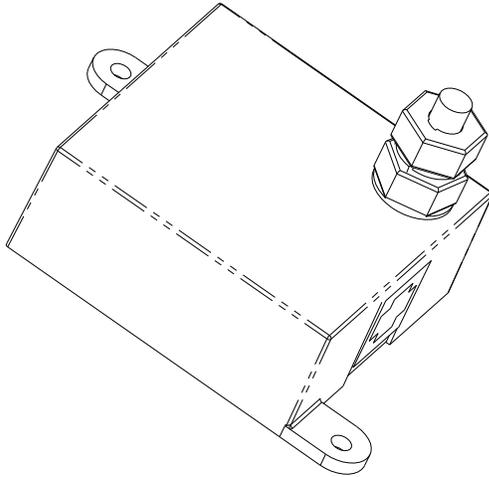


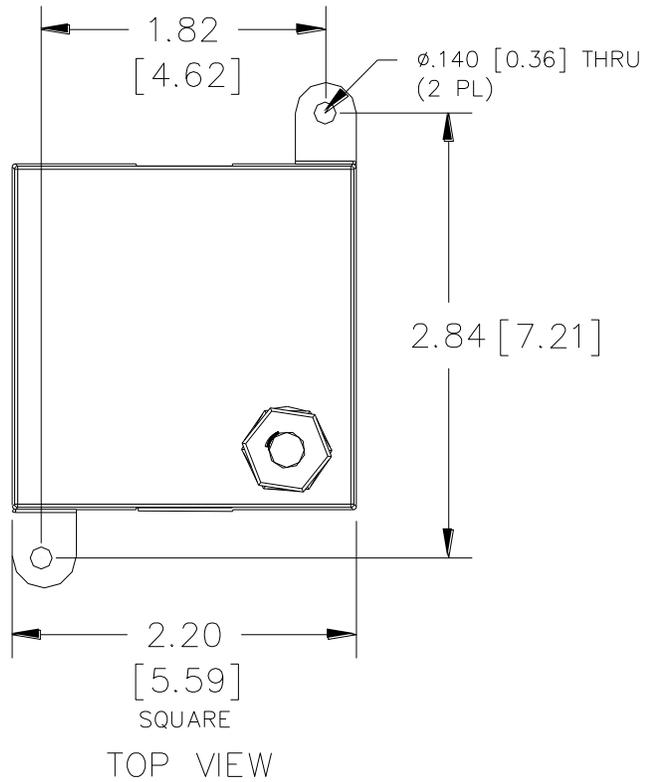
THIS DRAWING HAS BEEN GENERATED AND IS MAINTAINED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY.

REVISIONS

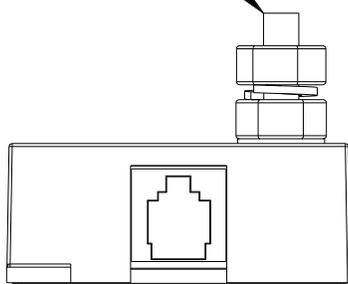
ZONE	LTR	DESCRIPTION	ECO NO.	DATE	APPROVED
	0	PRODUCTION RELEASE	4478	03/12/02	KRH



MOUNTING DIMENSIONS



1/4-20 BOLT  
W/ HARDWARE



UNLESS OTHERWISE SPECIFIED, DIM. IN INCHES BEFORE PLATING.  
TOLERANCES ON: DECIMALS  
FRACTIONS=± .xx=±  
ANGLES= .° .XXX=±

MATERIAL: NONE

DRAWN	DWR	DATE	01/28/02
CHECKED	CVM		1/29/02
ENGR APPD	MLH		2/3/02
PROJ APPD	JEB		2/4/02
APPROVED			

**TRANSTECTOR**  
SUPERIOR SURGE SUPPRESSION  
Hayden Lake, ID 83835

TITLE  
SPECIFICATION  
TSJ 10/100BT

NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS, WHO RESERVES ALL RIGHTS THERETO.

SIZE	CAGE	DRAWING NUMBER	REV
A	30992	1400-432	0
SCALE=	N/A	SHEET 1 of 2	

## SUPPRESSOR PERFORMANCE SPECIFICATIONS

MODEL: TSJ 10/100BT

**1.0 GENERAL DESCRIPTION:**

The TSJ 10/100BT surge suppressor is a high-speed, high-current, solid-state device designed to protect equipment from transient over-voltages on high-speed data lines with RJ-45 connectors using pins 1-8. It performs this function by limiting the magnitude of transient over-voltages that are present on each pair relative to each other and relative to ground. Continuous bi-polar, bi-directional, non-interrupting protection is provided. The TSJ 10/100BT utilizes silicon junction avalanche suppressor diodes as its sole suppression technology and automatically resets after each suppression function with no degradation of protection capabilities. It attaches in series with the load to be protected. It also includes a ground stud that must be connected to the system ground.

**2.0 ELECTRICAL SERVICE:**

- 2.1 Maximum Continuous Operating Voltage:.....12V Peak
- 2.3 Connector Type:..... RJ-45
- 2.4 Protected RJ-45 Pins:..... Lines 1-2; 3-4; 5-6; 7-8; All pins to GND

**3.0 ELECTRICAL PERFORMANCE:**

- 3.1 Turn-on Voltage.....  $V_{br} \sim 15.15V @ 5mA$
- 3.2 Maximum Voltage Protection Level (10/1000 $\mu s$ ).....  $25V_p @ 100A$
- 3.3 Response Time (Max)..... <5ns
- 3.4 Attenuation..... 3db @ 90MHz
- 3.5 Max. Leakage Current..... 1 $\mu A$

**4.0 ENVIRONMENTAL:**

- 4.1 Temperature (Operating and Storage).....-30° to +65° C
- 4.2 Relative Humidity.....90%

**5.0 MECHANICAL:**

- 5.1 Dimensions.....2.2" [5.59]X 2.2"[5.59] X 0.89"[2.26]
- 5.2 Weight.....0.15 lb.[0.068kg]
- 5.3 UL Material Flame Rating.....94-V0
- 5.4 Installation Connections: One (1) RJ-45 receptacle (input), one (1) RJ-45 receptacle (output), and one ground lug (1/4-20). Ground lug to be connected to same system ground as protected equipment.

**Note: Cut ground lead as short as possible for optimum suppression.**

 <p><b>TRANSTECTOR</b> SUPERIOR SURGE SUPPRESSION Hayden Lake, ID 83835</p>	<p>NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS, WHO RESERVES ALL RIGHTS THERETO.</p>	SIZE	CAGE	DRAWING NUMBER	REV
		A	30992	1400-432	0
		SCALE=	N/A	SHEET 2	of 2