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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 : $12-20\ \mathrm{LOG}(\frac{F}{80MHz})$

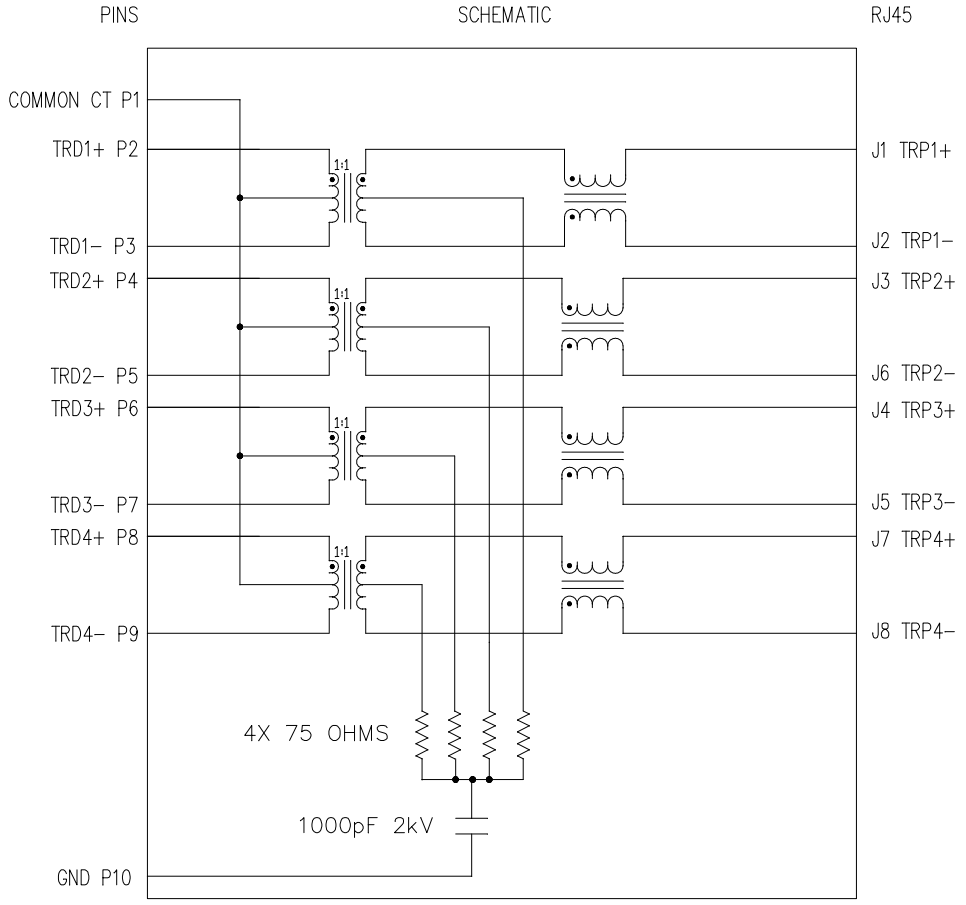
7.0 DIELECTRIC WITHSTAND: (J1,J2) TO (P2,P3) ; (J5,J4) TO (P6–P5) : 1500 Vrms
(J3,J6) TO (P7,P4) ; (J8,J7) TO (P9, P8) : 1500 Vrms

8.0 INSERTION LOSS: RS=RL=100 ohms
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



NOTES: PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

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

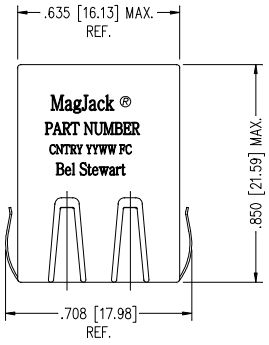
REV A1 06–30–2008

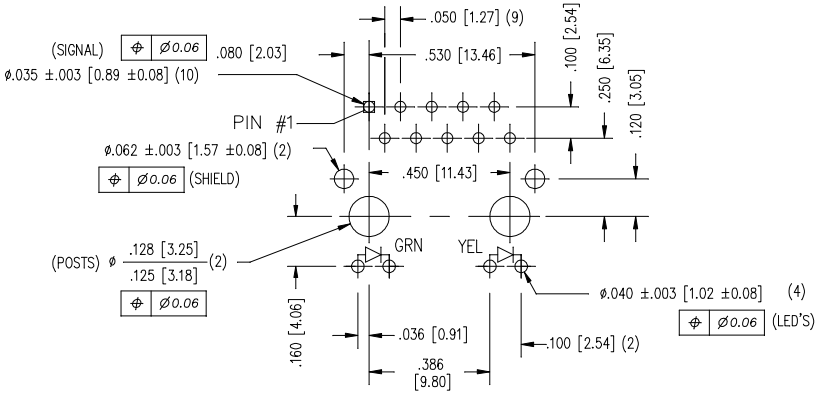
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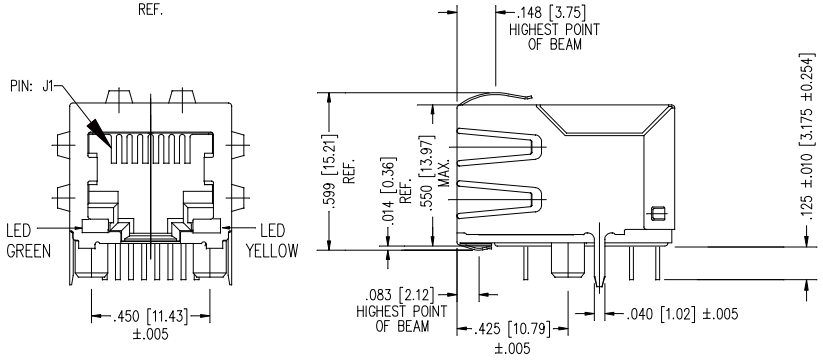
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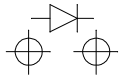


P.C.B. RECOMMENDED HOLE LAYOUT
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.



LED POLARITY
(ENLARGED VIEW)



SINGLE COLOR LED

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:
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. REFLOW AND WAVE SOLDER COMPATIBLE-260°C FOR
   10 SECONDS MAX.

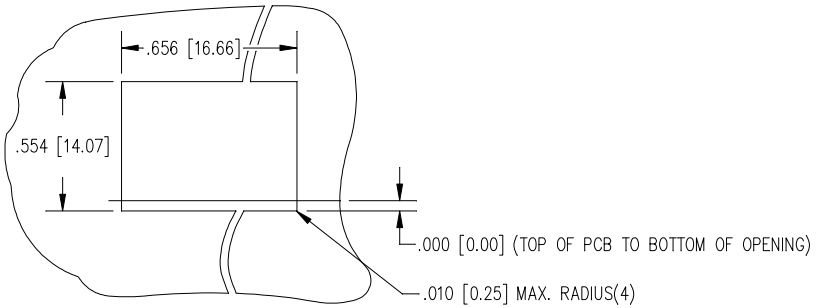
ORIGINATED BY: Bain Liu	DATE: 10-21-08	TITLE: MagJack® 10/100/1000BT TAB DOWN, SHIELDED	PART NO. / DRAWING NO.: SI-61001-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.005	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: L.W. Yuan	DATE: 10-21-08		FILE NAME: SI-61001-F.DWG		UNIT : INCH [mm] / SCALE : N/A / REV.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

bel COMPONENTS FOR A CONNECTED PLANET

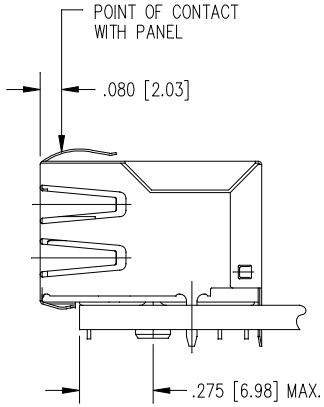
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SUGGESTED PANEL OPENING



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 ±.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: .X, .XX, .XXX ±0.005	[ ] METRIC DIM. AS REFERENCE
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