

### NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

### ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P5-P6-P4) : (J3-J6) : 1CT : 1CT± 3%  
(P8-P7) : (J1-J2) : 1CT : 1CT± 3%
- 2.0 INDUCTANCE: (P7-P8) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P8-P7 (WITH J1 AND J2 SHORT) : : 0.3uH MAX. @ 1MHz  
P5-P4 (WITH J3 AND J6 SHORT) : : 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P8,P7) TO (J1,J2) : : 30pf MAX @ 1MHz  
(P5,P4) TO (J3,J6) : : 30pf MAX @ 1MHz
- 5.0 DC RESISTANCE: (P5-P4)=(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>

THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND PROPERTY OF BEL STEWART CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT PRIOR WRITTEN CONTENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

SHEET  
1 OF 3

DRAWING NO.

SI-50116 REV. 01

6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (J3-J6)=100 OHM REF.  
1MHz TO 30MHz : -18dB MIN.  
30MHz TO 60MHz : -(19-20 LOG (f/30MHz))  
60MHz TO 80MHz : -12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (P4-P5).

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P7, P8) : 1500 VAC  
(J3, J6) TO (P5,P4) : 1500 VAC

8.0 INSERTION LOSS: RS=RL=100 ohms : -1.0 dB MAX  
1-65MHz

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: 1-65MHz : -35 dB MIN

11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : -30dB MAX  
100MHz TO 130MHz : -20dB MAX

Bel Stewart Connector  
11118 Susquehanna Trail, South  
Glen Rock, Pa 17327-9199  
717.234.7512

**MagJack**

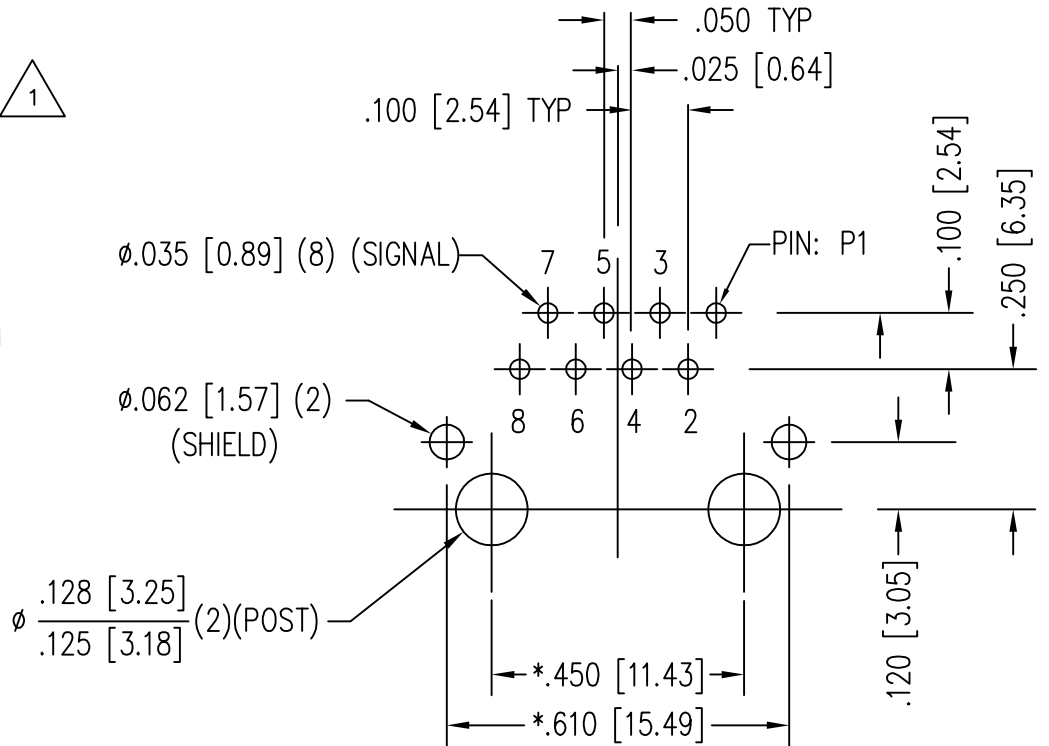
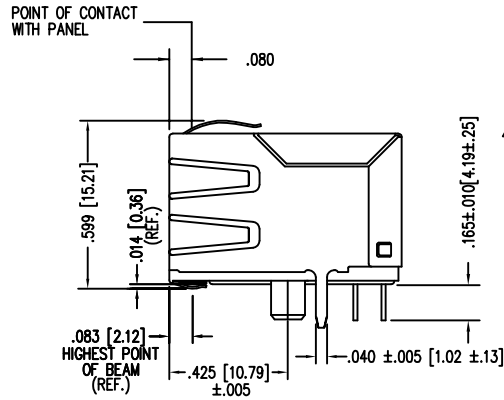
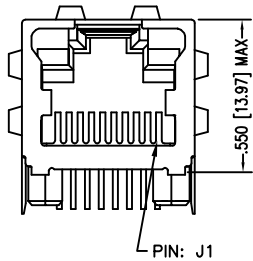
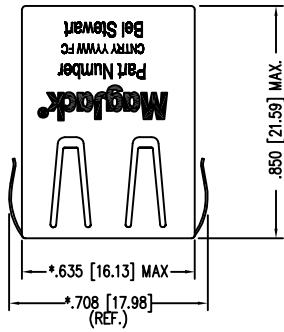
<http://www.stewartconnector.com>

THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND PROPERTY OF BEL STEWART CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT PRIOR WRITTEN CONTENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

SHEET  
2 OF 3

DRAWING NO.

SI-50116 REV. 01



P.C.B. RECOMMENDED HOLE LAYOUT  
 SEEN FROM COMPONENT SIDE  
 TOLERANCE  $\pm .003$  [0.08] UNLESS OTHERWISE SPECIFIED

- NOTES:
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS
  - DIMENSIONS SHOWN WITH "\*" TO BE CENTRAL ABOUT CENTER LINE
  - DIMENSIONS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE.
  - PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
  - 50 MICRO-INCH SELECTIVE GOLD PLATING
  - HIGH TEMPERATURE REFLOW COMPATABLE - 230°C/90 SEC MAX.

1 NOTE LEAD LENGTH

CT750006

THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND PROPERTY OF BEL STEWART CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT PRIOR WRITTEN CONTENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

Bel Stewart Connector  
 11118 Susquehanna Trail, South  
 Glen Rock, Pa 17327-9199  
 717.234.7512

**MagJack**

<http://www.stewartconnector.com>

SHEET  
3 OF 3

DRAWING NO.

SI-50116 REV. 03