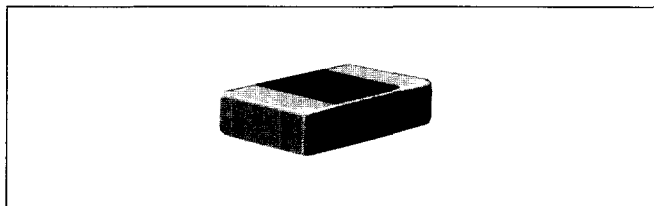




Multilayer Ceramic Chip Capacitors



FEATURES

- Low ESR.
- Ideal for decoupling and filtering.
- Wide range of case sizes, voltage ratings and capacitance values.

GENERAL SPECIFICATIONS

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

Capacitance Range: 0.01µF to 27.0µF.

Temperature Coefficient of Capacitance (TCC):
+ 22%, - 82% from - 30°C to + 85°C.

Dissipation Factor (DF):
16V, 25V ratings, 3.5% maximum @ 1.0 Vrms and 1kHz.

Insulation Resistance (IR):

@ + 25°C and rated voltage 10,000 Megohms minimum or 100 ohm-farads, whichever is less.

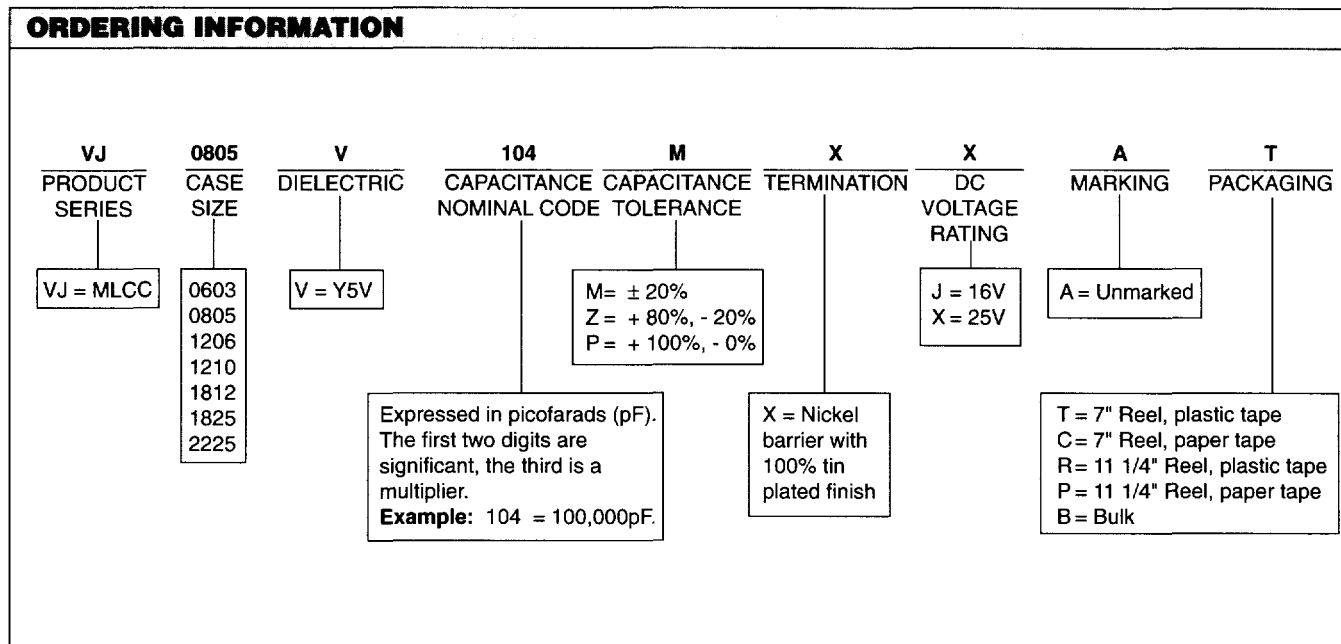
@ + 85°C and rated voltage 1000 Megohms minimum or 10 ohm-farads, whichever is less.

Dielectric Withstanding Voltage (DWV):

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

Aging Rate: 3% maximum per decade.

ORDERING INFORMATION





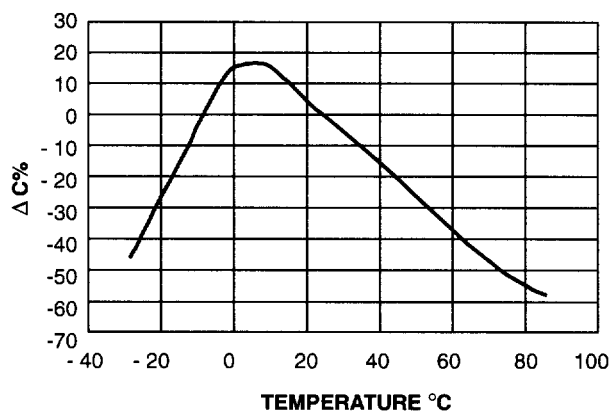
| Y5V DIELECTRIC | | | | | | | | | | | | | | | |
|-----------------------|---------------------|--------|----|--------|----|--------|----|--------|----|---------|-----|---------|----|---------|----|
| STYLE | | VJ0603 | | VJ0805 | | VJ1206 | | VJ1210 | | VJ1812* | | VJ1825* | | VJ2225* | |
| E.I.A. TYPE | | 0603 | | 0805 | | 1206 | | 1210 | | 1812 | | 1825 | | — | |
| VOLTAGE (VDC) | | 16 | 25 | 16 | 25 | 16 | 25 | 16 | 25 | 16 | .25 | 16 | 25 | 16 | 25 |
| Capacitance Code | Capacitance μ F | | | | | | | | | | | | | | |
| 103 | 0.010 | | | | | | | | | | | | | | |
| 123 | 0.012 | | | | | | | | | | | | | | |
| 153 | 0.015 | | | | | | | | | | | | | | |
| 183 | 0.018 | | | | | | | | | | | | | | |
| 223 | 0.022 | | | | | | | | | | | | | | |
| 273 | 0.027 | | | | | | | | | | | | | | |
| 333 | 0.033 | | | | | | | | | | | | | | |
| 393 | 0.039 | | | | | | | | | | | | | | |
| 473 | 0.047 | | | | | | | | | | | | | | |
| 563 | 0.056 | | | | | | | | | | | | | | |
| 683 | 0.068 | | | | | | | | | | | | | | |
| 823 | 0.082 | | | | | | | | | | | | | | |
| 104 | 0.10 | | | | | | | | | | | | | | |
| 124 | 0.12 | | | | | | | | | | | | | | |
| 154 | 0.15 | | | | | | | | | | | | | | |
| 184 | 0.18 | | | | | | | | | | | | | | |
| 224 | 0.22 | | | | | | | | | | | | | | |
| 274 | 0.27 | | | | | | | | | | | | | | |
| 334 | 0.33 | | | | | | | | | | | | | | |
| 394 | 0.39 | | | | | | | | | | | | | | |
| 474 | 0.47 | | | | | | | | | | | | | | |
| 564 | 0.56 | | | | | | | | | | | | | | |
| 684 | 0.68 | | | | | | | | | | | | | | |
| 824 | 0.82 | | | | | | | | | | | | | | |
| 105 | 1.0 | | | | | | | | | | | | | | |
| 125 | 1.2 | | | | | | | | | | | | | | |
| 155 | 1.5 | | | | | | | | | | | | | | |
| 185 | 1.8 | | | | | | | | | | | | | | |
| 225 | 2.2 | | | | | | | | | | | | | | |
| 275 | 2.7 | | | | | | | | | | | | | | |
| 335 | 3.3 | | | | | | | | | | | | | | |
| 395 | 3.9 | | | | | | | | | | | | | | |
| 475 | 4.7 | | | | | | | | | | | | | | |
| 565 | 5.6 | | | | | | | | | | | | | | |
| 685 | 6.8 | | | | | | | | | | | | | | |
| 825 | 8.2 | | | | | | | | | | | | | | |
| 106 | 10.0 | | | | | | | | | | | | | | |
| 126 | 12.0 | | | | | | | | | | | | | | |
| 156 | 15.0 | | | | | | | | | | | | | | |
| 186 | 18.0 | | | | | | | | | | | | | | |
| 226 | 22.0 | | | | | | | | | | | | | | |
| 276 | 27.0 | | | | | | | | | | | | | | |
| 336 | 33.0 | | | | | | | | | | | | | | |
| 396 | 39.0 | | | | | | | | | | | | | | |
| 476 | 47.0 | | | | | | | | | | | | | | |

*See page 61 for soldering recommendations.

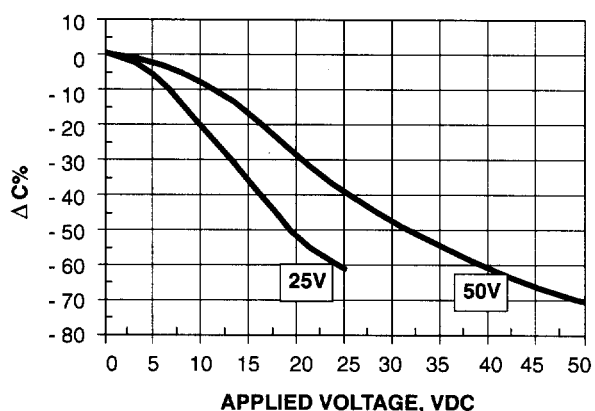


Y5V DIELECTRIC - TYPICAL CHARACTERISTICS

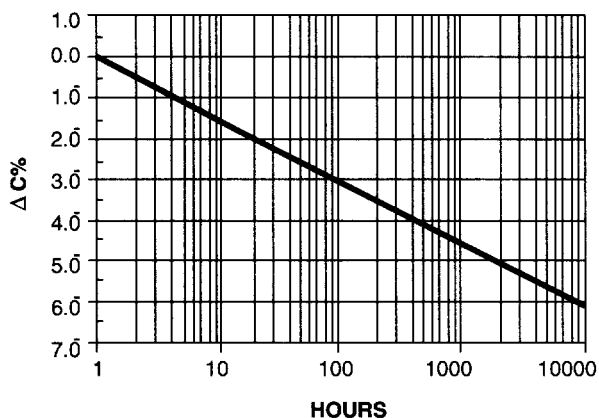
TEMPERATURE COEFFICIENT OF CAPACITANCE



VOLTAGE COEFFICIENT OF CAPACITANCE



AGING



DISSIPATION FACTOR vs TEMPERATURE

