

ELECTRICAL SPECIFICATIONS:

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

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

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

4.0 INTERWINDING CAPACITANCE: $\begin{matrix} (P8,P6,P7) \text{ TO } (J6,J3) \\ (P2,P3,P1) \text{ TO } (J2,J1) \end{matrix} : \begin{matrix} 30pf \text{ MAX @ } 1MHz \\ 30pf \text{ MAX @ } 1MHz \end{matrix}$

5.0 DC RESISTANCE: $(J6-J3)=(J2-J1) : 1.2 \text{ ohms Max.}$

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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01

RECEIVE

6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (P1-P2)=100 OHM REF.

1MHz TO 30MHz
30MHz TO 80MHz

: 18dB MIN.
: 12dB MIN.

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

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P2)
(J3, J6) TO (P7,P8)

: 1500 VAC
: 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
PULSE WIDTH= 112nS

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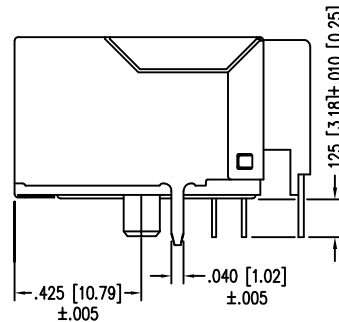
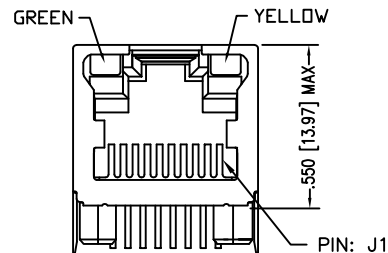
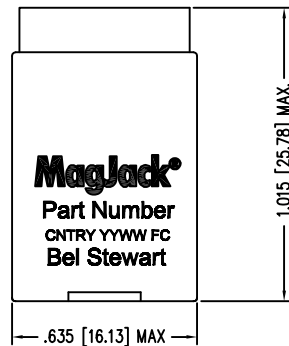
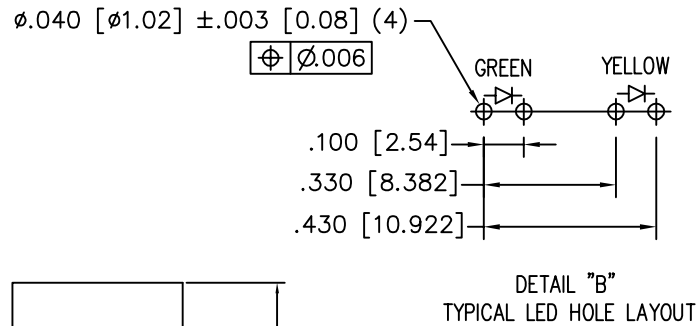
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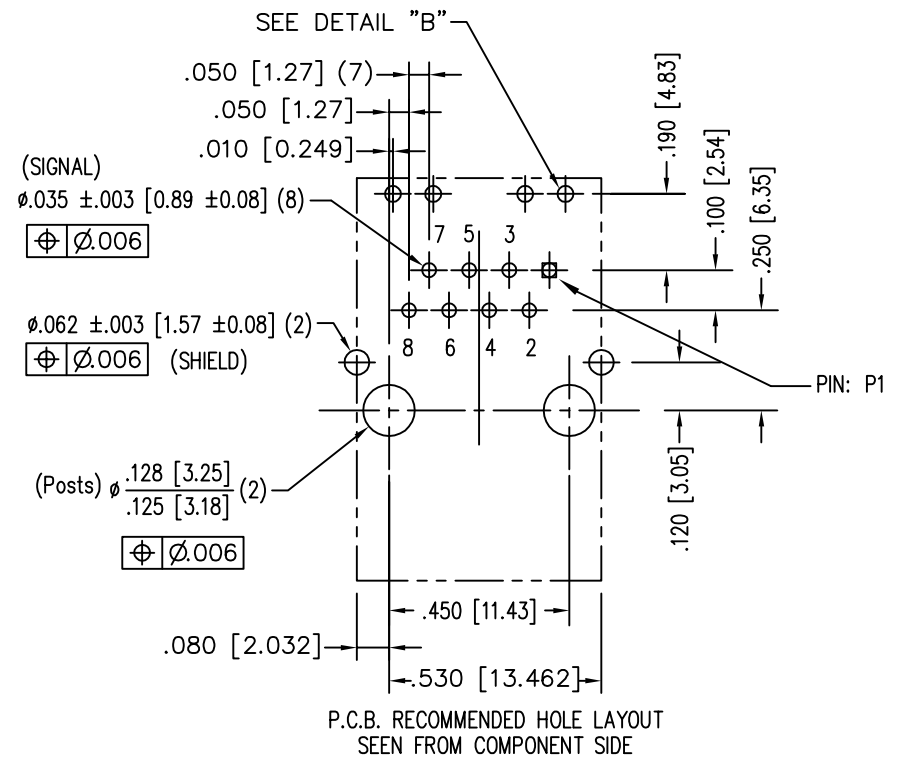
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LED SPECIFICATION			
STANDARD LED	WAVELENGTH	* Forward V (MAX)	(TYP)
GREEN	565 nm	2.5 V	2.1 V
YELLOW	590 nm	2.5 V	2.1 V

*WITH A FORWARD CURRENT OF 20 mA



ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

- 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.
- 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.

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