

Features

- Low capacitance
- Balanced TRIGARD®
- Common chamber, 3-element GDT protection
- Switch-Grade Fail-Short device for fire safety
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)



BOURNS

2377-35-G Balanced Gas Tube Station Protector

Bourns® 2377-35-G protectors are ideal for economical protection of broadband telecom circuits at the subscriber premises against lightning surges, power-cross conditions and ground potential rises. Key features and benefits of this 356-style protector are:

- Low capacitance Low loss on broadband applications.
- · Balanced protection superior protection and improved broadband performance compared to conventional dual 2-element GDT
- Switch-Grade Fail-Short device provides safer and more reliable thermal protection than solder pellet or burn through types of fail-short mechanisms.

The protector element consists of Bourns' own balanced, heavy-duty rated, 3-electrode Gas Discharge Tube (GDT). The GDT is UL Recognized to the "Gas Tube Seal Test Program", thus eliminating a key issue of conventional GDT protectors with Air-Back-Up protection. Contamination of the BUG is historically the most common failure mode in older protector styles. Proprietary advanced technology in the GDT design helps provide exceptional energy handling and a long life. A patented Switch-Grade Fail-Short mechanism provides an extra measure of safety against thermal overload. The GDT mechanism is housed in a fire-resistant body with binding posts for multiple wiring connections. The IDC version, with environmental sealant, provides additional ease of installation and protection against corrosion.

The 2377-35-G will fit Bourns and most manufacturers' network interface devices and can be used universally for POTS and broadband systems such as ADSL, ADSL2+, VDSL and VDSL2. It exceeds all CAT 5 requirements.

Characteristics

Test Methods per IEEE C62.31, UL 497, RUS PE-80, CSA C22.2, Telcordia GR 974 and 1361.

DC Breakdown		300-500 V
AC Breakdown	60 Hz	300-500 V
Impulse Breakdown	100 V/µs	625 V
	1000 V/µs	875 V
Insulation Resistance	100 Vdc	> 1 GΩ
Insertion Loss		
Return Loss		
Capacitance Tip or Ring to Ground - Binding Post		
Capacitance Tip or Ring to Ground - IDC	1 MHz	7.5 pF typical
Impulse Reset 1	52 V, 260 mA	< 10 ms
	135 V, 200 mA	< 10 ms
	150 V, 200 mA	< 150 ms
Impulse Life Characteristics 3	10 A, 10/1000 µs	> 3000 operations
(Tip and Ring to Ground, Simultaneously)	100 A, 10/1000 µs	> 300 operations
	300 A, 10/1000 μs	
	500 A, 10/1000 μs	> 400 operations ²
	2,000 A, 10/250 μs	
	5,000 A, 20/100 μs	> 2 operations
	20,000 A, 8/20 μs	> 1 operation
AC Life Characteristics	0.5 A rms continuous	> 30 seconds
(Tip and Ring to Ground, Simultaneously)	1 A rms, 1 second, 600 ft. cable	> 60 operations
	1 A rms, 1 second, 1 mile cable	> 60 operations
	10 A rms, 1 second	> 5 operations
	65 A rms, 11 cycles	> 1 operation ²
	120 A rms, 0.1 second	
High Current Capability and Thermal Operation(Tip and Ring to Ground, Simultaneously)		> 30 A rms, 15 min.
Storage and Operating Temperature		55 to +85 °C
Moisture Sensitivity Level		
ESD Classification (HBM)		

Notes:

- ¹ Network applied.
- ² Per RUS PE-80.
- ³ Exceeds Telcordia (Bellcore) GR 1361.

Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.



Features (Continued)

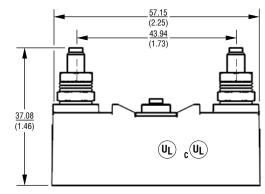
- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843
- c(1) us UL Listed per UL 497 (File: E53117)
- Rugged sealed construction

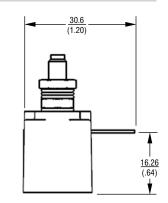
Product Dimensions

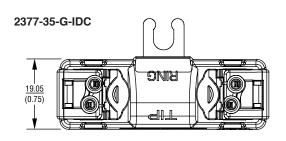
Binding post or optional Insulation Displacement Connectors (IDCs)

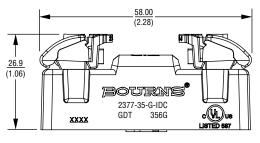
2377-35-G Balanced Gas Tube Station Protector

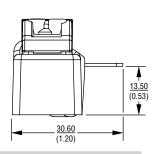
2377-35-G DIMENSIONS: MILLIMETERS (INCHES)



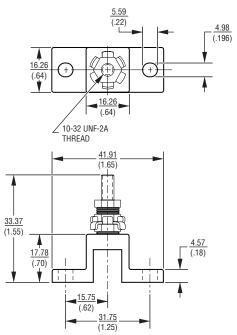








2372-02 Ground Mounting Stud (Order Separately)



REV. I 03/23

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

How To Order

2377-35-G Binding Post Connectors 2377-35-G-IDC Insulation Displacement Connectors

Related Products



80052.....Test Clip for IDC



80053..... Insulation Tool for IDC

BOURNS[®]

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 885 877 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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