



Features

- Mini-compact size: 4 mm diameter, 4.2 mm length
- Surface mount device
- High voltage range
- High insulation resistance
- RoHS compliant*
-  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 $\pm 20\%$ @ 100 V/s	800 V	1000 V	1200 V	1500 V	1800 V	2000 V
Impulse Sparkover 100 V/ μ s 1000 V/ μ s	< 1300 V < 1400 V	< 1500 V < 1600 V	< 1700 V < 1800 V	< 2000 V < 2100 V	< 2500 V < 2600 V	< 2700 V < 2800 V

Insulation Resistance (IR) ¹	250/500 Vdc	> 1 G Ω
Glow Voltage	10 mA	~ 60 V
Arc Voltage	1 A	~ 15 V
Glow-Arc Transition Current		< 1 A
Capacitance	1 MHz	< 0.5 pF
Impulse Discharge Current	3,000 A, 8/20 μ s	1 operation
	2,000 A, 8/20 μ s	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 μ s	> 100 operations
Operating Temperature		-30 to +85 °C
Storage Temperature		-40 to +115 °C
Climatic Category (IEC 60068-1)		40 / 90 / 21

Notes:

¹ 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®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

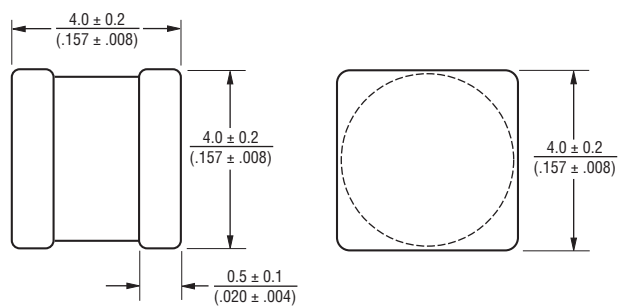
*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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

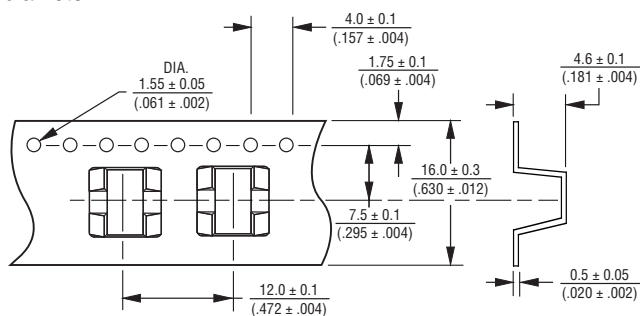
Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

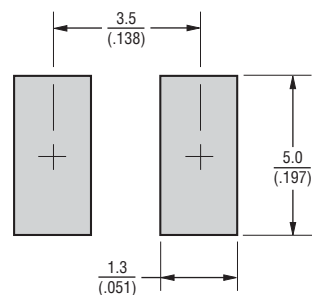
Packaging Specifications

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



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Recommended Pad Layout



How to Order

2087 - xxx - SM - RP LF

Model Number Designator _____

Voltage (Divided by 10) _____

80 = 800 V

100 = 1000 V

120 = 1200 V

150 = 1500 V

180 = 1800 V

200 = 2000 V

Surface Mount _____

Packaging _____

RP = Reelpack (900 pcs./13 " reel)

RoHS Compliancy _____

LF = RoHS Compliant Product

REV. B 10/13

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.