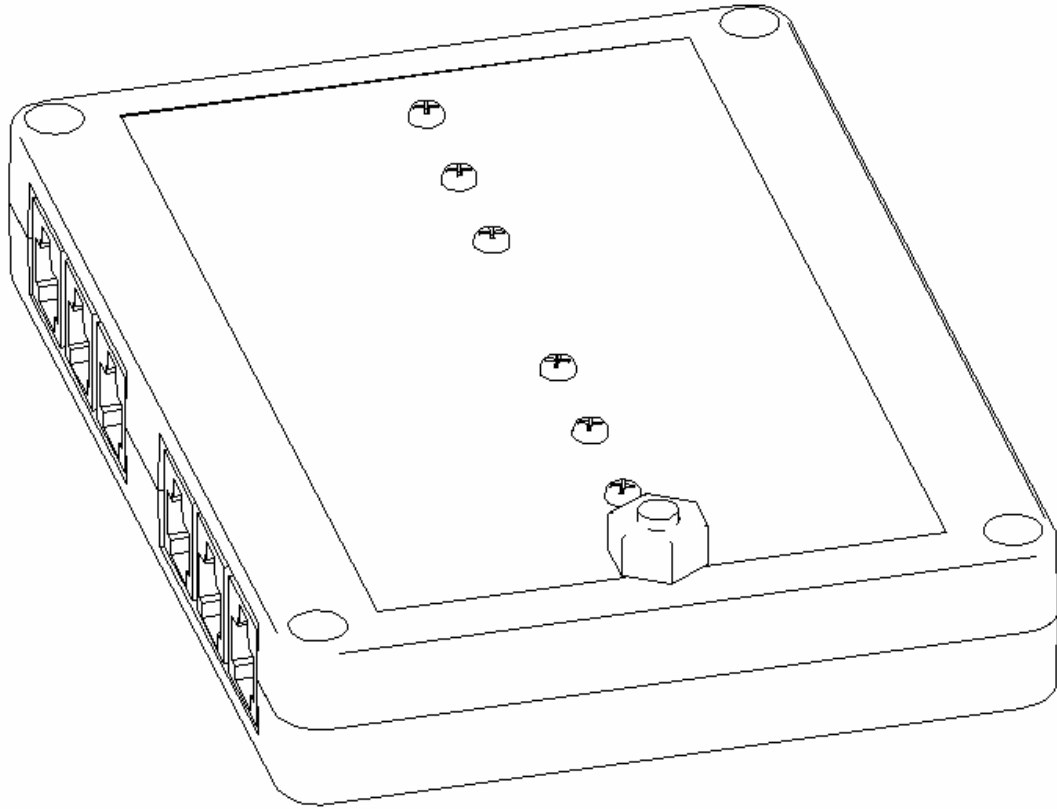


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REVISIONS				
LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
O	PROPOSAL RELEASE		1/27/05	
A	RELEASE FOR PRODUCTION		5/20/05	MLH



UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING

MATERIAL:

NOTED

DRAWN: MLH	DATE 1/27/05
CHECKED: JDW	5/20/05
ENGR. APPD: DLR	5/25/05
PROJ. APPD: MLH	5/25/05
APPROVED:	



TITLE:

**SPECIFICATION
TSJ-X6**

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	SCALE = N/A		PAGE 1 OF 2	

SURGE SUPPRESSOR Model: TSJ-X6 PN 1101-772

1. GENERAL DESCRIPTION: The TSJ-X6 is a high-speed, high-current solid state device designed to protect equipment from transient over voltages on data/T1 lines with RJ 48C (RJ45 compatible) connectors using pins 1,2 and 4,5 for transmit and receive. It performs this function by utilizing **silicon avalanche diodes** to limit the magnitude of transient over voltages on the protected wire pairs. Continuous bi-polar, bi-directional, non-interrupting protection is provided. The TSJ-X6 is configured to protect six separate data/T1 lines. In the unlikely event of failure, the protection module will disrupt the communication line, and the module can be replaced to aid in the system trouble shooting process. All of the protection modules connect to the service in a pass through configuration. The input and output connections are female RJ 48C connectors. For proper grounding, a common rail within the unit grounds and orients the suppressor modules when they are installed. This ground rail attaches to a ¼-20, brass external ground stud. The molded plastic enclosure uses UL94-V0 flame rated material and mounts from opposite corners.

2. PERFORMANCE REQUIREMENTS:

2.1. Electrical Service:

2.1.1. DATA

- 2.1.1.1. Transfer rate<1.544 Mbs
- 2.1.1.2. Configuration.....2 pair, pins 1,2 and 4,5
- 2.1.1.3. Input Connection RJ 48C
 - 2.1.1.3.1. Number of connector positions.....8
- 2.1.1.4. Protection Modes..... Line to Line, Line to Ground
- 2.1.1.5. Maximum Continuous Operating Voltage12 VDC

2.2. Electrical Performance:

2.2.1. DATA

2.2.1.1. Testing:

- 2.2.1.1.1. Tested to IEEE 10/1000 Long Wave
 - 2.2.1.1.1.1. Vpk1500 V peak
 - 2.2.1.1.1.2. Ipk150 A peak
 - 2.2.1.1.1.3. VPL.....31 V peak
- 2.2.1.1.2. GR 1089 10/1000 Long Wave
 - 2.2.1.1.2.1 Vpk1000 V peak
 - 2.2.1.1.2.2 Ipk100 A peak
 - 2.2.1.1.2.3. VPL.....26 V peak
- 2.2.1.2. Response Time (Max)< 5 nanoseconds
- 2.2.1.3. Standby Power (Max).....< 0.1 Watt
- 2.2.1.4 SafetyPer UL 497A

2.3. Mechanical:

2.3.1. Enclosure Description: The suppressor is housed in a molded plastic enclosure that is 6.2" long, 4.5" wide and 1" tall (15.7cm X 11.4cm X 2.5cm). The enclosure mounts with #6 hardware at opposite corners. A ¼-20 ground stud is provided for ground installation to insure proper suppressor performance.

3. ENVIRONMENTAL:

- 3.1. Operating Temperature:-40°C to +85°C
- 3.2. Storage Temperature:-40°C to +85°C
- 3.3. Relative Humidity:100% (non-condensing)



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SIZE	CAGE		
A	30992	1400-548	A
SCALE =			Page 2 OF 2