

ELECTRICAL SPECIFICATIONS:

1.0 TURNS RATIO: (P3-P2) : (J4-J5) : 1 : 1 ±2%
 (P5-P4) : (J6-J3) : 1 : 1 ±2%
 (P9-P8) : (J8-J7) : 1 : 1 ±2%
 (P10-P11) : (J2-J1) : 1 : 1 ±2%

2.0 INDUCTANCE: (P3-P2) ; (P5-P4) : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS
 (P10-P11) ; (P9-P8) : 350 uH MIN. @ 0.1V, 100KHz, 8 mA DC BIAS

3.0 LEAKAGE INDUCTANCE: P3-P2 (WITH J4 AND J5 SHORT) : 0.3uH MAX. @ 1MHz
 P5-P4 (WITH J6 AND J3 SHORT) : 0.3uH MAX. @ 1MHz
 P9-P8 (WITH J8 AND J7 SHORT) : 0.3uH MAX. @ 1MHz
 P10-P11 (WITH J1 AND J2 SHORT) : 0.3uH MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P3-P2) : (J4-J5) : 35pf MAX @ 1MHz
 (P5-P4) : (J6-J3) : 35pf MAX @ 1MHz
 (P9-P8) : (J5-J4) : 35pf MAX @ 1MHz
 (P10-P11) : (J2-J1) : 35pf MAX @ 1MHz

5.0 DC RESISTANCE: (J6-J3) ; (J2-J1) ; (J7-J8) : (J4-J5) : 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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DRAWING NO. SI-50080-F

REV. 14

- 6.0 RETURN LOSS: 1MHz TO 30MHz : -19dB MIN.
 30MHz TO 60MHz : -13dB MIN.
 60MHz TO 80MHz : -12dB MIN.
 80MHz TO 100MHz : -10dB MIN.
- 7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P10,P11) ; (J5,J4) TO (P3-P2) : 1500 VAC
 (J3,J6) TO (P5,P4) ; (J8,J7) TO (P9, P8) : 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 : $-[33-20 \text{ LOG } (\frac{F}{50 \text{ MHz}})] \text{ MIN.}$
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : -35dB TYP

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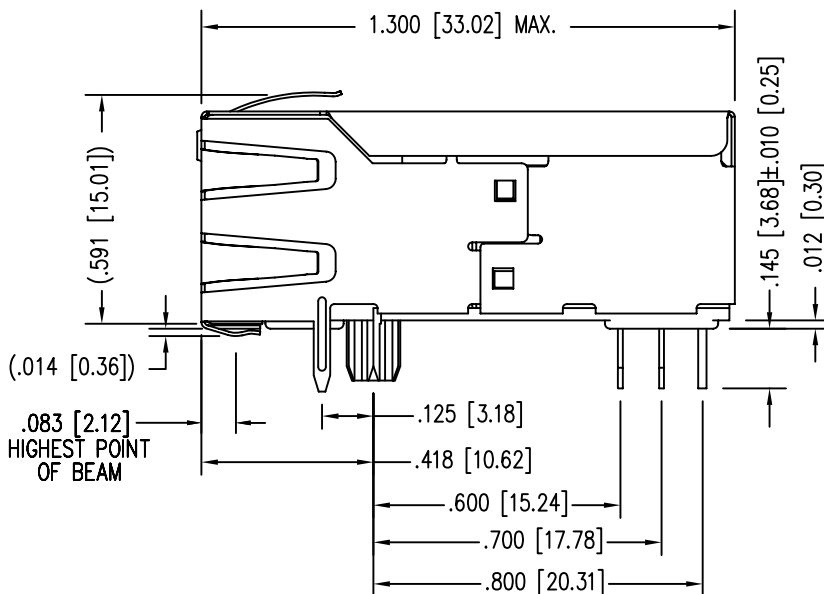
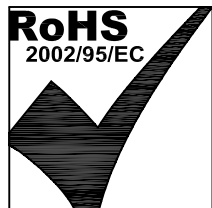
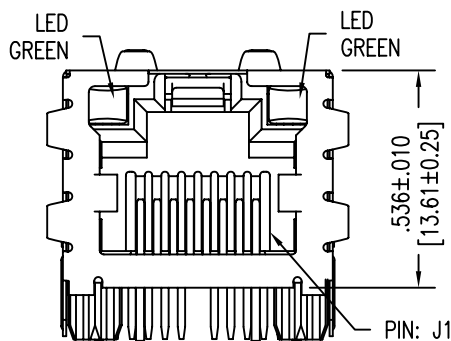
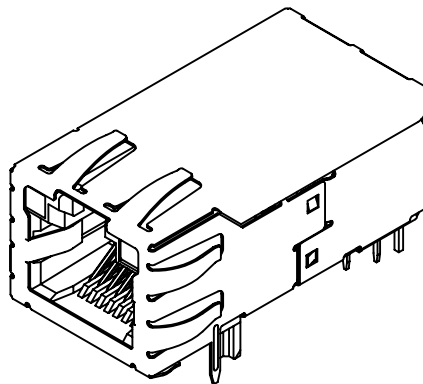
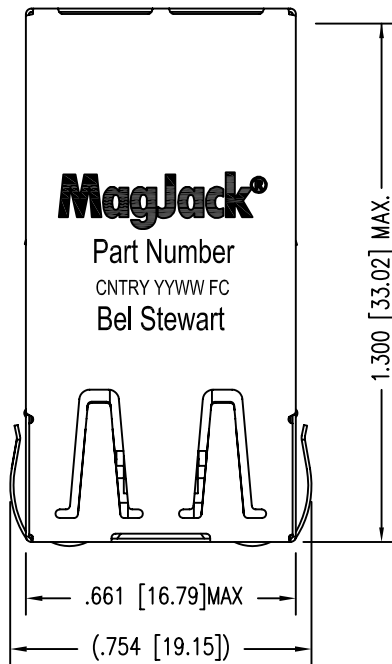
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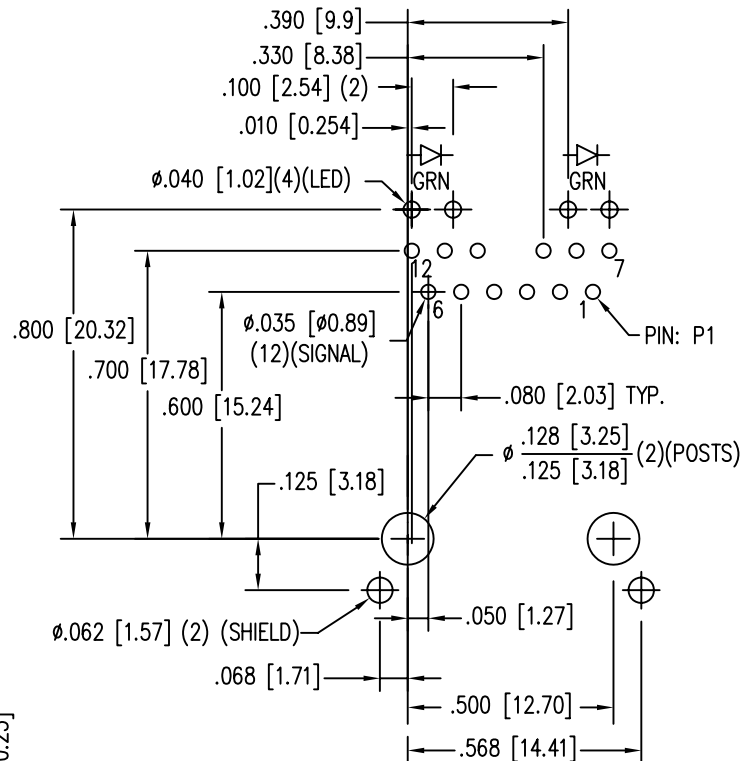
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| STANDARD LED | WAVELENGTH | * Forward V (MAX) | (TYP) |
|--------------|------------|-------------------|-------|
| GREEN | 565 nm | 2.5 V | 2.2 V |

* WITH A FORWARD CURRENT OF 20 mA



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.
- THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE
USER THE ABILITY TO HAVE REASONABLE JACK/PANEL
CLEARANCES, YET MAINTAIN GROUNDING CAPABILITY.
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR
10 SECONDS MAX.

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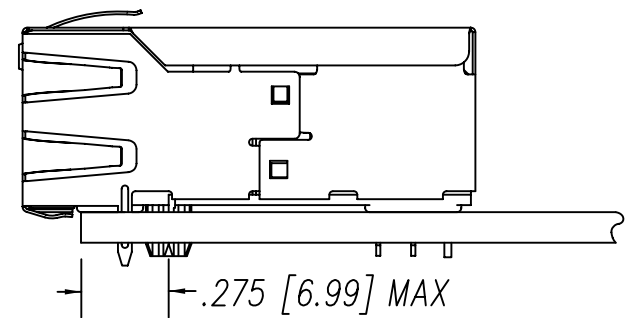
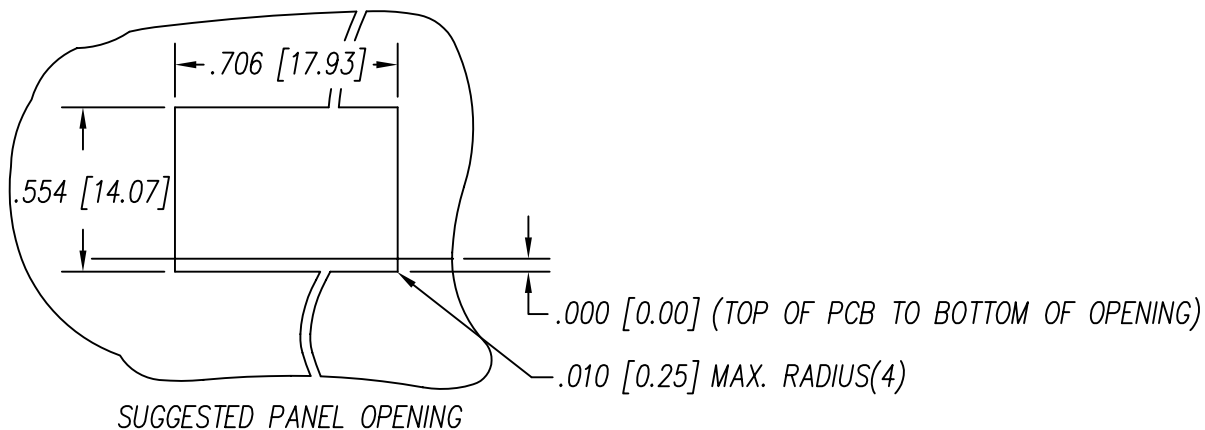


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THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.

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