Chip Capacitors



FEATURES

 C0G is an ultra-stable dielectric offering a Temperature Coefficient of Capacitance (TCC) of 0 ± 30ppm/ °C.



- · Low Dissipation Factor (DF).
- · Ideal for critical timing and tuning applications.

GENERAL SPECIFICATIONS

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

Capacitance Range: 1.0 pF to 0.056 µF.

Temperature Coefficient of Capacitance (TCC):

 0 ± 30 ppm/°C from - 55 °C to + 125 °C.

Dissipation Factor (DF):

0.1 % maximum at 1.0 Vrms and 1 kHz for values > 1000 pF. 0.1 % maximum at 1.0 Vrms and 1 MHz for values \leq 1000 pF.

Insulation Resistance (IR):

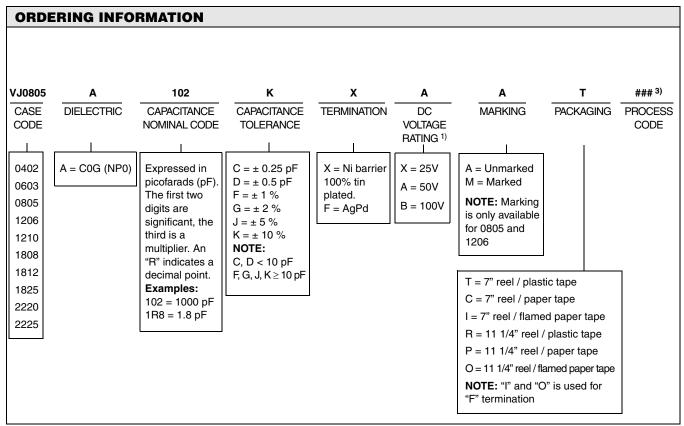
At + 25 °C and rated voltage 100,000 M Ω minimum or 1000 Ω F, whichever is less.

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 50mA

≤ 100V DC : DWV at 250 % of rated voltage.



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

Vishay Vitramon

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COG (NPO) DIELECTRIC STYLE VJ0402 VJ0805 VJ1206 VJ1210 1) VJ1808 1) VJ1812 1) VJ1825 1) VJ2220 1) VJ2225																						
STYLE		VJ0402			VJ0603		VJ0	805	VJ1	206	VJ1210 ¹⁾		VJ1808 ¹⁾		VJ1812 ¹⁾		VJ1825 1)		VJ2220 1)		VJ2225 1)	
EIA TYPE		0402			0603		0805		1206		1210		-		1812		1825		-		-	
VOLTA	GE (Vdc)	25	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
CAP. CODE	CAP.																					
1R0	1.0 pF																					<u> </u>
1R2 1R5	1.2 pF 1.5 pF																					
1R8	1.8 pF																					1
2R2	2.2 pF																					
2R7	2.7 pF																					
3R3	3.3 pF																					-
3R9 4R7	3.9 pF 4.7 pF																					-
5R6	5.6 pF																					
6R8	6.8 pF																					
8R2	8.2 pF																					ļ
100	10 pF																					
120 150	12 pF 15 pF																					
180	18 pF																					
220	22 pF																					
270	27 pF																					
330	33 pF																					<u> </u>
390 470	39 pF 47 pF																					-
560	56 pF																					1
680	68 pF																					
820	82 pF																					
101	100 pF																					-
121 151	120 pF 150 pF																					-
181	180 pF																					1
221	220 pF																					
271	270 pF																					
331	330 pF																					<u> </u>
391 471	390 pF 470 pF																					-
561	560 pF																					
681	680 pF																					
821	820 pF																					
102	1000 pF																					
122 152	1200 pF 1500 pF																					
182	1800 pF																					
222	2200 pF																					
272	2700 pF																					
332	3300 pF																					
392 472	3900 pF 4700 pF																					
562	5600 pF																					
682	6800 pF						_															
822	8200 pF																					
103	0.010 μF																					
123 153	0.012 μF 0.015 μF																					
183	0.015 μF 0.018 μF																					
223	0.022 μF													L								
273	0.027 μF																					
333	0.033 μF																					
393	0.039 μF													-								
473 563	0.047 μF 0.056 μF			-		-		 														

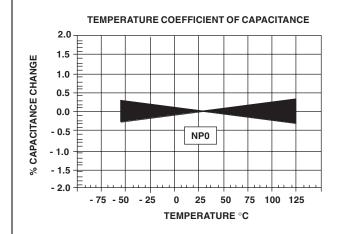
Note

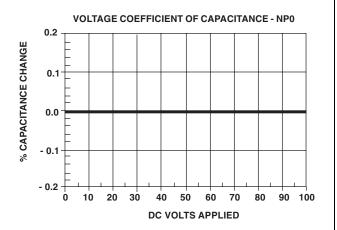
1 See soldering recommendations within this data book, or visit www.vishay.com/doc?45034

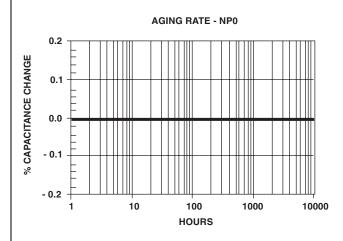


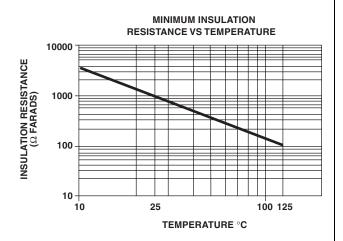
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COG (NPO) DIELECTRIC - TYPICAL PARAMETERS









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