

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	2049-40-BT1LF
Manufacturer:	Bourns Inc.
Package:	Tape & Reel (TR), Cut Tape (CT)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/2049-40-bt1lf.html>

Request a Quote:

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Contact Information

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WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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New & Original Components

Supplier verification and packaging condition review

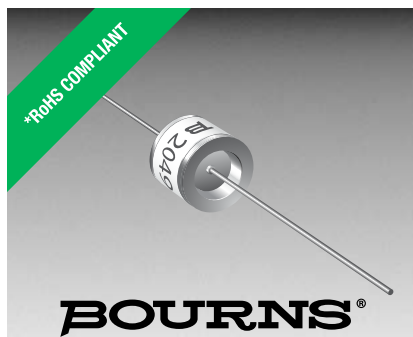
CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Features

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

Additional Information

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2049 Series Medium Duty 2-Electrode Gas Discharge Tube

Characteristics

Test Methods per ITU-T K.12 and IEC 61643-311.

Characteristic	Model No.					
	2049-07	2049-09	2049-12	2049-13	2049-14	2049-23
DC Sparkover $\pm 30\%$ @ 100 V/s	75 V	90 V	120 V	130 V	145 V	230 V
Impulse Sparkover ⁽¹⁾						
100 V/ μ s	< 500 V	< 500 V	< 500 V	< 500 V	< 500 V	< 500 V
1000 V/ μ s	< 600 V	< 600 V	< 700 V	< 700 V	< 700 V	< 700 V

Characteristic	Model No.					
	2049-25	2049-30	2049-35	2049-40	2049-47	2049-60
DC Sparkover $\pm 30\%$ @ 100 V/s	250 V	300 V	350 V	400 V	470 V	600 V
Impulse Sparkover ⁽¹⁾						
100 V/ μ s	< 500 V	< 700 V	< 700 V	< 800 V	< 900 V	< 1100 V
1000 V/ μ s	< 700 V	< 900 V	< 900 V	< 1000 V	< 1100 V	< 1300 V

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

Insulation Resistance (IR) ⁽²⁾	50 / 100 / 250 Vdc	> 10 G Ω
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 1 A
Maximum Capacitance	1 MHz	< 1.5 pF
Impulse Discharge Current	20,000 A, 8/20 μ s	1 operation
	15,000 A, 8/20 μ s	10 operations
Alternating Discharge Current	20 A, 50 Hz, 1 sec.	1 operation
	65 A, Single, 9 cycles	1 operation
Impulse Life	100 A 10/1000 μ s	500 operations
Operating Temperature		-30 to +85 °C
Storage Temperature		-40 to +150 °C
DC Holdover Voltage ⁽³⁾		< 150 ms
Climatic Category (IEC 60068-1)		40 / 90 / 21

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
470–600 V	250 V

⁽³⁾ DC Breakdown Voltage	DC Holdover Voltage
75–145 V	52 V
230 V	80 V
250 V	135 V
300–600 V	150 V



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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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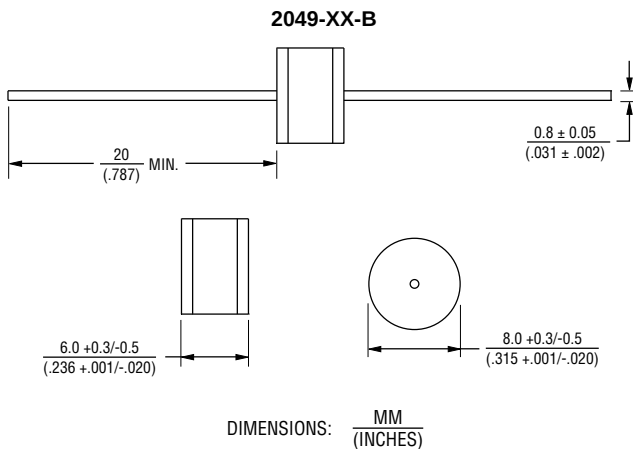
Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2049 Series Medium Duty 2-Electrode Gas Discharge Tube

BOURNS®

Product Dimensions



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

How to Order

2049 - xx - B LF

Model Number Designator _____

Voltage _____

07 = 75 V	25 = 250 V
09 = 90 V	30 = 300 V
12 = 120 V	35 = 350 V
13 = 130 V	40 = 400 V
14 = 145 V	47 = 470 V
23 = 230 V	60 = 600 V

Leads _____

B = 0.8 mm straight leads

Packaging _____

Blank = Bulk Packaging (Standard) - 100 pcs./tray; 500 pcs./box

T1 = Reelpack (Optional) - 500 pcs./reel

Plating _____

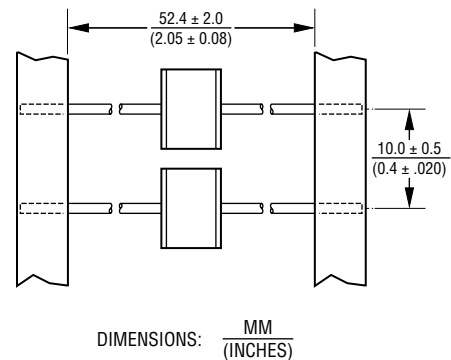
LF = RoHS Compliant Product

Packaging Specifications

Model 2049-xx-BLF ships standard bulk pack, 100 pieces per tray; 5 trays per box (500 units).

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

2049-XX-BT1LF — 0.8 mm (0.032 in.) dia. lead wire



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