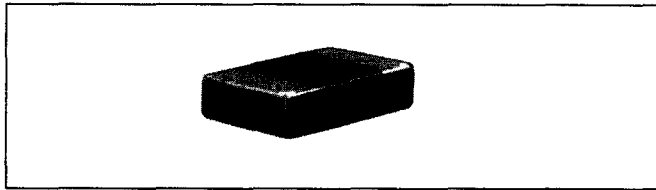




## Multilayer Ceramic Chip Capacitors



### FEATURES

- High voltage ratings.
- Stable C0G dielectric.
- Ideal for snubber and surge suppression applications.

### GENERAL SPECIFICATIONS

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

**Capacitance Range:** 1.0pF to 0.039µF.

**Temperature Coefficient of Capacitance (TCC):**  
0 ± 30PPM/°C from - 55°C to + 125°C.

**Dissipation Factor (DF):**  
0.1% maximum @ 1.0 Vrms and 1kHz for values > 1000pF.  
0.1% maximum @ 1.0 Vrms and 1MHz for values ≤ 1000pF.

### 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.

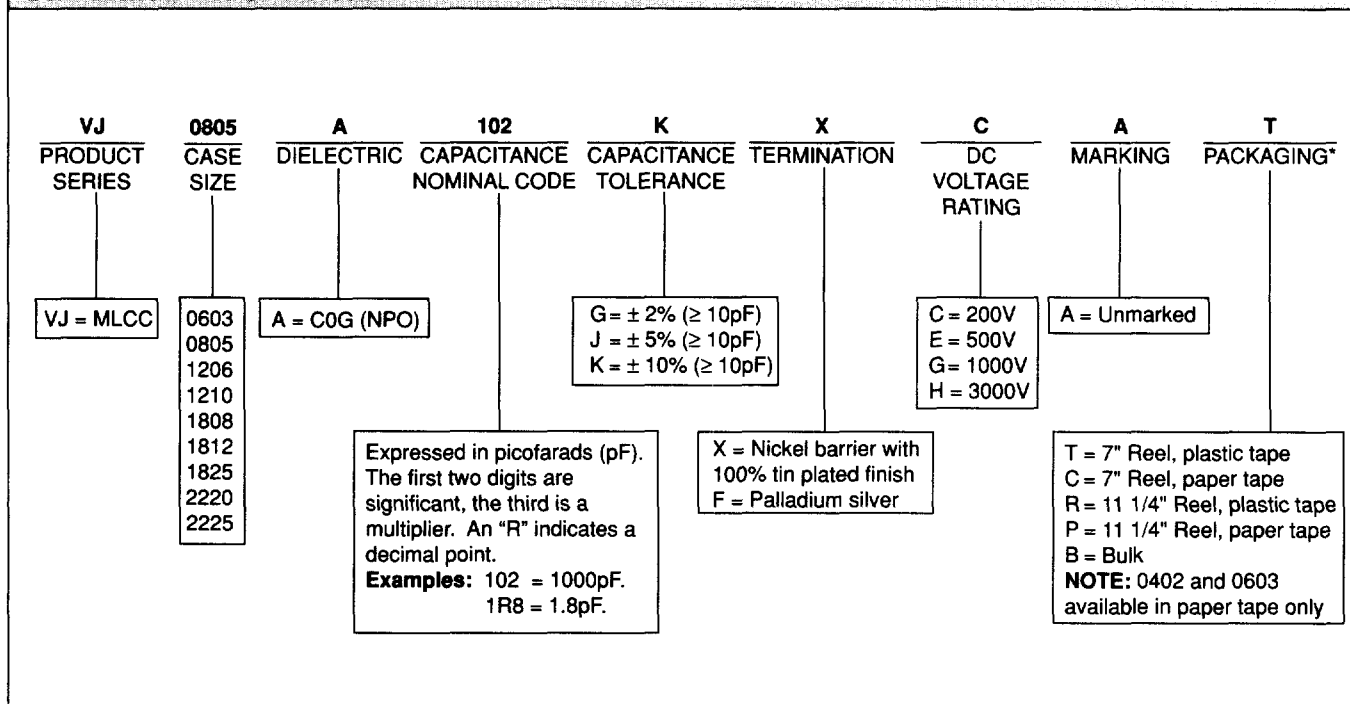
### Dielectric Withstanding Voltage (DWV):

200V : 250% rated voltage for 5 ± 1 seconds, 50 milliamps current maximum.

500V: 200% rated voltage for 5 ± 1 seconds, 50 milliamps current maximum

1000V: 150% rated voltage for 5 ± 1 seconds, 50 milliamps current maximum

### ORDERING INFORMATION



\*See page 57 for cassette case packaged capacitors.



# High Voltage C0G (NPO) Dielectric

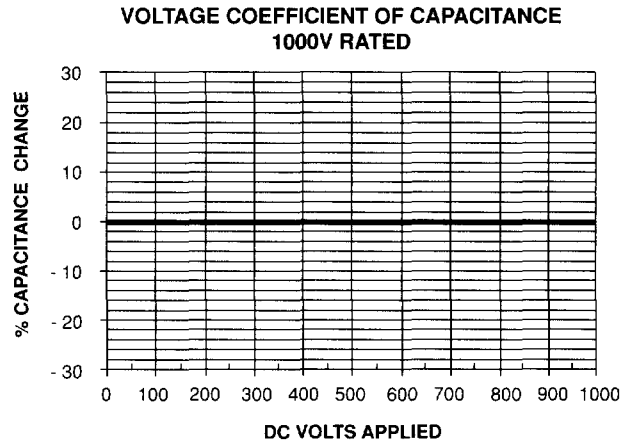
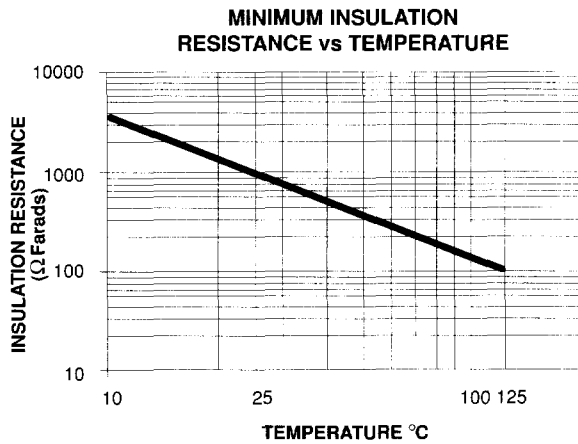
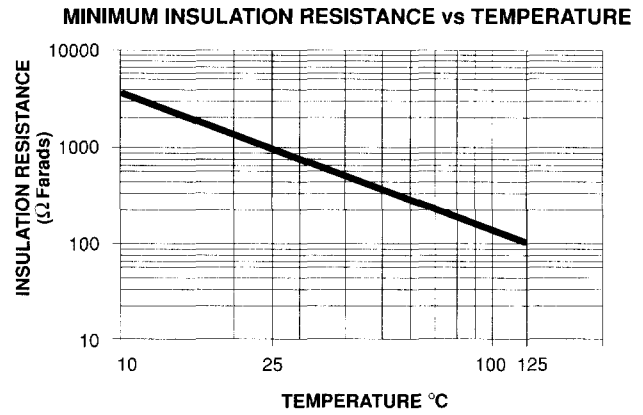
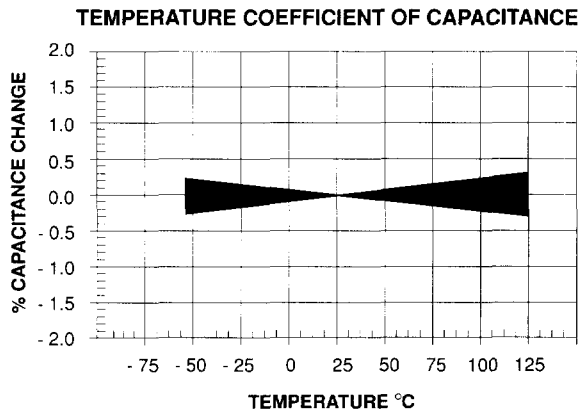
Vishay Vitramon

<b>NPO DIELECTRIC - HIGH VOLTAGE</b>																									
STYLE		VJ0603		VJ0805		VJ1206		VJ1210		VJ1808			VJ1812*				VJ1825*		VJ2220*			VJ2225*			
E.I.A. TYPE		0603		0805		1206		1210		—			1812				1825		—			—			
VOLTAGE (Vdc)		200	—	200	500	200	500	200	500	200	500	1000	200	500	1000	3000	200	500	200	500	1000	200	500		
Capacitance Code	Capacitance																								
		1R0	1.0pF																						
1R2	1.2pF																								
1R5	1.5pF																								
1R8	1.8pF																								
2R2	2.2pF																								
2R7	2.7pF																								
3R3	3.3pF																								
3R9	3.9pF																								
4R7	4.7pF																								
5R6	5.6pF																								
6R8	6.8pF																								
8R2	8.2pF																								
100	10pF																								
120	12pF																								
150	15pF																								
180	18pF																								
220	22pF																								
270	27pF																								
330	33pF																								
390	39pF																								
470	47pF																								
560	56pF																								
680	68pF																								
820	82pF																								
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																								

\*See page 61 for soldering recommendations.



## NPO DIELECTRIC - HIGH VOLTAGE - TYPICAL PARAMETERS



# Mouser Electronics

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