

Features

- Leadless, surface mount for economical assembly
- Compact mini-size
- Low capacitance and insertion loss
- RoHS compliant*
- **TAN**® UL Recognized

2055 Series Gas Discharge Tube Surge Protector

Bourns offers a low-cost surface mount (SM) 2-electrode GDT surge protection device. The 2055 Series is ideal for broadband protection due to its ultra-low capacitance. The 2055 Series offers superior protection characteristics suitable for telecommunications, commercial and industrial applications.

Additional Information

Click these links for more information:











LIBRARY

Characteristics

Test Methods per ITU-T (CCITT) K.12 and IEEE C62.31

Characteristic	Model No.					
Characteristic	2055-07	2055-09 2055-23		2055-25	2055-30	
DC Sparkover ± 20 % @ 100 V/s	75 V	90 V	230 V	250 V	300 V	
Impulse Sparkover (1)						
100V/μs	600 V	600 V	450 V	450 V	500 V	
1000V/μs	700 V	700 V	550 V	550 V	600 V	

Characteristic	Model No.				
Characteristic	2055-35	2055-40 2	2055-60	2055-80	
DC Sparkover ± 20 % @ 100 V/s	350 V	400 V	600 V	800 V	
Impulse Sparkover (1)					
100V/μs	600 V	600 V	800 V	1000 V	
1000V/μs	750 V	700 V	900 V	1200 V	

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

Insulation Resistance (IR)	50V / 100 V ⁽²⁾	> 10 ¹⁰ Ω
	10 mA	
	>2 A	
Glow-Arc Transition Current		< 1 A
	1 MHz	
DC Holdover Voltage (3)	>150 V	< 150 ms
Impulse Discharge Current	5000 A, 8/20 μs	10 operations
	100 A, 10/1000 μs	> 300 operations
	10 A, 10/1000 µs	> 1500 operations
Alternating Discharge Current	10 Arms, 9 cycles	1 operation min.
	2.5 Arms, 1 sec, 50 Hz	
Operating Temperature		40 to +85 °C
ESD Classification (HBM)		6

Notes:

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- Surface Mount (SM) parts may show a temporary increase in DCBD after the solder reflow process. Most devices will recover within 24 hours time. It should be noted that there is no quality defect nor change in protection levels during the temporary change in DCBD.
- · Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

(2) Insulation Resistance test conditions:

DC Sparkover **DC Measuring Voltage Voltage** 75 - 150 V..... ≥151 V.

(3) Network applied.

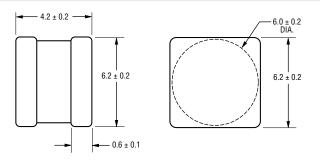


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BOURNS

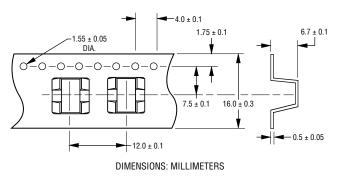
Product Dimensions



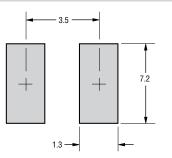
DIMENSIONS: MILLIMETERS

Packaging Specifications

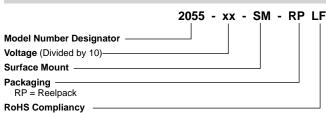
The Model 2055-xx-SM ships standard reelpack (-RP), 800 pieces per reel, 2,400 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



Recommended Pad Layout



How to Order



LF = RoHS Compliant Product

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REV. N 02/20

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Users should verify actual device performance in their specific applications.

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