

ComProtect® Gas Discharge Tube

Single-Pair Protectors For Series 2 Switching Blocks



ADC's ComProtect® 2/1 CP TP280A1 GDT (Gas Discharge Tube) single-pair protection module, when combined with ADC's LSA-PLUS® Series 2 connectivity, is a high-density system that increases the pair capacity that can be supported in OSP cabinets. The ComProtect GDT system provides up to a 50% space savings over traditional systems utilizing separate cross-connect and protection fields. By reducing the number of connection points, the ComProtect GDT system improves technician productivity and reduces failure rates. The ComProtect GDT module has been designed for protecting high bandwidth circuits, like VDSL2.

Applications

- OSP protected blocks, designed for protecting circuits entering or leaving cabinets
- T1 protected input and output circuits
- Building entrance protection terminal blocks

Features and Benefits:

- Meets applicable GR-1361-CORE, GR-63-CORE, GR-78-CORE, GR-1252-CORE, and SR-NWT-2759 Telcordia standards
- Meets the "High-Speed Digital Networks Operating up to 100 MHz" requirements of Telcordia GR-974-CORE
- Listed to UL 497
- Meets NEBS Level 3 compliance
- Supports VDSL2 transmission
- Quick VDSL2 migration for upgrading from ADSL2+ circuits by simply changing out solid-state ComProtect to ComProtect GDT
- Cross-connection and protection in the same footprint
- Termination Block with integrated protection
- Provides protection to your FTTN network elements against overvoltage surges
- ComProtect utilizes LSA-PLUS technology therefore reducing network failure frequency rates.
- LSA-PLUS technology offers monitoring, look-both-ways testing, without lifting cross-connect jumpers
- Gel filled version available to provide enhanced protection in harsh environments



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Technical Specifications

DC Sparkover	350 V $\pm 20\%$ @ 100V/s ¹
Impulse Sparkover	625 V @ 100V/ μ s 875 V @ 1,000V/ μ s
Insulation Resistance	$> 10^{10} \Omega$ @ 100V
Impulse Discharge Current	40,000 A, 8/20 μ s (1 operation minimum) 20,000 A, 8/20 μ s (>10 operations) 1,000 A, 8/20 μ s (>400 operations)
Alternating Discharge current	130 A _{rms} , 11 cycles (1 operation minimum) 20 A _{rms} , 1s (> 10 operations)
Bit Error Rate (BER)	$< 10^{-7}$
Longitudinal Balance	> 52 dB up to 16 MHz, > 40 dB up to 100 MHz
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Housing material	UL 94 V-0

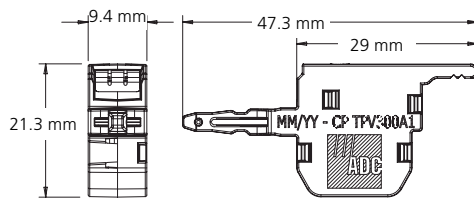
¹ DC Sparkover may exceed $\pm 25\%$ after discharge, but will continue to protect without venting.

INSERTION LOSS

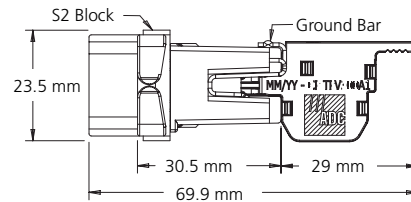
dB	frequency range
< 0.01 dB	up to 16 MHz
< 0.025 dB	16 - 31.25 MHz
< 0.07 dB	31.25 - 42.6 MHz
< 0.15 dB	42.6 - 100 MHz

RETURN LOSS

dB	frequency range
> 37 dB	up to 20 MHz
> 25 dB	20 - 62.5 MHz
> 19.5 dB	62.5 - 100 MHz



ComProtect dimensions



Inserted ComProtect

Ordering Information

Description	Catalog Number
ComProtect GDT 2/1 CP TP280A1 - Quantity: 1 (Pack of 100)	PRO-6659 1 509-30B
Gel ComProtect GDT 2/1 CP TP280G1 - Quantity: 1 (Pack of 100)	PRO-6659 1 509-30G



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