Features

- Size: 8 mm diameter, 10 mm length
- High current rating
- Low capacitance and insertion loss
- Fail-short option available
- RoHS compliant*
- UL Recognized

Additional Information

Click these links for more information:

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Characteristics

Test Methods per ITU-T K.12 and IEC 61643-311.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2046-09</td>
</tr>
<tr>
<td>DC Sparkover ±20 % @ 100 V/s</td>
<td>90 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td>&lt; 600 V</td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt; 700 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td></td>
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</table>

<table>
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<th>Model No.</th>
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</thead>
<tbody>
<tr>
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<td>2046-35</td>
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<tr>
<td>DC Sparkover ±20 % @ 100 V/s</td>
<td>350 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td>&lt; 700 V</td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt; 800 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td></td>
</tr>
</tbody>
</table>

(1) Impulse Sparkover voltage is defined as typical values of distribution.

Insulation Resistance (IR) (2) ....................................50 / 100 / 250 Vdc ................................................. > 10 GΩ
Glow Voltage ..................................................10 mA ..................................................................... ~ 70 V
Arc Voltage ..................................................1 A ..................................................................... ~ 10 V
Glow-Arc Transition Current .................< 1 A ..................................................................... < 2 pF
Maximum Capacitance ........................................< 1 MHz ..................................................................... < 2 pF
Maximum Impulse Discharge Current ..........20,000 A, 8/20 μs .................................................. 1 operation
Nominal Alternating Discharge Current .......20 A, 50 Hz, 1 second ............................................. 1 operation
Impulse Life ..................................................200 A 10/1000 μs ............................................. 130 operations
DC Holdover Voltage (3) ..............................................< 150 ms
Operating Temperature .....................................-30 to +85 °C
Storage Temperature .........................................-40 to +115 °C
Climatic Category (IEC 60068-1) .................40 / 90 / 21

Notes:

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground voltage.
- Discharge current rating is total current equally divided between Each Line To Ground (ELTG).

(2) DC Sparkover Voltage IR Measuring Voltage
90 V 50 V
145–400 V 100 V
420–600 V 250 V

(3) Network Applied
DC Sparkover Voltage DC Holdover Voltage
90–145 V 52 V
200–250 V 135 V
350–600 V 150 V

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov
Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

**2046 Series Heavy Duty 3-Electrode Gas Discharge Tube**

**Product Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2046-xx-A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2046-xx-C2</td>
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<tr>
<td>2046-xx-C2F</td>
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<td>FAIL-SHORT CONFIGURATION</td>
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**How to Order**

<table>
<thead>
<tr>
<th>Model Number Designator</th>
<th>Voltage (Divided by 10)</th>
<th>Leads</th>
<th>Fail-Short Option</th>
<th>RoHS Compliancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2046 - xx - xx (F) LF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Leads</th>
<th>Fail-Short Option</th>
<th>RoHS Compliancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>09 V</td>
<td>No leads/Cassette Applications</td>
<td>None</td>
<td>LF = RoHS Compliant Product</td>
</tr>
<tr>
<td>14 V</td>
<td>C2 = 1.0 mm dia., 4.4 mm spacing</td>
<td>F = Fail-Short Device (Optional)</td>
<td></td>
</tr>
<tr>
<td>20 V</td>
<td>42 = 420 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23 V</td>
<td>47 = 470 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 V</td>
<td>60 = 600 V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Packaging Specifications**

Model 2046 ships standard bulk pack, 100 pieces per tray; 5 trays per inner box; 2 inner boxes per outer pack (1K units).

**Contact Information**

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Email: eurocus@bourns.com

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