

Features

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

Applications

- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics
- Automotive, aircraft, military electronics

2027 Series - 2-Pole Gas Discharge Tube

Characteristics

Test Methods per ITU-T (CCITT) K.12, IEEE C62.31, RUS PE-80, Telcordia GR 1361

Characteristic		Model No.				
	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						
100 V/μs	300 V	300 V	350 V	400 V	450 V	475 V
1000 V/μs	500 V	500 V	575 V	600 V	675 V	700 V

Characteristic		Model No.					
	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							
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	

Insulation Resistance	100 V (50 V for Models 2027-07 and 2027-09)	>10 ¹⁰ Ω
Glow Voltage	10 mA	~70 V
	> 1A	
Glow-Arc Transition Current		<0.5 A
Capacitance	1 MHz	<1 pF
DC Holdover Voltage**	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***	1 operation minimum
	10000 A, 8/20 μs	
	2500 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***	1 operation minimum
	10 Arms, 1 s	
Operating Temperature		55 to +85 °C
Climatic Category (IEC 60068-1)		40/90/21

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.

*** DC Sparkover may exceed ±20 % after discharge, but will continue to protect without venting.

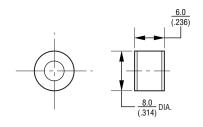
^{**} Network applied.

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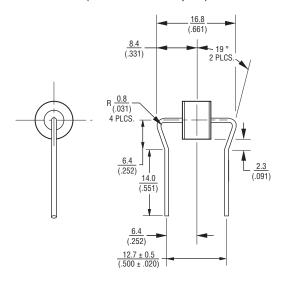
BOURNS

Product Dimensions

2027-XX-A



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

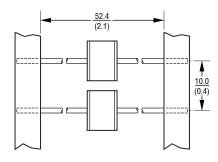


Packaging Specifications

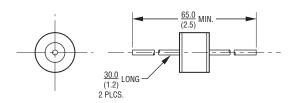
Model 2027-xx-nn ships standard bulk pack, 100 pcs./bag.

The optional reelpack (-BT1) contains 1,000 pcs./reel. Reel is 14 " in diameter and 2.75 " wide.

2027-XX-BT1 - 0.8 mm (0.032 in.) dia. lead wire

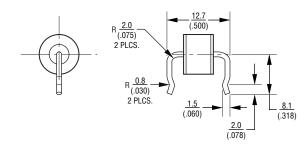


2027-XX-B — 0.8 mm (0.032 in.) dia. lead wire 2027-XX-C — 1.0 mm (0.040 in.) dia. lead wire



2027-XX-B10 — 0.8 mm (0.032 in.) dia. lead wire 2027-XX-C10 — 1.0 mm (0.040 in.) dia. lead wire

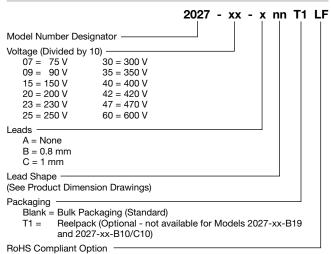
(Not available in reelpack)



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

How to Order

Blank = Standard Product LF = RoHS Compliant Product



REV. 07/27/11

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