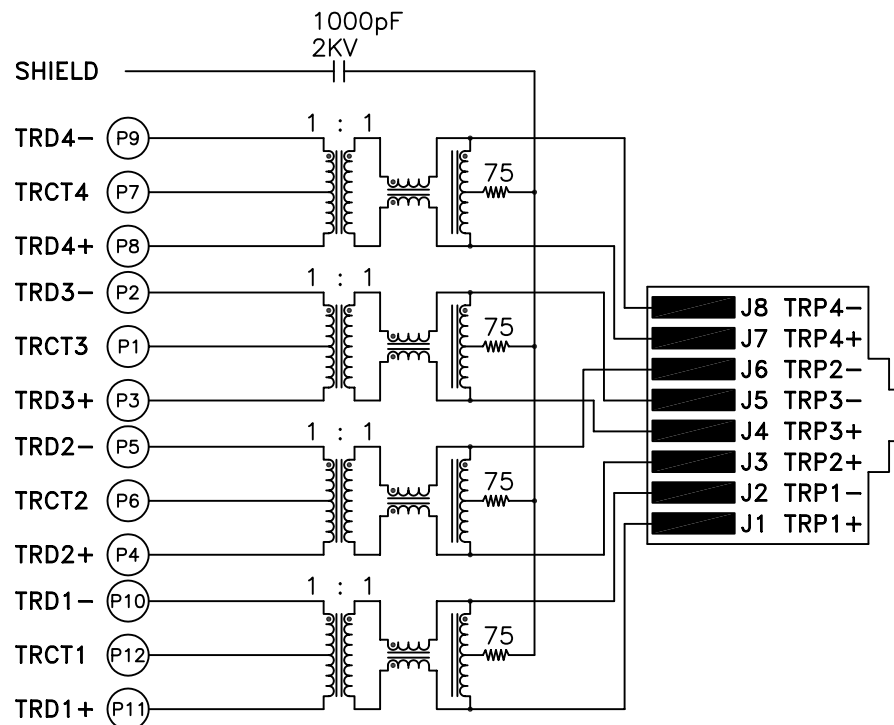
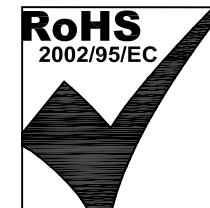




ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P3-P2) : (J4-J5) : 1 : 1 $\pm 2\%$
(P5-P4) : (J6-J3) : 1 : 1 $\pm 2\%$
(P9-P8) : (J8-J7) : 1 : 1 $\pm 2\%$
(P10-P11) : (J2-J1) : 1 : 1 $\pm 2\%$
- 2.0 INDUCTANCE: (P3-P2) ; (P5-P4) : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS
(P10-P11) ; (P9-P8) : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS
- 3.0 LEAKAGE INDUCTANCE: P3-P2 (WITH J4 AND J5 SHORT) : 0.3uH MAX. @ 1MHz
P5-P4 (WITH J6 AND J3 SHORT) : 0.3uH MAX. @ 1MHz
P9-P8 (WITH J8 AND J7 SHORT) : 0.3uH MAX. @ 1MHz
P10-P11 (WITH J1 AND J2 SHORT) : 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P3-P2) : (J4-J5) : 35pf MAX @ 1MHz
(P5-P4) : (J6-J3) : 35pf MAX @ 1MHz
(P9-P8) : (J5-J4) : 35pf MAX @ 1MHz
(P10-P11) : (J2-J1) : 35pf MAX @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3) ; (J2-J1) ; (J7-J8) : (J4-J5) : 1.2 ohms Max.



Bel Stewart Connector
11118 Susquehanna Trail, South
Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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SHEET 1 OF 4

DRAWING NO. SI-50075-F

REV. 14

6.0 RETURN LOSS: 1MHz TO 30MHz	: -19dB MIN.
30MHz TO 60MHz	: -13dB MIN.
60MHz TO 80MHz	: -12dB MIN.
80MHz TO 100MHz	: -10dB MIN.
7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P10,P11) ; (J5,J4) TO (P3-P2)	: 1500 VAC
(J3,J6) TO (P5,P4) ; (J8,J7) TO (P9, P8)	: 1500 VAC
8.0 INSERTION LOSS: RS=RL=100 ohms	
100KHz TO 125MHz	: -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	: $-[33-20 \text{ LOG } (\frac{F}{50 \text{ MHz}})] \text{ MIN.}$
11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz	: -35dB TYP

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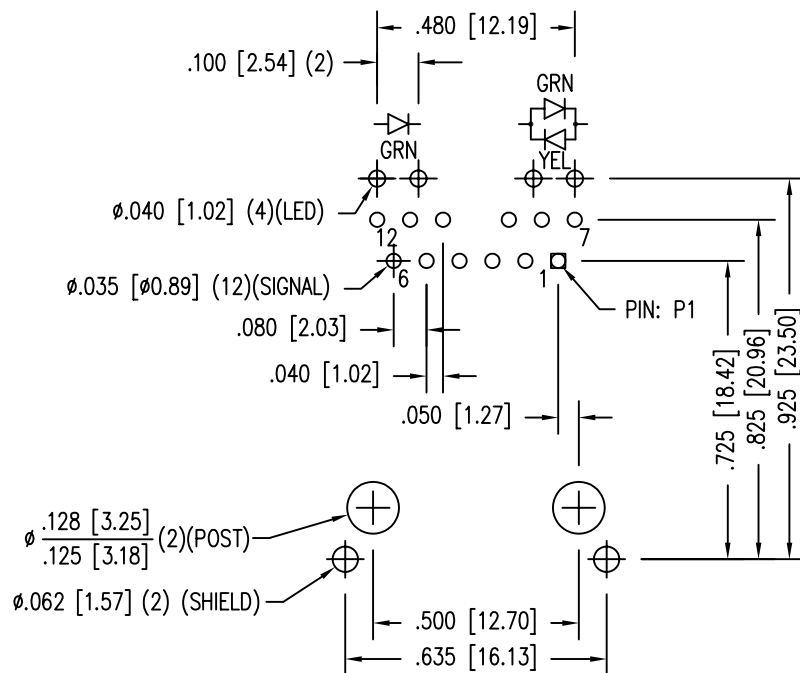
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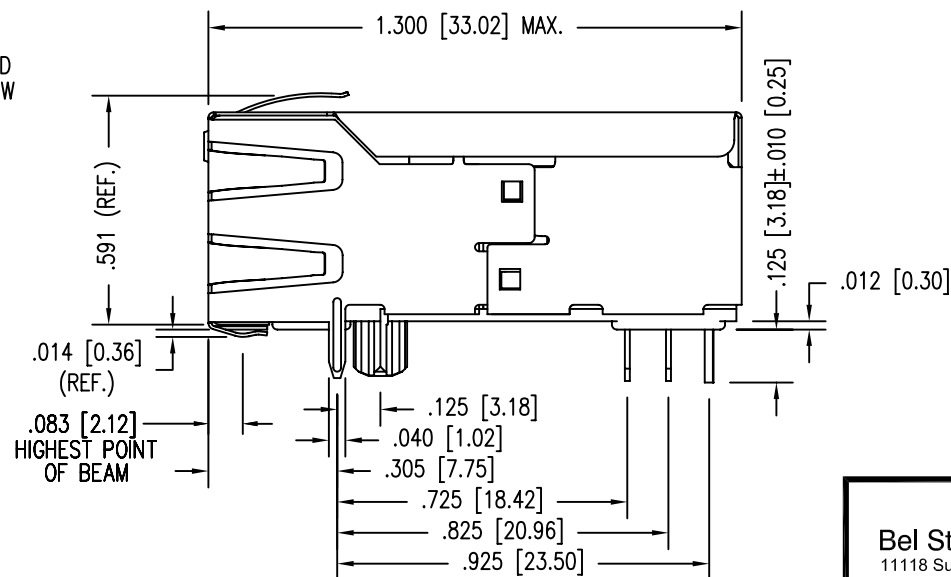
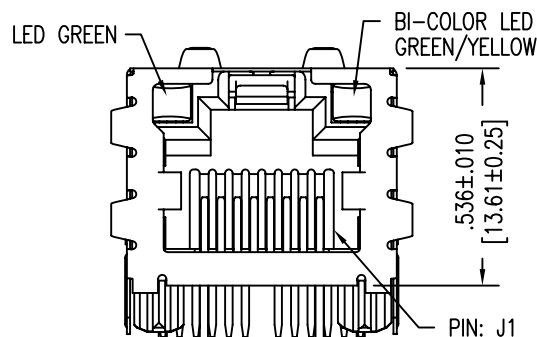
SHEET
2 OF 4

DRAWING NO.
SI-50075-F

REV.
14



P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
TOLERANCE ± 0.003 [0.08] UNLESS OTHERWISE SPECIFIED

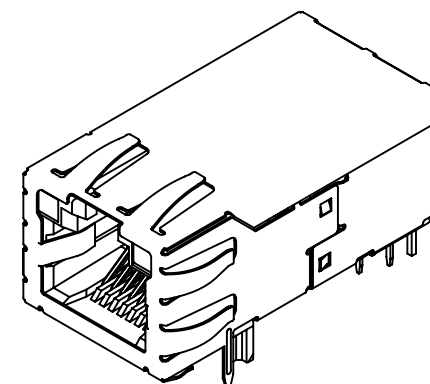
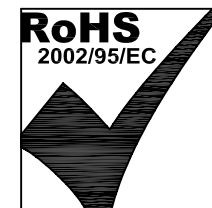


NOTES:

- 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.

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

* WITH A FORWARD CURRENT OF 20 mA (TYP)



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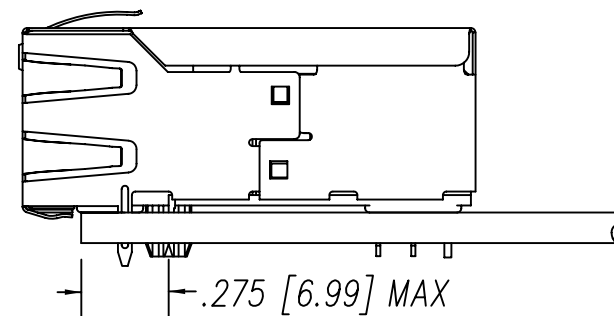
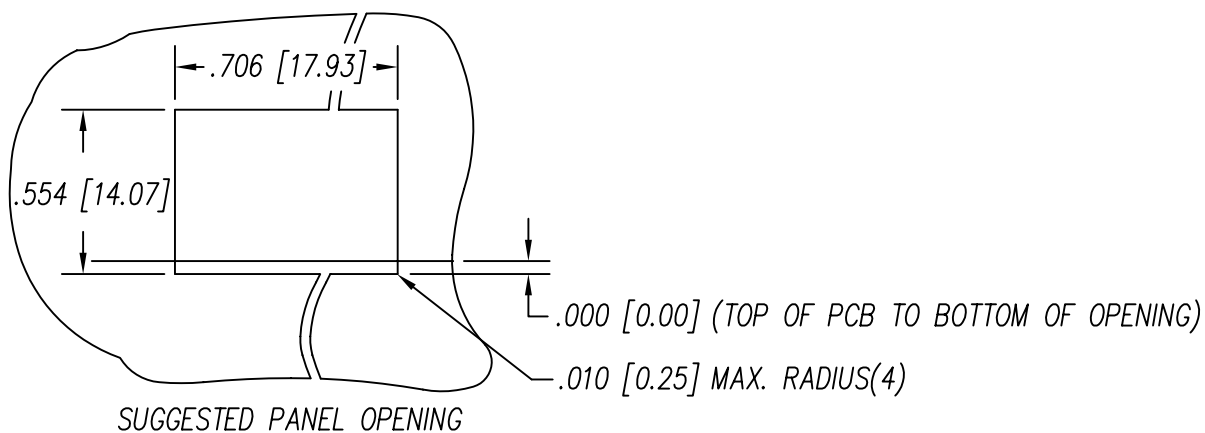
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SHEET
3 OF 4

DRAWING NO.
SI-50075-F
REV.
04



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 $\pm .005$ [0.13]