Telephone Line Surge Suppressor

TLP

TPD Power Filter absorbs, dissipates and removes harmful transient voltages traveling on AC & DC power circuits reducing lockups, glitches and reprogramming issues.

Improve power quality for your sophisticated electronic loads. Rebooting, reprogramming and replacing processors, circuit boards and components can be a never-ending battle. Occasional glitches in the system are as simple as equipment locking up or turning on and off without user input to wide spread damage during a severe lightning storm. Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls. Protecting phone lines entering the home as well as protecting phone lines running between buildings saves money by protecting your systems from lightning. It also increases safety by protecting everyone using the phones.

AV Racks
Network Racks
Automation
Lighting Systems
Landscape Lighting
Building Management
Remote Dialer
Gates

Total Protection Design offers a broad range of surge suppression products to extend the life and reliability of electronic equipment.

SPECIFICATIONS

Maximum Rated Surge Current: 2kA per pair

Applications: All major telephone line protocols including dial-up (POTS), ADSL, HSDL, ISDN, T1/E1, DDS, leased, and dedicated lines.

Design: Multistage hybrid fail-safe design

Warranty: 10-Year Unlimited Free Replacement

Safety Listing: UL Listed 497A as Secondary Telephone Protector

Strength: 2kA per pair

Maximum Data Rate: 16Mpbs

Mode of Protection: All modes: tip-ring, tip-ground, & ring-ground

Response Time: < 1 nanosecond

Number of Protected Circuit: 1, 2, 4, 5

Series Resistance: <1 ohm

Dimensions (approx): Two enclosure sizes depending on the number of circuits.

- Case A (1, 2, & 4 pair): 2.885"H x 2.130"W x 1.130"D
- Case B (5 pair): 4.375"H x 2.885"W x 1.230"D
- Case C (25 pair): 13"H x 3"W x 3"D

Enclosure Type: Case A & B High-impact, non-metallic UL 94-5V flame resistant rated.

Connection Method:

- Screw terminal connector (1, 2, & 5 pair): #12-22 AWG
- Modular Jacks: RJ45 accepts RJ11 (1 Pair), RJ14 (2 Pair) & RJ45 (4 Pair)

Mounting Method: All units come standard with a universal mounting bracket that allows the units to be screw or Din-Rail mounted (horizontally or vertically).

TLP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Pairs (Wires)	Let-Through Volt IEC 10 x 700 µs Impulse 2kV / 80A
TK-CT2-190TLP1-TB	L-L	190V	1 Pair	240V
(Terminal Block)	L-G	190V	(2 Wire)	240V
TK-CT2-190TLP2-TB	L-L	190V	2 Pair	240V
(Terminal Block)	L-G	190V	(4 Wire)	240V
TK-CT2-PHONE-RJ	L-L	190V	4 Pair	240V
(RJ45 Female Connectors)	L-G	190V	(8 Wire)	240V
TK-CT2-190TLP5-TB	L-L	190V	4 Pair	240V
(Terminal Block)	L-G	190V	(8 Wire)	240V

Specifications subject to change without notice, see web site www.totalprotectiondesign.com or latest revisions.

All voltages are peak values (+10%).
Test environment: static, positive polarity, time base = 1 ms
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Tech Note: For phone line extensions or digital systems with operating voltages lower than 120 volts please see the TPD-SLP series for additional units and options. For incoming phone lines and phone extensions in high exposure areas please refer to the TPD Phone, Cable & Data Application Design for additional information.

Need additional assistance?
Call Technical Support
1-888-281-7856
www.totalprotectiondesign.com

Tech Note: For proper grounding and installation techniques please refer to installation manual.

TPD total protection design™