



Features

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

2003 Series Gas Discharge Tube Surge Protector

Bourns offers a low-cost surface mount (SM) 2-electrode GDT surge protection device. The 2003 Series is ideal for broadband protection due to its ultra-low capacitance. The 2003 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.				
	2003-07	2003-09	2003-12	2003-15	2003-20
DC Sparkover $\pm 20\%$ @ 100 V/s	75 V	90 V	120 V	150 V	200 V
Maximum Impulse Breakdown Voltage					
100V/ μ s	600 V	600 V	600 V	600 V	600 V
1000V/ μ s	700 V	700 V	700 V	700 V	700 V
DC Holdover Voltage <150 ms	52 V	52 V	80 V	80 V	135 V

Characteristic	Model No.				
	2003-23	2003-25	2003-35	2003-40	2003-47
DC Sparkover $\pm 20\%$ @ 100 V/s	230 V	250 V	350 V	400 V	470 V
Maximum Impulse Breakdown Voltage					
100V/ μ s	600 V	600 V	600 V	700 V	900 V
1000V/ μ s	700 V	700 V	800 V	800 V	1100 V
DC Holdover Voltage <150 ms	135 V	135 V	135 V	135 V	135 V

Glow Voltage	10 mA.....	~ 70 V
Arc Voltage	1 A.....	~ 10 V
Glow-Arc Transition Current		< 1 A
Maximum Impulse Discharge Current	8/20 μ s, 1 Time	2000 A
	8/20 μ s, 10 Times	1000 A
Impulse Life	8/20 μ s, 100 A.....	300 operations
Alternating Discharge Current	50 Hz, 1 Sec.	1 A
DC Holdover Voltage.....	<150 ms	135 V
Minimum Insulation Resistance.....		1 gigaohm
Maximum Capacitance	1 MHz	0.5 pF
Operating Temperature.....		-40 °C to +90 °C
Moisture Sensitivity Level.....		1
ESD Classification (HBM).....		6

Notes:

- UL Recognized component, UL File E153537.

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*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.

Users should verify actual device performance in their specific applications.

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2003 Series Gas Discharge Tube Surge Protector

BOURNS®

Product Dimensions



Recommended Pad Layout



How to Order

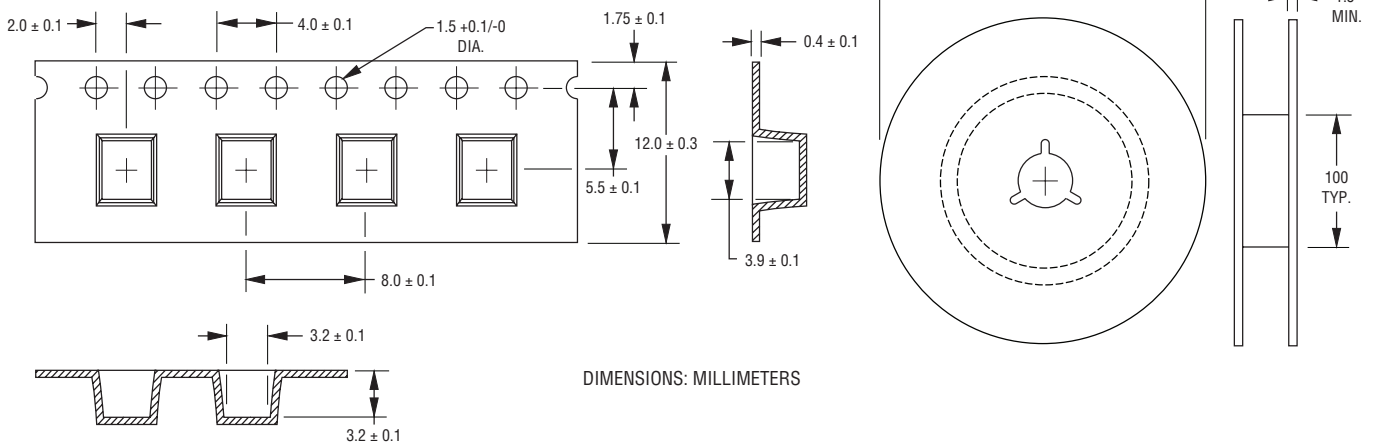


Typical Part Marking

2003-07-SM-RPLF	B07
2003-09-SM-RPLF	B09
2003-12-SM-RPLF	B12
2003-15-SM-RPLF	B15
2003-20-SM-RPLF	B20
2003-23-SM-RPLF	B23
2003-25-SM-RPLF	B25
2003-35-SM-RPLF	B35
2003-40-SM-RPLF	B40
2003-47-SM-RPLF	B47

Packaging Specifications

The Model 2003-xx-SM ships standard reelpack (-RP), 2,500 pieces per reel, 7,500 pieces per box. Reel is 330 mm in diameter and 12 mm wide.



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