

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P3-P7-P6) : (J3-J6) : 1CT : 1CT ±3%
(P1-P4-P5-P2) : (J1-J2) : 1CT : 1CT ±3%
- 2.0 INDUCTANCE: (P3-P6) : 400uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P1-P2) : 400uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P3-P6 (WITH J6 AND J3 SHORT) : 0.3uH MAX. @ 1MHz
P2-P1 (WITH J2 AND J1 SHORT) : 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P3,P6,P7) TO (J6,J3) : 30pf MAX @ 1MHz
(P2,P4,P5,P1) TO (J2,J1) : 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
<http://www.stewartconnector.com>
MagJack®

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 CONSENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

SHEET 1 OF 4	DRAWING NO. SI-70016	REV. 03
-----------------	-------------------------	------------

- 6.0 RETURN LOSS: (J3-J6)=100 OHMS AND (P1-P2)=100 OHM REF.
 1MHz TO 30MHz : -20dB MIN.
 30MHz TO 60MHz : $-(19-20\text{LOG}(f/30\text{MHz}))$ MIN
 80MHz : -12dB MIN.
- NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (P6-P3).
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P2) : 1500 RMS
 (J3, J6) TO (P3,P6) : 1500 RMS
- 8.0 INSERTION LOSS: RS=RL=100 ohms : -1 dB MAX
 1MHz TO 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: 1-65 MHz : -35 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : -30 dB
 100MHz TO 130MHz : -20 dB

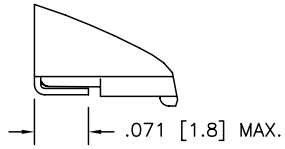
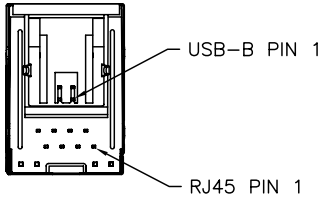
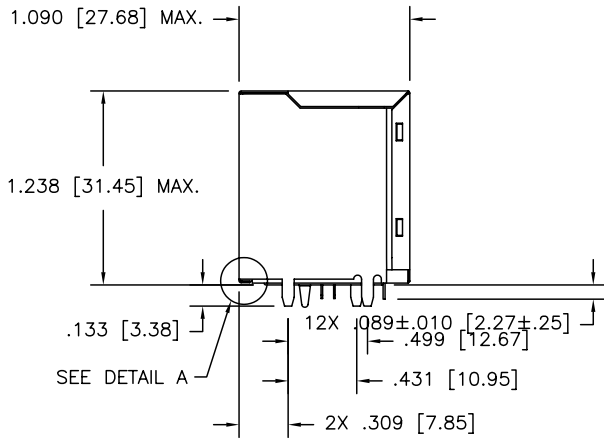
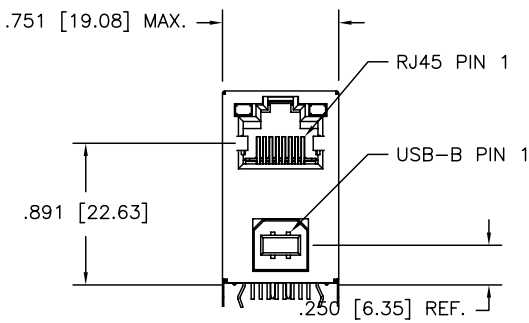
Bel Stewart Connector
 11118 Susquehanna Trail, South
 Glen Rock, Pa 17327-9199
 717.234.7512 <http://www.stewartconnector.com>

MagJack®

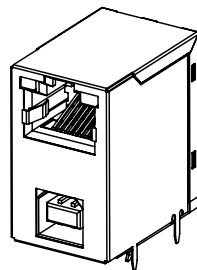
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND PROPERTY OF BEL STEWART CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT PRIOR WRITTEN CONTENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

SHEET
2 OF 4

DRAWING NO. SI-70016 REV. 03



DETAIL A
SCALE 5=1



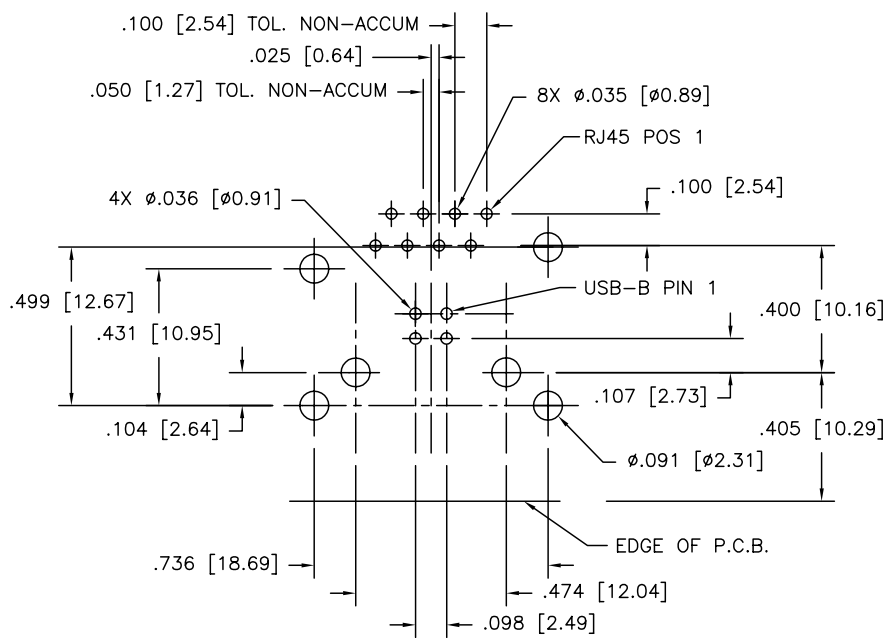
NOTES:

1. 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.
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
5. WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

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 3 OF 4	DRAWING NO. SI-70016	REV. 09
-----------------	-------------------------	------------



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 CONSENT OF BEL STEWART CONNECTOR. THE SUBJECT MATTER MAY BE PATENTED OR A PATENT MAY BE PENDING.

SHEET
 4 OF 4

DRAWING NO. SI-70016 REV. 06