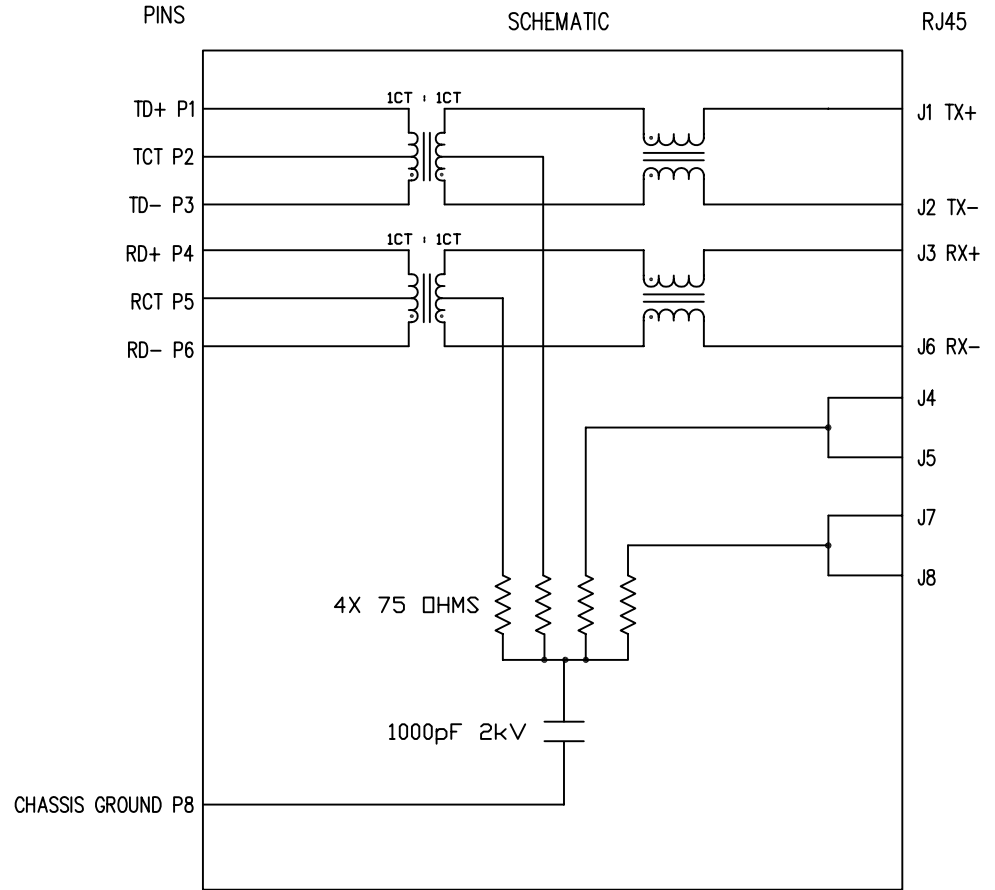


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ELECTRICAL CHARACTERISTICS @ 25°C

- 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) : 0.3uH MAX. @ 1MHz  
P3-P1 (WITH J2 AND J1 SHORT) : 0.3uH 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.
- 6.0 RETURN LOSS: (P6-P4)=100 OHMS AND (P1-P3)=100 OHM REF.  
1MHz TO 30MHz : 18dB MIN.  
60MHz TO 80MHz : 12dB MIN.  
NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).
- 7.0 VOLTAGE WITHSTAND: (J1, J2) TO (P1, P3) : 1500 Vrms  
(J3, J6) TO (P4,P6) : 1500 Vrms
- 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

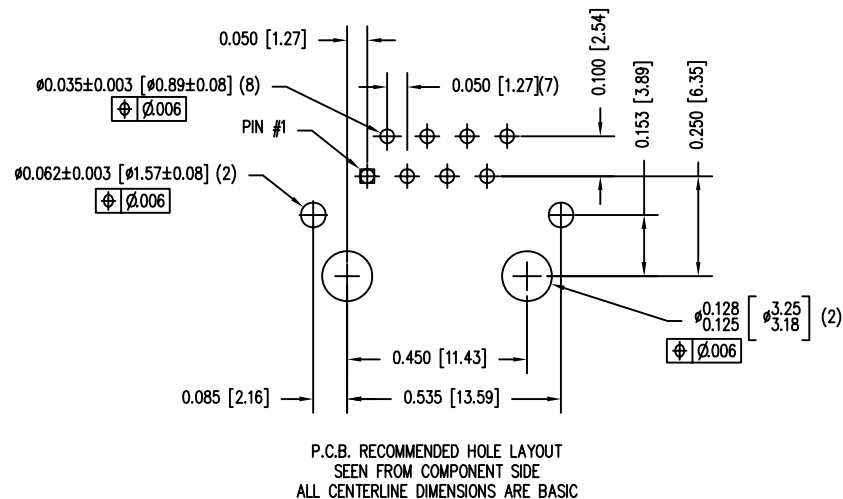
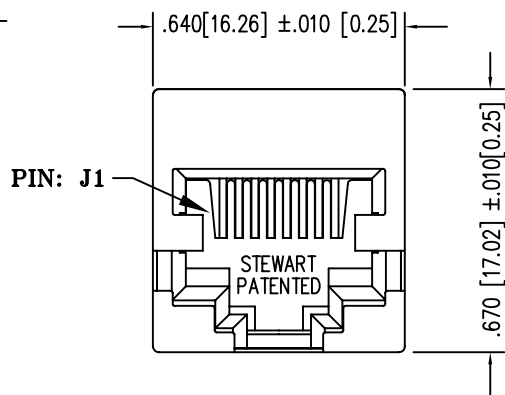
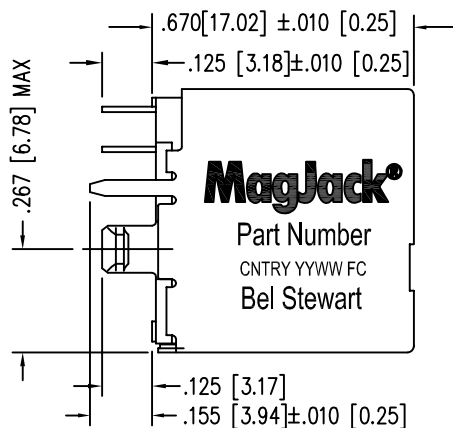


NOTES: 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

|               |          |  |                        |               |                              |           |   |
|---------------|----------|--|------------------------|---------------|------------------------------|-----------|---|
| ORIGINATED BY | DATE     | TITLE  | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |           | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
| Bain Liu      | 03-09-09 | <b>MagJack<sup>®</sup></b><br>10/100BT<br>VERTICAL, SHIELDED<br>PATENTED | SI-16001-F             | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : A1 |   |
| DRAWN BY      | DATE     |  | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |   |
| LW Yuan       | 03-09-09 |  | SI-16001-F.DWG         | .XX           | ±0.005                       | PAGE : 2  |   |
|               |          |  |                        | .XXX          |                              |           |   |

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RoHS  
2002/95/EC



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.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.

|                                  |                         |   |   |   |   |   |
|----------------------------------|-------------------------|---|---|---|---|---|
| ORIGINATED BY<br><b>Bain Liu</b> | DATE<br><b>03-09-09</b> | TITLE<br><b>MagJack®<br/>10/100BT<br/>VERTICAL, SHIELDED<br/>PATENTED</b> | PART NO. / DRAWING NO.<br><b>SI-16001-F</b> | STANDARD DIM.<br>TOL. IN INCH<br>.X<br>.XX<br>.XXX ±0.005 | [ ] METRIC DIM. AS REFERENCE<br>UNIT : INCH [mm]<br>SCALE : N/A<br>REV. : A1<br>SIZE : A4<br>PAGE : 3 | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
| DRAWN BY<br><b>LW Yuan</b>       | DATE<br><b>03-09-09</b> | FILE NAME<br><b>SI-16001-F.DWG</b>  |   |   |   |   |