

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: $(P7-P6-P8) : (J3-J6)$: $1CT : 1CT \pm 3\%$
 $(P1-P3-P2) : (J1-J2)$: $1CT : 1CT \pm 3\%$

2.0 INDUCTANCE: $(P7-P8)$: $350\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias
 $(P1-P2)$: $350\mu H$ MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE: $P8-P6-P7$ (WITH J6 AND J3 SHORT) : $0.3\mu H$ MAX. @ 1MHz
 $P2-P3-P1$ (WITH J2 AND J1 SHORT) : $0.3\mu H$ MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: $(P8,P6,P7)$ TO $(J6,J3)$: $30pf$ MAX @ 1MHz
 $(P2,P3,P1)$ TO $(J2,J1)$: $30pf$ MAX @ 1MHz

5.0 DC RESISTANCE: $(P7-P8)=(J2-J1)$: 1.2 ohms Max.

NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

Bel Stewart Connector
11118 Susquehanna Trail, South
Glen Rock, Pa 17327-9199
717.234.7512

MagJack®

<http://www.stewartconnector.com>

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RECEIVE

6.0 RETURN LOSS: $(J_3 - J_6) = 100$ OHMS AND $(P_1 - P_2) = 100$ OHM REF.

1MHz TO 30MHz

30MHz TO 60MHz

60MHz TO 80MHz

: -18dB MIN.

: -(19-20 LOG (f/30MHz))

: -12dB MIN.

NOTE: 100 OHMS CONNECTED TO $(J_2 - J_1)$ OR $(P_7 - P_8)$.

7.0 DIELECTRIC WITHSTAND: $\{J_1, J_2\}$ TO $\{P_7, P_8\}$

: 1500 VAC

$\{J_3, J_6\}$ TO $\{P_1, P_2\}$

: 1500 VAC

8.0 INSERTION LOSS: $RS = RL = 100$ ohms

1-65MHz

: -1.0 dB MAX

9.0 RISE TIME: $RS = 100$ OHMS AND $RL = 100$ OHMS

OUTPUT VOLTAGE = 1 V peak

PULSE WIDTH= 112nS

: 3.0 nS MAX

: 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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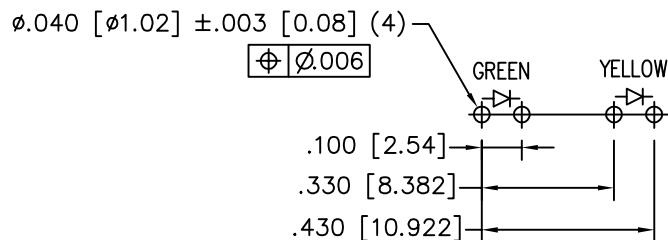
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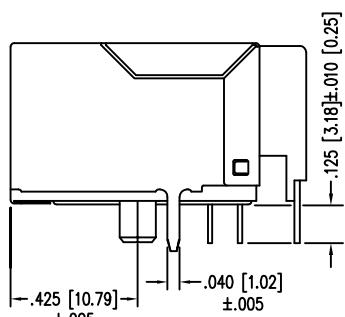
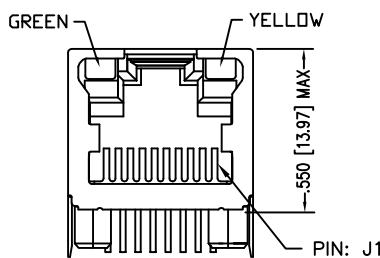
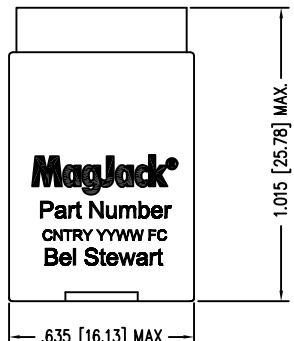
SHEET
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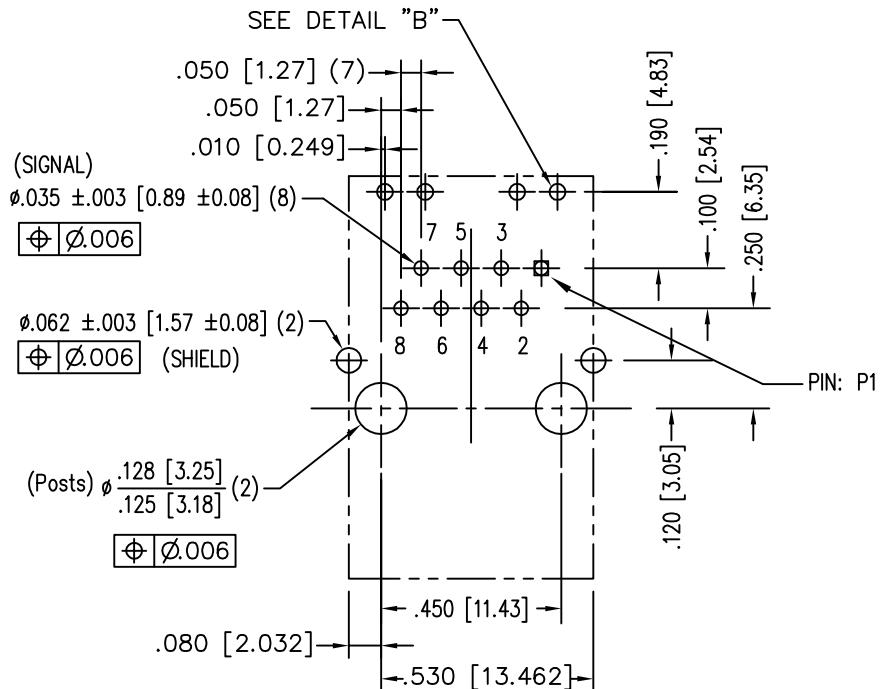


DETAIL "B"
TYPICAL LED HOLE LAYOUT



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



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.

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