

Features

- Size: 8 mm diameter, 6 mm length
- Low capacitance
- High insulation resistance
- RoHS compliant*
- **91**[®] UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2045 Series Medium Duty 2-Electrode Gas Discharge Tube

Characteristics

Test Methods per ITU-T (CCITT) K.12 and IEEE C62.31.

Characteristic	Model No.						
Characteristic	2045-07	2045-09	2045-12	2045-13	2045-14	2045-23	
DC Sparkover ±30 % @ 100 V/s	75 V	90 V	120 V	130 V	145 V	230 V	
Impulse Sparkover (1) 100 V/µs 1000 V/µs	< 500 V < 600 V	< 500 V < 600 V	< 500 V < 700 V				

Characteristic	Model No.						
Characteristic	2045-25	2045-30	2045-35	2045-40	2045-47		
DC Sparkover ±30 % @ 100 V/s	250 V	300 V	350 V	400 V	470 V		
Impulse Sparkover (1) 100 V/µs 1000 V/µs	< 500 V < 700 V	< 700 V < 900 V	< 700 V < 900 V	< 800 V < 1000 V	< 900 V < 1100 V		

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

Insulation Resistance (IR) (2)	50 / 100 / 250 Vdc	> 10 GΩ
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1 A	~ 10 V
Maximum Capacitance	1 MHz	. < 1.5 pF
	15,000 A, 8/20 µs	
	10,000 A, 8/20 µs	. 10 operations
Alternating Discharge Current	5 A, 50 Hz, 1 second	. 1 operation
	65 A, Single, 9 cycles	. 1 operation
Impulse Life	100 A 10/1000 µs	. 500 operations
Storage Temperature		40 to +150 °C
Operating Temperature		30 to +85 °C

Notes

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859.

²⁾ DC Breakdown Voltage DC Measuring Voltage

75–90 V 50 V 120–400 V 100 V 470 250 V

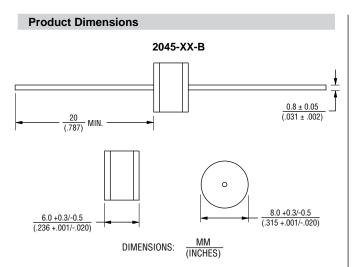
3) DC Breakdown Voltage DC Holdover Voltage

75–145 V 52 V 230 V 80 V 250 V 135 V 300–470 V 150 V



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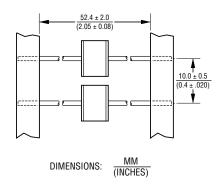


Note: Custom leadforms available - please contact Bourns for details.

Packaging Specifications

The reelpack (-BT1LF) contains 500 pieces per reel. Reel is 330 mm in diameter and 68 mm wide. Two reels per box (1K units).

2045-XX-BT1LF - 0.8 mm (0.032 in.) dia. lead wire



How to Order 2045 - xx - B LF Model Number Designator Voltage -07 = 75 V 25 = 250 V09 = 90 V30 = 300 V12 = 120 V35 = 350 V13 = 130 V 40 = 400 V14 = 145 V 47 = 470 V 23 = 230 VLeads B = 0.8 mm straight leads Packaging T1 = Reelpack (Optional) - 500 pcs./reel RoHS Compliancy

LF = RoHS Compliant Product

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