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RoHS 2002/95/EC

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).

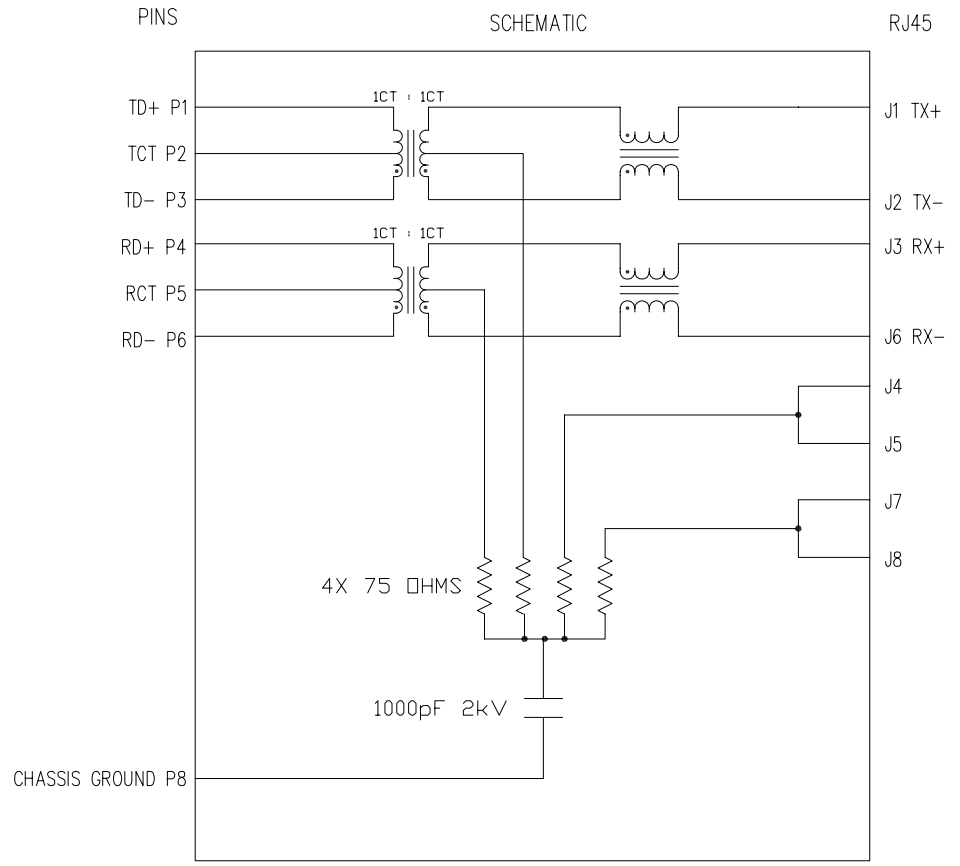
7.0 VOLTAGE WITHSTAND: (J1, J2) TO (P1, P3) : 1500 Vrms
(J3, J6) TO (P4,P6) : 1500 Vrms

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: BAIN LIU	DATE: 03-09-09	TITLE: MagJack® 10/100BT VERTICAL, SHIELDED PATENTED	PART NO. / DRAWING NO.: SI-46001-F	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.005	[ ] METRIC DIM. AS REFERENCE	bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY: R.S.ZHANG	DATE: 03-09-09		FILE NAME: SI-46001-F.DWG		UNIT : INCH [mm] / REV. : B0	
					SCALE : N/A / SIZE : A4	
					PAGE : 2	

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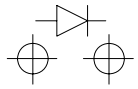
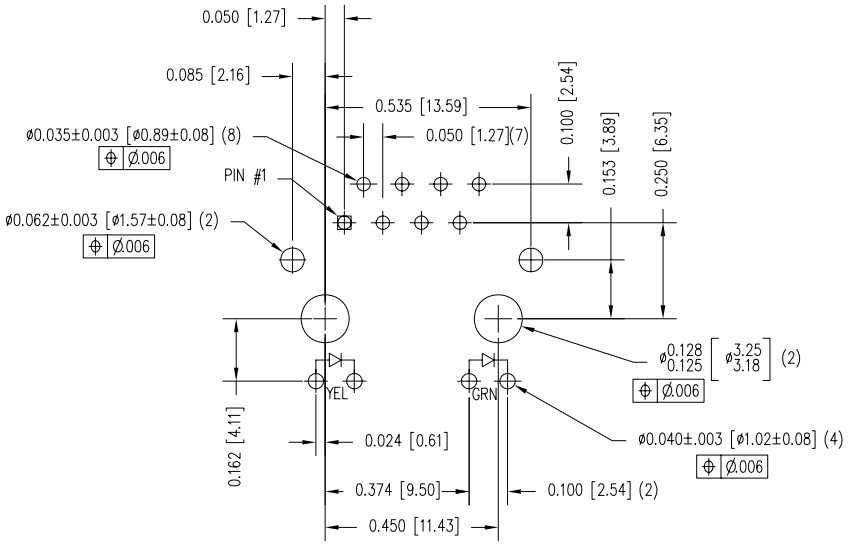
LED POLARITY
(ENLARGED VIEW)



SINGLE COLOR LED

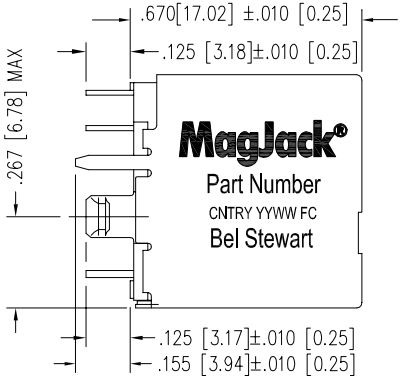
LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	565 nm	2.5 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

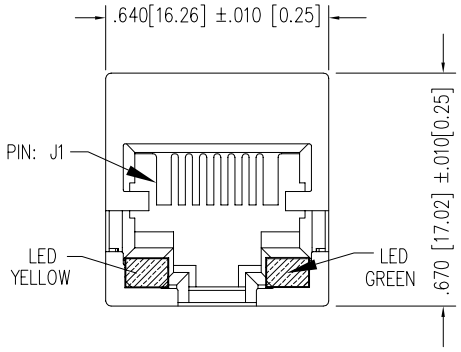
*WITH A FORWARD CURRENT OF 20 mA (TYP)



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

ALL CENTERLINE DIMENSIONS ARE BASIC





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. WAVE SOLDER COMPATIBLE – PREHEAT 125°C/90SECS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
BAIN LIU	03-09-09	MagJack® 10/100BT VERTICAL, SHIELDED PATENTED	SI-46001-F	.X		UNIT : INCH [mm]	REV. : B0
DRAWN BY	DATE		FILE NAME	.XX		SCALE : N/A	SIZE : A4
R.S.ZHANG	03-09-09		SI-46001-F.DWG	.XXX	±0.005		PAGE : 3

bel COMPONENTS FOR A CONNECTED PLANET

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