

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: 8 mm diameter, 10 mm length
- Balanced and symmetrical TRIGARD® design
- High surge current rating
- Stable breakdown throughout life
- Long life
- Fail-Short available
- RoHS compliant*



Applications

- Telecommunications electronics
- Industrial electronics
- Consumer electronics

2028 Series Long Life Heavy-Duty 3-Electrode Gas Discharge Tube

Characteristics

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

Characteristic	Model No.			
	2028-23	2028-25	2028-35	2028-42
DC Sparkover ±20 % @ 100 V/s	230 V	250 V	350 V	420 V
Impulse Sparkover (1) 100 V/µs (Typical/99 %) 1000 V/µs (Typical/99 %)	< 450 V/550 V < 650 V/750 V	< 450 V/550 V < 650 V/750 V	< 700 V/800 V < 850 V/950 V	< 850 V/950 V < 1050 V/1150 V

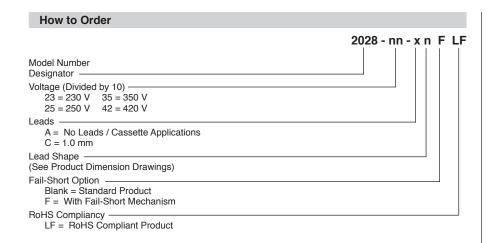
⁽¹⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Insulation Resistance (IR)	. 1000 V/µs	-1 GΩ
	. 10 mA	
Arc Voltage	1 A	10 V
	135 V<	
Impulse Discharge Current (3)	30,000 A, 8/20 μs	10 operations 1 operation
Operating Temperature	. 20 Arms, 1 second	10 operations -55 to +85 °C

An optional Switch-Grade Fail-Short device is available. The optional Fail-Short assembly will activate at a temperature of 215 °C – 217 °C to provide a high conductive path to ground in case of a thermal overload. GDTs equipped with the optional Fail-Short device should be soldered either manually at a temperature that is below the activation temperature of the Fail-Short mechanism, or using a selective soldering process that does not exceed 210 °C.

Notes:

- (2) Network applied.
- (3) The Rated Impulse Discharge Current for TRIGARD® GDTs is the total current equally divided between each line to ground.
- · At delivery AQL 0.65 Level II, DIN ISO 2859.

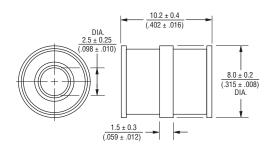


^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

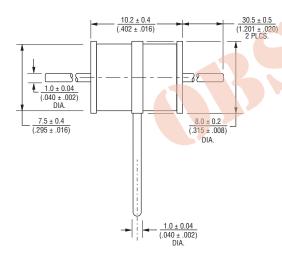
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Product Dimensions

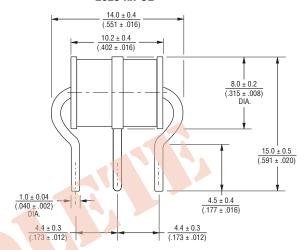
2028-xx-A



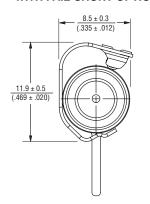
2028-xx-C 1.0 mm dia. lead wire



2028-xx-C2



2028-xx-C2F WITH FAIL-SHORT OPTION



DIMENSIONS: $\frac{MM}{(INCHES)}$

Packaging Specifications

	Standard Packaging Quantity				
Model	Bulk (Bag)	Tray	Box		
2028-XX-A	250		1000		
2028-XX-C	50		300		
2028-XX-C2		100	1000		
2028-XX-C2F		100	1000		

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