

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P8-P6-P7) : (J6-J3) : 1CT : 1 \pm 3%
(P2-P3-P1) : (J2-J1) : 1CT : 1 \pm 3%
- 2.0 INDUCTANCE: (P7-P8) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P1-P2) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P8-P7 (WITH J6 AND J3 SHORT) : 0.3 MAX. @ 1MHz
P2-P1 (WITH J2 AND J1 SHORT) : 0.3 MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P8,P6,P7) TO (J6,J3) : 30pf MAX @ 1MHz
(P3,P2,P1) TO (J2,J1) : 30pf MAX. @ 1MHz
- 5.0 DC RESISTANCE: (J1-J2) : 1.2 ohms Max.
(P8-P7) : 1.2 ohms Max.

NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.
- 2.0 ALL RESISTORS ARE \pm 5% TOLERANCE.

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
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DRAWING NO.
SI-60049

REV.
11

RECEIVE

- 6.0 RETURN LOSS: 1MHz TO 30MHz : -18dB MIN.
30MHz TO 80MHz : -(19-20 LOG (f/30MHz))
60MHz TO 80MHz : -12dB MIN.
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3) : 1500 VAC
(J3, J6) TO (P8,P7) : 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms : -1.0 dB MAX
1MHz TO 65MHz : -1.1 dB MAX
65MHz TO 100MHz
- 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: 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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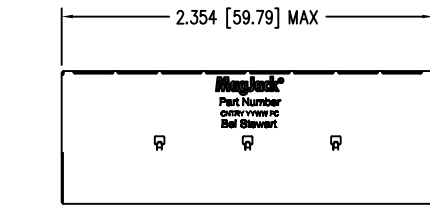
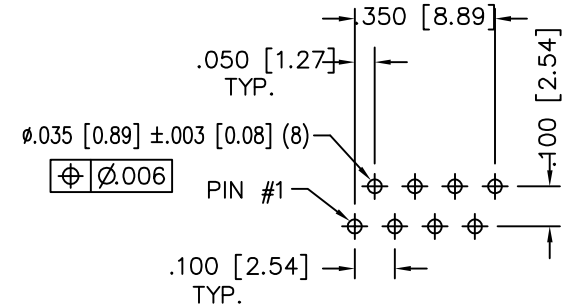
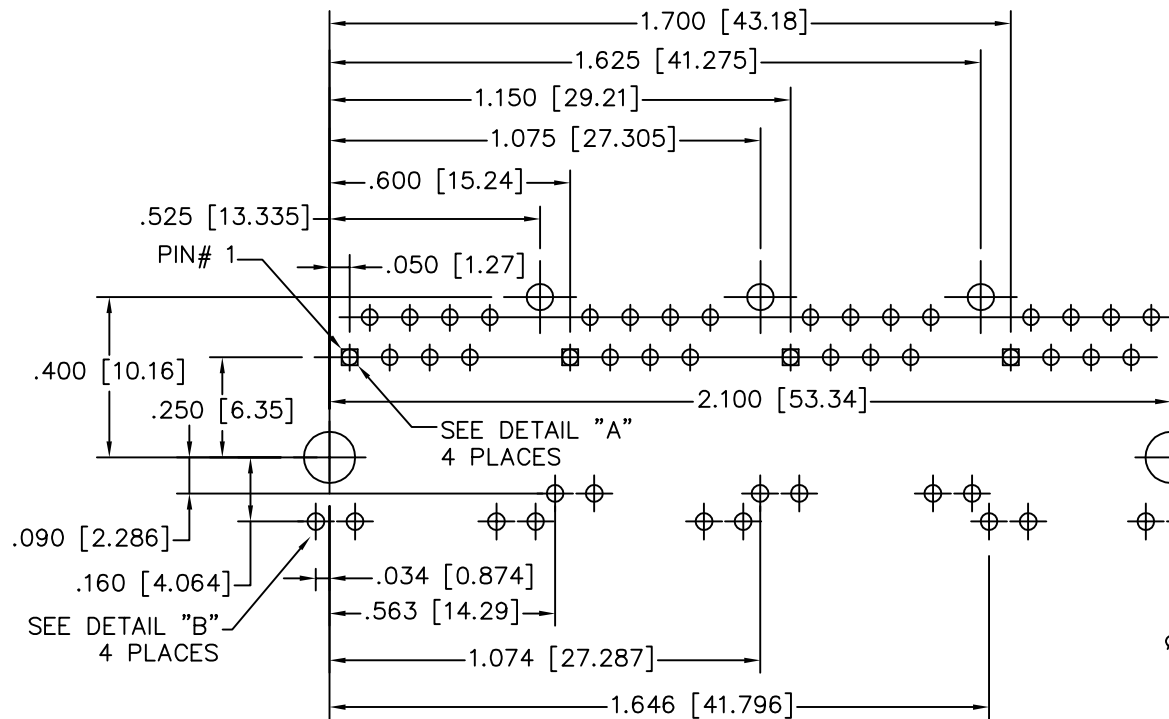
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SHEET
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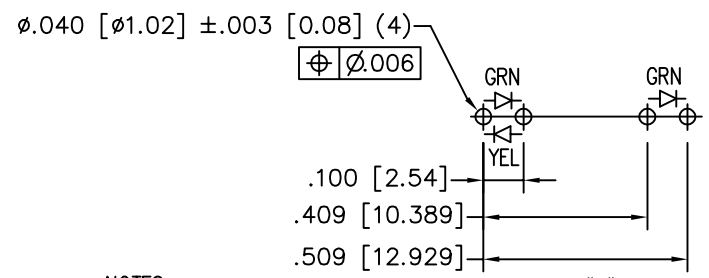
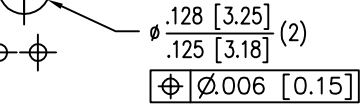
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REV. 11



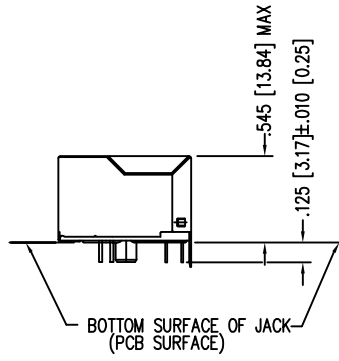
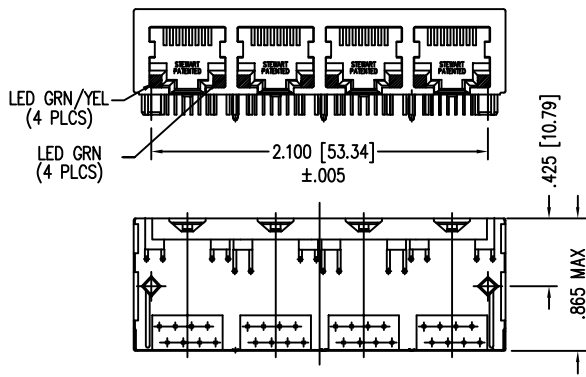
P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.



NOTES:
1. CONNECTOR MATERIALS: TYPICAL LED HOLE LAYOUT
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.
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS. HIGH TEMPERATURE REFLOW COMPATABLE - 230°C/90 SEC MAX.



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

* WITH A FORWARD CURRENT OF 20 mA

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