

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*
- 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 [1] 100 V/µs 1000 V/µs	 < 3300 V < 3500 V	 < 3800 V < 4000 V	 < 4300 V < 4500 V	 < 4400 V < 4600 V

[1] 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:

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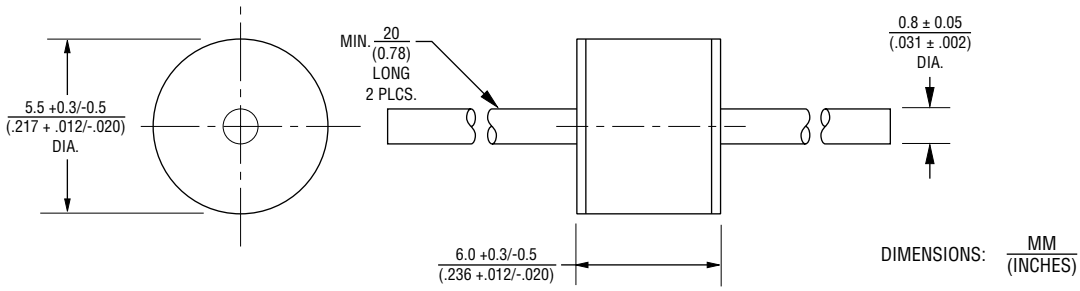
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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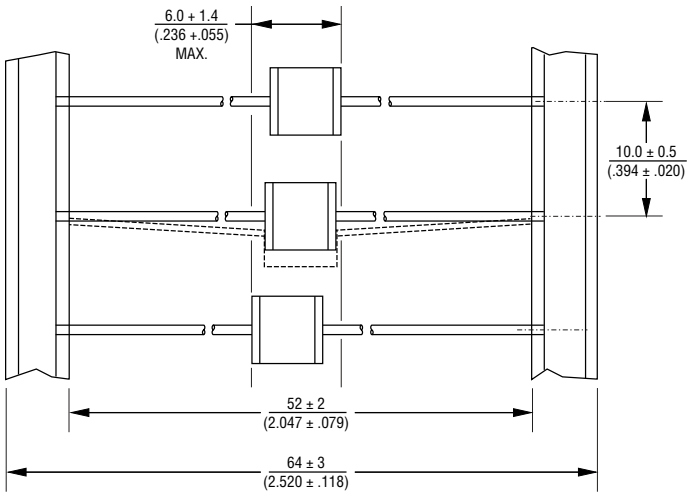
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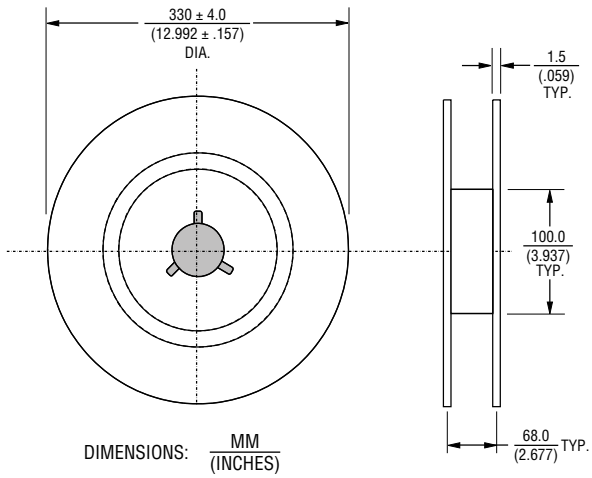
Product Dimensions



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 V
200 = 2000 V	

Leads
B = 0.8 mm

Packaging
(Blank) = Bulk Packaging (Standard)
T1 = Reelpack (Optional)

RoHS Compliancy
LF = RoHS Compliant Product

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