

Features

- Size: 4 mm diameter, 4.2 mm length
- Mini-surface mount footprint
- Low capacitance
- High insulation resistance
- RoHS compliant*
- **SL®** UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2053 Series Light Duty 2-Electrode Miniature Gas Discharge Tube

Characteristics

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

Characteristic	Model No.					
	2053-07	2053-09	2053-14	2053-23	2053-25	
DC Sparkover ± 20 % @ 100 V/s	75 V	90 V	145 V	230 V	250 V	
Impulse Sparkover (1)						
100V/μs	< 700 V	< 700 V	< 700 V	< 600 V	< 600 V	
1000V/μs	< 800 V	< 800 V	< 800 V	< 700 V	< 700 V	

Characteristic	Model No.					
	2053-30	2053-35	2053-40	2053-47	2053-60	
DC Sparkover ± 20 % @ 100 V/s	300 V	350 V	400 V	470 V	600 V	
Impulse Sparkover (1)						
100V/μs	< 600 V	< 650 V	< 700 V	< 800 V	< 900 V	
1000V/μs	< 700 V	< 800 V	< 800 V	< 900 V	< 1000 V	

⁽¹⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Insulation Resistance (IR) (2)	. 50/100/250 V	>1 GΩ
Glow Voltage	. 10 mA	∼ 70 V
Arc Voltage	.>1 A	~ 10 V
Glow-Arc Transition Current		<1A
Capacitance	. 1 MHz	0.5 pF typical
Maximum Impulse Discharge Current	. 5,000 A, 8/20 μs	1 operation
,	3,000 A, 8/20 µs	10 operations
Nominal Alternating Discharge Current	. 3 A, 50 Hz, 1 second	1 operation
ů ů	6 A, 9 cycles	1 operation
Impulse Life	100 A, 10/1000 μs	300 operations
DC Holdover Voltage (3)		< 150 ms
Storage Temperature		40 to +115 °C

Notes:

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

DC Sparkover Voltage **DC Measuring Voltage**

75-90 V 50 V 120-400 V 100 V 470-600 V 250 V

Network Applied

DC Sparkover Voltage DC Holdover Voltage

75-145 V 52 V 230-250 V 80 V 300-600 V 150 V

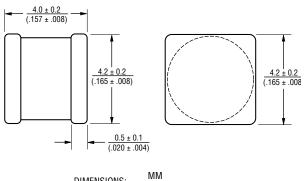


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*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.

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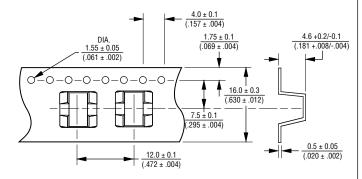
Product Dimensions



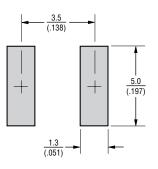
DIMENSIONS: (INCHES)

Packaging Specifications

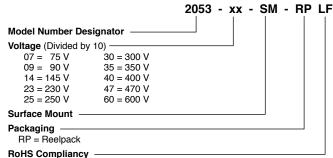
The Model 2053-xx-SM ships standard reelpack (-RP), 900 pieces per reel, 2,700 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



Recommended Pad Layout



How to Order



LF = RoHS Compliant Product

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