

## SYSTEM FEATURES



- Provides surge protection against harmful transients traveling on telephone lines.
- Compact footprint allows for installation flexibility
- 10-Year Unlimited Free Replacement Warranty
- One, Two, Four & Five pair units.
- Fail-safe design.
- Install on data lines with a max data rate of 16Mbps.
- UL Listed 497A as Secondary Telephone Protector

## PRODUCT SPECIFICATIONS

### GENERAL 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

### ELECTRICAL SPECIFICATIONS

**Strength:** 2kA per pair  
**Maximum Data Rate:** 16Mbps  
**Mode of Protection:** All modes: tip-ring, tip-ground, & ring-ground  
**Response Time:** < 1 nanosecond  
**Number of Protected Circuit:** 1, 2, 4 & 5 pair  
**Series Resistance:** <1 ohm

### MECHANICAL SPECIFICATIONS

**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  
**Enclosure Type:** 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 (1Pair), RJ14 & RJ45 (2Pair)  
**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).  
**Operating Temperature:** -40° C to 85° C (-40° F to 185° F)  
**Weight:** 0.50 lbs.—0.75 lbs. (0.23 kg—0.34 kg) depending on number of circuits.

### TLP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Pairs (Wires)	Let-Through Volt IEC 10 x 700 $\mu$ s Impulse 2kV / 80A
TK-CT2-190TLP1-TB (Terminal Block)	L-L	190V	1 Pair	240V
	L-G	190V	(2 Wire)	240V
TK-CT2-190TLP2-TB (Terminal Block)	L-L	190V	2 Pair	240V
	L-G	190V	(4 Wire)	240V
TK-CT2-190TLP4-RJ-T1/E1 (RJ45 Female Connectors)	L-L	190V	4 Pair	240V
	L-G	190V	(8 Wire)	240V
TK-CT2-190TLP5-TB (Terminal Block)	L-L	190V	5 Pair	240V
	L-G	190V	(10 Wire)	240V

All voltages are peak values (+10%).  
 Test environment: static, positive polarity, time base = 1 ms  
 Specifications subject to change without notice, see web site [www.tpsurge.com](http://www.tpsurge.com) for latest revisions.

