

# MULTILAYER CERAMIC CHIP CAPACITORS



VJ HIGHFREQ Series

# Surface-Mount Multilayer Ceramic Chip Capacitors for High-Frequency Applications



## **KEY BENEFITS**

- Low dissipation factor (≤ 0.05 %)
- High Q (≥ 2000)
- Tight tolerance: as tight as ± 0.1 pF
- Broad working voltages
  - 0402: 25 V to 200 V
  - 0603: 25 V to 250 V
  - 0805: 25 V to 250 V
- Wide capacitance range: 1 pF to 1.5 nF

## RESOURCES

- Datasheet: VJ HIGHFREQ Series <a href="http://www.vishay.com/doc?45071">http://www.vishay.com/doc?45071</a>
- For technical questions contact <u>mlccrf@vishay.com</u>
- Material categorization: For definitions of compliance please see <u>http://www.vishay.com/doc?99912</u>

\*Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.







PRODUCT SHEET

## **APPLICATIONS**

- Filter networks
- Matching networks
- Amplifier circuits
- DC blocking circuits

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#### **ELECTRICAL SPECIFICATIONS**

Note

• Electrical characteristics at 25 °C unless otherwise specified

Operating Temperature: - 55 °C to + 125 °C

#### Capacitance Range:

0402: 1.0 pF to 82 pF 0603: 1.0 pF to 470 pF

0805: 1.0 pF to 1.5 nF

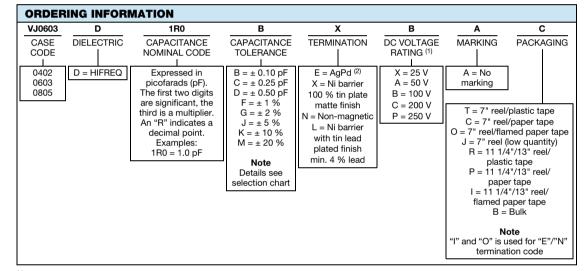
Voltage Rating: 25 V<sub>DC</sub> to 250 V<sub>DC</sub>

#### Temperature Coefficient of Capacitance (TCC):

C0G (D): 0 ppm/°C  $\pm$  30 ppm/°C from - 55 °C to + 125 °C with zero (0) V<sub>DC</sub> applied

#### **Dissipation Factor (DF):**

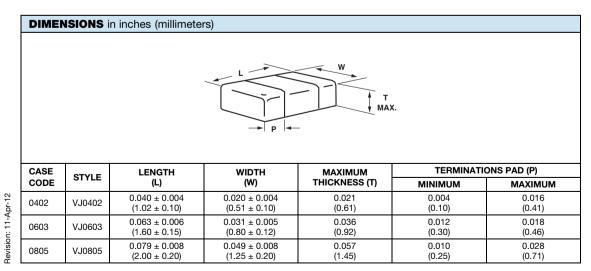
C0G (D): 0.05 % max. at 1.0 V<sub>RMS</sub> and 1 MHz



#### Notes

<sup>(1)</sup> DC voltage rating should not be exceeded in application

<sup>(2)</sup> Termination code "E" is for conductive epoxy assembly



PRODUCT SHEET

#### VMN-PT0320-1205