

**Silicon Surge Suppression for Dial-Up,  
Low Voltage, High Speed Data & T1/E1 Equipment**

1453-003 Rev. C

## Configurations

TSJ Model	6A	8A	48	48L	6A-CLT-GT	48CLT-GT	48CLT <sup>†</sup>	10/100BT	DS3
Nominal Service Voltages	190V		190V	12V	190V	12V	12V	12V	12V
Voltage Clamp Levels	200V		200V	15V	280V	250V	15V	15V	25V @ 140A
Connector	RJ-11 – protects 1 transmit/receive pair		RJ-48 – protects 2 wire pairs on pins 1,2 & 4,5		RJ-11 – protects 2 wire pairs on pins 2,3 & 4,5	RJ-48 and Hardwire – protects 2 wire pairs on pins 1,2 & 4,5		RJ-45 – all 8 lines protected	Female BNC 2 places

### Surge Current Ratings

10/1000  $\mu$ s Up to 200A  
(See Engineering Specs)

### Operating Temperature

-30 ° C to +65 ° C

### Dimensions

2.1" H X 2.1" W X .875" D  
5.4 cm X 5.4 cm X 2.22 cm

### Response Time (Max.)

5 Nanoseconds

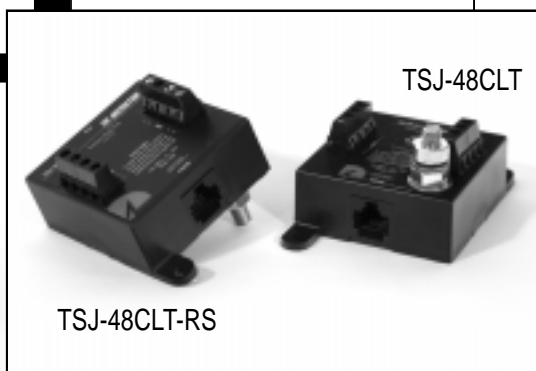
<sup>†</sup> 48CLT-RS (Reverse Stud) Available

## Features

- Optional screw down terminal
- Low capacitance, less than 30pf low impedance
- GT models utilize gas tubes for enhanced surge current ratings
- UL497A for TSJ48CLT
- No series resistance



TSJ-6



TSJ-48CLT

TSJ-48CLT-RS



DS3



TSJ-10/100BT

## Actual Applications

T-1/E-1 telephone equipment (TSJ48, TSJ48L, TSJ48CLT)  
10/100 Base T Ethernet (TSJ10/100BT)  
POTS Lines (TSJ6A, TSJ8A)  
Data Communication Lines (DS3)



**Warranty** Five (5) year manufacturer warranty