



Features

- Leadless, surface mount for economical assembly
- Low capacitance and insertion loss
- High surge current rating
- Compact “mini” size
- Stable breakdown throughout life
- RoHS compliant* version available

2035-110-SM-RPLF Gas Discharge Tube

Bourns offers a miniature Surface Mount (SM) 2-electrode GDT surge protector. The industry-leading quality and features of the 2035 Series GDT continue in this SM version. Compatible with “pick and place” assembly systems, the 2035-SM is ideal for board level protection of high bandwidth applications such as xDSL, cable broadband and high speed Ethernet, due to its high energy-handling capability, long and stable life performance and low capacitance of less than 1 pF. Bourns® subminiature family of GDTs measure only 5 mm in diameter and are presently the best performing and smallest in the telecom industry. Bourns® GDTs are designed to prevent damage from transient disturbances by acting as a “crowbar” to create a short-to-ground circuit during conduction. When an electrical surge exceeds the defined breakdown voltage level of the GDT, the device becomes ionized and conduction takes place within a fraction of a microsecond. When the surge passes and system voltage returns to normal levels, the GDT returns to its high-impedance (off) state.

Characteristics

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

DC Sparkover	±20 % @ 100 V/s.....	1100 V
Impulse Sparkover	@ 1k V/μs.....	1500 V
Insulation Resistance (IR)	100 V	> 10 ⁹ Ω
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 0.5 A
Capacitance	1 MHz.....	< 2 pF
DC Holdover Voltage	135 V	< 150 ms
Max. Single Discharge ¹	5 kA	> 1 operation
Impulse Discharge Current.....	2.5 kA, 8/20 μs	> 10 operations
	100 A, 10/1000 μs	> 100 operations
	10 A, 10/1000 μs	> 1500 operations
Alternating Discharge Current	2.5 Arms, 1 s	> 10 operations
Operating and Storage Temperature.....		-55 to +85 °C

Notes:

Sparkover limits after life +30/-25 %, IR >10⁸ Ω.

¹ DC Sparkover may exceed +30/-25 % but will continue to protect without venting.



Circuit Protection Division

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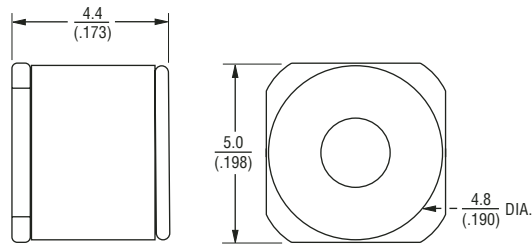
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www.bourns.com

2035-110-SM-RPLF Gas Discharge Tube

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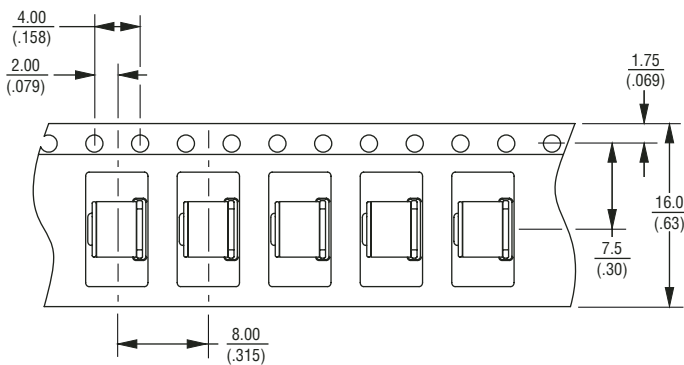
Product Dimensions



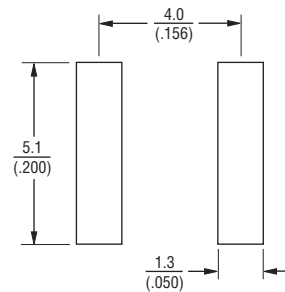
Packaging Specifications

The Model 2035-110-SM-RPLF ships standard bulk pack, 100 pieces per bag.

The optional reelpack (-RP) contains 1,500 pieces per reel. Reel is 13 " in diameter and 3/4 " wide.



Recommended Pad Layout



DIMENSIONS = $\frac{\text{MILLIMETERS}}{\text{(INCHES)}}$

How To Order

Model Number Designator 2035 - xx - SM - RP LF

Voltage _____

Surface Mount _____

Packaging Options _____
 Blank = Bulk Packaging (Standard)
 RP = Reelpack (Optional)

Lead Free Option _____
 Blank = Standard Product
 LF = Lead Free / RoHS Compliant Product