

### **Features**

- Mini-compact size: 4 mm diameter, 4.2 mm length
- Surface mount device
- High voltage range
- High insulation resistance
- RoHS compliant\*
- **918** UL Recognized

## **Applications**

- Industrial equipment/electronics
- Telecommunications electronics
- Consumer electronics

2087 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.					
	2087-80	2087-100	2087-120	2087-150	2087-180	2087-200
DC Sparkover ±20 % @ 100 V/s	800 V	1000 V	1200 V	1500 V	1800 V	2000 V
Impulse Sparkover (1) 100 V/µs 1000 V/µs	< 1300 V < 1400 V	< 1500 V < 1600 V	< 1700 V < 1800 V	< 2000 V < 2100 V	< 2500 V < 2600 V	< 2700 V < 2800 V

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

Insulation Resistance (IR) (2)	250/500 Vdc	> 1 GΩ
Glow Voltage	10 mA	~ 60 V
Arc Voltage		
Glow-Arc Transition Current		< 1 A
Capacitance	1 MHz	< 0.5 pF
Impulse Discharge Current		
	2,000 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	> 100 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 500 V for GDTs with >1000 V DCBD.

- · UL Recognized component: UL File E313168.
- · At delivery AQL 0.65 Level II, DIN ISO 2859.
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

### **Additional Information**

Click these links for more information:











PRODUCT TECHNICAL INVENTORY SAMPLES SELECTOR LIBRARY

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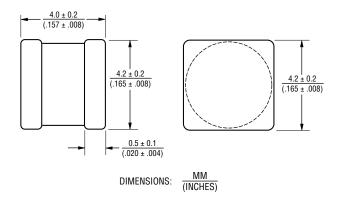
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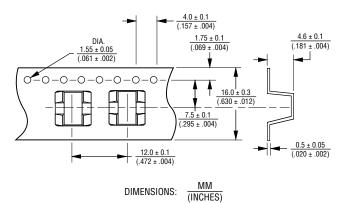
# 2087 Series High Voltage Mini 2-Electrode Gas Discharge Tube Surge Protector **FOURNS**®

### **Product Dimensions**

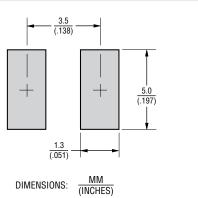


### **Packaging Specifications**

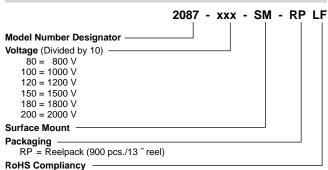
The Model 2087-xxx-SM ships standard reelpack (-RP), 900 pieces per reel, 2,700 pieces per box. Reel is 13 inches in diameter.



## **Recommended Pad Layout**



### **How to Order**



LF = RoHS Compliant Product

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