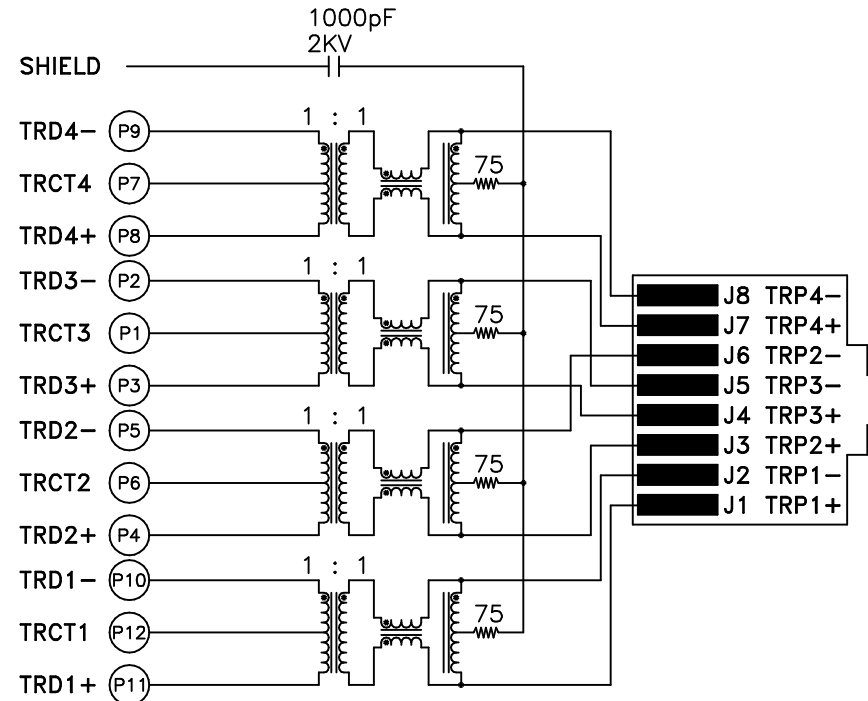


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ELECTRICAL SPECIFICATIONS:

- 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.



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Glen Rock, Pa 17327-0100
717.234.7512

MagJack®
<http://www.stewartconnector.com>

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DRAWING NO.

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- 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 : -1.1 dB TYP
100KHz TO 125MHz
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH= 112nS
- 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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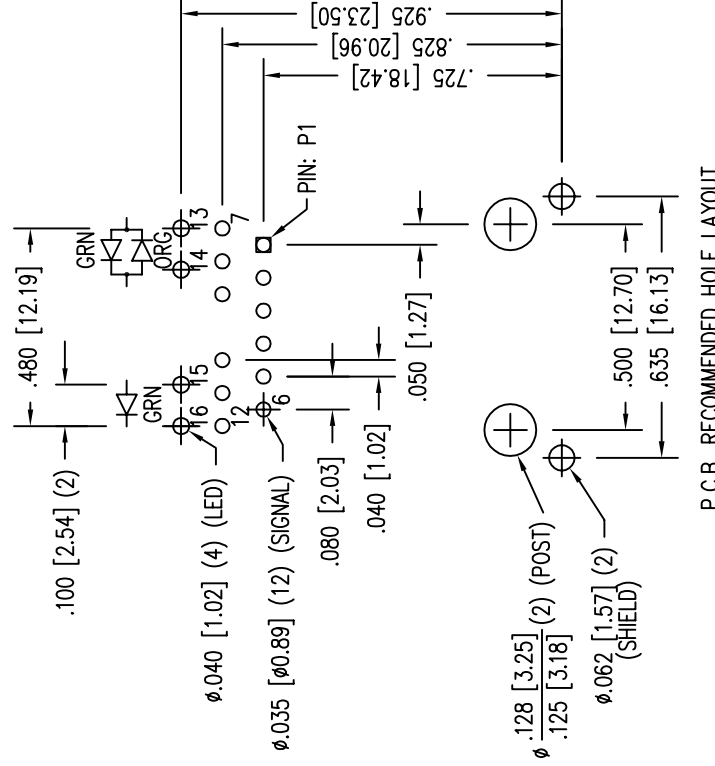
REV.
13

NOTES:

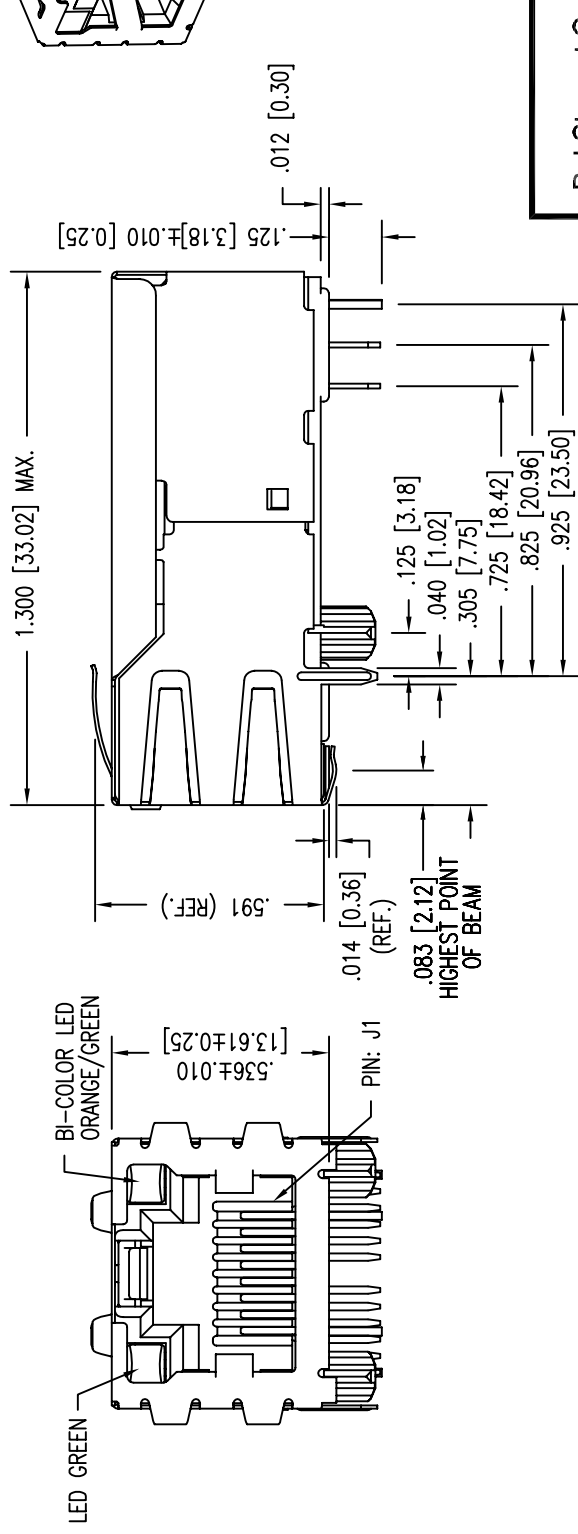
1. CONNECTOR MATERIALS:
 - 1.1. WELDING: THERMOPLASTIC
 - 1.2. CONTACT/SIELD: COPPER
 - 1.3. SHIELD PLATING: NICKEL
 - 1.4. CONTACT PLATING: SILVER
2. PIN NOT ELECTRICAL
3. ELECTRICAL DRAG
4. TOLERANCES COMPLY
5. TOLERANCES NOT
6. WAVE SOLDER COMPATIBLE

STANDARD LED	W
GREEN	
ORANGE	

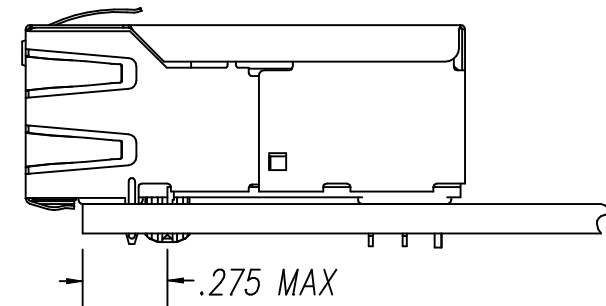
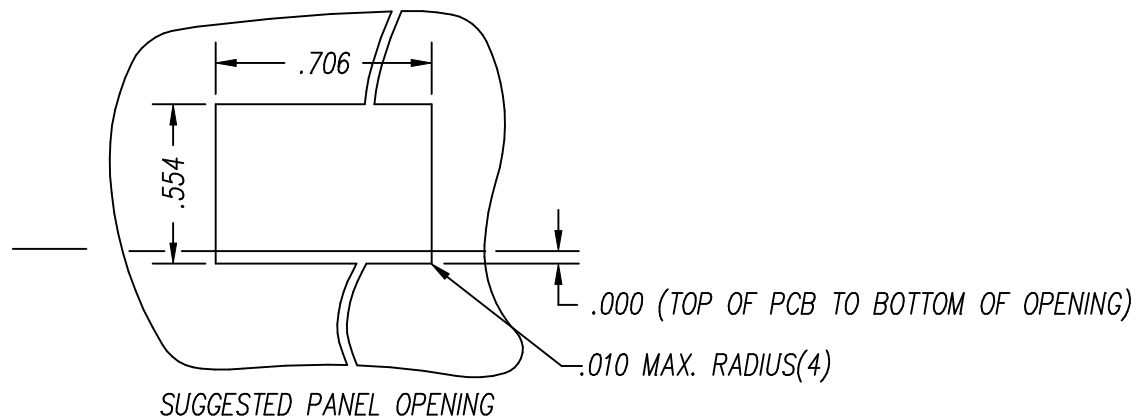
***WITH A FORWARD**



P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
TOLERANCE $\pm .003$ [0.08] UNLESS OTHERWISE SPECIFIED



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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]

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SHEET
4 OF 4

DRAWING NO.
SI-50124-F

REV.
04