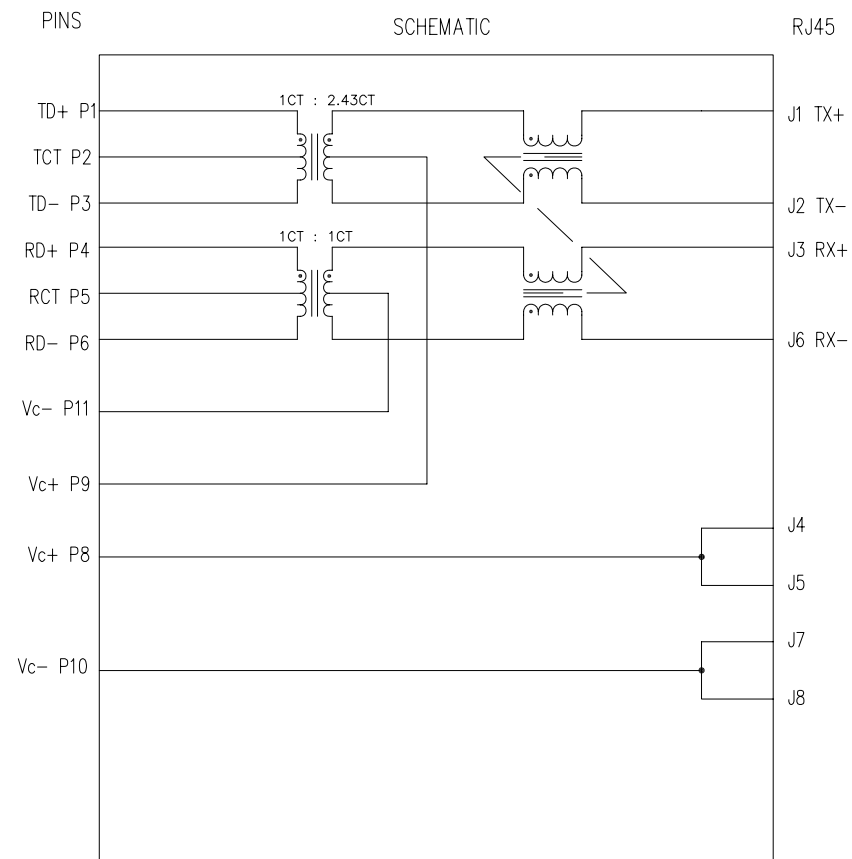


## ELECTRICAL CHARACTERISTICS @ 25°C

|                           |                                                |                             |
|---------------------------|------------------------------------------------|-----------------------------|
| 1.0 TURNS RATIO:          | (P1-P3) : (J1-J2)                              | : 1CT : 2.43CT $\pm$ 2%     |
|                           | (P4-P6) : (J3-J6)                              | : 1CT : 1CT $\pm$ 2%        |
| 3.0 INDUCTANCE:           | (P1-P3)                                        | : 45uH MIN. @ 0.1V, 100KHz  |
|                           | (P4-P6)                                        | : 230uH MIN. @ 0.1V, 100KHz |
| 4.0 RETURN LOSS:          | (P1-P3)=100 OHMS REF. AND (P4-P6)=100 OHM REF. |                             |
|                           | 1MHz TO 10MHz                                  | : -18dB MIN.                |
| 5.0 INSERTION LOSS:       | RS & RL =100 ohms                              |                             |
|                           | 1MHz TO 10MHz                                  | : -1.0dB MAX                |
| 6.0 CROSS TALK:           | 1MHz - 10 MHz                                  | : -40dB MIN                 |
| 7.0 CM TO CM ATTENUATION: | 10MHz - 30 MHz                                 | : -40dB MIN                 |
|                           | 100MHz                                         | : -30dB MIN                 |
| 8.0 DIELECTRIC WITHSTAND: | (P1-P3) TO (J1-J2)                             | : 1500 Vrms                 |
|                           | (P4-P6) TO (J3-J6)                             | : 1500 Vrms                 |



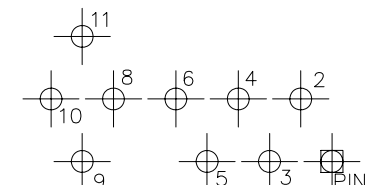
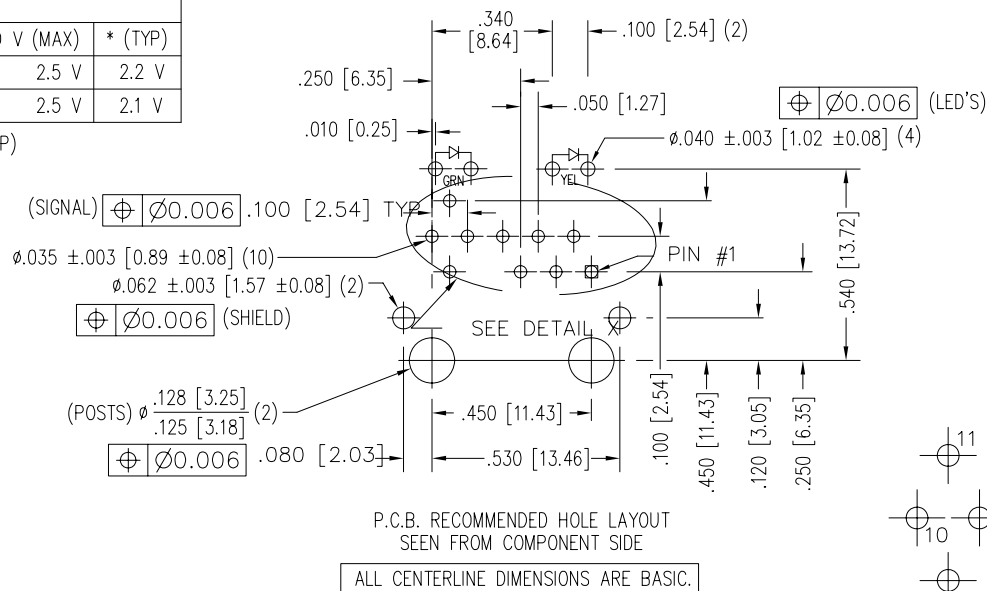
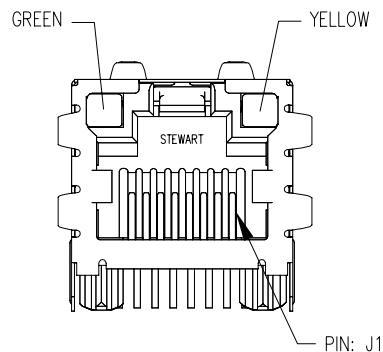
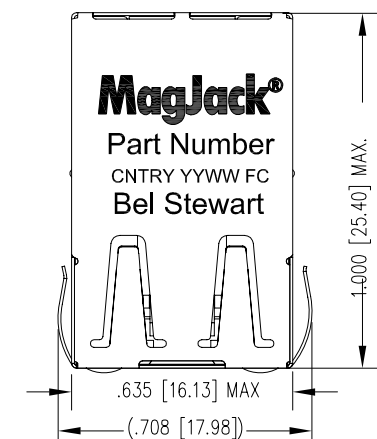
|                           |                  |                                                                                                                                |                                      |                               |                                             |                        |
|---------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|---------------------------------------------|------------------------|
| ORIGINATED BY<br>Bain Liu | DATE<br>12-10-08 | <b>TITLE</b><br><br>POE<br>TAB UP, SHIELDED | PART NO. / DRAWING NO.<br>SI-52004-F | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE                |                        |
| DRAWN BY<br>LW Yuan       | DATE<br>12-10-08 |                                                                                                                                | FILE NAME<br>SI-52004-F.DWG          | .X<br>.XX<br>.XXX             | UNIT : INCH [mm]<br>SCALE : N/A<br>PAGE : 2 | REV. : 01<br>SIZE : A4 |

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| LED SPECIFICATION |            |                 |         |
|-------------------|------------|-----------------|---------|
| STANDARD LED      | WAVELENGTH | FORWARD V (MAX) | * (TYP) |
| GREEN             | 565 nm     | 2.5 V           | 2.2 V   |
| YELLOW            | 590 nm     | 2.5 V           | 2.1 V   |

\*WITH A FORWARD CURRENT OF 20 mA (TYP)



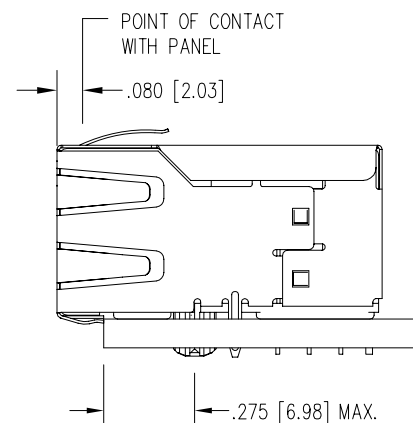
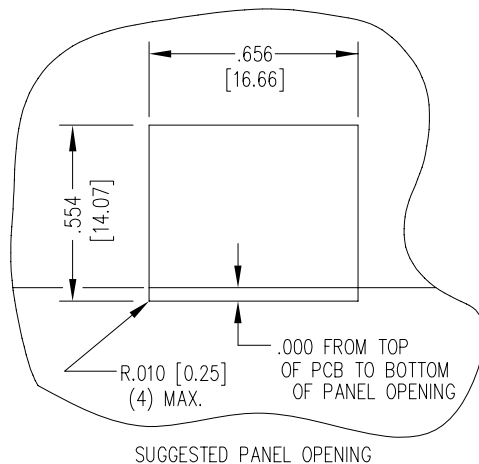
#### NOTES:

- 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  $\pm 0.005$  [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

|                           |                  |                                                     |                                      |                                                              |                              |           |
|---------------------------|------------------|-----------------------------------------------------|--------------------------------------|--------------------------------------------------------------|------------------------------|-----------|
| ORIGINATED BY<br>Bain Liu | DATE<br>12-10-08 | TITLE<br><b>MagJack®</b><br>POE<br>TAB UP, SHIELDED | PART NO. / DRAWING NO.<br>SI-52004-F | STANDARD DIM.<br>TOL. IN INCH<br>.X<br>.XX<br>.XXX<br>±0.005 | [ ] METRIC DIM. AS REFERENCE |           |
|                           |                  |                                                     |                                      |                                                              | UNIT : INCH [mm]             | REV. : 01 |
| DRAWN BY<br>LW Yuan       | DATE<br>12-10-08 |                                                     | FILE NAME<br>SI-52004-F.DWG          |                                                              | SCALE : N/A                  | SIZE : A4 |
|                           |                  |                                                     |                                      |                                                              |                              | PAGE : 3  |



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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]

|               |          |                                                                  |                        |               |             |                              |  |                                                                     |
|---------------|----------|------------------------------------------------------------------|------------------------|---------------|-------------|------------------------------|--|---------------------------------------------------------------------|
| ORIGINATED BY | DATE     | TITLE<br><div>MagJack®</div> <div>POE<br/>TAB UP, SHIELDED</div> | PART NO. / DRAWING NO. | STANDARD DIM. |             | [ ] METRIC DIM. AS REFERENCE |  | <div>bel</div> <div>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</div> |
| Bain Liu      | 12-10-08 |                                                                  | SI-52004-F             | TOL. IN INCH  |             | UNIT : INCH [mm] REV. : 01   |  |                                                                     |
| DRAWN BY      | DATE     |                                                                  | FILE NAME              | .X            |             | SCALE : N/A SIZE : A4        |  |                                                                     |
| LW Yuan       | 12-10-08 | SI-52004-F.DWG                                                   | .XX                    |               | PAGE : 4    |                              |  |                                                                     |
|               |          |                                                                  |                        |               | .XXX ±0.005 |                              |  |                                                                     |