

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	300 operations
Alternating Discharge Current	50 Hz, 1 Sec	1 A
DC Holdover Voltage	<150 ms	135 V
	1 MHz	
Operating Temperature		40 °C to +90 °C
Moisture Sensitivity Level		1
ESD Classification (HBM)		6

Notes:

• UL Recognized component, UL File E153537.

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

Specifications are subject to change without notice.

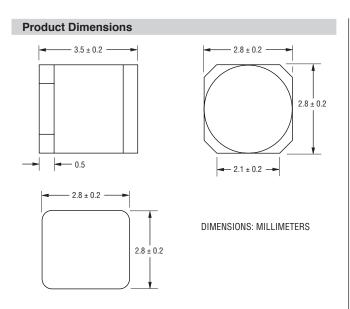
Users should verify actual device performance in their specific applications.

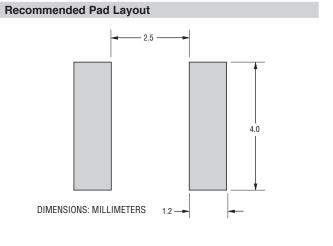
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^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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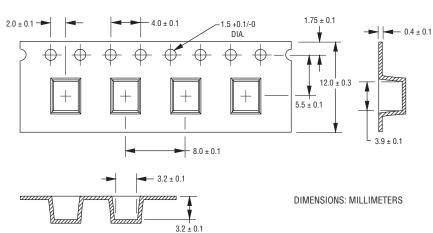


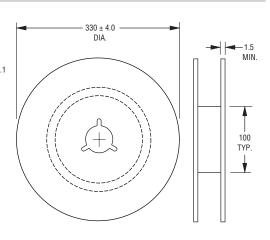
How to Order 2003 - xx - SM - RP LF Model Number Designator Voltage (Divided by 10) Surface Mount Packaging RP = Reelpack RoHS Compliancy LF = RoHS Compliant Product

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.





REV. A 10/17

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Users should verify actual device performance in their specific applications.

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.