

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 ±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

[1] 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 ..... 1 A ..... ~ 15 V
Glow-Arc Transition Current ..... < 1 A
Capacitance ..... 1 MHz ..... < 0.5 pF
Impulse Discharge Current ..... 3,000 A, 8/20 μs ..... 1 operation
..... 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 SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

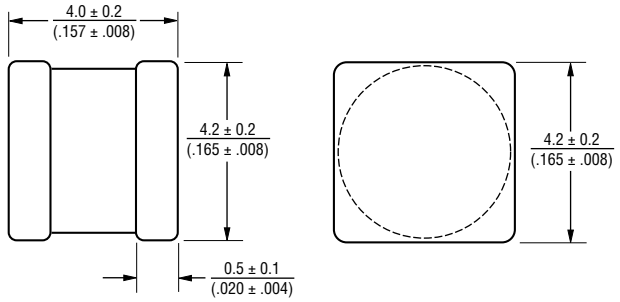
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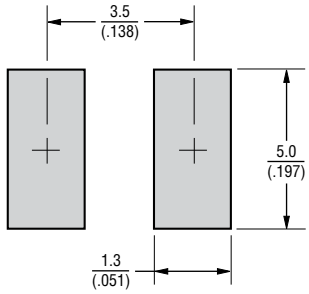
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Product Dimensions



DIMENSIONS: MM / (INCHES)

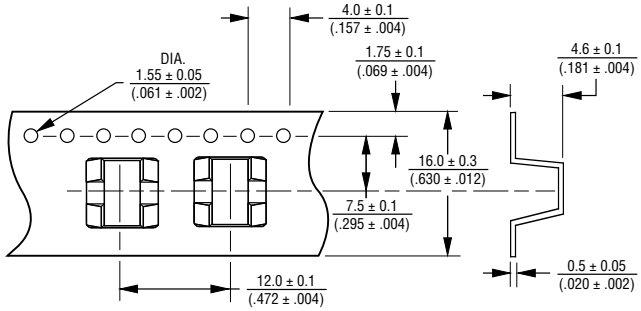
Recommended Pad Layout



DIMENSIONS: MM / (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: MM / (INCHES)

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

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