

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



PRELIMINARY

ELECTRICAL CHARACTERISTICS @ 25°C

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6) : 1CT : 1CT $\pm$ 3%
(P3-P2-P1) : (J1-J2) : 1CT : 1CT $\pm$ 3%
- 2.0 INDUCTANCE: (J3-J6) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P3-P1) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P6-P5-P4 (WITH J6 AND J3 SHORT): 0.3 MAX. @ 1MHz
P3-P2-P1 (WITH J2 AND J1 SHORT): 0.3 MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P6,P5,P4) TO (J6,J3) : 30pf MAX @ 1MHz
(P3,P2,P1) TO (J2,J1) : 30pf MAX. @ 1MHz
- 5.0 DC RESISTANCE (J6-J3)=(J2-J1) : 1.2 ohms Max.

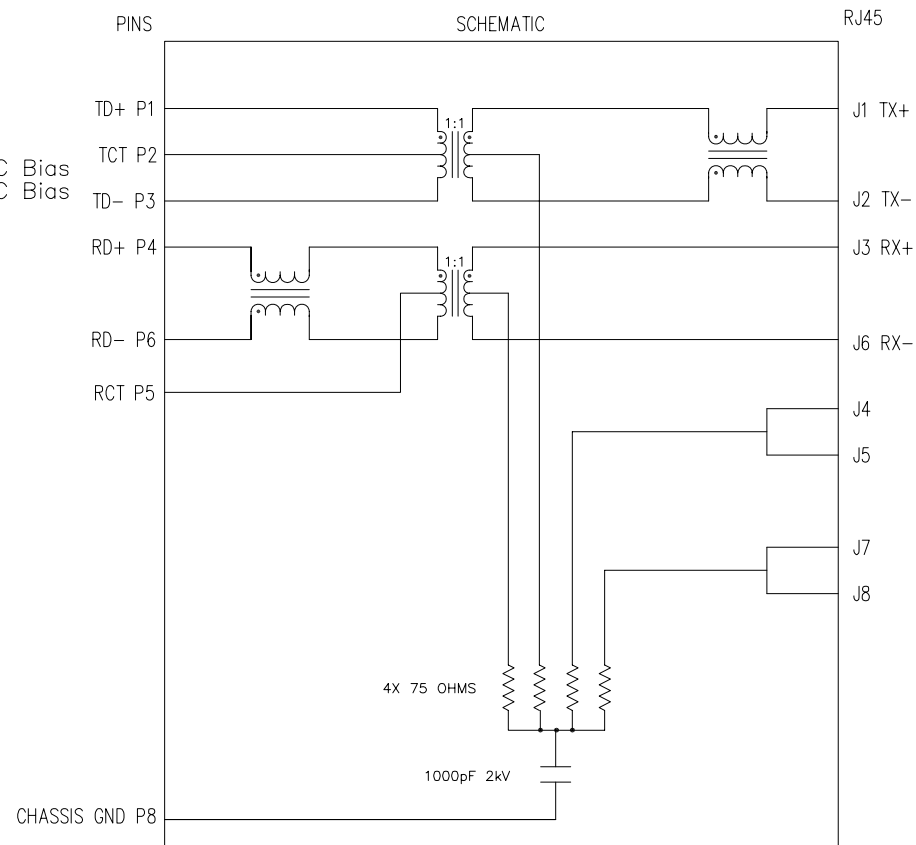
RECEIVE

- 6.0 RETURN LOSS: (J3-J6)=100 OHMS AND (P1-P3)=100 OHM REF.

1MHz TO 30MHz : 18dB MIN.
30MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (P6-P4).

- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3) : 1500 Vrms
(J3, J6) TO (P4, P6) : 1500 Vrms
- 8.0 INSERTION LOSS: $RS=RL=100$ ohms
100KHz TO 100MHz : 1.1 dB TYP
- 9.0 RISE TIME: $RS=100$ OHMS AND $RL = 100$ OHMS
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH = 112nS : 3.0 nS MAX
- 10.0 CROSS TALK: 1-100 MHz : 30 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : 35dB TYP



NOTES

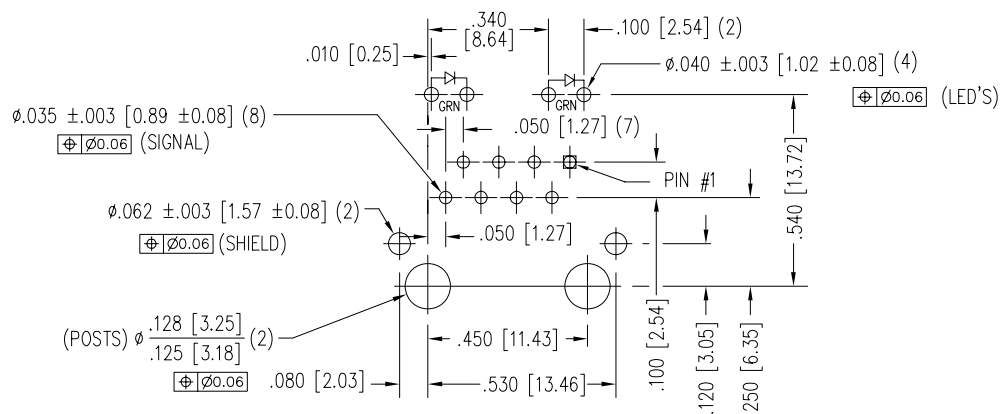
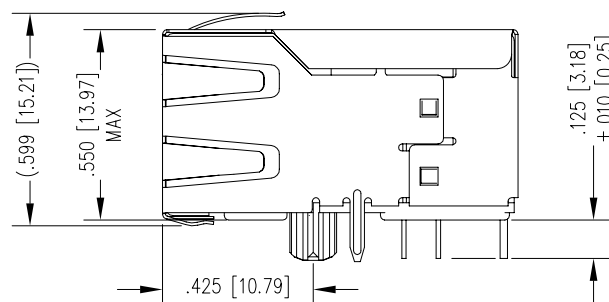
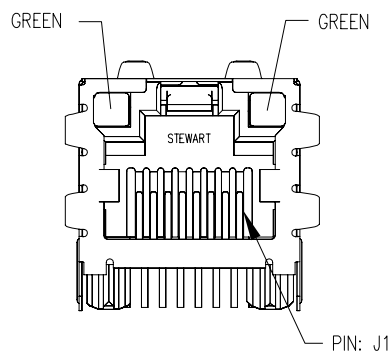
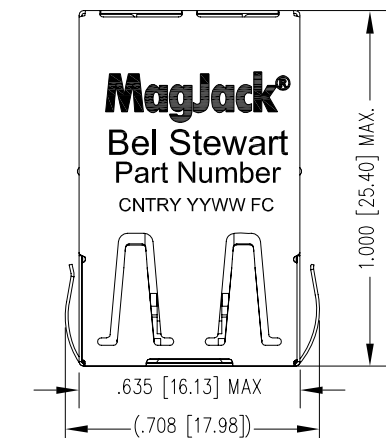
- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY	DATE	TITLE MagJack® 10/100BT TAB UP, SHIELDED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
Bain Liu	09-19-08		SI-50237-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : X1	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
LW Yuan	09-19-08		SI-50237-F.DWG	.XX		PAGE : 2		
			.XXX	±0.005				

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



PRELIMINARY



P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

- CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V

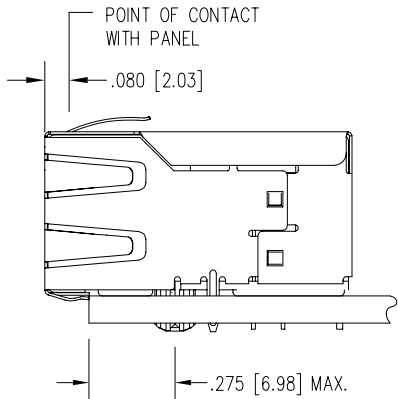
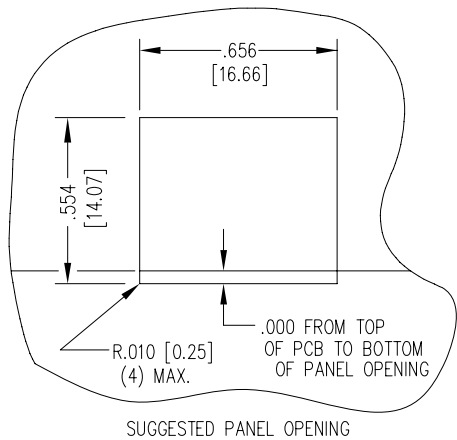
*WITH A FORWARD CURRENT OF 20 mA (TYP)

ORIGINATED BY Bain Liu	DATE 09-19-08	TITLE MagJack® 10/100BT TAB UP, SHIELDED	PART NO. / DRAWING NO. SI-50237-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[] METRIC DIM. AS REFERENCE	
					UNIT : INCH [mm]	REV. : X1
DRAWN BY LW Yuan	DATE 09-19-08		FILE NAME SI-50237-F.DWG	±0.005	SCALE : N/A	SIZE : A4
						PAGE : 3



THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

PRELIMINARY



1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]

ORIGINATED BY	DATE	TITLE MagJack® 10/100BT TAB UP, SHIELDED	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
Bain Liu	09-19-08		SI-50237-F	TOL. IN INCH		UNIT : INCH [mm] REV. : X1		
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A SIZE : A4		
LW Yuan	09-19-08		SI-50237-F.DWG	.XX		PAGE : 4		
			.XXX	±0.005				

