

Features

- 8 mm diameter, 6 mm long
- UL Recognized **51**°
- Custom configurations available
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant* versions available

Additional Information

Click these links for more information:











PRODUCT TECHNICAL INVENTORY SAMPLES SELECTOR LIBRARY SELECTOR

2027 Series - 2-Pole Gas Discharge Tube

Characteristics

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

Characteristic		Model No.				
Characteristic	2027-07	2027-09	2027-15	2027-20	2027-23	2027-25
DC Sparkover ±15 % (±20 % for Models 2027-07 & 2027-09) @ 100 V/s	75 V	90 V	150 V	200 V	230 V	250 V
Impulse Sparkover (1) 100 V/µs 1000 V/µs	300 V 500 V	300 V 500 V	350 V 575 V	400 V 600 V	450 V 675 V	475 V 700 V

Characteristic		Model No.					
Criaracteristic	2027-30	2027-35	2027-40	2027-42	2027-47	2027-60	
DC Sparkover ±15 % @ 100 V/s	300 V	350 V	400 V	420 V	470 V	600 V	
Impulse Sparkover (1)							
100 V/μs	550 V	600 V	650 V	675 V	725 V	850 V	
1000 V/μs	800 V	875 V	925 V	950 V	1000 V	1100 V	

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

Insulation Resistance	100 V (50 V for Models 2027-07 and 2027-09)	>10 ¹⁰ Ω
Glow Voltage	10 mA	~70 V
Arc Voltage	> 1A	~10 V
Glow-Arc Transition Current		< 0.5 A
Capacitance	1 MHz	<1 pF
DC Holdover Voltage (2)	135 V, (52 V for Models 2027-07 and 2027-09,	
	80 V for Model 2027-15)	<150 ms
Impulse Discharge Current	25000 A, 8/20 µs ⁽³⁾	1 operation minimum
	10000 A, 8/20 μs	10 operations
	2000 A, 10/350 μs	2 operations
	500 A, 10/1000 μs	400 operations
	100 A, 10/1000 μs or 10/700 μs	1000 operations
Alternating Discharge Current	65 Arms, 11 cycles (3)	1 operation minimum
	10 Arms, 1 s	10 operations
Operating and Storage Temperature		55 to +125 °C
Climatic Category (IEC 60068-1)		55/125/21
Moisture Sensitivity Level		. 1
ESD Classification (HBM)		. N/A

Notes:

- UL recognized component, UL File E153537.
- Model number marking on tube: 27-xxxV.
- Sparkover limits ±20 % after life, IR >108 Ω (-25 %, +30 % for Models 2027-07, 2027–09 and 2027–60).
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- (2) Network applied.
- (3) DC Sparkover may exceed ±20 % after discharge, but will continue to protect without venting.



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

Applications

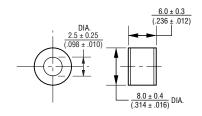
- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

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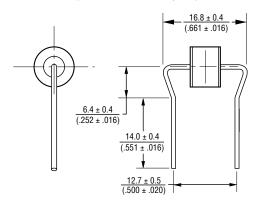
BOURNS

Product Dimensions

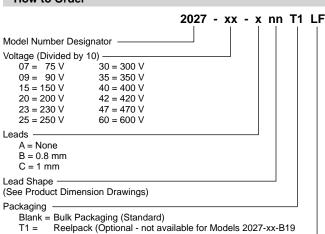
2027-XX-A



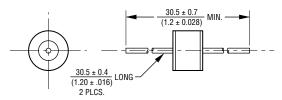
2027-XX-B19 — 0.8 ± 0.04 mm (0.032 ± 0.002 in.) dia. lead wire (Not available in reelpack)



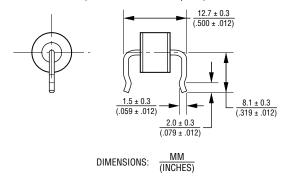
How to Order



2027-XX-B — $0.8 \pm .04$ mm (0.032 ± 0.002 in.) dia. lead wire 2027-XX-C — $1.0 \pm .04$ mm (0.039 ± 0.002 in.) dia. lead wire



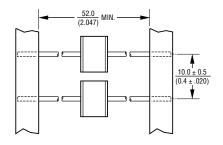
2027-XX-B10 — $0.8 \pm .04$ mm (0.032 ± 0.002 in.) dia. lead wire 2027-XX-C10 — $1.0 \pm .04$ mm (0.039 ± 0.002 in.) dia. lead wire (Not available in reelpack)



Packaging Specifications

	Standard Packaging Quantity				
Model	Bulk (Bag)	Tray	Box	Reel	
2027-XX-A	250		1000		
2027-XX-B	100		500		
2027-XX-C	100		500		
2027-XX-B10		100	1000		
2027-XX-C10		100	1000		
2027-XX-B19	100		500		
2027-XX-C19	100		500		
2027-XX-BT1				1000	
2027-XX-CT1				1000	

2027-XX-BT1 — 0.8 ± 0.04 mm (0.032 ± 0.002 in.) dia. lead wire Reel is 14-inches in diameter and 2.75-inches wide.



REV. B 12/20

RoHS Compliant Option

Blank = Standard Product LF = RoHS Compliant Product

Specifications are subject to change without notice.

and 2027-xx-B10/C10)

Users should verify actual device performance in their specific applications.

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