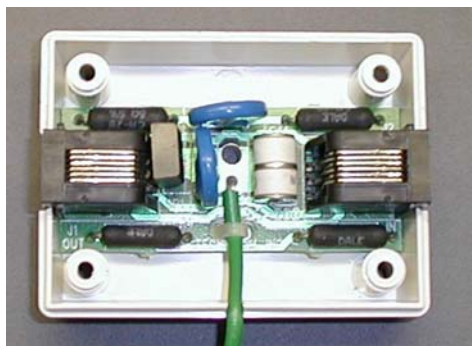


Metering Grade Telephone Line Surge Suppressors

The TSP-500 and TSP-501 are very heavy-duty telephone line surge suppressors designed to protect sensitive electronic equipment from damage caused by voltage transients. The suppressors are designed to protect metering equipment connected to standard dial-up telephone lines.

What distinguishes the TSP-500 from other surge suppressors is the unique three-stage design. A very high speed bi-directional SIDACTOR™ works in combination with MOV's and a three-element heavy-duty gas discharge tube to provide a surge suppressor that has an extremely fast response time yet can also dissipate large amounts of energy. Inter-stage wire-wound resistors provide better surge current handling than competing carbon-film designs. Wide PC board traces and ground planes provide additional surge handling capability.



Ordering Information

Model TSP-500 (RJ-11 6-pin modular connector)

To protect telephone modems in metering installations and other electronic equipment connected to a standard telephone line.

Model TSP-501 (8-pin RJ-31X modular jack)

To protect alarm systems, auto-dialers, or other equipment.

Model TSP-500-CBL

Optional 12-inch RJ-11 jumper cable.

Model TSP-501-CBL.

Optional 12-inch RJ-31 jumper cable.

Specifications

Surge Current

ANSI C62 (8 x 20 us) T-R, T-G, R-G 20,000 Amps

Energy Dissipation

10 x 100us pulses at 500 Amps 2,000 Joules

Instantaneous Clamping Voltage

Tip-Ring, Tip-Ground, or Ring-Ground ± 300 Volts P-P

Clamping Time

≈ 1 nanosecond

In-circuit Series Resistance

10 ohms

Capacitance (Tip-Ring)

50 pF

Input/Output Jacks

Model TSP-500: USOC RJ-11 6-pin modular receptacles

Model TSP-501: USOC RJ-31 8-pin modular receptacles

Ground Wire

18-inch AWG 16 stranded with ¼ inch ring terminal

Mounting

Double-sided adhesive square or screw mount

Size: 2.75" W x 2.0" H x 1.4" D

Enclosure: High-Impact, injection-molded ABS plastic

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