

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: $(P_1 - P_3 - P_2) : (J_3 - J_6)$: $1CT : 1CT \pm 3\%$
 $(P_7 - P_6 - P_8) : (J_1 - J_2)$: $1CT : 1CT \pm 3\%$

2.0 INDUCTANCE: $(P_7 - P_8)$: $350\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias
 $(P_1 - P_2)$: $350\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE: $P_1 - P_3 - P_2$ (WITH J_6 AND J_3 SHORT) : $0.3\mu H$ MAX. @ 1MHz
 $P_7 - P_6 - P_8$ (WITH J_2 AND J_1 SHORT) : $0.3\mu H$ MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P_1, P_3, P_2) TO (J_6, J_3) : $30pf$ TYP @ 1MHz
 (P_8, P_6, P_7) TO (J_2, J_1) : $30pf$ TYP @ 1MHz

5.0 DC RESISTANCE: $(J_6 - J_3) = (J_2 - J_1)$: 1.2 ohms Max.

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

2.0 ALL RESISTORS ARE $\pm 5\%$ TOLERANCE.

Bel Stewart Connector
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Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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SHEET
1 OF 3

DRAWING NO.

SI-50079 REV. 06

RECEIVE

6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (J6-J3) =100 OHM REF.

1MHz TO 30MHz	: -18dB MIN.
30MHz TO 60MHz	: -(19-20 LOG (f/30MHz))
60MHz TO 80MHz	: 12dB MIN.

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

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P7, P8)

: 1500 VAC

(J3, J6) TO (P1,P2)

: 1500 VAC

8.0 INSERTION LOSS: RS=RL=100 ohms

1-65MHz : -1 dB MAX

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: 1-65MHz

: -35 dB MIN

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz

: -30dB MAX

100MHz TO 130MHz

: -20dB MAX

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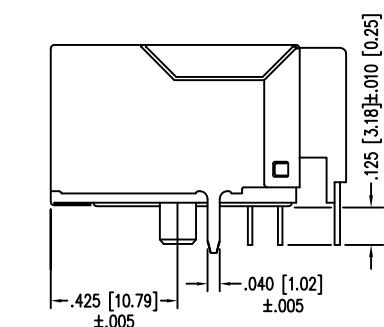
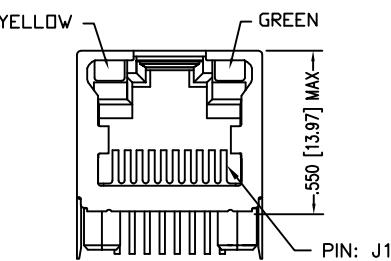
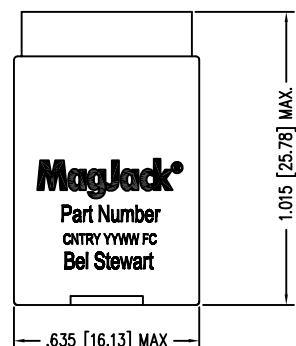
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SHEET
2 OF 3

DRAWING NO.

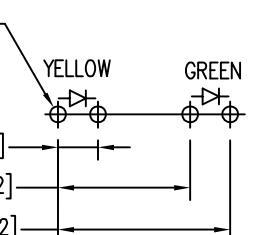
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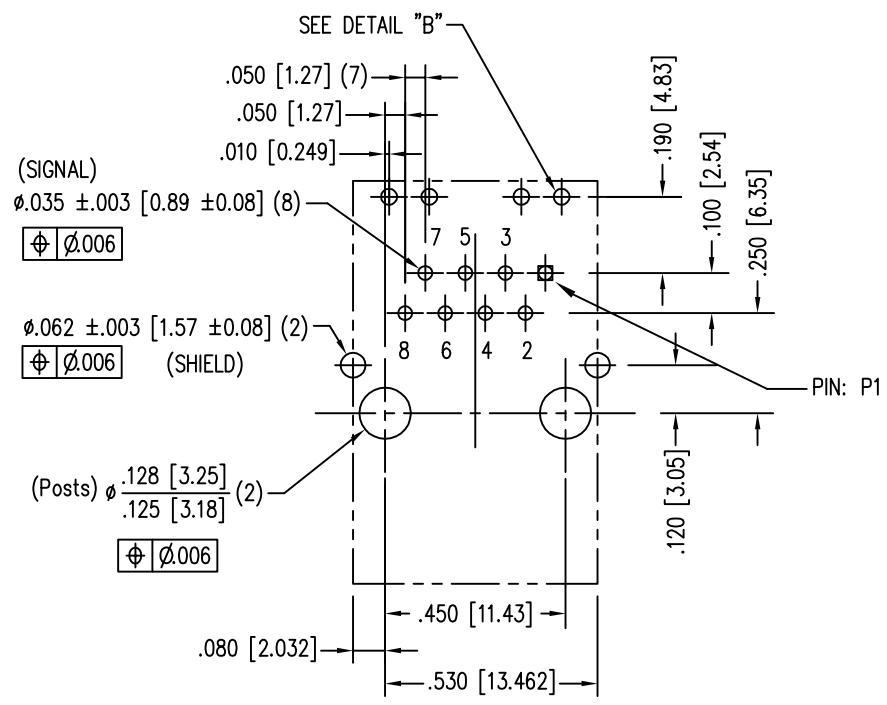
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	* Forward V (MAX)	(TYP)
GREEN	565 nm	2.5 V	2.1 V
YELLOW	590 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA

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DETAIL "B"
TYPICAL LED HOLE LAYOUT



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

ALL CENTERLINE DIMENSIONS ARE BASIC.

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. WAVE SOLDER COMPATIBLE – PREHEAT 125°C/90SECS.