

Data Surge Protector SPD TSJ Indoor Gigabit Ethernet/  
PoE+ Shielded RJ45 GDT, UL 497B



**1101-994**  
TSJ GbE PoE

## Features

- Gigabit Ethernet/PoE+
- RJ-45 Connectivity
- Dedicated Ground Lug
- Wall Mount

## Applications

- Gigabit Ethernet/PoE+ Networks
- Telecommunications Base Stations
- WISP/ISP
- IT & Data Centers
- Point-to-Point Links
- Control Lines and Sense Loops
- Oil & Gas

## Description

Data surge protector (also known as SPD or lightning protector) 1101-994 from Transtector is an indoor style SPD that utilizes state of the art GDT technology to protect critical equipment in Gigabit Ethernet/PoE+ protocol data networks while remaining transparent to data throughput. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by absorbing high amounts of transient energy while maintaining a very low clamping voltage. Transtector Data Signal surge protectors are available in stock with same day shipping.

## Electrical Specifications

| Description                   | Minimum | Typical                      | Maximum | Units |
|-------------------------------|---------|------------------------------|---------|-------|
| Connectors                    |         | Shielded RJ45                |         |       |
| Compatible Cables             |         | Cat5/5e UTP/STP, Cat6/6A STP |         |       |
| Data Protocols                |         | Gigabit Ethernet/PoE+        |         |       |
| Data Rate                     |         |                              | 1,000   | Mb/s  |
| Series Impedance (Data)       |         |                              | 1       | Ohms  |
| Capacitance (Differential)    |         |                              | 2       | pF    |
| Capacitance (Common)          |         |                              | 2       | pF    |
| Power over Ethernet Protocols |         | PoE                          |         |       |
| Vdc Rating (Data)             | 80      |                              | 150     | Vdc   |

## Surge Protection Specification

| Description                 | Minimum | Typical | Maximum | Units |
|-----------------------------|---------|---------|---------|-------|
| Surge Protection Technology |         | GDT     |         |       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Data Surge Protector SPD TSJ Indoor Gigabit Ethernet/PoE+ Shielded RJ45 GDT, UL 497B 1101-994](#)

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|                               |                            |    |
|-------------------------------|----------------------------|----|
| Protected Pins                | [1,2], [3,6], [4,5], [7,8] |    |
| Protection Modes              | L-G, L-L                   |    |
| 10/1000 $\mu$ s Surge Current |                            |    |
| L-G                           | 1                          | kA |
| L-L                           | 1                          | kA |
| 8/20 $\mu$ s Surge Current    |                            |    |
| L-G                           | 20                         | kA |
| L-L                           | 20                         | kA |
| Response Time                 | 75                         | ns |

## Mechanical Specifications

### Size

|        |         |            |
|--------|---------|------------|
| Height | 2.2 in  | [55.88 mm] |
| Width  | 3.16 in | [80.26 mm] |
| Depth  | 1.64 in | [41.66 mm] |
| Weight | 0.2 lbs | [90.72 g]  |

## Environmental Specifications

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | -40 to +85 deg C |
| Storage Temperature   | -40 to +85 deg C |

|            |             |
|------------|-------------|
| Mount Type | Wall        |
| Grounding  | 1/4-20 Stud |

## Compliance Certifications

|                                |         |
|--------------------------------|---------|
| UL Compliant<br>Certifications | Yes     |
|                                | UL 497B |

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Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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URL: <https://www.transtector.com/data-surge-protector-spd-tsj-indoor-gigabit-1101-994-p.aspx>

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1101-994 CAD Drawing

