

ELECTRICAL SPECIFICATIONS:

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

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

2.0 ALL RESISTORS ARE ±5% TOLERANCE.

Bel Stewart Connector
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Glen Rock, Pa 17327-9199
717.234.7512

MagJack

<http://www.stewartconnector.com>

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RECEIVE

6.0 RETURN LOSS: 1MHz TO 30MHz	: -18dB MIN.
30MHz TO 80MHz	: $-(19-20 \text{ LOG } (f/30\text{MHz}))$
60MHz TO 80MHz	: -12dB MIN.
7.0 DIELECTRIC WITHSTAND: (J3, J6) TO (P1, P2)	: 1500 VAC
(J1, J2) TO (P5,P6)	: 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
100MHz TO 200MHz	: -20dB MIN

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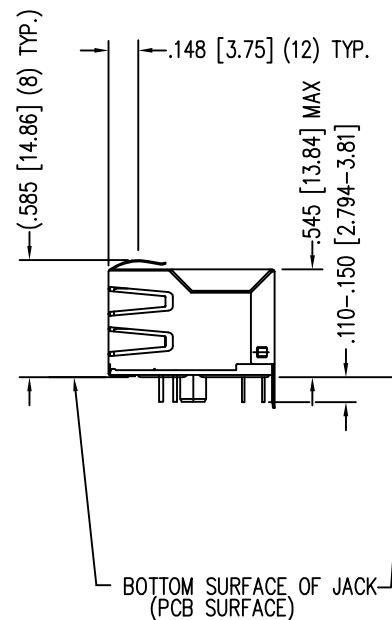
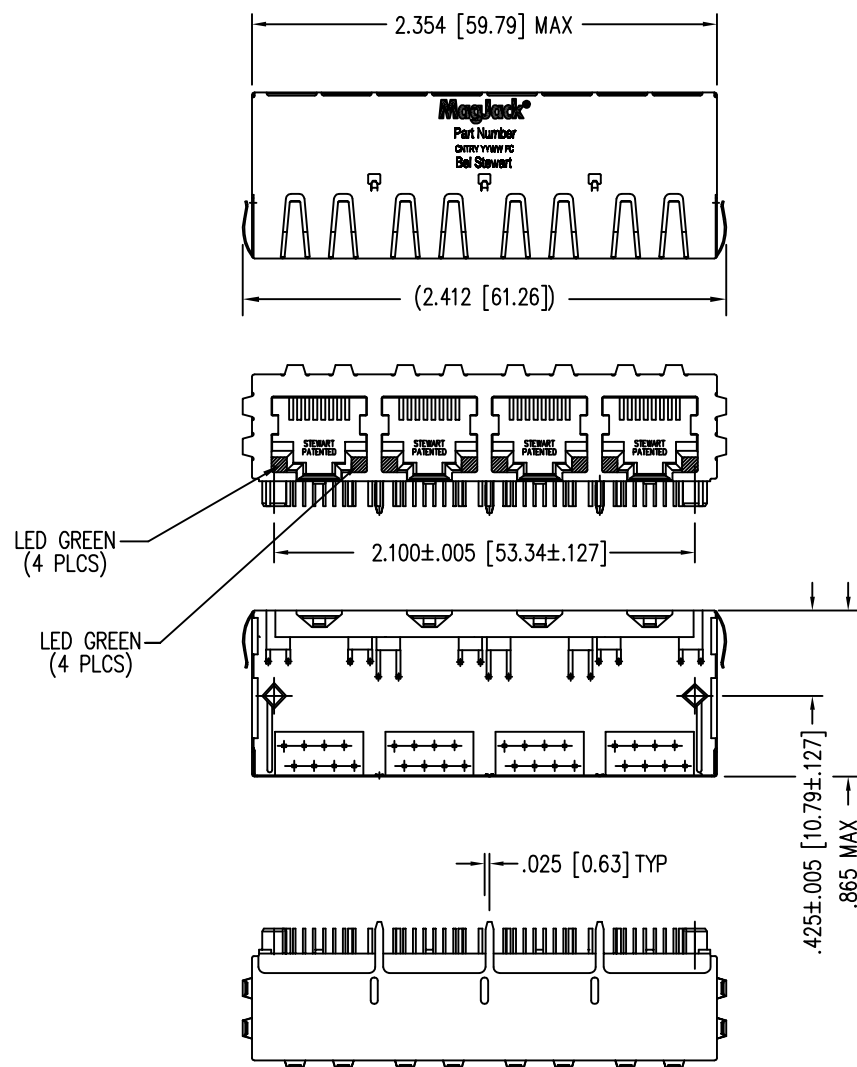
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REV.
01



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 ±.005 [0.13]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	* Forward V (MAX)	(TYP)
GREEN	565 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA

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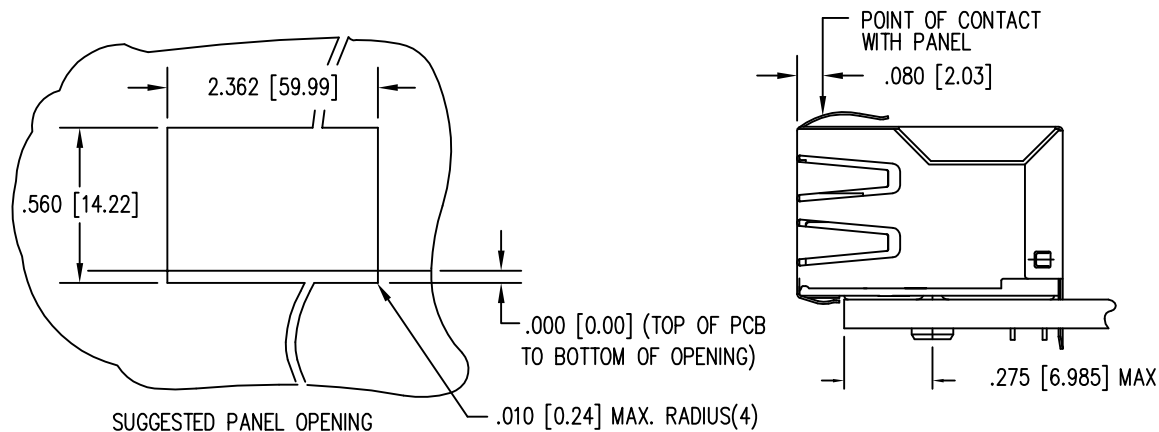
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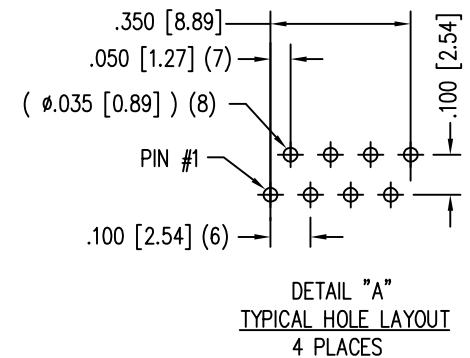
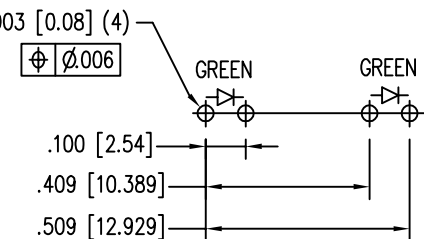
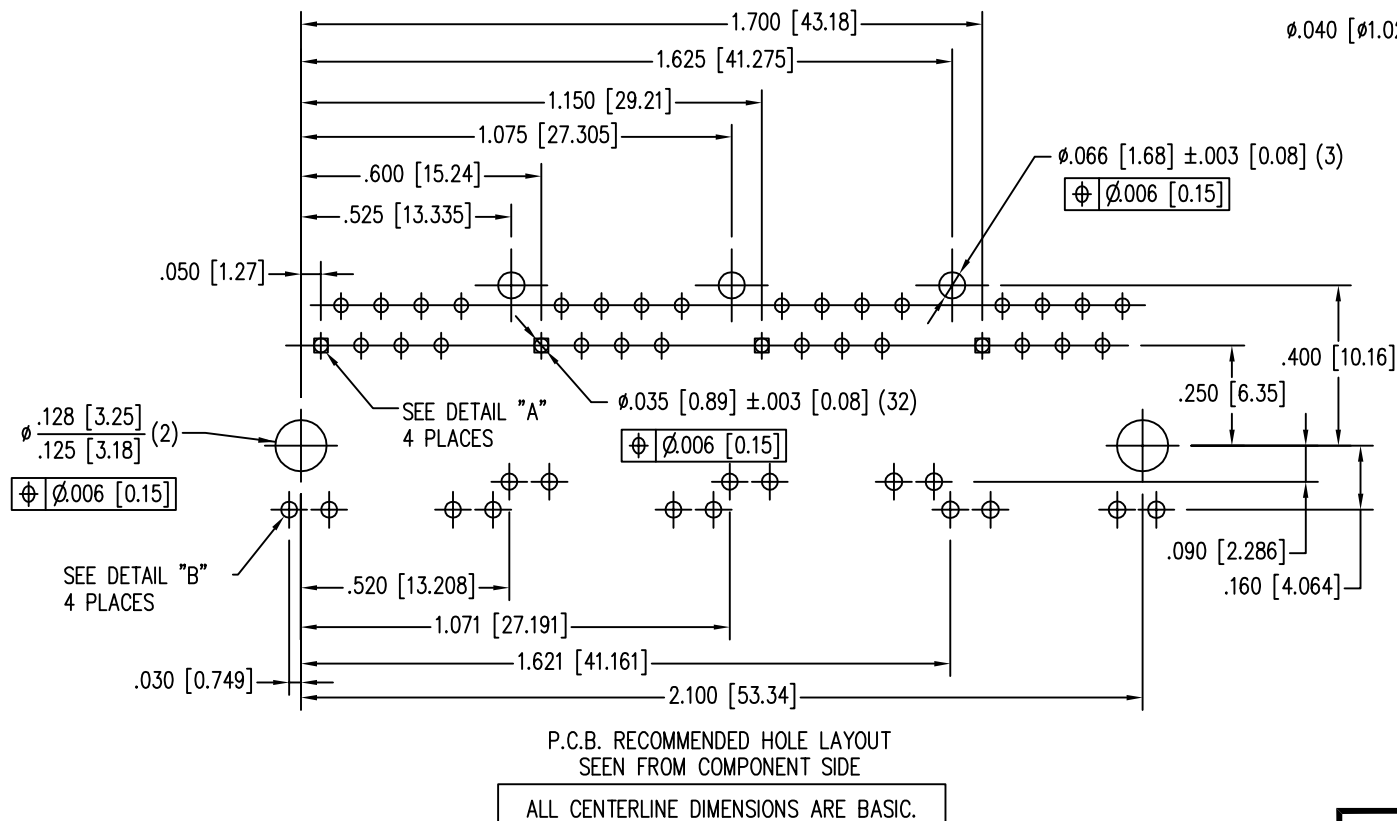
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1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]



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