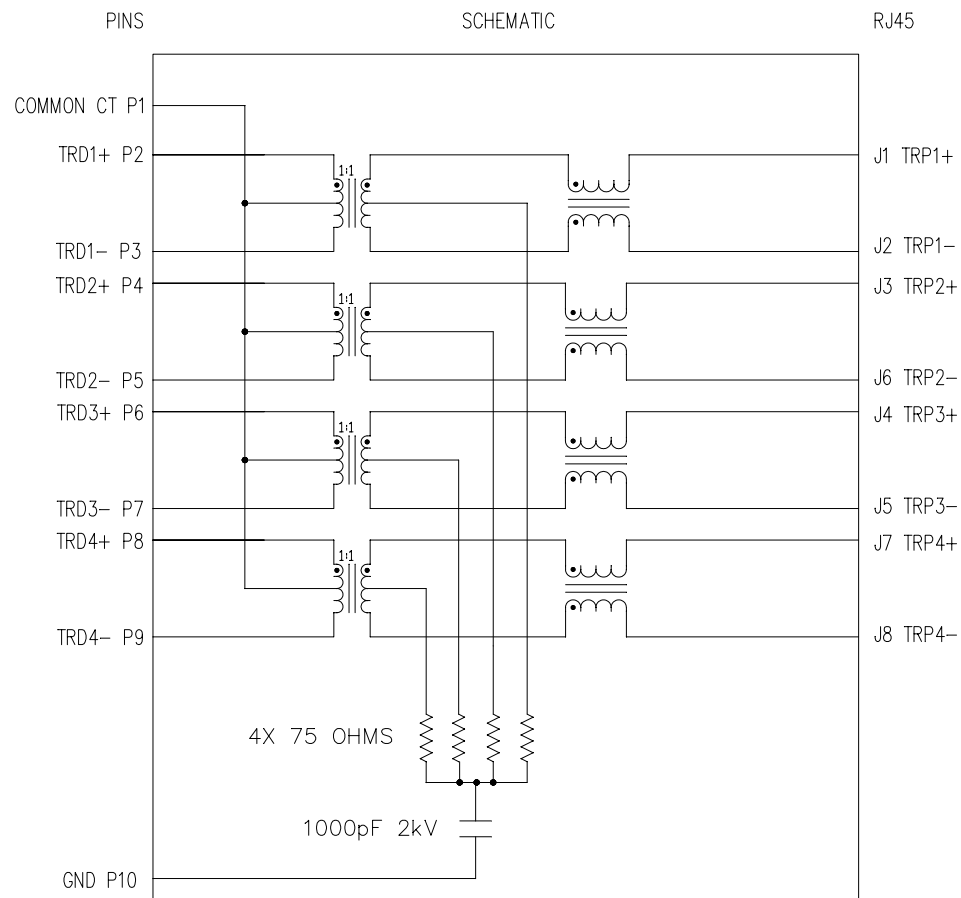



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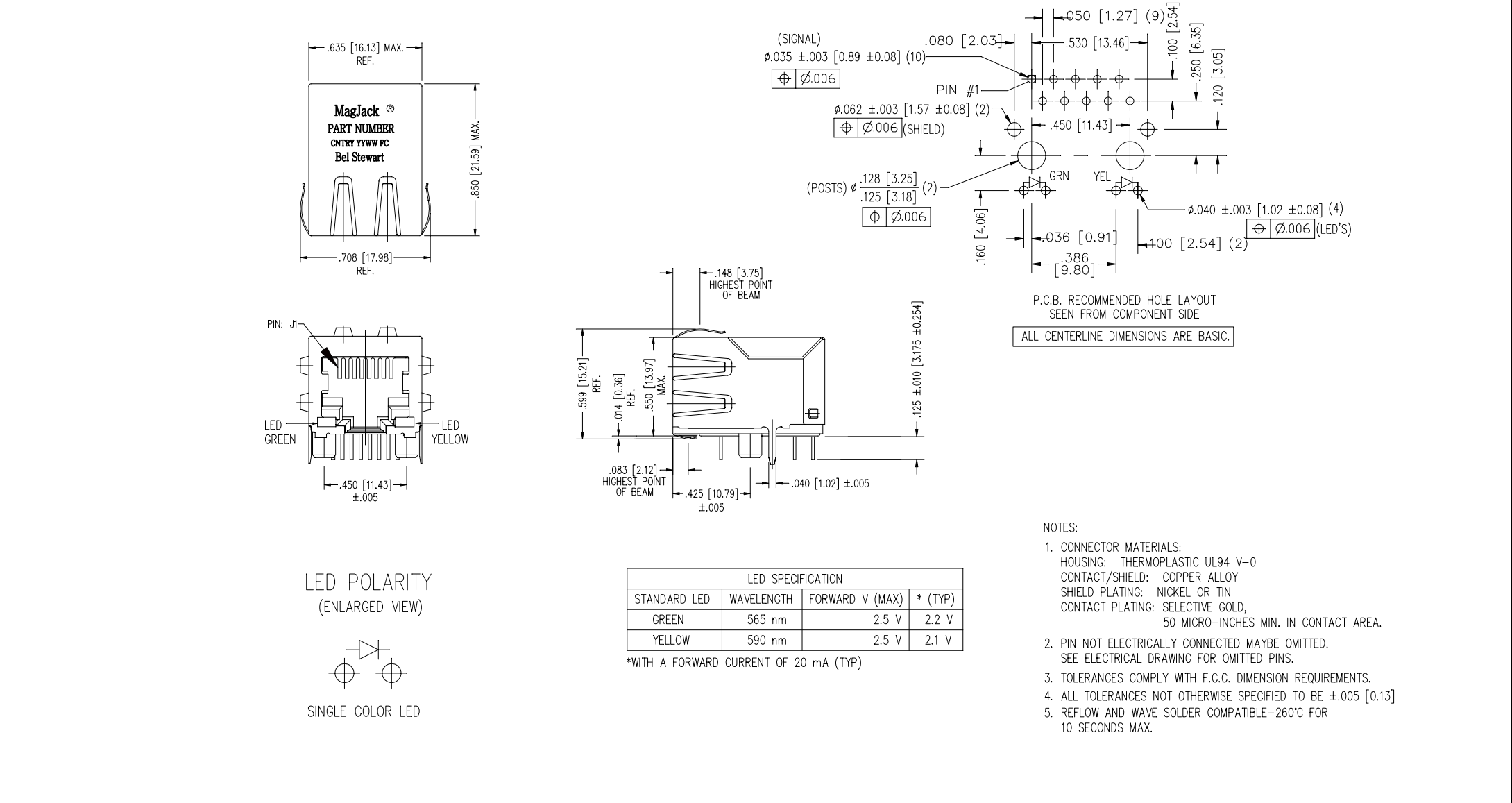
ELECTRICAL CHARACTERISTICS @ 25°C

| | |
|---|---|
| 1.0 TURNS RATIO: (P3-P2):(J2-J1) | : 1CT:1CT±3% |
| (P5-P4):(J6-J3) | : 1CT:1CT±3% |
| (P7-P6):(J5-J4) | : 1CT:1CT±3% |
| (P9-P8):(J8-J7) | : 1CT:1CT±3% |
| 2.0 INDUCTANCE: (P3-P2):(P5-P4) | : 350uH MIN. @ 0.1V, 100kHz, 8mA DC BIAS |
| (P7-P6):(P9-P8) | : 350uH MIN. @ 0.1V, 100kHz, 8mA DC BIAS |
| 3.0 LEAKAGE INDUCTANCE: P3-P2(WITH J2 AND J1 SHORT) | : 0.3uH MAX. @ 1 MHz |
| P5-P4(WITH J6 AND J3 SHORT) | : 0.3uH MAX. @ 1 MHz |
| P7-P6(WITH J5 AND J4 SHORT) | : 0.3uH MAX. @ 1 MHz |
| P9-P8(WITH J8 AND J7 SHORT) | : 0.3uH MAX. @ 1 MHz |
| 4.0 INTERWINDING CAPACITANCE: (P3-P2):(J2-J1) | : 85pF MAX @ 1MHz |
| (P5-P4):(J6-J3) | : 85pF MAX @ 1MHz |
| (P7-P6):(J5-J4) | : 85pF MAX @ 1MHz |
| (P9-P8):(J8-J7) | : 85pF MAX @ 1MHz |
| 5.0 DC RESISTANCE: (J6-J3)=(J2-J1)=(J4-J5)=(J7-J8) | : 1.2 OHMS MAX |
| 6.0 RETURN LOSS: 1MHz TO 30MHz | : 18dB MIN. |
| 30MHz TO 80MHz | : 12-20 LOG $\left(\frac{F}{80\text{MHz}}\right)$ |
| 7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P2,P3) ; (J5,J4) TO (P6-P5) | : 1500 VAC |
| (J3,J6) TO (P7,P4) ; (J8,J7) TO (P9, P8) | : 1500 VAC |
| 8.0 INSERTION LOSS: RS=RL=100 ohms | |
| 100KHz TO 100MHz | : 1.1 dB MAX |
| 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: 1-60 MHz | : 35 dB MIN |
| 60-100 MHz | : 25 dB MIN |
| 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz | : 35dB TYP |



| ORIGINATED BY | DATE | TITLE <div>MagJack®</div> <div>RJ45 GIGABIT</div> <div>SINGLE PORT, TAB/LED</div> | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | | <div>bel</div> <div>COMPONENTS FOR A CONNECTED PLANET</div> <div>Stewart Connector</div> |
|---------------|----------|--|------------------------|---------------|--------|---|-----------|--|
| ZL Wang | 06-10-08 | | SI-61001 | TOL. IN INCH | | UNIT : INCH [mm] | REV. : A | |
| DRAWN BY | DATE | | FILE NAME | .X | | SCALE : N/A | SIZE : A4 | |
| R.S.Zhang | 06-10-08 | | SI-61001.DWG | .XX | |  | PAGE : 1 | |
| | | | | .XXX | ±0.005 | | | |

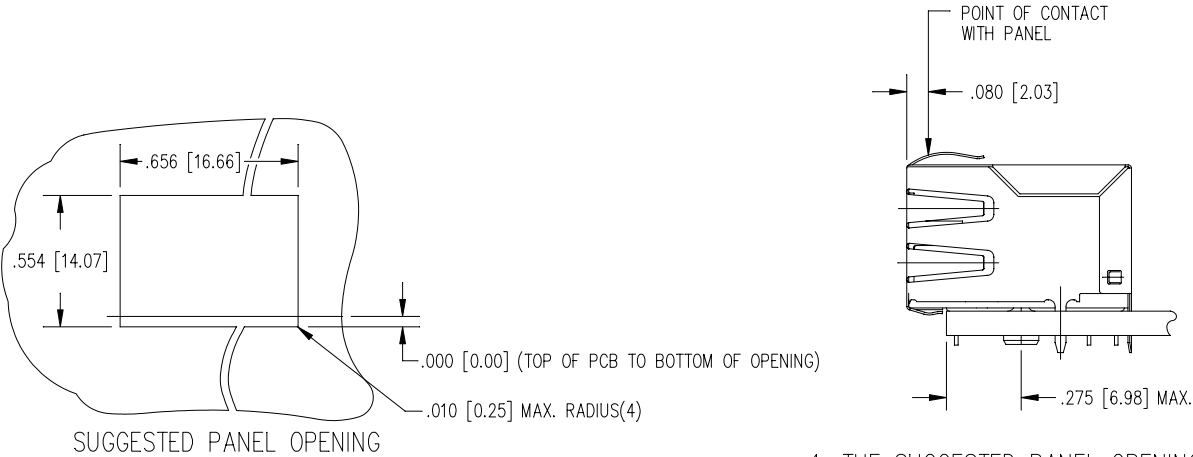
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|---------------|----------|----------------------|------------------------|---------------|------------------------------|
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| ZL Wang | 06-10-08 | MagJack® | SI-61001 | TOL. IN INCH | UNIT : INCH [mm] |
| DRAWN BY | DATE | RJ45 GIGABIT | FILE NAME | .X | REV. : A |
| R.S.Zhang | 06-10-08 | SINGLE PORT, TAB/LED | SI-61001.DWG | .XX | SCALE : N/A |
| | | | | .XXX | ±0.005 |
| | | | | | PAGE : 2 |



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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 ± 0.005 [0.13]

| | | | | | | | | |
|---------------|----------|---|------------------------|---------------|--------|------------------------------|-----------|--|
| ORIGINATED BY | DATE | TITLE <div>MagJack®</div> <div>RJ45 GIGABIT SINGLE PORT, TAB/LED</div> | PART NO. / DRAWING NO. | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | | <div>bel</div> <div>COMPONENTS FOR A CONNECTED PLANET</div> <div>Stewart Connector</div> |
| ZL Wang | 06-10-08 | | SI-61001 | TOL. IN INCH | | UNIT : INCH [mm] | REV. : A | |
| DRAWN BY | DATE | | FILE NAME | .X | | SCALE : N/A | SIZE : A4 | |
| R.S.Zhang | 06-10-08 | | SI-61001.DWG | .XX | | | PAGE : 3 | |
| | | | | .XXX | ±0.005 | | | |