ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	2003-23-SM-RPLF
Manufacturer:	Bourns Inc.
Package:	Tape & Reel (TR), Cut Tape (CT)
Availability:	Please confirm with sales

Product Page:

https://antrexco.com/product/details/bourns-inc/2003-23-sm-rplf.html

Request a Quote:

Submit RFQ for this part

Scan for product page

Contact Information

Email: info@antrexco.com

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Website: https://antrexco.com

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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.

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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 1000V/µs	 600 V 700 V	 600 V 700 V	 600 V 700 V	 600 V 700 V	 600 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 1000V/µs	 600 V 700 V	 600 V 700 V	 600 V 800 V	 700 V 800 V	 900 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 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
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.

BOURNS®

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Email: americus@bourns.com

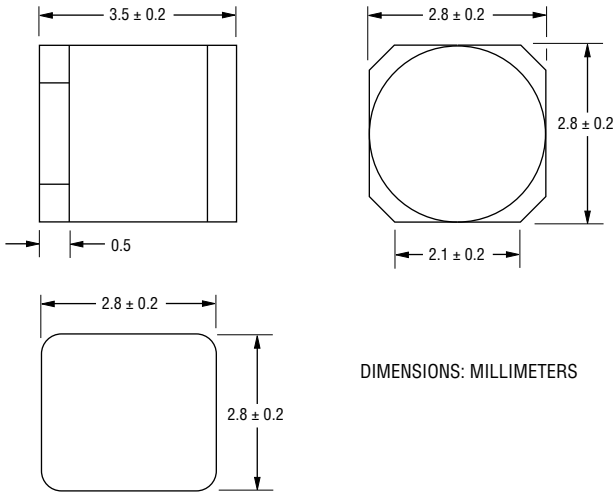
www.bourns.com

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

2003 Series Gas Discharge Tube Surge Protector

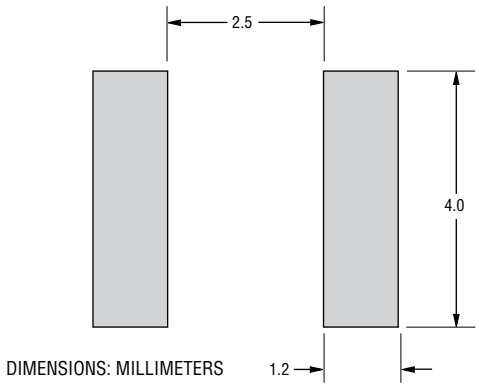
BOURNS®

Product Dimensions



DIMENSIONS: MILLIMETERS

Recommended Pad Layout



DIMENSIONS: MILLIMETERS

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

How to Order

2003 - xx - SM - RP LF

Model Number Designator

Voltage (Divided by 10)

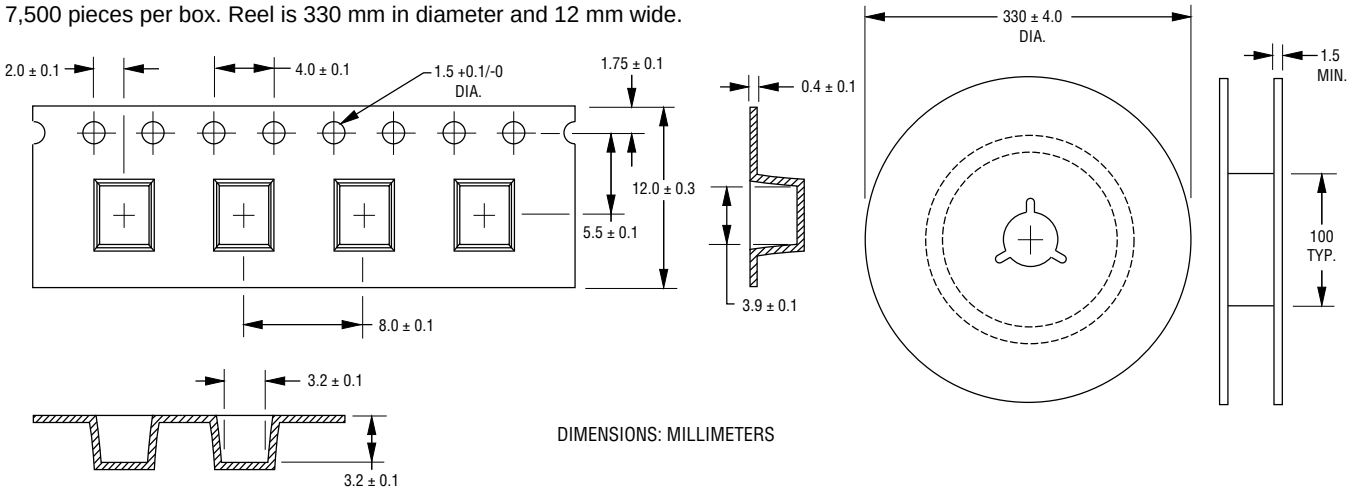
Surface Mount

Packaging
RP = Reelpack

RoHS Compliancy
LF = RoHS Compliant Product

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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