

ELECTRICAL SPECIFICATIONS:

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| 1.0 TURNS RATIO: (P2-P3-P1) : (J6-J3) | : 1CT : 1 ± 3% |
| (P6-P4-P5) : (J2-J1) | : 1CT : 1 ± 3% |
| 2.0 INDUCTANCE: (P6-P5) | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| (J6-J3) | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| 3.0 LEAKAGE INDUCTANCE: P6-P5 (WITH J2 AND J1 SHORT) | : 0.3 MAX. @ 1MHz |
| P2-P1 (WITH J6 AND J3 SHORT) | : 0.3 MAX. @ 1MHz |
| 4.0 INTERWINDING CAPACITANCE: (P2,P3,P1) TO (J6,J3) | : 25pf MAX @ 1MHz |
| (P6,P4,P5) TO (J2,J1) | : 25pf MAX. @ 1MHz |
| 5.0 DC RESISTANCE: (P2-P1) | : 1.2 ohms Max. |
| (J2-J1) | : 1.2 ohms Max. |

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.



Bel Stewart Connector
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717.234.7512

MagJack®

<http://www.stewartconnector.com>

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SHEET
1 OF 4

DRAWING NO.
SI-60076-F

REV.
02

RECEIVE

6.0 RETURN LOSS: 1MHz TO 30MHz : 18dB MIN.
60MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P6, P5) : 1500 VAC
(J3, J6) TO (P2,P1) : 1500 VAC

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: 1MHz TO 100MHz : 35 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : 45dB TYP

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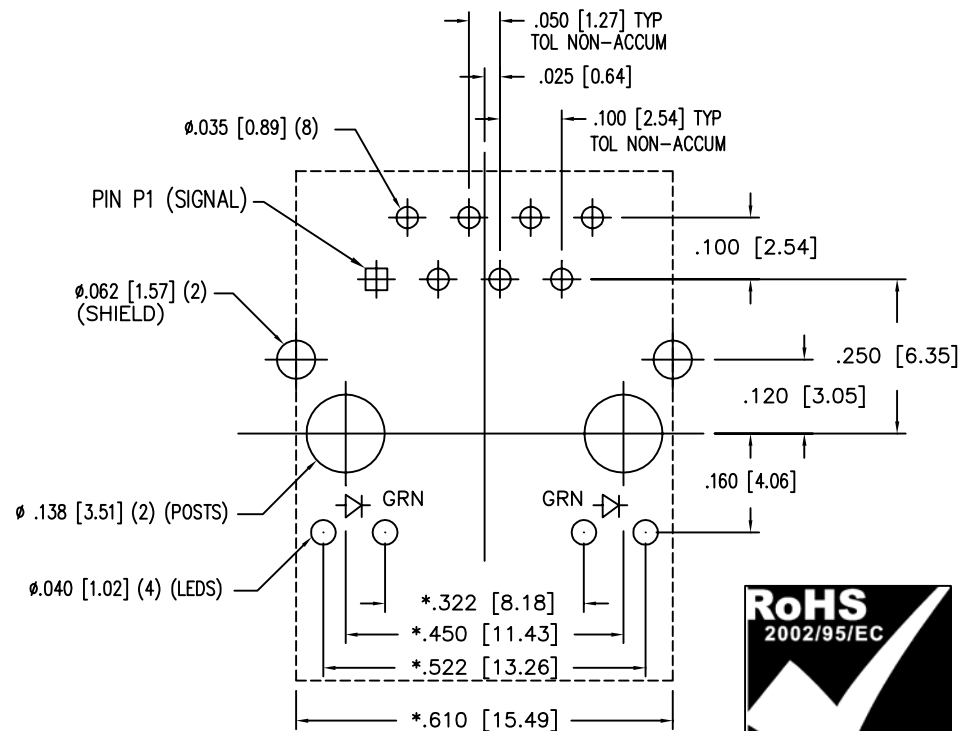
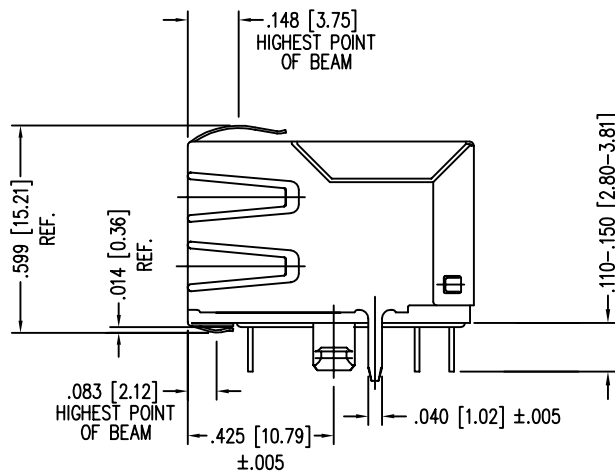
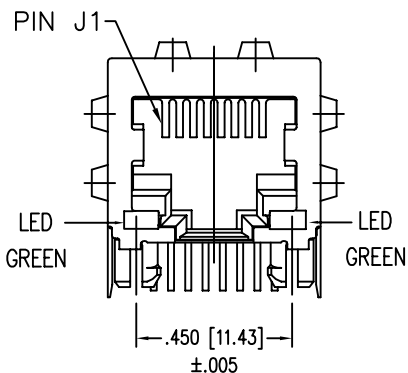
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DRAWING NO.
SI-60076-F

REV.
02

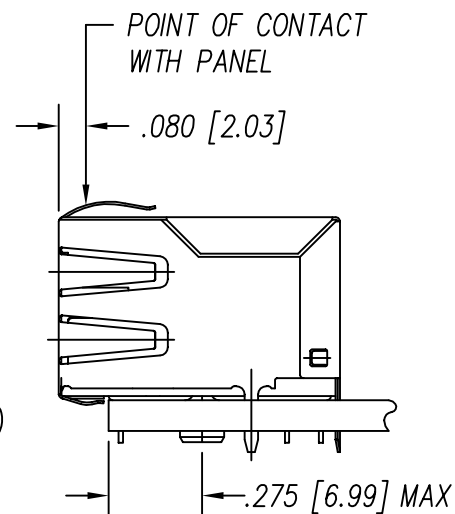
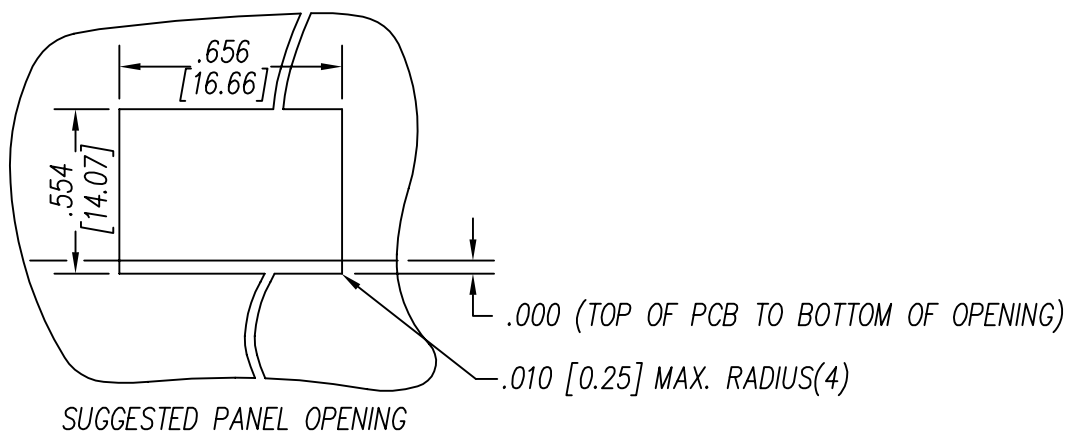
*WITH A FORWARD CURRENT OF 20 mA



1. 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.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]
5. WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

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S-60076-F	08



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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