

SYSTEM FEATURES



- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of coaxial line applications
- Fail-safe design
- UL Listed 497B as Isolated Loop Protector
- Compact footprint allows installation flexibility
- 10-Year Unlimited Free Replacement Warranty

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 20kA per wire

Applications: CATV, SATV, CCTV, digital modems, and ThinNet (10Base2)

Design: Multistage hybrid fail-safe design

Warranty: 10-Year Unlimited Free Replacement

Safety Listing: UL Listed 497B Isolated Loop Protector

ELECTRICAL SPECIFICATIONS

Strength: 20 kA/wire

Mode of Protection: All modes: line-ground, and shield-ground

Response Time: < 1 nanosecond

Number of Protected Circuits: 1

Series Resistance: < 0.1 ohm

Insertion Loss: < 2.6dB @ 1.2 GHz

MECHANICAL SPECIFICATIONS

Dimensions (approx.): Two enclosure sizes depending on the type of connector system.

BNC and F Type: 3.5"L x 1"W

N Type: 2.9"L x 1.4"W

Enclosure Type:

Case A (1 circuit): High-impact, non-metallic
UL 94-5V flame rated

Connection Method/Per Circuit: F, BNC or F type connectors

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: 1 lbs. (0.45 kg)

CLP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Maximum Operating Frequency	Max Data Rate	Let-Through Volt IEC 10 x 700 µs Impulse 2kV / 80A
TK-CT-10-CLP1-BCV	L-G Shield-G	9V	500 MHz	100Mbps	14V
TK-CT-18-CLP1-BLN	L-G Shield-G	16V	500 MHz	100Mbps	25V
TK-CT-30-CLP1-BAN	L-G Shield-G	27V	500 MHz	100Mbps	36V
TK-CT-30-CLP1-FSC-C	L-G Shield-G	30V	1.2 GHz	100Mbps	36V
TK-CT-75-CLP1-FST-C	L-G Shield-G	65V	2.4 GHz	100Mbps	90V
TK-CT-75-CLP1-NSC	L-G Shield-G	65V	2.4 GHz	100Mbps	90V

All voltages are peak values (+10%).

Test environment: static, positive polarity, time base = 1 ms/div

Specifications subject to change without notice, see web site, www.TPSSurge.com for latest revisions.

CLP AVAILABLE CONFIGURATION

Model Number	No. of Circuits	Applications	Description
TK-CT-10-CLP1-BCV	1	Composite Video	BNC Connectors w/3 ft. Interface Cable
TK-CT-18-CLP1-BLN	1	LAN (Ethernet) 10 Base 2	BNC Connectors w/3 ft. Interface Cable; Female-Female
TK-CT-30-CLP1-BAN	1	Arcnet	BNC Connectors w/3 ft. Interface Cable
TK-CT-30-CLP1-FSC-C	1	Cable Up to 1.2 GHz	F Connectors w/3 ft. Interface Cable; Female-Female
TK-CT-75-CLP1-FST-C	1	Satellite Up to 2.4 GHz	F Connectors w/3 ft. Interface Cable; Female-Female
TK-CT-75-CLP1-NSC	1	Satellite Up to 2.4 GHz	N-Type Connectors Female-Female (No Interface Cable)

