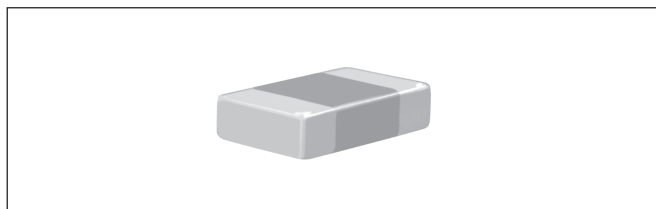


Multilayer Ceramic Chip Capacitors



FEATURES

- C0G is an ultra-stable dielectric offering a Temperature Coefficient of Capacitance (TCC) of $0 \pm 30\text{PPM}/^\circ\text{C}$.
- Low Dissipation Factor (DF).
- Ideal for critical timing and tuning applications.

GENERAL SPECIFICATIONS

NOTE: Electrical characteristics @ $+25^\circ\text{C}$ unless otherwise specified.

Capacitance Range: 1.0pF to 0.056 μF .

Temperature Coefficient of Capacitance (TCC):
 $0 \pm 30\text{PPM}/^\circ\text{C}$ from -55°C to $+125^\circ\text{C}$.

Dissipation Factor (DF):

0.1% maximum @ 1.0 Vrms and 1kHz for values $> 1000\text{pF}$.
0.1% maximum @ 1.0 Vrms and 1MHz for values $\leq 1000\text{pF}$.

Insulation Resistance (IR):

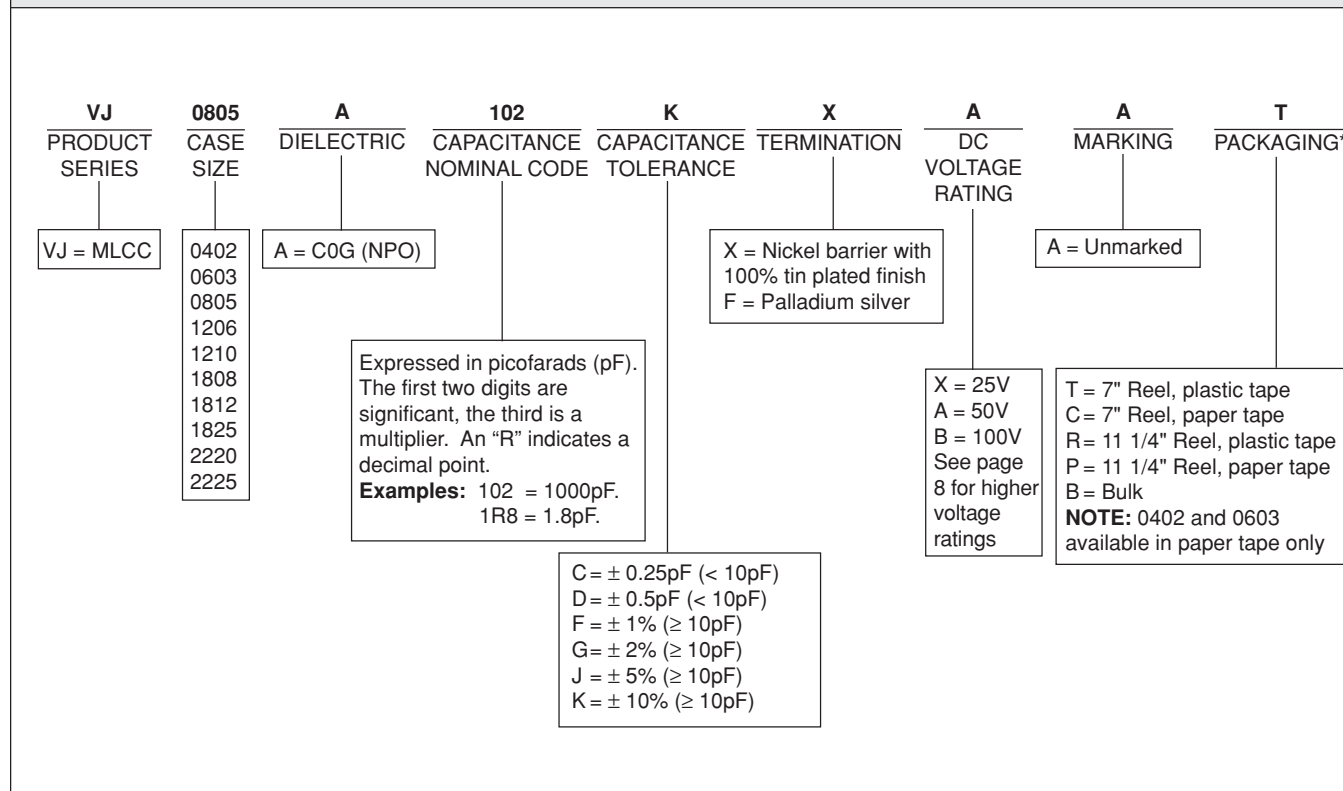
@ $+25^\circ\text{C}$ and rated voltage 100,000 Megohms minimum or 1000 ohm-farads, whichever is less.

@ $+125^\circ\text{C}$ 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



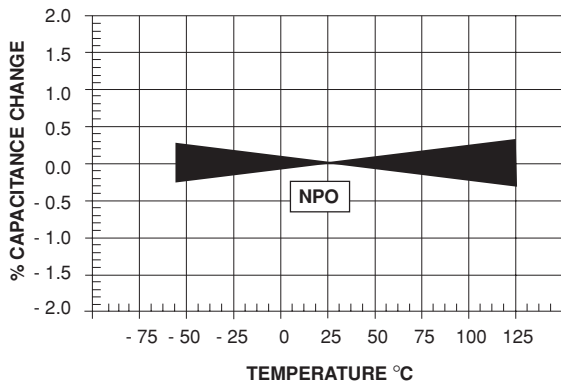
*See Page 57 for cassette case packaged capacitors.

[illegible]

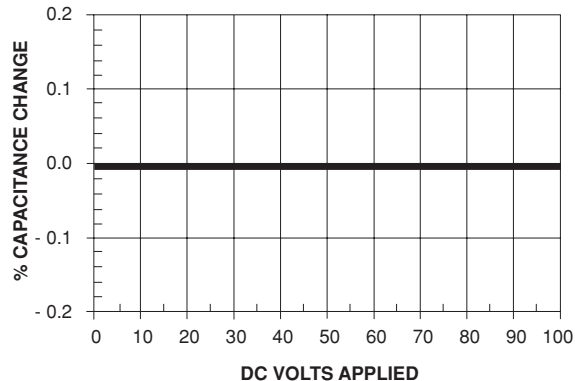
*See page 61 for soldering recommendations.

C0G (NPO) DIELECTRIC - TYPICAL PARAMETERS

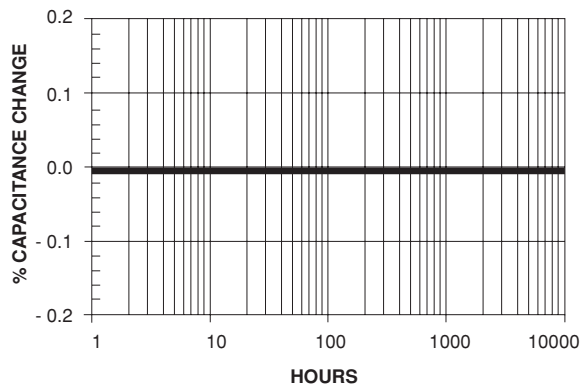
TEMPERATURE COEFFICIENT OF CAPACITANCE



VOLTAGE COEFFICIENT OF CAPACITANCE - NPO



AGING RATE - NPO



MINIMUM INSULATION RESISTANCE vs TEMPERATURE

