

Features

- Leadless, surface mount for economical assembly
- Compact mini-size
- Low capacitance and insertion loss
- RoHS compliant*
- **SN®** 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 ± 20 % @ 100 V/s	75 V	90 V	120 V	150 V	200 V	
Maximum Impulse Breakdown Voltage						
100V/μs	600 V	600 V	600 V	600 V	600 V	
1000V/μs	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 ± 20 % @ 100 V/s	230 V	250 V	350 V	400 V	470 V	
Maximum Impulse Breakdown Voltage						
100V/μs	600 V	600 V	600 V	700 V	900 V	
1000V/μs	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
Maximum Impulse Discharge Current	8/20 µs, 1 Time	2000 A
	8/20 µs, 10 Times	1000 A
Impulse Life	8/20 µs, 100 A	
	50 Hz, 1 Sec	
DC Holdover Voltage	<150 ms	135 V
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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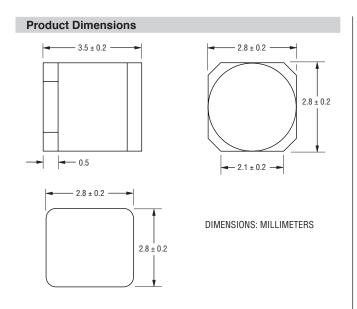
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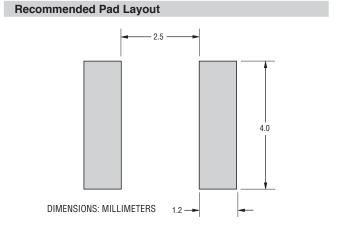
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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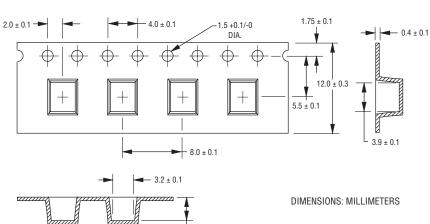


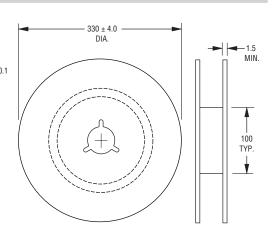
How to Order	
	2003 - xx - SM - RP LF
Model Number Designator ————	
Voltage (Divided by 10)————	
Surface Mount —	
Packaging — RP = Reelpack	
RoHS Compliancy LF = RoHS Compliant Product	

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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