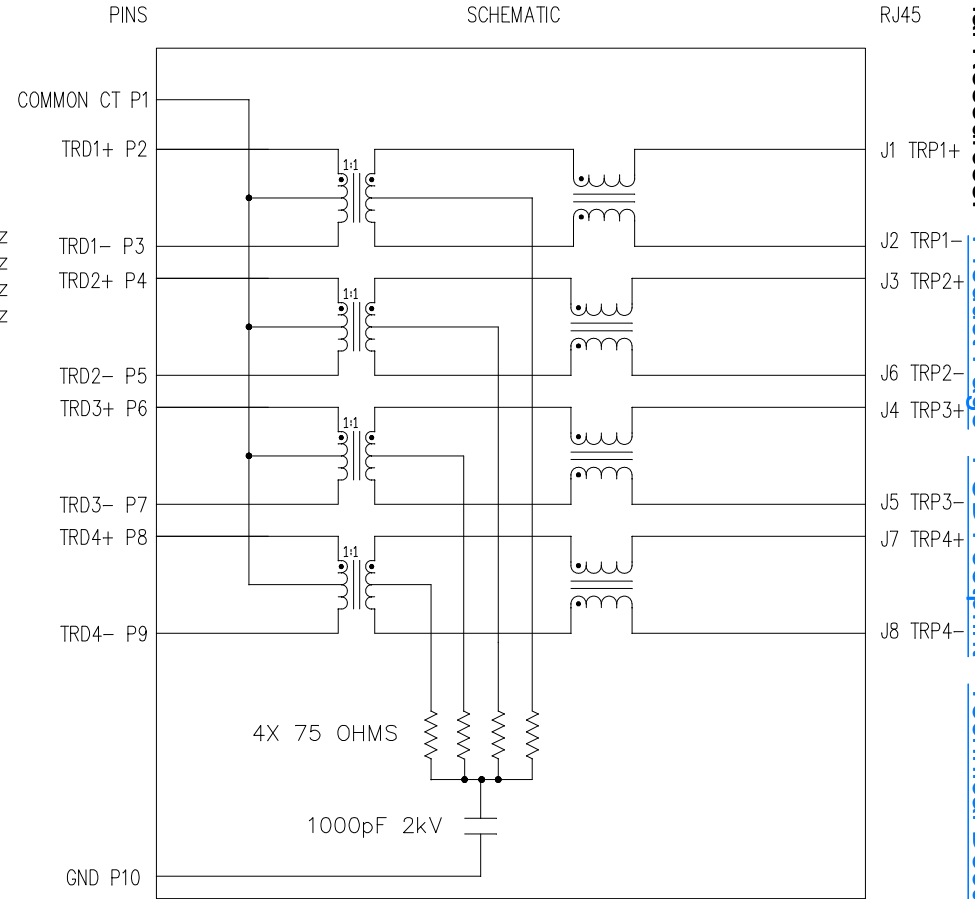


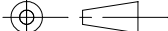
ELECTRICAL CHARACTERISTICS @ 25°C

OPERATING TEMPERATURE RANGE: 0°C TO +70°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($\frac{F}{80MHz}$)
- 7.0 DIELECTRIC WITHSTAND:(J1,J2) TO (P2,P3) ; (J5,J4) TO (P6-P5) : 1500 Vrms
(J3,J6) TO (P7,P4) ; (J8,J7) TO (P9, P8) : 1500 Vrms
- 8.0 INSERTION LOSS:RS=RL=100 ohms : 1.1 dB MAX
100KHz TO 100MHz
- 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:1-60 MHz : 35 dB MIN
60-100 MHz : 25 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION:1MHz TO 100MHz : 35dB TYP



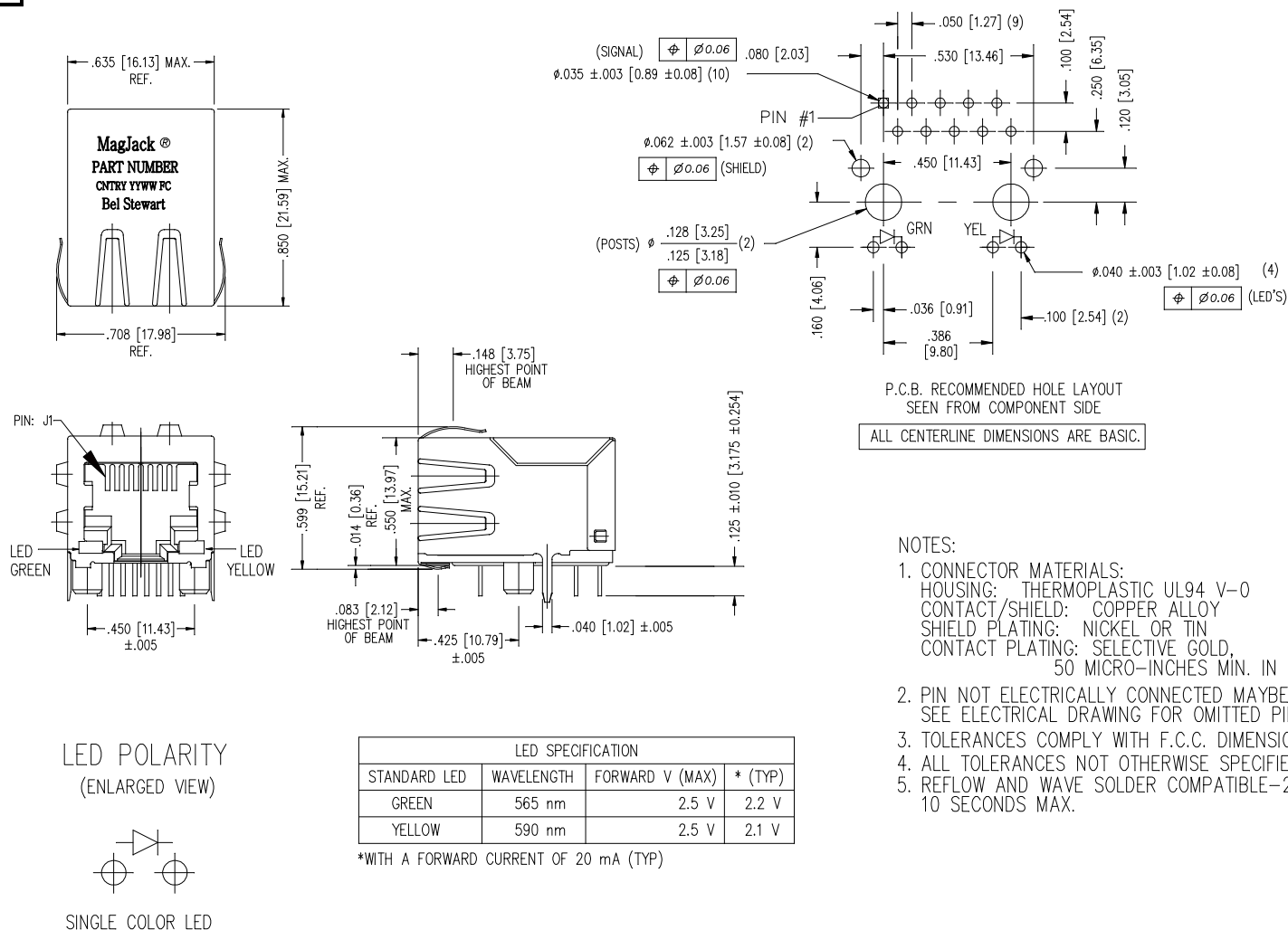
NOTES: PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.


ORIGINATED BY	DATE	TITLE <div>MagJack®</div> <div>10/100/1000BT</div> <div>TAB DOWN, SHIELDED</div>	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		<div>bel</div> <div>COMPONENTS FOR A CONNECTED PLANET</div>
Bain Liu	10-21-08		SI-61001-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
L.W. Yuan	10-21-08		SI-61001-F.DWG	.XX			PAGE : 1	
				.XXX	±0.005			

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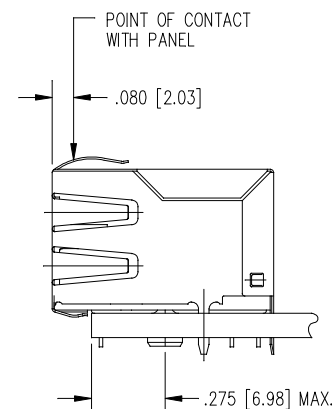
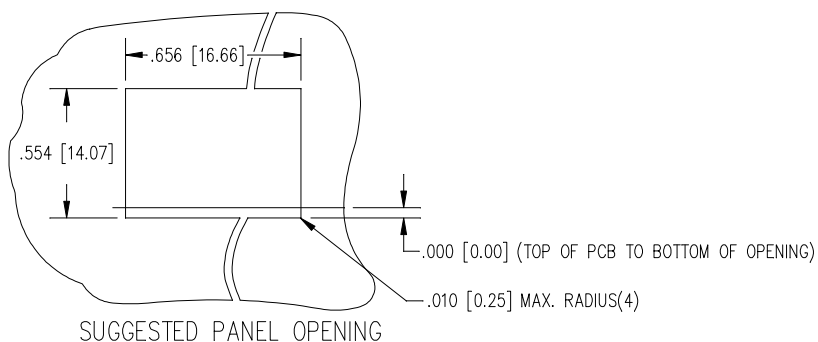
Additional Resources: [Product Page](#) [PCB Footprint](#) [Technical Documentation](#)



ORIGINATED BY	DATE	TITLE <div>MagJack®</div> <div>10/100/1000BT</div> <div>TAB DOWN, SHIELDED</div>	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		<div>bel</div> <div>COMPONENTS FOR A COMPLETED PLANET</div>
Bain Liu	10-21-08		SI-61001-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
L.W. Yuan	10-21-08		SI-61001-F.DWG	.XX			PAGE : 2	
				.XXX	±0.005			

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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 Bain Liu	DATE 10-21-08	TITLE MagJack® 10/100/1000BT TAB DOWN, SHIELDED	PART NO. / DRAWING NO. SI-61001-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY L.W. Yuan	DATE 10-21-08		FILE NAME SI-61001-F.DWG	.X	UNIT : INCH [mm]	REV. : B	
				.XX	SCALE : N/A	SIZE : A4	
				.XXX ±0.005		PAGE : 3	