

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** 2026-07-C3LF  
**Manufacturer:** Bourns Inc.  
**Package:** Tube  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/bourns-inc/2026-07-c3lf.html>

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## Contact Information

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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.

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## 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 <sup>(1)</sup> | 75 V      | 90 V    | 150 V   | 200 V   | 230 V   | 250 V   | 260 V   |
| Impulse Sparkover <sup>(2)</sup>                 |           |         |         |         |         |         |         |
| 100 V/ $\mu$ s                                   | 275 V     | 275 V   | 350 V   | 425 V   | 450 V   | 475 V   | 475 V   |
| 1000 V/ $\mu$ 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 <sup>(1)</sup> | 300 V     | 350 V   | 400 V   | 420 V   | 470 V   | 600 V   |
| Impulse Sparkover <sup>(2)</sup>                 |           |         |         |         |         |         |
| 100 V/ $\mu$ s                                   | 550 V     | 625 V   | 675 V   | 725 V   | 800 V   | 925 V   |
| 1000 V/ $\mu$ s                                  | 775 V     | 875 V   | 925 V   | 1000 V  | 1100 V  | 1250 V  |

<sup>(1)</sup> In ionized mode.

<sup>(2)</sup> Impulse Sparkover voltage is defined as typical values of distribution.

|                                    |                                                                    |                     |
|------------------------------------|--------------------------------------------------------------------|---------------------|
| Impulse Transverse Delay           | 1000 V/ $\mu$ 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 <sup>(3)</sup> | >135 V, (52 V for Model 2026-07 & 2026-09, 80 V for Model 2026-15) | < 150 ms            |
| Impulse Discharge Current          | 20000 A, 8/20 $\mu$ s <sup>(4)</sup>                               | 10 operations       |
|                                    | 5000 A, 10/350 $\mu$ s                                             | 1 operation         |
|                                    | 1000 A, 10/1000 $\mu$ s                                            | 400 operations      |
| Alternating Discharge Current      | 130 Arms, 11 cycles <sup>(4)</sup>                                 | 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

<sup>(3)</sup> Network applied.

<sup>(4)</sup> 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](http://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

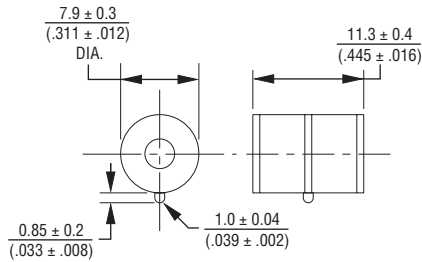
- Telecommunications
- Industrial electronics
- Commercial electronics
- Consumer electronics

## 2026 Series – 3-Pole Gas Discharge Tube

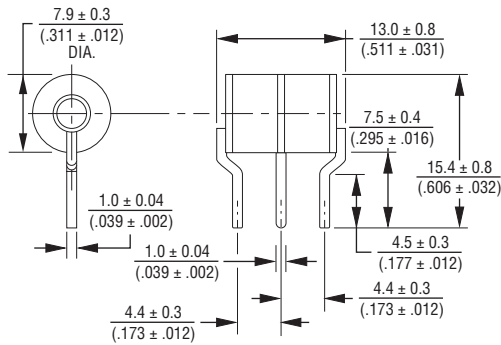
**BOURNS®**

### Product Dimensions (additional lead form configurations available upon request)

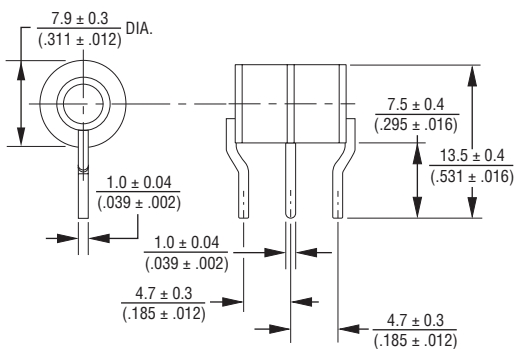
**2026-XX-A1**



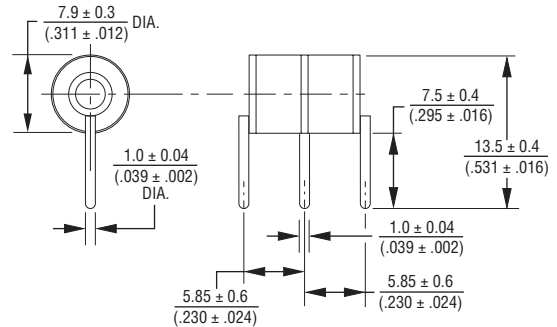
**2026-XX-C2**



**2026-XX-C3**



**2026-XX-C4**

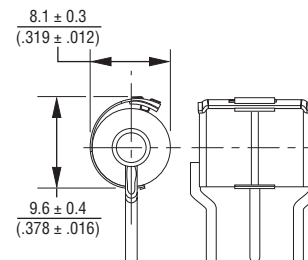


**2026-XX-C**

**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

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### 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 QVGV2, File E53117                                 |
| <b>Telcordia</b><br><b>GR-974-CORE/</b><br><b>GR-1361-CORE</b>                      | 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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