

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

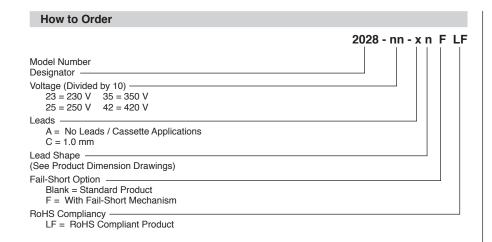
⁽¹⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Insulation Resistance (IR)	. 1000 V/μs	>1 GΩ
Capacitance	. 1 MHz	< 2 pF ~ 70 V
Arc Voltage	. 1 A	~ 10 V
DC Holdover Voltage (2)	135 V	< 150 ms
Impulse Discharge Current (3)	. 30,000 A, 8/20 μs	10 operations 1 operation 300 operations
Operating Temperature	. 20 Arms, 1 second	10 operations -55 to +85 °C 40 / 90 / 21 1

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.

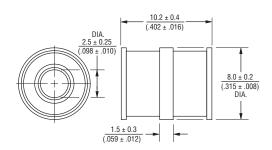


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

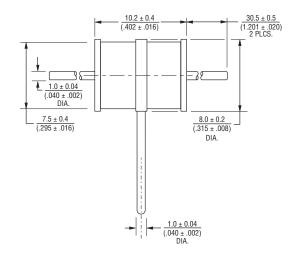
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Product Dimensions

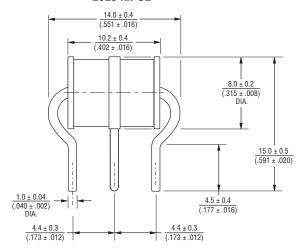
2028-xx-A



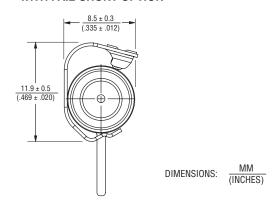
2028-xx-C 1.0 mm dia. lead wire



2028-xx-C2



2028-xx-C2F WITH FAIL-SHORT OPTION



Packaging Specifications

	Standar	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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