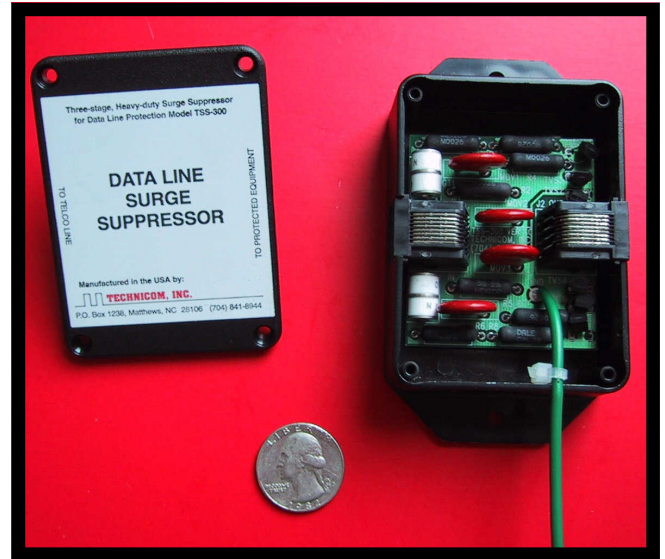


# TSS-300

## Very Heavy Duty Data Line Surge Suppressor

The TSS-300 is a very heavy duty data line surge suppressor designed to protect sensitive electronic equipment from damage caused by voltage transients. The TSS-300 is designed to protect equipment connected to high-speed data channels such as SynchroNet DSU-CSUs, DATAPHONE DDS, and local area data networks.

What distinguishes the TSS-300 from other suppressors is our unique three-stage design. Very high speed bi-directional SIDACTORS work in combination with MOVs and three-element heavy-duty gas discharge tubes to provide a suppressor that has an extremely fast response time yet can also dissipate large amounts of energy. Inter-stage wirewound resistors provide better surge current handling than competing carbon-film designs. Wide PC board traces and ground planes provide additional surge handling capability.



### MAXIMUM SPECIFICATIONS

Surge Current	
ANSI C62 (8 x 20 $\mu$ S) Pins 1-2-G, 7-8-G	20,000 Amps
Energy Dissipation	
10 x 1000 $\mu$ S pulses at 500 Amps	2,000 Joules
Instantaneous Clamping Voltage	
Pins 1-2-Gnd, or Pins 7-8-Gnd	$\pm$ 58 Volts P-P
Clamping Time	$\approx$ 1 nanosecond
In-circuit Series Resistance	10 ohms
Capacitance (Pins 1-2 and 7-8)	50 pF
Input/Output Jacks	
USOC RJ-48S 8-pin modular receptacles	
Ground Wire	
18-inch AWG 16 stranded with 1/4-inch ring terminal	
Mounting	
Double-sided adhesive square or screw mount	
Size: 2.5"W x 4-3/8"H x 1"D	
Enclosure: High-impact, injection-molded ABS plastic	

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### ORDERING INFORMATION

The TSS-300 should be specified to protect electronic equipment that uses an 8-pin modular connector to connect to the data line / network. The TSS-300 provides protection on pins 1 and 2 (transmit data) and pins 7 and 8 (receive data) of the modular jack interface.

Optional 18-inch RJ-48 jumper cable is part number TSS-300-18.

**TECHNICOM, INC.**

1221 St. Johns Avenue  
Stallings, NC 28104

info@technicom-inc.com  
http://www.technicom-inc.com

PHONE: (704) 821-9930  
FAX: (704) 821-9930