

ELECTRICAL SPECIFICATIONS:

- | | | |
|-------------------------------|------------------------------|--|
| 1.0 TURNS RATIO: | (P3-P2) : (J2-J1) | : 1CT : 1CT ±3% |
| | (P7-P4) : (J6-J3) | : 1CT : 1CT ±3% |
| | (P6-P5) : (J5-J4) | : 1CT : 1CT ±3% |
| | (P9-P8) : (J8-J7) | : 1CT : 1CT ±3% |
| 2.0 INDUCTANCE: | (P3-P2) ; (P7-P4) | : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS |
| | (P6-P5) ; (P9-P8) | : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS |
| 3.0 LEAKAGE INDUCTANCE: | P3-P2 (WITH J2 AND J1 SHORT) | : 0.3uH MAX. @ 1MHz |
| | P7-P4 (WITH J6 AND J3 SHORT) | : 0.3uH MAX. @ 1MHz |
| | P6-P5 (WITH J5 AND J4 SHORT) | : 0.3uH MAX. @ 1MHz |
| | P9-P8 (WITH J8 AND J7 SHORT) | : 0.3uH MAX. @ 1MHz |
| 4.0 INTERWINDING CAPACITANCE: | (P3-P2) : (J2-J1) | : 80pf MAX @ 1MHz |
| | (P7-P4) : (J6-J3) | : 80pf MAX @ 1MHz |
| | (P6-P5) : (J5-J4) | : 80pf MAX @ 1MHz |
| | (P9-P8) : (J8-J7) | : 80pf MAX @ 1MHz |
| 5.0 DC RESISTANCE: | (J6-J3) ; (J2-J1) ; 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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SHEET
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DRAWING NO.

SI-40057

REV.
03

RECEIVE

6.0 RETURN LOSS: 1MHz TO 30MHz	: 18dB MIN.
30MHz TO 80MHz	: $12-20 \text{ LOG } \left(\frac{F}{80\text{MHz}} \right)$
7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P2,P3) ; (J5,J4) TO (P6-P5)	: 1500 VAC
(J3,J6) TO (P7,P4) ; (J8,J7) TO (P9, P8)	: 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: 1-60 MHz	: 35 dB MIN
60-100 MHz	: 25 dB MIN
11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz	: 35dB TYP

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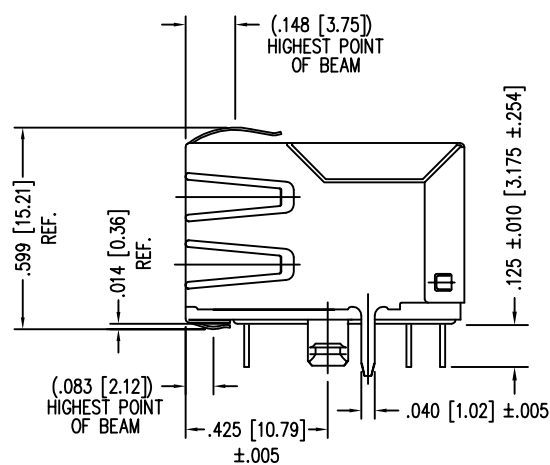
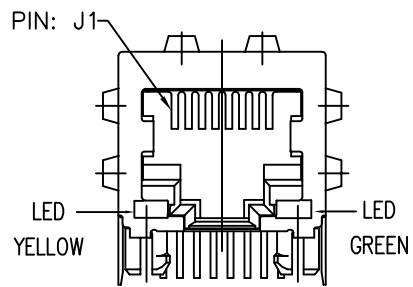
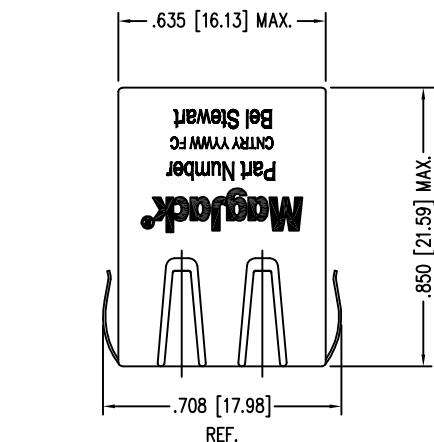
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DRAWING NO.

SI-40057

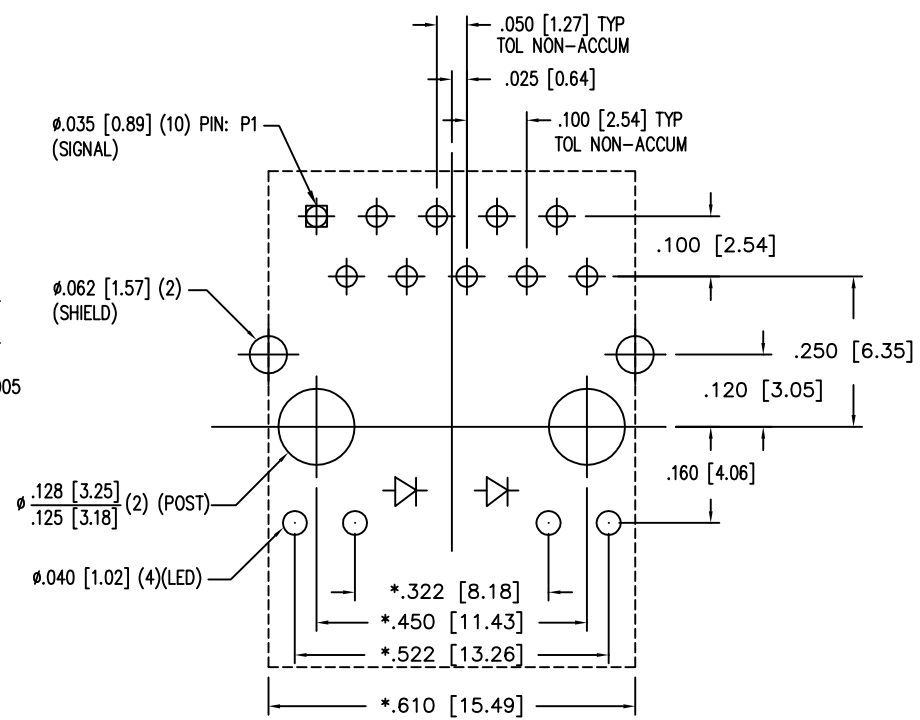
REV. 03



- 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. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE
USER THE ABILITY TO HAVE REASONABLE JACK/PANEL
CLEARANCES, YET MAINTAIN GROUNDING CAPABILITY.
 5. WAVE SOLDER COMPATIBLE – PREHEAT 125°C/90SECS.

LED SPECIFICATION			
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

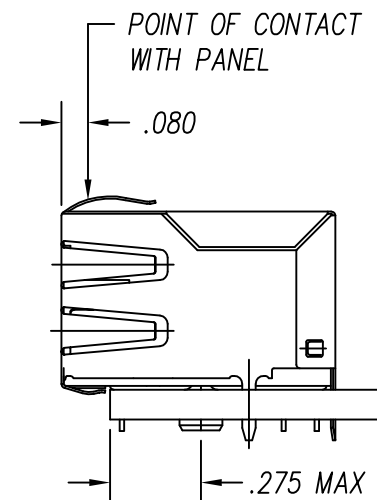
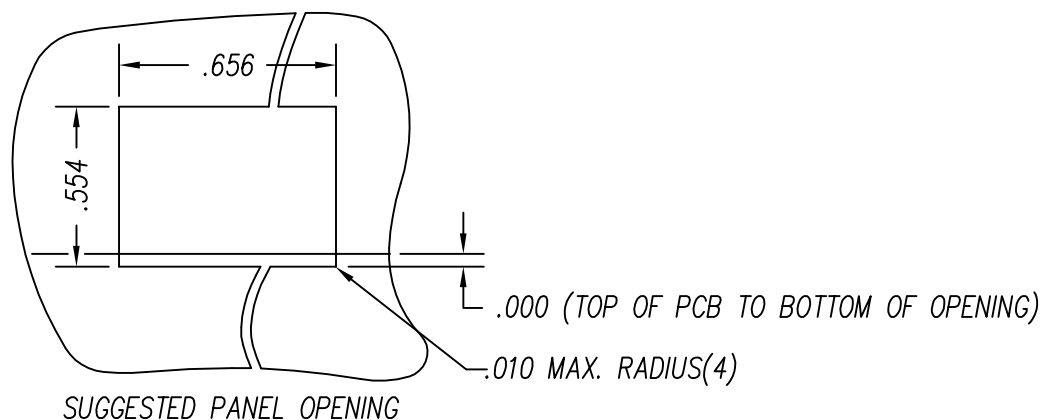


P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE
TOLERANCE ±.003 [0.08] UNLESS OTHERWISE SPECIFIED

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CT720034X1/24-00139



CT720034X1/24-0139

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DRAWING NO.

SI-40057 REV. 01