

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: $(P_6 - P_5 - P_4) : (J_6 - J_3)$: $1CT : 1 \pm 3\%$
 $(P_3 - P_2 - P_1) : (J_2 - J_1)$: $1.41CT : 1 \pm 3\%$

2.0 INDUCTANCE: $(P_6 - P_4)$: $350\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias
 $(P_3 - P_1)$: $696\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE: $P_6 - P_4$ (WITH J_6 AND J_3 SHORT) : 0.3 MAX. @ 1MHz
 $P_3 - P_1$ (WITH J_2 AND J_1 SHORT) : 0.6 MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P_6, P_5, P_4) TO (J_6, J_3) : 30pf MAX @ 1MHz
 (P_3, P_2, P_1) TO (J_2, J_1) : 30pf MAX @ 1MHz

5.0 DC RESISTANCE: $(J_6 - J_3) = (J_2 - J_1)$: 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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6.0 INSERTION LOSS: 1MHz TO 100MHz : 1.1dB TYP

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

8.0 VOLTAGE WITHSTAND: (J1, J2) TO (P1, P3) : 1500 VAC
(J3, J6) TO (P4,P6) : 1500 VAC

9.0 RISE TIME: OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX
PULSE WIDTH= 112nS : 3.0 nS MAX

10.0 CROSS TALK: 1-100 MHz : 30 dB MIN

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 35 dB TYP

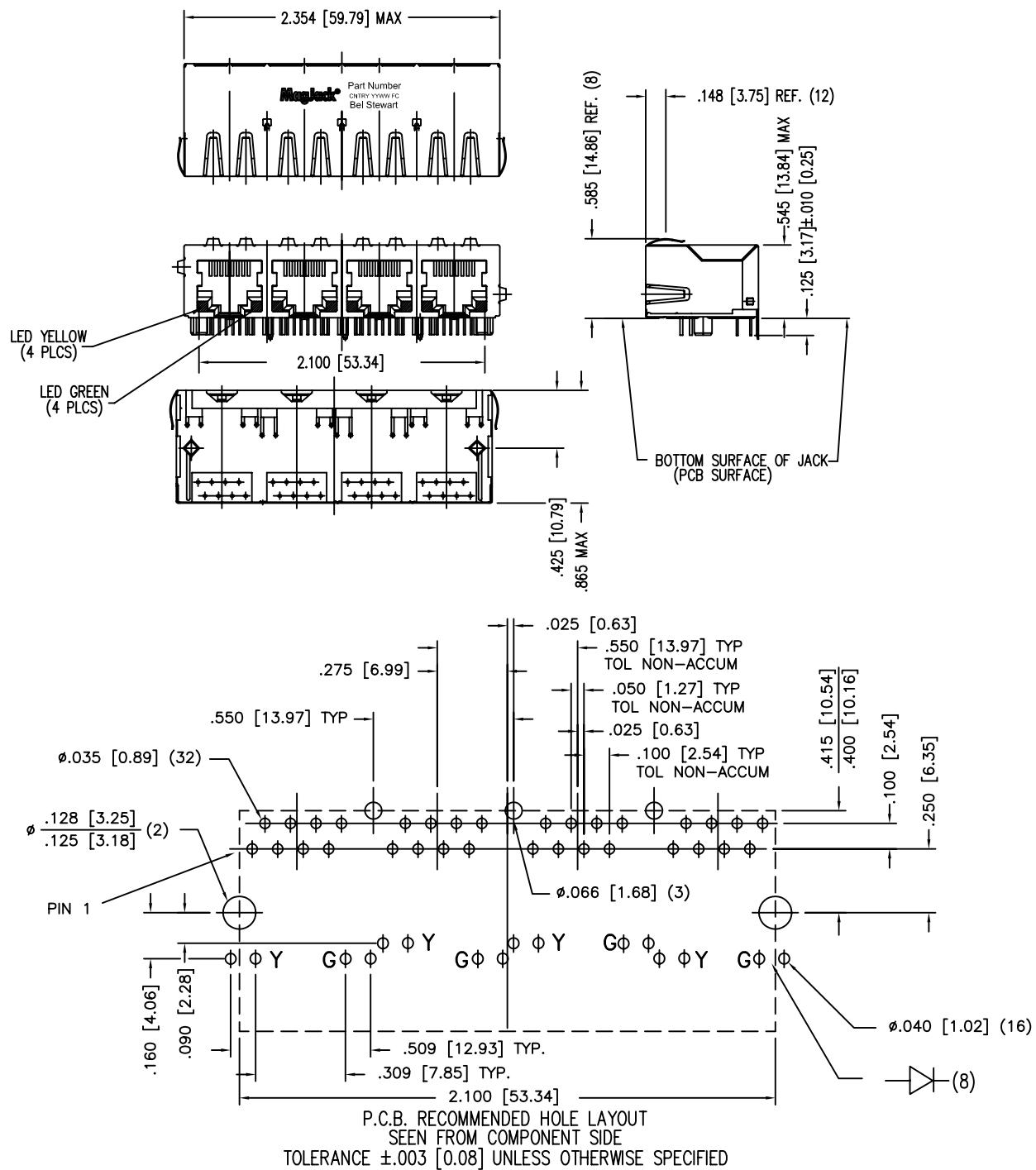
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SHEET 2 OF 4 DRAWING NO. SI-40158 REV. 08



NOTES:

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.

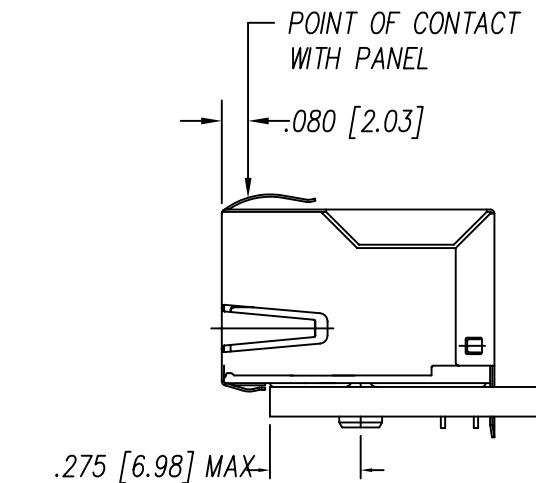
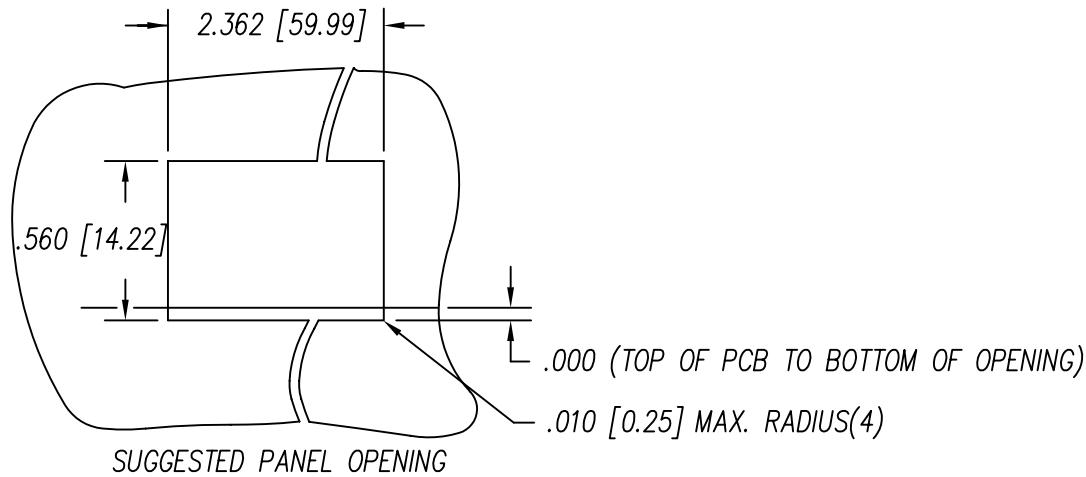
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	565 nm	2.5 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)

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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-40158 REV. 07