

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P5-P6-P4) : (J6-J3) : 1CT : 1CT ±2%  
(P10-P12-P11) : (J2-J1) : 1CT : 1CT ±2%
- 2.0 INDUCTANCE: (P10-P11) ; (P5-P4) : 350 uH MIN. @ 0.01V, 100KHz, 8 mA DC BIAS
- 3.0 LEAKAGE INDUCTANCE: P10-P11 (WITH J1 AND J2 SHORT) : 0.3uH MAX. @ 1MHz  
P5-P4 (WITH J6 AND J3 SHORT) : 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P10-P11) : (J1-J2) : 30pf MAX @ 1MHz  
(P5-P4) : (J6-J3) : 30pf MAX @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3) ; (J2-J1) : 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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6.0 RETURN LOSS: 1MHz TO 30MHz : -18dB MIN.  
60MHz TO 80MHz : -12dB MIN.

7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P10,P11) ; (J5,J4) TO (P4-P5) : 1500 VAC  
(J3,J6) TO (P5,P4) ; (J8,J7) TO (P10, P11) : 1500 VAC

8.0 INSERTION LOSS: RS=RL=100 ohms : -1.1 dB TYP  
100KHz TO 125MHz

9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX  
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX  
PULSE WIDTH= 112nS

10.0 CROSS TALK: 1-100 MHz : -35dB TYP

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

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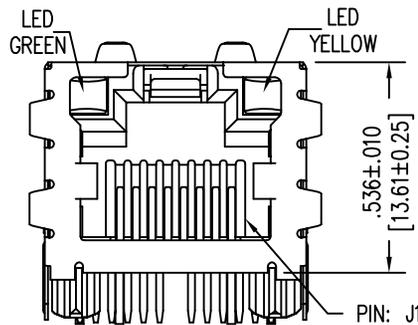
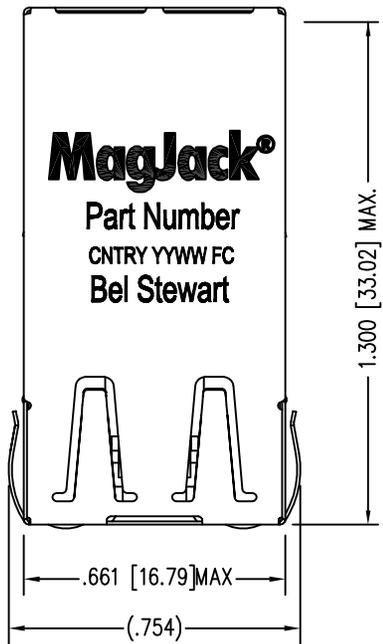
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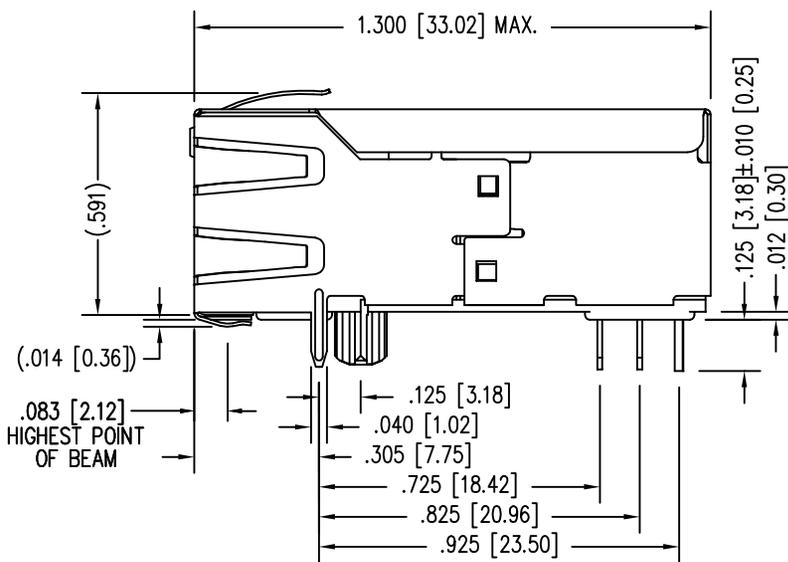
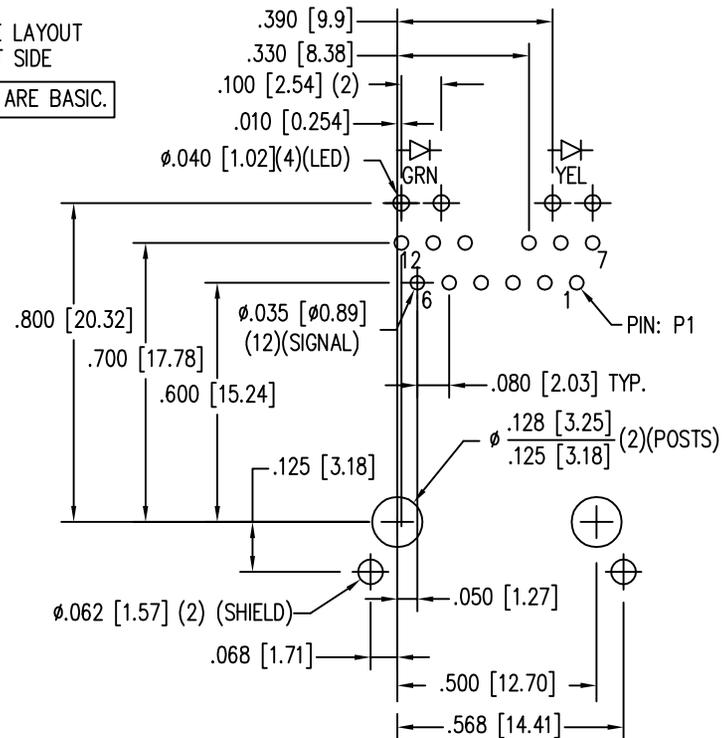
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P.C.B. RECOMMENDED HOLE LAYOUT  
 SEEN FROM COMPONENT SIDE

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 ARE NOT OMITTED.  
 ALL PINS ARE PRESENT.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE USER THE ABILITY TO HAVE REASONABLE JACK/PANEL CLEARANCES, YET MAINTAIN GROUNDING CAPABILITY.
- SOLDER REFLOW COMPATIBLE - 230°C/90 SEC MAX.

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

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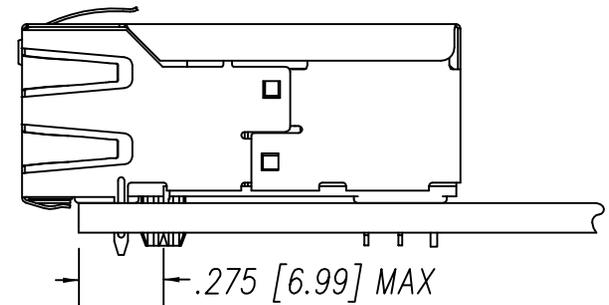
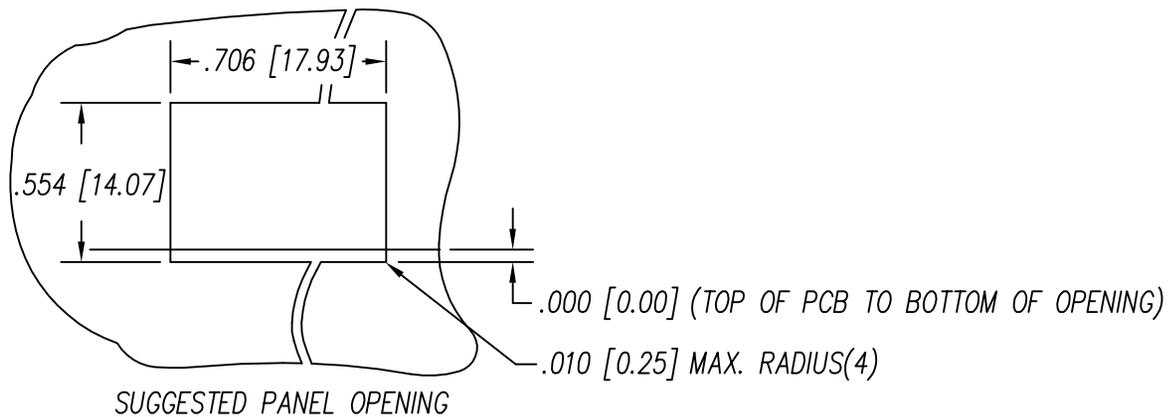
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THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.

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