

#### ELECTRICAL SPECIFICATIONS:

- |     |  |  |
|-----|--|--|
| 1.0 | Turns Ratio: (P6-P5-P4) : (J6-J3)                | : 1CT : 1CT ± 3%                         |
|     | (P3-P2-P1) : (J2-J1)                             | : 1CT : 1CT ± 3%                         |
| 2.0 | Inductance: (P6-P4)                              | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
|     | (P3-P1)  | : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias |
| 3.0 | Leakage Inductance: P6-P4 (WITH J6 AND J3 SHORT) | : 0.3 MAX. @ 1MHz                        |
|     | P3-P1 (WITH J2 AND J1 SHORT)                     | : 0.3 MAX. @ 1MHz                        |
| 4.0 | Interwinding Capacitance: (P6,P5,P4) TO (J6,J3)  | : 30pf MAX @ 1MHz                        |
|     | (P3,P2,P1) TO (J2,J1)                            | : 30pf MAX. @ 1MHz                       |
| 5.0 | DC Resistance: (J6-J3)=(J2-J1)                   | : 1.2 ohms Max.                          |

#### NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

Bel Stewart Connector  
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Glen Rock, Pa 17327-9199  
717.234.7512

**MagJack®**

<http://www.stewartconnector.com>

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RECEIVE

6.0 RETURN LOSS: 1MHz TO 30MHz : 18dB MIN.  
60MHz TO 80MHz : 12dB MIN.

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

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3) : 1500 VAC  
(J3, J6) TO (P4, P6) : 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 : 3.0 nS MAX  
PULSE WIDTH= 112nS : 3.0 nS MAX

10.0 CROSS TALK: 1MHz TO 100MHz : 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 35dB TYP

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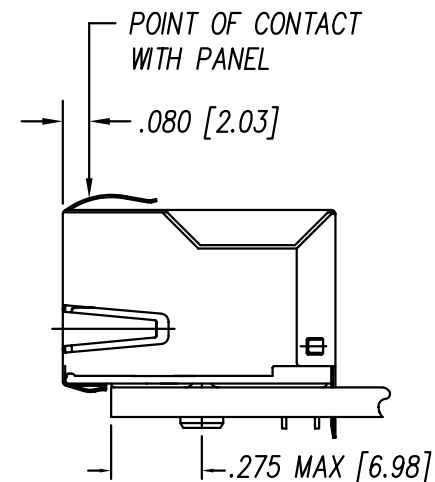
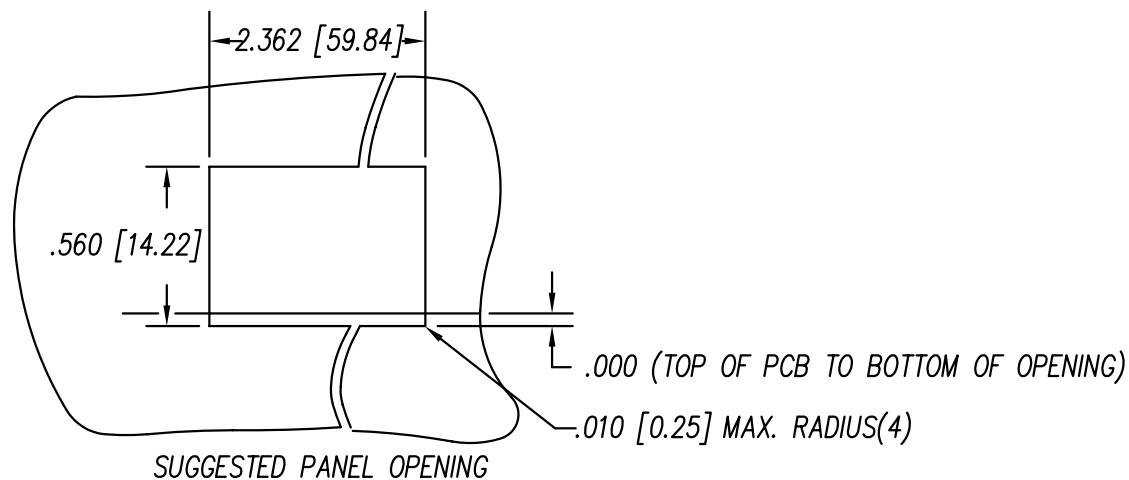
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1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE  $\pm 0.005$  [0.13]

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