

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: $(P6-P5-P3) : (J6-J3)$: 2CT : $1 \pm 3\%$
 $(P2-P4-P1) : (J2-J1)$: 1CT : $1 \pm 3\%$
- 2.0 INDUCTANCE: $(P2-P1)$: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
 $(J3-J6)$: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P2-P1 (WITH J1 AND J2 SHORT) : 0.3 MAX. @ 1MHz
P6-P3 (WITH J3 AND J6 SHORT) : 0.8 MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: $(P6,P5,P3)$ TO $(J6,J3)$: 25pf MAX. @ 1MHz
 $(P2,P4,P1)$ TO $(J2,J1)$: 25pf MAX. @ 1MHz
- 5.0 DC RESISTANCE: 5.0 DC RESISTANCE $(J6-J3)=(J2-J1)$: 1.2 ohms Max.

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

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-10046 REV. 01

RECEIVE

6.0 RETURN LOSS: 1MHz TO 30MHz 60MHz TO 80MHz	: 18dB MIN. : 12dB MIN.
7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P2) (J3, J6) TO (P6,P3)	: 1500 VAC : 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 PULSE WIDTH= 112nS	: 3.0 nS TYP
10.0 CROSS TALK: 1MHz TO 100MHz	: 35 dB TYP
11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz	: 30dB TYP

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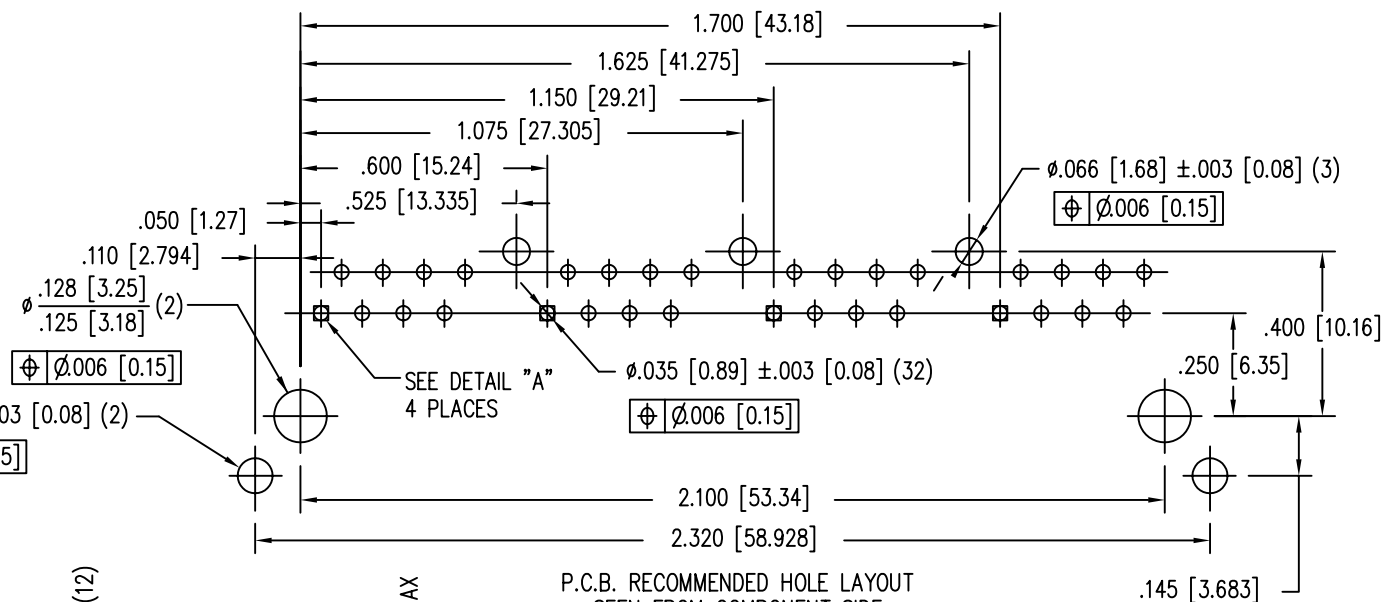
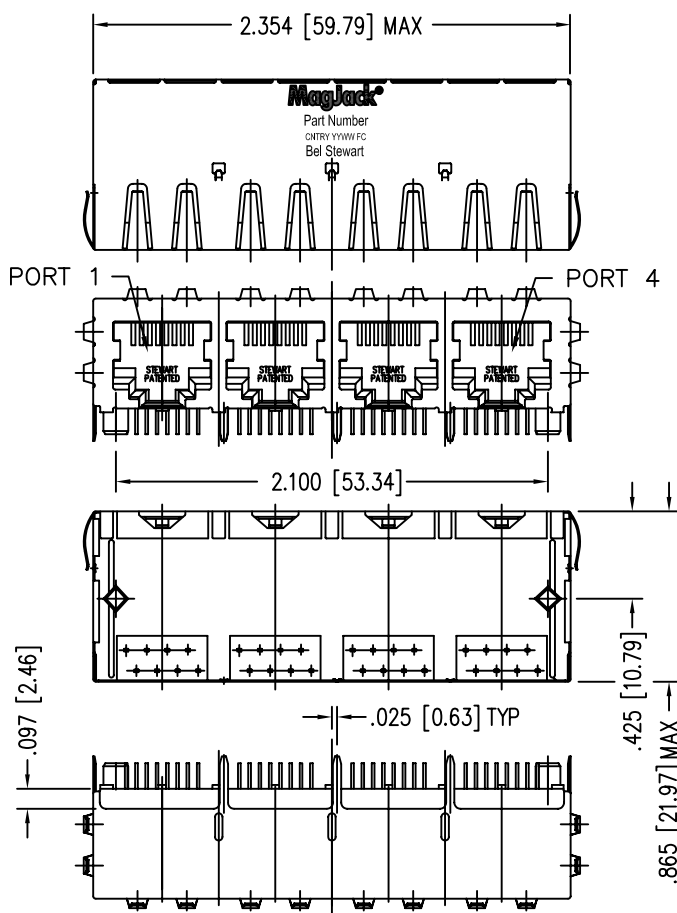
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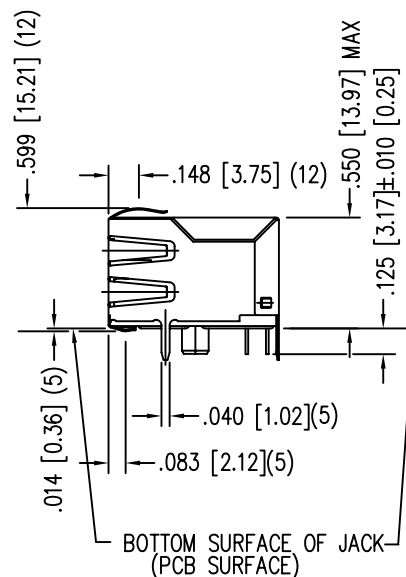
SHEET
2 OF 4

DRAWING NO. SI-10046

REV. 01



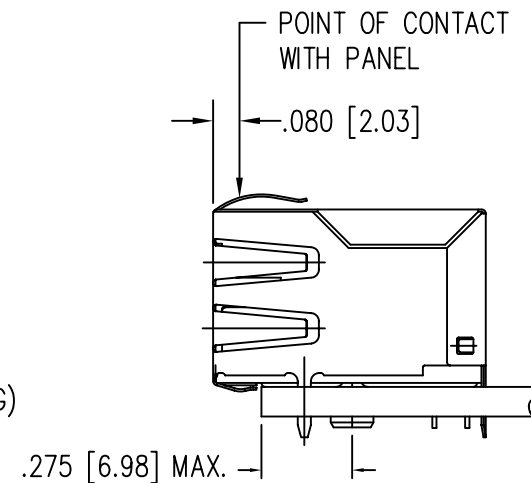
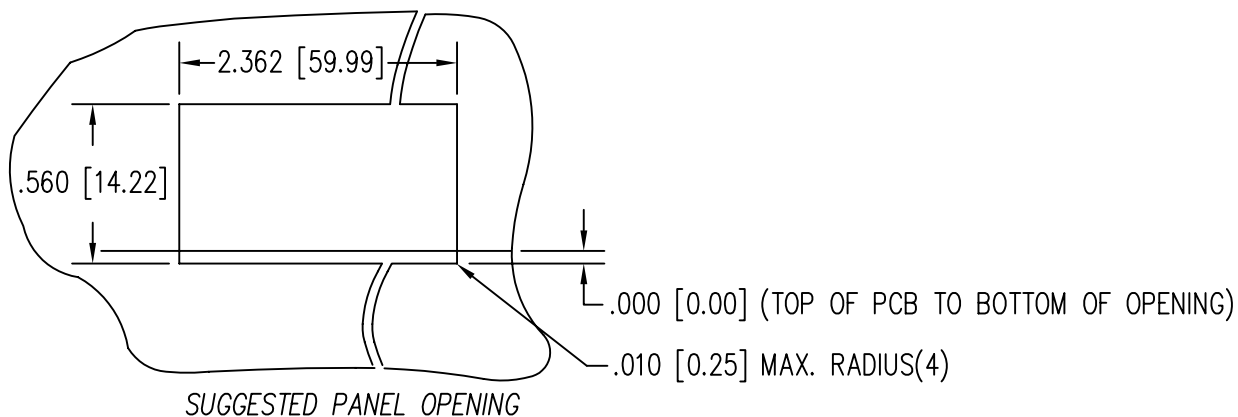
ALL CENTERLINE DIMENSIONS ARE BASIC.



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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DRAWING NO.	SI-10046	REV.	07
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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 $\pm .005$ [0.13]

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SHEET
4 OF 4

DRAWING NO. SI-10046 REV. 06