

### **Features**

- Mini-compact size: 5.5 mm diameter, 6 mm length
- Axial leaded device
- High voltage range up to 4 kV
- High insulation resistance
- RoHS compliant\*
- **TI**® UL Recognized

## **Applications**

- Industrial equipment/electronics
- Telecommunications electronics
- Consumer electronics

# 2089 Series High Voltage Mini 2-Electrode Gas Discharge Tube

#### Characteristics

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

Characteristic	Model No.				
	2089-100	2089-120	2089-140	2089-160	2089-200
DC Sparkover ±20 % @ 100 V/s	1000 V	1200 V	1400 V	1600 V	2000 V
Impulse Sparkover (1) 100 V/µs 1000 V/µs	< 1300 V < 1400 V	< 1800 V < 2000 V	< 2200 V < 2400 V	< 2400 V < 2600 V	< 2800 V < 3000 V

Characteristic	Model No.			
	2089-250	2089-300	2089-350	2089-360
DC Sparkover ±20 % @ 100 V/s	2500 V	3000 V	3500 V	3600 V
Impulse Sparkover <sup>(1)</sup> 100 V/µs 1000 V/µs	< 3300 V < 3500 V	< 3800 V < 4000 V	< 4300 V < 4500 V	< 4400 V < 4600 V

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

Insulation Resistance (IR) (2)	500/1000 Vdc	>1 GΩ
Glow Voltage	10 mA	~ 60 V
Arc Voltage	1 A	~ 15 V
Capacitance	1 MHz	< 1.5 pF
Impulse Discharge Current	3,000 A, 8/20 µs	1 operation
	1,500 A, 8/20 µs	10 operations
Alternating Discharge Current	2 Arms, 50 Hz, 1 second .	1 operation min.
	4 Arms, 50 Hz, 9 cycles	1 operation min.
Impulse Life	100 A, 10/1000 µs	> 300 operations
Operating Temperature		40 to +85 °C
Storage Temperature		40 to +115 °C
Climatic Category (IEC 60068-1	)	40 / 90 / 21

## Notes:

- · UL Recognized component: UL File E313168.
- · At delivery AQL 0.65 Level II, DIN ISO 2859.

(2) DC Breakdown IR Measuring Voltage

1000-2000 V 500 V 2500-3600 V 1000 V

## **Additional Information**

Click these links for more information:









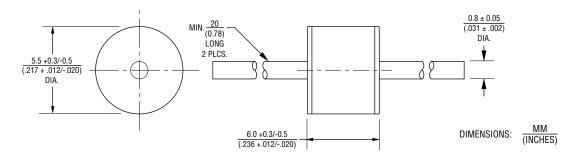


PRODUCT TECHNICAL INVENTORY SAMPLES

# **2089 Series** High Voltage Mini 2-Electrode Gas Discharge Tube

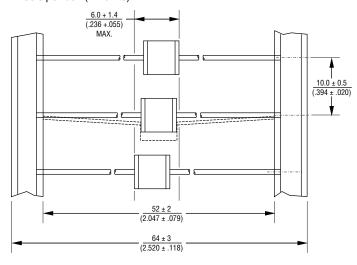
## BOURNS

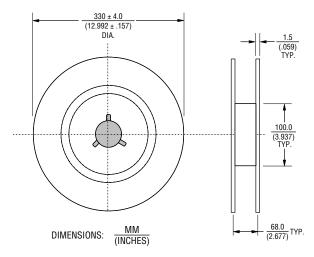
#### **Product Dimensions**



## **Packaging Specifications**

Model 2089 ships standard bulk, 100 pcs. per tray; 5 trays per box (500 units). The optional reelpack (-BT1) contains 500 pcs. per reel; 2 reels per box (1K units).





#### **How to Order** 2089 - xxx - B T1 LF Model Number Designator Voltage (Divided by 10) 100 = 1000 V 250 = 2500 V 120 = 1200 V 300 = 3000 V 140 = 1400 V 350 = 3500 V 160 = 1600 V 360 = 3600 V200 = 2000 V Leads B = 0.8 mmPackaging (Blank) = Bulk Packaging (Standard) T1 = Reelpack (Optional) **RoHS Compliancy** LF = RoHS Compliant Product

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### REV. D 09/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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