

ELECTRICAL SPECIFICATIONS:

<u>NOTES</u>

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

1.0 TURNS RATIO: (P6-P4-P3) : (J3-J6) : 1CT : 1CT ± 3% (P8-P5-P7) : (J1-J2) : 1CT : 1CT ± 3%

2.0 INDUCTANCE: (P8-P7) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias (P3-P6) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias

: 0.3 MAX. @ 1MHz

(P3-P6) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
3.0 LEAKAGE INDUCTANCE: P6-P3 (WITH J6 AND J3 SHORT) : 0.3 MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P6,P4,P3) TO (J6,J3) : 30pf MAX @ 1MHz (P8,P5,P7) TO (J2,J1) : 30pf MAX. @ 1MHZ

P8-P7 (WITH J2 AND J1 SHORT)

5.0 DC RESISTANCE: (J6-J3)=(J2-J1) : 1.4 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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SI-50178 REV. 03

RECEIVE

6.0 RETURN LOSS: (P6-P3)=100 OHMS AND (P8-P7)=100 OHM REF.

1MHz TO 30MHz : 18dB MIN. 30MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).

: 1500 VAC 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P8, P7) (J3, J6) TO (P3, P6)

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

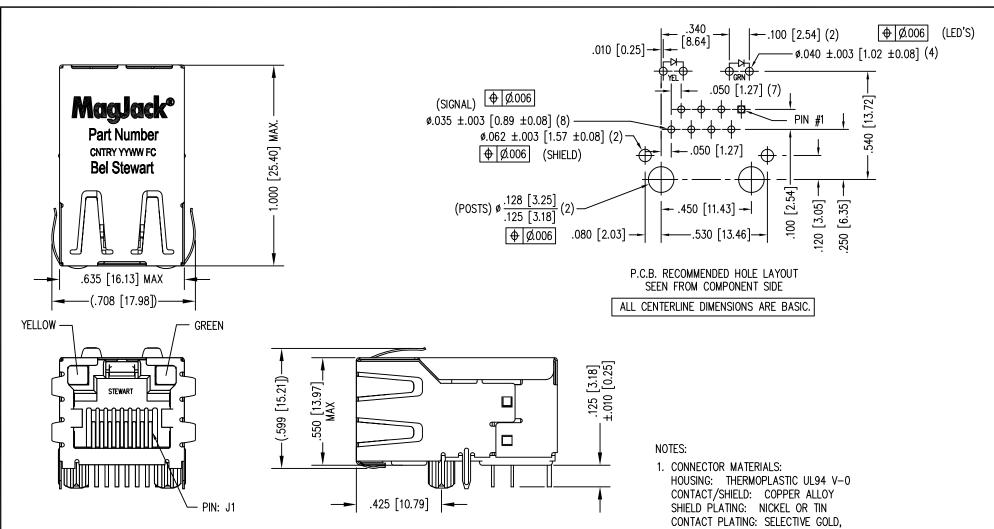
OUTPUT VOLTAGE = 1 V peak: 3.0 nS MAX PULSE WIDTH= 112nS : 3.0 nS MAX

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

11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : 35dB TYP

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

*WITH A FORWARD CURRENT OF 20 mA

50 MICRO-INCHES MIN. IN CONTACT AREA.

- 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 $\pm .005$ [0.13]
- WAVE SOLDER COMPATIBLE PREHEAT 125°C/90SECS.
 HIGH TEMPERATURE REFLOW COMPATABLE 230°C/90 SEC MAX.

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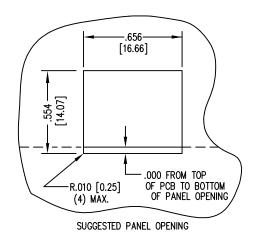
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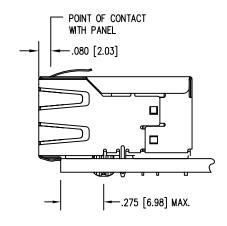
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- 1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
- 2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]

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