

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2026-42-C2LF

Manufacturer: Bourns Inc.

Package: Tube

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/2026-42-c2lf.html>

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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

- Balanced TRIGARD®
- Approximately 8 mm diameter, 11 mm long
- UL Recognized 
- Custom configurations available
- High surge current rating
- Stable breakdown throughout life
- RoHS compliant*

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2026 Series – 3-Pole Gas Discharge Tube

Characteristics

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

Characteristic	Model No.						
	2026-07	2026-09	2026-15	2026-20	2026-23	2026-25	2026-26
DC Sparkover $\pm 20\%$ @ 100 V/s ⁽¹⁾	75 V	90 V	150 V	200 V	230 V	250 V	260 V
Impulse Sparkover ⁽²⁾							
100 V/ μ s	275 V	275 V	350 V	425 V	450 V	475 V	475 V
1000 V/ μ s	700 V	600 V	575 V	625 V	650 V	700 V	700 V

Characteristic	Model No.					
	2026-30	2026-35	2026-40	2026-42	2026-47	2026-60
DC Sparkover $\pm 20\%$ @ 100 V/s ⁽¹⁾	300 V	350 V	400 V	420 V	470 V	600 V
Impulse Sparkover ⁽²⁾						
100 V/ μ s	550 V	625 V	675 V	725 V	800 V	925 V
1000 V/ μ s	775 V	875 V	925 V	1000 V	1100 V	1250 V

⁽¹⁾ In ionized mode.

⁽²⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Impulse Transverse Delay	1000 V/ μ s	< 75 ns
Insulation Resistance	100 V (50 V for Model 2026-07 & 2026-09)	> $10^{10} \Omega$
Glow Voltage	10 mA	~ 70 V
Arc Voltage	1A	~ 10 V
Glow-Arc Transition Current		< 0.5 A
Capacitance	1 MHz	< 2 pF
DC Holdover Voltage ⁽³⁾	>135 V, (52 V for Model 2026-07 & 2026-09,	< 150 ms
	80 V for Model 2026-15)	
Impulse Discharge Current	20000 A, 8/20 μ s ⁽⁴⁾	10 operations
	5000 A, 10/350 μ s	1 operation
	1000 A, 10/1000 μ s	400 operations
Alternating Discharge Current	130 Arms, 11 cycles ⁽⁴⁾	1 operation minimum
	20 Arms, 1 s	10 operations
Operation and Storage Temperature		-40 to +90 °C
Climatic Category (IEC 60068-1)		40/ 90/ 21
Moisture Sensitivity Level		1
ESD Classification (HBM)		N/A

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:

- Model number marking on tube: 26-xxx V.
- The rated discharge current for TRIGARD® Gas Discharge Tubes is the total current equally divided between each line to ground.
- Sparkover limits after life $\pm 25\%$, IR $> 10^8 \Omega$ (-25 %, +30 % for Model 2026-07, 2026-09 and 2026-60).
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.
- At delivery AQL 0.65 Level II, DIN ISO 2859

⁽³⁾ Network applied.

⁽⁴⁾ DC Sparkover may exceed $\pm 25\%$ after discharge, but will continue to protect without venting.



CALIFORNIA WARNING: Can expose you to lead,
a carcinogen and reproductive toxicant.
See 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
- Industrial electronics
- Commercial electronics
- Consumer electronics

2026 Series – 3-Pole Gas Discharge Tube

BOURNS®

Product Dimensions (additional lead form configurations available upon request)

2026-XX-A1



2026-XX-C2



2026-XX-C3



2026-XX-C4



2026-XX-C

1.0 ± 0.08 mm (.039 ± .002 in.) dia. lead wire



**FAIL-SHORT CONFIGURATION
2026-XX-C2F SHOWN**



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

UNITS WITH LEADS ARE BASED ON THE
2026-XX-A1 BODY.

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2026 Series – 3-Pole Gas Discharge Tube

BOURNS®

How to Order

2026 - nn - x n F LF

Model Number

Designator _____

Voltage (Divided by 10) _____

07 = 75 V 30 = 300 V
09 = 90 V 35 = 350 V
15 = 150 V 40 = 400 V
20 = 200 V 42 = 420 V
23 = 230 V 47 = 470 V
25 = 250 V 60 = 600 V
26 = 260 V

Leads _____

A = None
C = 1 mm

Lead Shape _____

(See Product Dimension Drawings)

Fail-Short Option _____

Blank = Standard Product
F = With Fail-Short Mechanism

RoHS Compliant Designator _____

LF = RoHS Compliant Product

Packaging Specifications

Model	Standard Packaging Quantity		
	Bulk (Bag)	Tray	Box
2026-XX-A1	250		1000
2026-XX-C	50		300
2026-XX-C2		100	1000
2026-XX-C3		100	1000
2026-XX-C4		100	1000

Agency Recognition / Industry Standards

Agency	References
	UL 497B Recognized Component, Category QVGQ2, File E153537
	UL 497 Recognized Component, Category QGVV2, File E53117
Telcordia GR-974-CORE/ GR-1361-CORE	2026 Series devices, as applicable, are tested to GR requirements for primary protectors

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Switch-Grade Fail-short Device Shorting Curve 2026-XX-XF



ELTGS = Each Line to Ground Simultaneously

NOTE: When using a GDT fail-short device, it is imperative that all components associated and connected to the GDT with failsafe be tested in their respective completely integrated environment (finished product) to assure desired operation.

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