### Features
- Size: 8 mm diameter, 6 mm length
- Low capacitance
- High insulation resistance
- RoHS compliant*
- UL Recognized

### Additional Information
Click these links for more information:
- Product Selector
- Technical Library
- Inventory
- Samples
- Contact


<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2045-07</td>
</tr>
<tr>
<td>DC Sparkover ±30% @ 100 V/s</td>
<td>75 V</td>
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<tr>
<td>Impulse Sparkover (1)</td>
<td>&lt; 500 V</td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt; 600 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td>&lt; 700 V</td>
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<th>Characteristic</th>
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<tbody>
<tr>
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<td>2045-25</td>
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<tr>
<td>DC Sparkover ±30% @ 100 V/s</td>
<td>250 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td>&lt; 500 V</td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt; 700 V</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 MHz ........................................................... < 1 A
- Maximum Capacitance ................................................... 1 MHz ........................................................... < 1.5 pF
- Impulse Discharge Current ........................................... 15,000 A, 8/20 μs ........................................... 1 operation
- Alternating Discharge Current ...................................... 5 A, 50 Hz, 1 second. ........................................... 1 operation
- Impulse Life ............................................................ 100 A 10/1000 μs ........................................... 500 operations
- Storage Temperature .................................................... -40 to +150 °C
- Operating Temperature ............................................. -30 to +85 °C
- DC Holdover Voltage (3)................................................... < 150 ms
- Climatic Category (IEC 60668-1) ................................... 40 / 90 / 21

Notes:
- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859.

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**WARNING**
Cancer and Reproductive Harm
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2045 Series Medium Duty 2-Electrode Gas Discharge Tube

Product Dimensions

2045-XX-B

- 8.0 +0.3/-0.5 (0.315 ± 0.002)
- 0.8 ± 0.05 (0.031 ± 0.002)

DIMENSIONS: MM (INCHES)

Note: Custom leadforms available - please contact Bourns for details.

Packaging Specifications

The reelpack (-BT1LF) contains 500 pieces per reel. Reel is 330 mm in diameter and 68 mm wide. Two reels per box (1K units).

2045-XX-BT1LF — 0.8 mm (0.032 in.) dia. lead wire

How to Order

<table>
<thead>
<tr>
<th>Model Number Designator</th>
<th>2045 - xx - B LF</th>
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<tbody>
<tr>
<td>Voltage</td>
<td>Voltage</td>
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<tr>
<td>07 = 75 V</td>
<td>07 = 75 V</td>
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<tr>
<td>09 = 90 V</td>
<td>09 = 90 V</td>
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<tr>
<td>12 = 120 V</td>
<td>12 = 120 V</td>
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<tr>
<td>13 = 130 V</td>
<td>13 = 130 V</td>
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<tr>
<td>14 = 145 V</td>
<td>14 = 145 V</td>
</tr>
<tr>
<td>23 = 230 V</td>
<td>23 = 230 V</td>
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</tbody>
</table>

Leads

B = 0.8 mm straight leads

Packaging

T1 = Reelpack (Optional) - 500 pcs./reel

RoHS Compliant

LF = RoHS Compliant Product
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