HVArc Guard® High-Voltage, Surface-Mount Multilayer Ceramic Chip Capacitors

KEY BENEFITS

- Average voltage breakdown (VBD) is typically twice that of standard commercial grade products
- Offer capacitance ranges of 10 pF to 0.27 µF
- High capacitance and small case sizes save board space (compared to standard high-voltage MLCCs)
- Excellent reliability and high-voltage performance: rated for 250 V\textsubscript{DC} to 2500 V\textsubscript{DC}
- Eliminate the need to encapsulate capacitors with a conformal coating
- Replaces wire-leaded, through-hole capacitors
- Available with polymer terminations

APPLICATIONS

- Medical equipment and instrumentation
- Electronic transmissions
- DC electric motors
- High-voltage generators
- S/B lighting ballasts for compact florescent lighting and HID
- Power supplies

RESOURCES

- For technical questions contact mlcc@vishay.com

Note

(1) 1206 case size, X7R dielectric, 33 nF, 500 V\textsubscript{DC} rated HVArc Guard® vs. commercial grade capacitor when tested in air, not covered in fluid or conformal coated.
Surface-Mount Multilayer Ceramic Chip Capacitors
Prohibit Surface Arc-Over in High-Voltage Applications

ELECTRICAL SPECIFICATIONS

CGG (NP0)

<table>
<thead>
<tr>
<th>CODE</th>
<th>CASE</th>
<th>CAPACITANCE</th>
<th>VOLTAGE</th>
<th>APPLICATIONS</th>
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<tr>
<td>C0G</td>
<td>0805</td>
<td>10 pF</td>
<td>1500 VDC</td>
<td>250 VDC to 1000 VDC</td>
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<td>1206</td>
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<td>250 VDC to 1000 VDC</td>
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<td>1500 VDC to 2500 VDC</td>
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<td>X7R</td>
<td>0805</td>
<td>470 pF</td>
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PRODUCED IN USA

For technical questions, contact: mlcc@vishay.com

Note:
- Detail ratings see selection chart
- DC voltage rating should not be exceeded in application. Other application factors may affect the MLCC performance.
- Consult for questions: mlcc@vishay.com
- Process code with 2 digits has to be added
- Termination code “E” is for conductive epoxy assembly
- Please contact factory for polymer termination availability