



Features

- Size: 6.2 mm diameter, 4.2 mm length
- Surface mount device
- High voltage range
- Compact size
- High insulation resistance
- RoHS compliant*
-  UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2093 Series High Voltage 2-Electrode Gas Discharge Tube

Characteristics

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

Characteristic	Model No.				
	2093-100	2093-120	2093-180	2093-200	2093-250
DC Sparkover $\pm 20\%$ @ 100 V/s	1000 V	1200 V	1800 V	2000 V	2500 V
Impulse Sparkover					
100V/ μ s	< 1500 V	< 1700 V	< 2500 V	< 2700 V	< 3100 V
1000V/ μ s	< 1600 V	< 1800 V	< 2600 V	< 2800 V	< 3200 V

Characteristic	Model No.	
	2093-270	2093-300
DC Sparkover $\pm 20\%$ @ 100 V/s	2700 V	3000 V
Impulse Sparkover		
100V/ μ s	< 3300 V	< 3600 V
1000V/ μ s	< 3400 V	< 3700 V

Insulation Resistance (IR) ¹	500/1000 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	< 0.8 pF
Impulse Discharge Current	5000 A, 8/20 μ s	1 operation
	3000 A, 8/20 μ s	10 operations
Alternating Discharge Current	3 Arms, 50 Hz, 1 sec	1 operation
	10 Arms, 50 Hz, 9 cycles	1 operation
Impulse Life	100 A, 10/1000 μ s	> 300 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 1000 V for GDTs with > 2000 V DCBD.

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

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

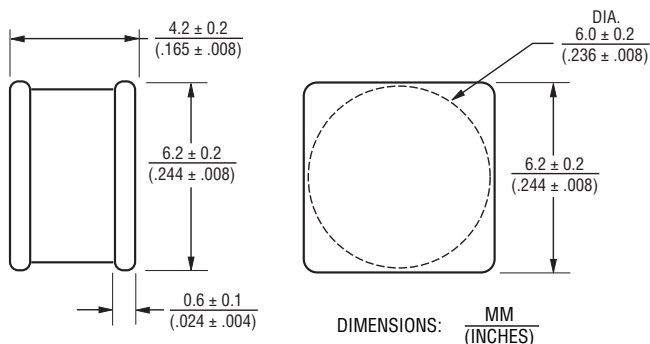
Specifications are subject to change without notice.

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.

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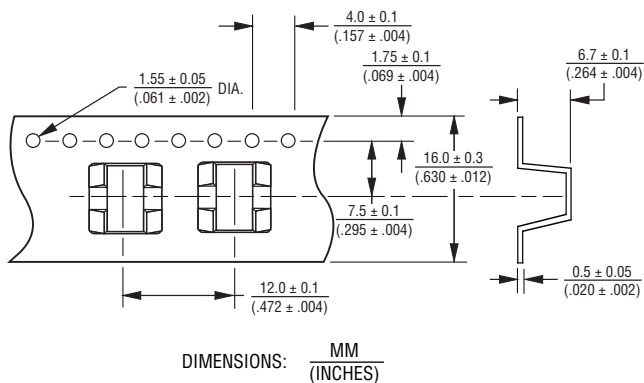
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Product Dimensions

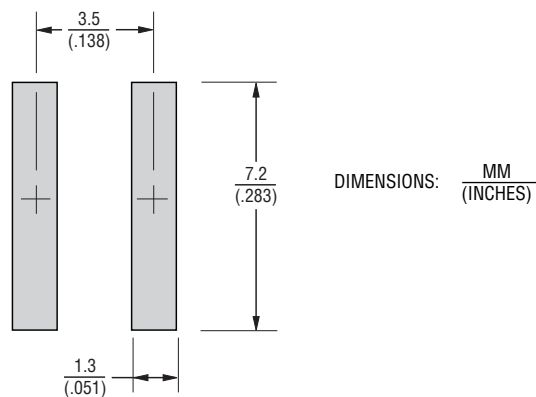


Packaging Specifications

The Model 2093-xx-SM ships standard reelpack (-RP), 800 pieces per reel, 2,400 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



Recommended Pad Layout



How to Order

2093 - xxx - SM - RP LF

Model Number Designator _____

Voltage (Divided by 10) _____

100 = 1000 V	250 = 2500 V
120 = 1200 V	270 = 2700 V
180 = 1800 V	300 = 3000 V
200 = 2000 V	

Surface Mount _____

Packaging _____

RP = Reelpack

RoHS Compliance _____

LF = RoHS Compliant Product

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