

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Size: 5 mm diameter, 7.3 mm length
- Very fast acting
- Small size
- Stable breakdown throughout life
- Designed to operate with TBU® devices
- RoHS compliant* versions available
- ¶ UL Recognized

Applications

- Telecommunications
- Industrial electronics
- Avionics

2030-xxT-SM Series - Fast Acting 3-Electrode Miniature Gas Discharge Tube

Characteristics

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

Characteristic	Model No.		
	2030-23T	2030-42T	
Minimum DC Sparkover (100 V/s) Throughout Service Life	185 V	360 V	
Maximum Impulse Sparkover (1) (5 kV/µs) Throughout Service Life	650 V	850 V	

⁽¹⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Arc Voltage	50 V / 100 V 10 mA>1 A	~ 10 V
Capacitance DC Holdover Voltage (Network Ap	1 MHzplied per ITU-T K.12)	<1 pF
2030-23T 2030-42T	80 V135 V	<150 ms <150 ms
	8/20 µs, 4 kA	
	2/10 μs, 6 kV, 500 A	10 operations (2)
AC Service Life	600 V, 1 Arms, 0.2 sec	
Operating Temperature Range Storage Temperature Range		-40 °C to +90 °C 55 °C to +90 °C

Notes

Applications

Port Protection	GDT Device P/N	TBU® Device P/N
CanBus	2030-23T-SM-RPLF	TBU-CA065-100-WH
RS232	2030-23T-SM-RPLF	TBU-CA065-200-WH
RS422	2030-23T-SM-RPLF	TBU-CA065-200-WH
RS485	2030-23T-SM-RPLF	TBU-CA065-200-WH
RS485	2030-42T-SM-RPLF	TBU-CA085-200-WH
SDI	2030-23T-SM-RPLF	TBU-CA065-100-WH

[&]quot;TBU" is a registered trademark of Bourns, Inc. in the United States and other countries.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

 ⁽²⁾ The rated discharge current is the total current equally divided between each line to ground and operation(s) are performed in both polarities. The polarity of lightning surge tests should be reversed between consecutive surges.
 (3) Per IEC 61643-21.

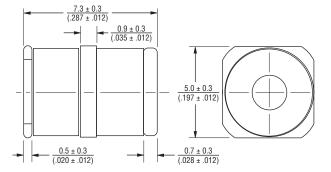
[•] At delivery AQL 0.65 Level II, DIN ISO 2859.

[•] Bourns recommends reflowing surface mount devices per IPC/JEDEC J-STD-020 rev D.

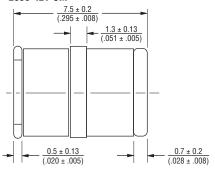
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Product Dimensions

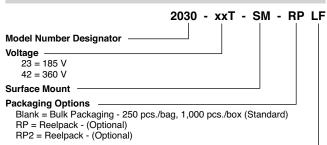
2030-23T-SM



2030-42T-SM



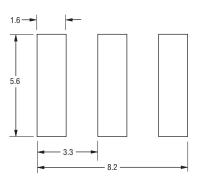
How to Order



RoHS Compliant Option

Blank = Standard Product LF = RoHS Compliant Product

Recommended Pad Layout



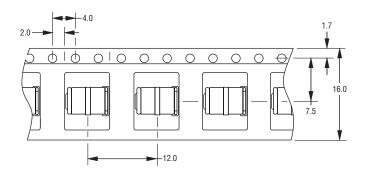
DIMENSIONS: MILLIMETERS

Packaging Specifications

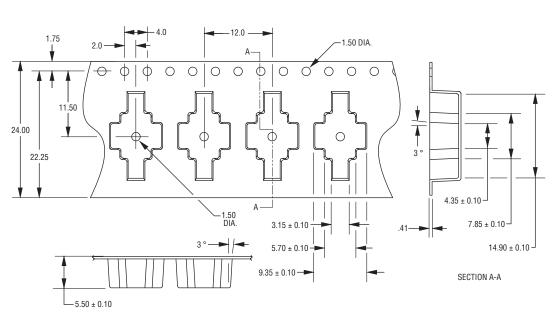
	Standard Packaging Quantity			
Model	Bulk (Bag)	Tray	Вох	Reel
2030-xxT-SM	250		1000	
2030-xxT-SM-RP				500
2030-xxT-SM-RP2				500

The optional -RP & -RP2 reels are 330 mm in diameter. The -RP reelpack is 18 mm wide. The -RP2 reelpack is 26 mm wide.

-RP



-RP2



DIMENSIONS: MILLIMETERS

Unless otherwise specified, tolerances in decimals are .X \pm 0.3, .XX \pm 0.15 for lengths in millimeters and ± 1 ° for degrees.

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