Features
■ Size: 11.8 mm diameter, 17.5 mm length
■ High power rating
■ High voltage range
■ RoHS compliant*
■ UL Recognized**

Applications
■ Industrial equipment/electronics
■ Telecommunications electronics

2097 Series High-Voltage 2-Electrode Gas Discharge Tube

Characteristics
Test Methods per ITU-T (CCITT) K.12 and IEC 61643-311.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>2097-100**</th>
<th>2097-120</th>
<th>2097-140</th>
<th>2097-160</th>
<th>2097-200</th>
<th>2097-220</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Sparkover ±20 % @ 100 V/s</td>
<td>1000 V</td>
<td>1200 V</td>
<td>1400 V</td>
<td>1600 V</td>
<td>2000 V</td>
<td>2200 V</td>
</tr>
<tr>
<td>Impulse Sparkover (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 V/μs</td>
<td>&lt; 1500 V</td>
<td>&lt; 1800 V</td>
<td>&lt; 2000 V</td>
<td>&lt; 2300 V</td>
<td>&lt; 2600 V</td>
<td>&lt; 2700 V</td>
</tr>
<tr>
<td>1000 V/μs</td>
<td>&lt; 1700 V</td>
<td>&lt; 2000 V</td>
<td>&lt; 2200 V</td>
<td>&lt; 2500 V</td>
<td>&lt; 2700 V</td>
<td>&lt; 2800 V</td>
</tr>
</tbody>
</table>

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

Insulation Resistance (IR) (2) .................. 500/1000 Vdc .................. > 10 GΩ
Glow Voltage ........................................... 10 mA ...................... ~ 60 V
Arc Voltage ........................................... 1 A ......................... ~ 15 V
Glow-Arc Transition Current ................. < 1 A
Capacitance ......................................... 1 MHz ......................... < 1.0 pF
Impulse Discharge Current ................. 25,000 A, 8/20 μs ........... 1 operation
.......................................................... 20,000 A, 8/20 μs ........... 5 operations
Alternating Discharge Current ............. 20 Arms, 50 Hz, 1 second .... 1 operation min.
.......................................................... 120 Arms, 50 Hz, 9 cycles ... 1 operation min.
Impulse Life ...................................... 500 A, 10/1000 μs .......... > 400 operations
Operating Temperature .............................. -30 to +85 °C
Storage Temperature .............................. -40 to +115 °C
Climatic Category (IEC 60068-1) .............. 40 / 90 / 21

Notes:
(2) Insulation Resistance measured at 1000 V for GDTs with >2000 V DCBD.
• At delivery AQL 0.65 Level II, DIN ISO 2859.
** UL Recognized components, UL File E313168. Model 2097-100 is not UL Recognized.
2097 Series High-Voltage 2-Electrode Gas Discharge Tube

Product Dimensions

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8 ± 0.2</td>
<td>(.228 ± .008)</td>
</tr>
<tr>
<td>7.3 ± 0.3</td>
<td>(.287 ± .012)</td>
</tr>
<tr>
<td>11.8 ± 0.2</td>
<td>(.465 ± .008)</td>
</tr>
<tr>
<td>17.4 ± 0.5</td>
<td>(.685 ± .020)</td>
</tr>
<tr>
<td>17.4 ± 0.5</td>
<td>(.685 ± .020)</td>
</tr>
<tr>
<td>32.0 ± 1.0</td>
<td>(1.260 ± .039)</td>
</tr>
</tbody>
</table>

Packaging Specifications

Model 2097 ships standard bulk, 35 pcs. per tray; 3 trays per box (105 units).

How to Order

2097 - xxx - D LF

Model Number Designator

Voltage (Divided by 10)

- 100 = 1000 V
- 120 = 1200 V
- 140 = 1400 V
- 160 = 1600 V
- 200 = 2000 V
- 220 = 2200 V

Contact Terminals

- D = M3

RoHS Compliancy

- LF = RoHS Compliant Product

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