



## 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.

| Characteristic                    | Model No.  |          |          |          |          |          |
|-----------------------------------|------------|----------|----------|----------|----------|----------|
|                                   | 2097-100** | 2097-120 | 2097-140 | 2097-160 | 2097-200 | 2097-220 |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 1000 V     | 1200 V   | 1400 V   | 1600 V   | 2000 V   | 2200 V   |
| Impulse Sparkover <sup>(1)</sup>  |            |          |          |          |          |          |
| 100 V/ $\mu$ s                    | < 1500 V   | < 1800 V | < 2000 V | < 2300 V | < 2600 V | < 2700 V |
| 1000 V/ $\mu$ s                   | < 1700 V   | < 2000 V | < 2200 V | < 2500 V | < 2700 V | < 2800 V |

<sup>(1)</sup> Impulse Sparkover voltage is defined as typical values of distribution.

|                                           |                           |                  |
|-------------------------------------------|---------------------------|------------------|
| Insulation Resistance (IR) <sup>(2)</sup> | 500/1000 Vdc              | > 10 G $\Omega$  |
| 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 $\mu$ s    | 1 operation      |
|                                           | 20,000 A, 8/20 $\mu$ s    | 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 $\mu$ s    | > 400 operations |
| Operating Temperature                     |                           | -30 to +85 °C    |
| Storage Temperature                       |                           | -40 to +115 °C   |
| Climatic Category (IEC 60068-1)           |                           | 40 / 90 / 21     |

## Notes:

<sup>(2)</sup> 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.

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: [asiacus@bourns.com](mailto:asiacus@bourns.com)

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**WARNING**  
**Cancer and Reproductive Harm**  
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\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

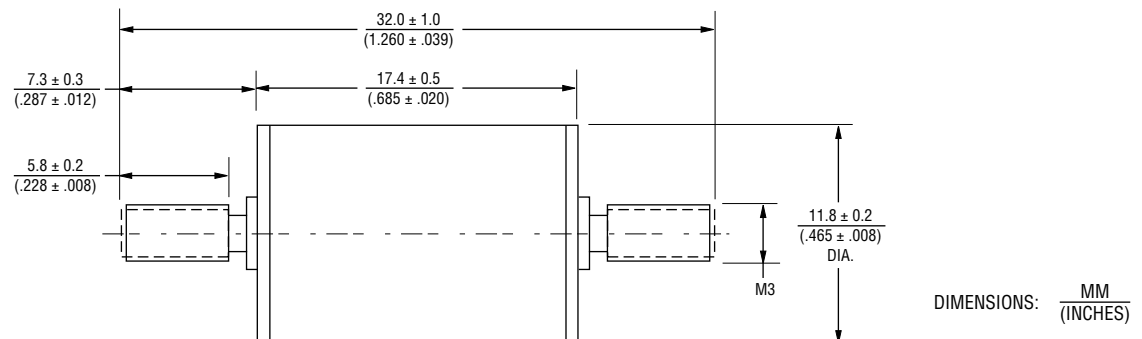
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## 2097 Series High-Voltage 2-Electrode Gas Discharge Tube

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### Product Dimensions



### 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 Compliance** \_\_\_\_\_

- LF = RoHS Compliant Product

REV. E 09/19

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