

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.



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6.0 RETURN LOSS: 1MHz TO 30MHz
 30MHz TO 60MHz
 60MHz TO 80MHz
 80MHz TO 100MHz

: -19dB MIN.
 : -13dB MIN.
 : -12dB MIN.
 : -10dB MIN.

7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P10,P11) ; (J5,J4) TO (P3-P2)
 (J3,J6) TO (P5,P4) ; (J8,J7) TO (P9, P8)

: 1500 VAC
 : 1500 VAC

8.0 INSERTION LOSS: RS=RL=100 ohms
 100KHz TO 125MHz

: -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

: $-[33-20 \text{ LOG } (\frac{F}{50 \text{ MHz}})] \text{ MIN.}$

11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz

: -35dB TYP

Bel Stewart Connector

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MagJack®

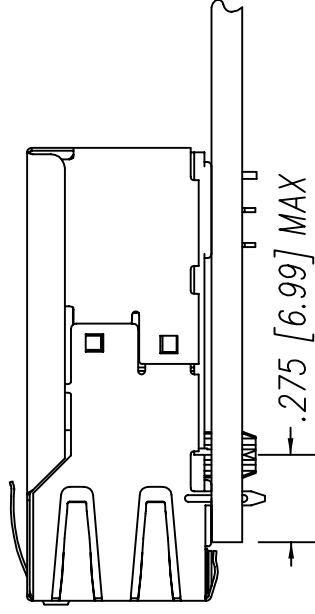
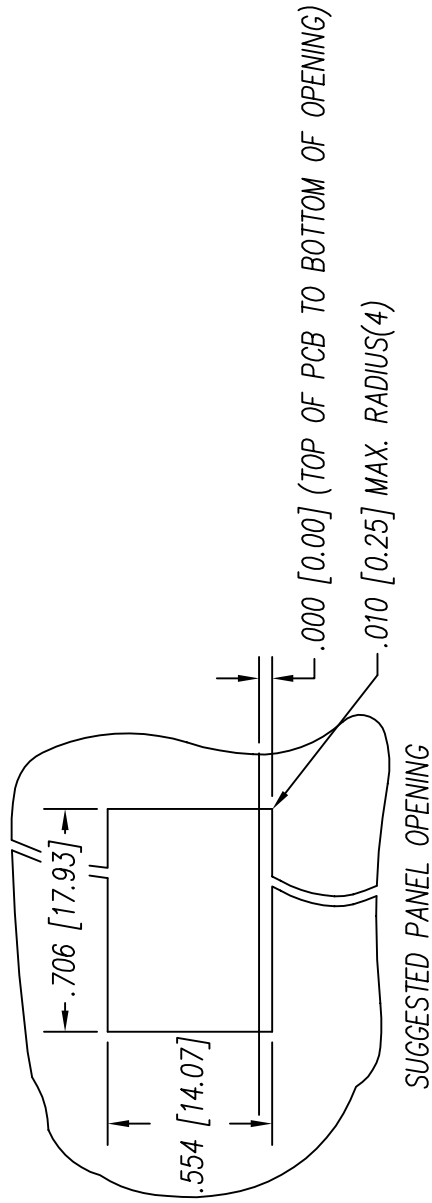
<http://www.stewartconnector.com>

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SHEET
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DRAWING NO.
 S-50080-E

REV. 1.3



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 ± 0.005 [0.13]

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SHEET
4 OF 4

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