




Features

- Leadless, surface mount for economical assembly
- Compact mini-size
- Low capacitance and insertion loss
- RoHS compliant*
-  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.

Characteristics

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

| Characteristic | Model No. | | | | | |
|-----------------------------------|-----------|---------|---------|---------|---------|---------|
| | 2055-23 | 2055-25 | 2055-30 | 2055-35 | 2055-40 | 2055-60 |
| DC Sparkover $\pm 20\%$ @ 100 V/s | 230 V | 250 V | 300 V | 350 V | 400 V | 600 V |
| Impulse Sparkover | | | | | | |
| 100V/ μ s | 450 V | 450 V | 500 V | 600 V | 600 V | 800 V |
| 1000V/ μ s | 550 V | 550 V | 600 V | 750 V | 700 V | 900 V |

| | | |
|--|------------------------------|--------------------|
| Insulation Resistance (IR) | 100 V | > $10^{10} \Omega$ |
| Glow Voltage | 10 mA | ~ 80 V |
| Arc Voltage | > 2 A | ~ 12 V |
| Glow-Arc Transition Current | | < 1 A |
| Capacitance | 1 MHz | 0.6 pF typical |
| DC Holdover Voltage ¹ | > 150 V | < 150 ms |
| Impulse Discharge Current | 2500 A, 8/20 μ s | 10 operations |
| | 100 A, 10/1000 μ s | > 300 operations |
| | 10 A, 10/1000 μ s | > 1500 operations |
| Alternating Discharge Current | 10 Arms, 9 cycles | 1 operation min. |
| | 2.5 Arms, 1 sec, 50 Hz | 10 operations |
| Operating Temperature | | -30 to +85 °C |

Notes:

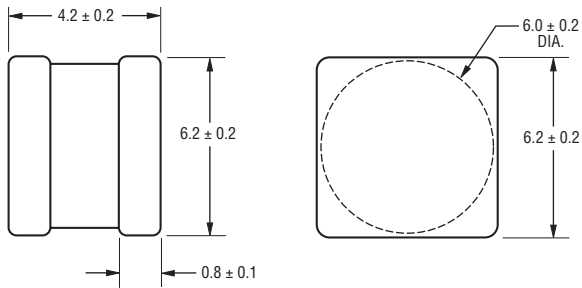
- **UL Recognized component, UL File E153537.**
- At delivery AQL 0.65 Level II, DIN ISO 2859.

¹ Network applied.

2055 Series Gas Discharge Tube Surge Protector

BOURNS®

Product Dimensions

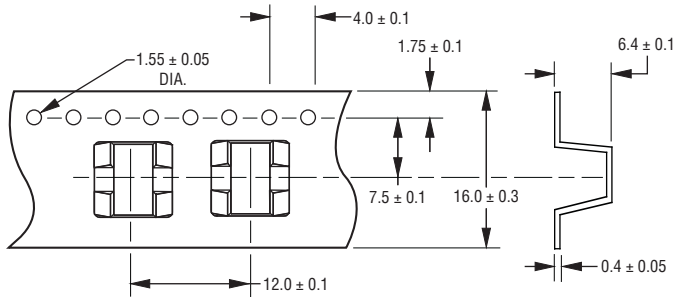


DIMENSIONS: MILLIMETERS

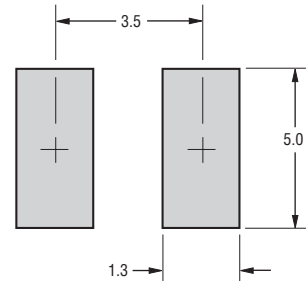
Packaging Specifications

The Model 2055-xx-SM ships standard bulk pack, 100 pieces per bag, 500 pieces per box.

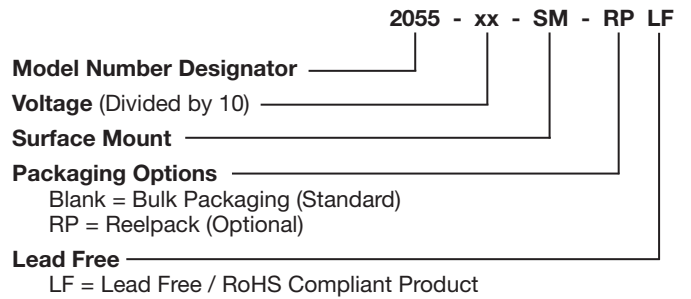
The optional reelpack (-RP) contains 800 pieces per reel, 2,400 pieces per box. Reel is 330 mm in diameter and 16 mm wide.



Recommended Pad Layout



How To Order



Asia-Pacific:

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Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.