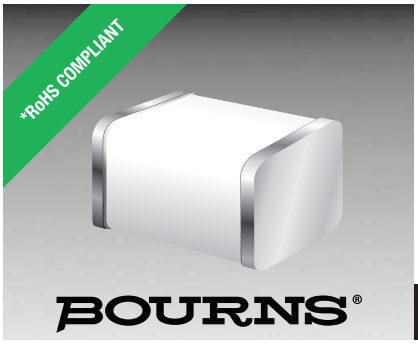


Features

- Compact size
- Low capacitance
- Performance stability over life
- High insulation resistance
- RoHS compliant*
- UL Recognized

Applications

- MDC / PCI modems
- Splitters
- Telecom CPE
- Datacom

2051 Series Gas Discharge Tube Surge Protector

Bourns® 2051 Series micro surface mount, 2-electrode GDT surge protection device is designed to meet board level protection requirements with reduced space requirements. The 2051 Series is ideal for high-speed/high-bandwidth applications with a typical capacitance of 0.4 pF. The 2051 Series product dimensions are 2.7 x 3.2 x 4.5 mm.

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Characteristics

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

Characteristic	Model No.				
	2051-09	2051-15	2051-20	2051-23	2051-30
DC Sparkover @ 100 V/s	90 V ±30 %	150 V ±30 %	200 V ±25 %	230 V ±25 %	300 V ±25 %
Impulse Sparkover (1) 100V/µs 1000V/µs	 <500 V <600 V	 <500 V <600 V	 <500 V <650 V	 <500 V <650 V	 <600 V <750 V

Characteristic	Model No.				
	2051-35	2051-40	2051-42	2051-47	2051-60
DC Sparkover @ 100 V/s	350 V ±25 %	400 V ±25 %	420 V ±25 %	470 V ±25 %	600 V ±25 %
Impulse Sparkover (1) 100V/µs 1000V/µs	 <650 V <800 V	 <750 V <900 V	 <750 V <900 V	 <800 V <950 V	 <950 V <1100 V

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

Insulation Resistance (IR)	50 / 100 V_{dc}	> 1G Ω
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 1 A
Capacitance	1 MHz	< 0.5 pF
Impulse Discharge Current	2000 A, 8/20 µs	10 operations
	100 A, 8/20 µs	300 operations
	10 A, 10/1000 µs	100 operations
Alternating Discharge Current	2 A, 50 Hz, 1 sec	10 operations
Operating & Storage Temperature		-40 to +125 °C
Climatic Category (IEC 60068-1)		40 / 90 / 21
Moisture Sensitivity Level		1

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.

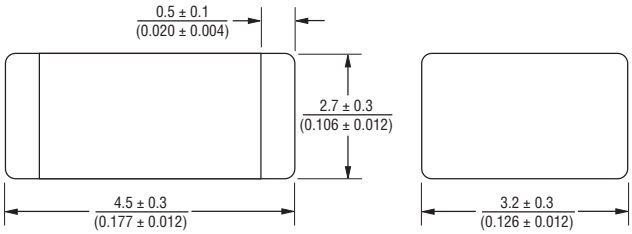
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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2051 Series Gas Discharge Tube Surge Protector

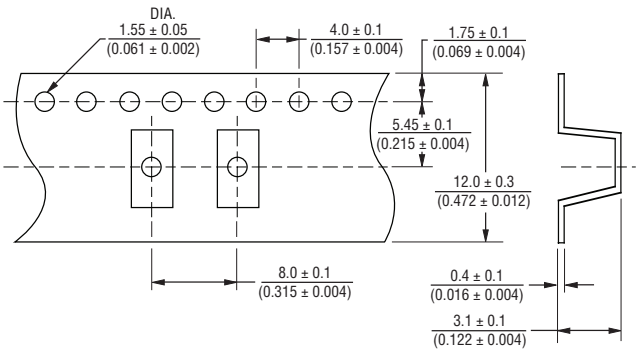
BOURNS®

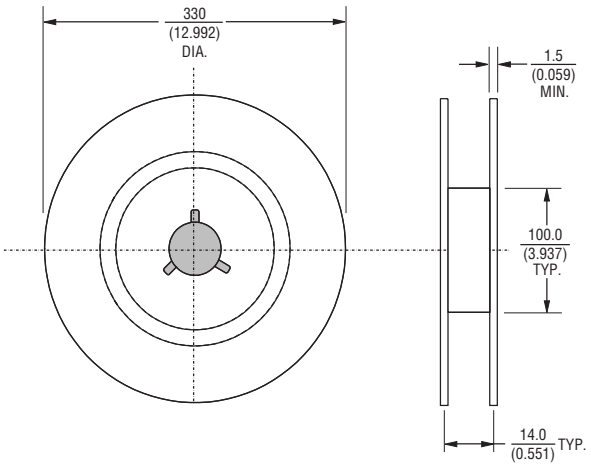
Product Dimensions



Packaging Specifications

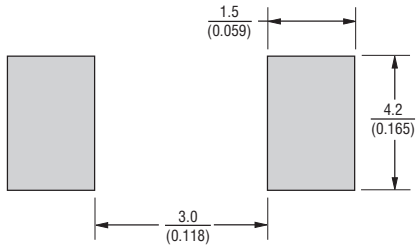
The Model 2051-xx-SM ships standard reelpack (-RP), 2500 pieces per reel. Reel is 330 mm in diameter and 14 mm wide.





DIMENSIONS: MM / (INCHES)

Recommended Pad Layout



How to Order

2051 - xx - SM - RP LF

Model Number Designator

Voltage (Divided by 10)

09 = 90 V	35 = 350 V
15 = 150 V	40 = 400 V
20 = 200 V	42 = 420 V
23 = 230 V	47 = 470 V
30 = 300 V	60 = 600 V

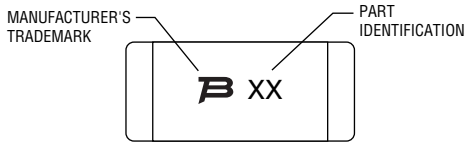
Surface Mount

Packaging
RP = Reelpack (2,500 pieces per reel)

RoHS Compliancy
LF = RoHS Compliant Product

Typical Part Marking

Represents total content. Layout may vary.



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