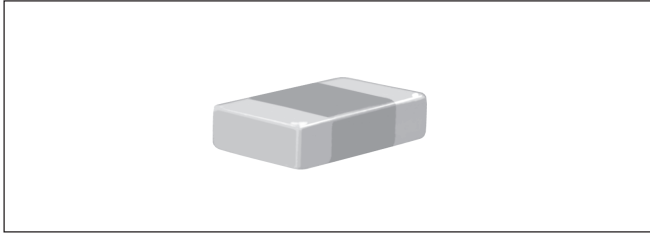


Multilayer Ceramic Chip Capacitors



FEATURES

- COG is an ultra-stable dielectric offering a Temperature Coefficient of Capacitance (TCC) of $0 \pm 30\text{PPM}/^\circ\text{C}$ over the entire temperature range.
- Low Dissipation Factor (DF).
- Ideal for critical timing and tuning applications.

GENERAL SPECIFICATIONS

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

Capacitance Range: 1.0pF to 680pF.

Temperature Coefficient of Capacitance (TCC):
 $0 \pm 30\text{PPM}/^\circ\text{C}$ 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 at 1MHz for values $\leq 1000\text{pF}$.

Insulation Resistance (IR):

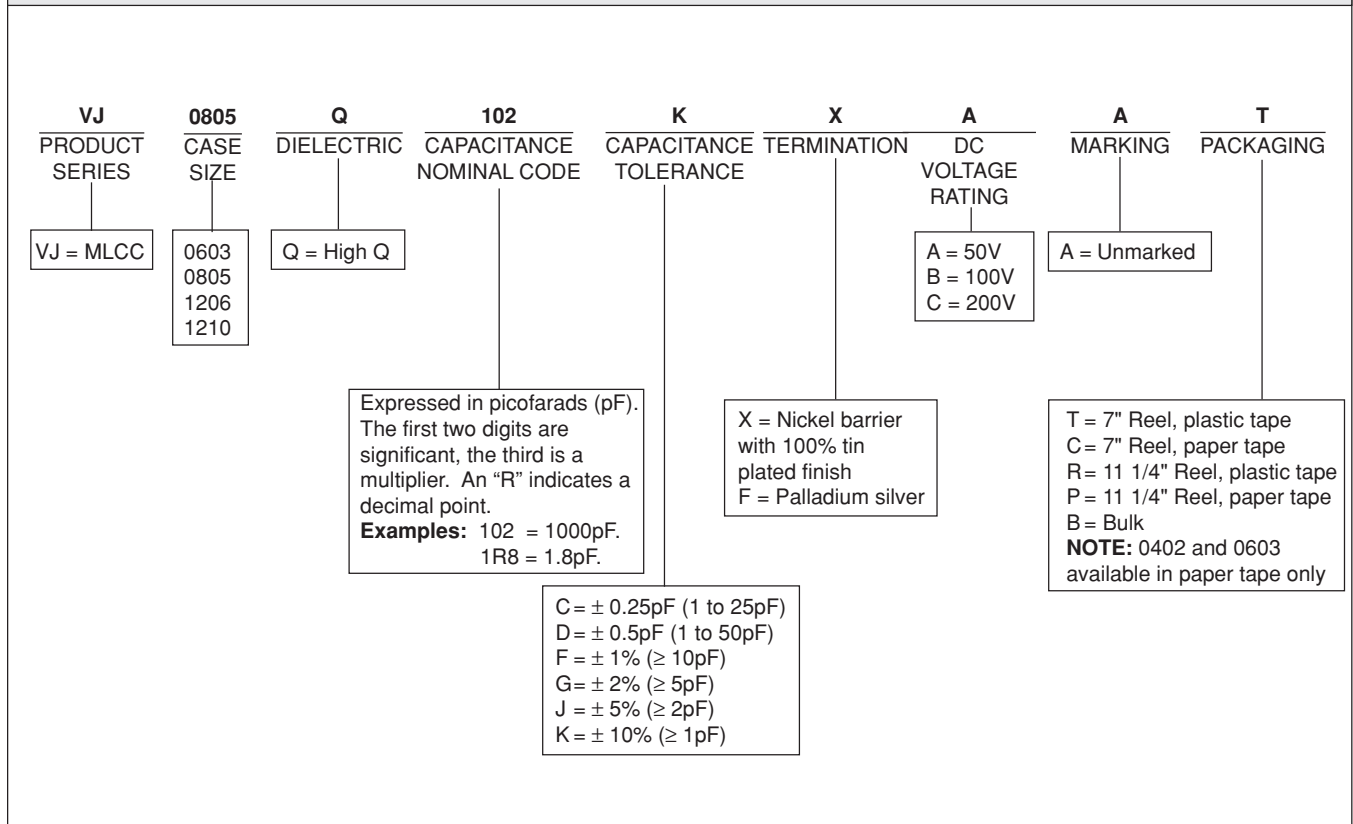
@ + 25°C and rated voltage 100,000 Megohms minimum or 1000 ohm-farads, whichever is less.

@ + 125°C and rated voltage 10,000 Megohms minimum or 100 ohm-farads, whichever is less.

Dielectric Withstanding Voltage (DWV):

250% of rated voltage for 5 ± 1 seconds, 50 milliamps current maximum.

ORDERING INFORMATION



VJ High Q Dielectric

Vishay Vitramon



| HIGH Q DIELECTRIC | | | | | | | | | | | | | |
|--------------------------|----------------|--------|-----|---|--------|-----|-----|--------|-----|-----|--------|-----|-----|
| STYLE | | VJ0603 | | | VJ0805 | | | VJ1206 | | | VJ1210 | | |
| E.I.A. TYPE | | 0603 | | | 0805 | | | 1206 | | | 1210 | | |
| VOLTAGE (VDC) | | 50 | 100 | — | 50 | 100 | 200 | 50 | 100 | 200 | 50 | 100 | 200 |
| Capacitance Code | Capacitance pF | | | | | | | | | | | | |
| 1R0 | 1.0 | | | | | | | | | | | | |
| 1R2 | 1.2 | | | | | | | | | | | | |
| 1R5 | 1.5 | | | | | | | | | | | | |
| 1R8 | 1.8 | | | | | | | | | | | | |
| 2R2 | 2.2 | | | | | | | | | | | | |
| 2R7 | 2.7 | | | | | | | | | | | | |
| 3R3 | 3.3 | | | | | | | | | | | | |
| 3R9 | 3.9 | | | | | | | | | | | | |
| 4R7 | 4.7 | | | | | | | | | | | | |
| 5R6 | 5.6 | | | | | | | | | | | | |
| 6R8 | 6.8 | | | | | | | | | | | | |
| 8R2 | 8.2 | | | | | | | | | | | | |
| 100 | 10 | | | | | | | | | | | | |
| 120 | 12 | | | | | | | | | | | | |
| 150 | 15 | | | | | | | | | | | | |
| 180 | 18 | | | | | | | | | | | | |
| 220 | 22 | | | | | | | | | | | | |
| 270 | 27 | | | | | | | | | | | | |
| 330 | 33 | | | | | | | | | | | | |
| 390 | 39 | | | | | | | | | | | | |
| 470 | 47 | | | | | | | | | | | | |
| 560 | 56 | | | | | | | | | | | | |
| 680 | 68 | | | | | | | | | | | | |
| 820 | 82 | | | | | | | | | | | | |
| 101 | 100 | | | | | | | | | | | | |
| 121 | 120 | | | | | | | | | | | | |
| 151 | 150 | | | | | | | | | | | | |
| 181 | 180 | | | | | | | | | | | | |
| 221 | 220 | | | | | | | | | | | | |
| 271 | 270 | | | | | | | | | | | | |
| 331 | 330 | | | | | | | | | | | | |
| 391 | 390 | | | | | | | | | | | | |
| 471 | 470 | | | | | | | | | | | | |
| 561 | 560 | | | | | | | | | | | | |
| 681 | 680 | | | | | | | | | | | | |
| 821 | 820 | | | | | | | | | | | | |

HIGH Q - DIELECTRIC TYPICAL PARAMETERS

