

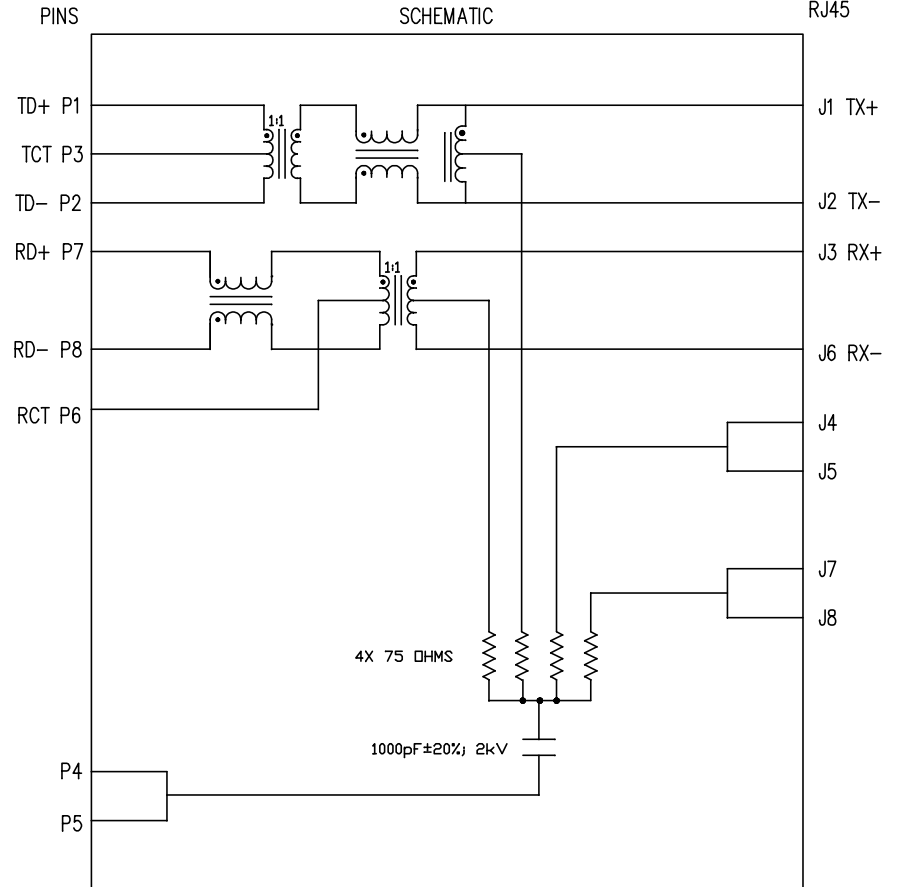
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RoHS  
2002/95/EC



**ELECTRICAL CHARACTERISTICS @ 25°C**

- 1.0 TURNS RATIO: (P8-P6-P7) : (J6-J3) : 1CT : 1 ± 3%  
(P2-P3-P1) : (J2-J1) : 1CT : 1 ± 3%
- 2.0 INDUCTANCE: (P7-P8) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias  
(P1-P2) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P8-P7 (WITH J6 AND J3 SHORT) : 0.3 MAX. @ 1MHz  
P2-P1 (WITH J2 AND J1 SHORT) : 0.3 MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P8,P6,P7) TO (J6,J3) : 30pF MAX @ 1MHz  
(P3,P2,P1) TO (J2,J1) : 30pF MAX. @ 1MHz
- 5.0 DC RESISTANCE: (J1-J2) : 1.2 ohms Max.  
(P8-P7) : 1.2 ohms Max.  
  
RECEIVE
- 6.0 RETURN LOSS: 1MHz TO 30MHz : -18dB MIN.  
30MHz TO 60MHz : -(19-20 LOG (f/30MHz))  
60MHz TO 80MHz : -12dB MIN.
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3) : 1500 Vrms  
(J3, J6) TO (P8,P7) : 1500 Vrms
- 8.0 INSERTION LOSS: RS=RL=100 ohms : -1.0 dB MAX  
1MHz TO 65MHz : -1.1 dB MAX  
65MHz 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: 1MHz TO 100MHz : -35 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION:  
1MHz TO 100MHz : -45dB TYP  
100MHz TO 200MHz : -20dB MIN



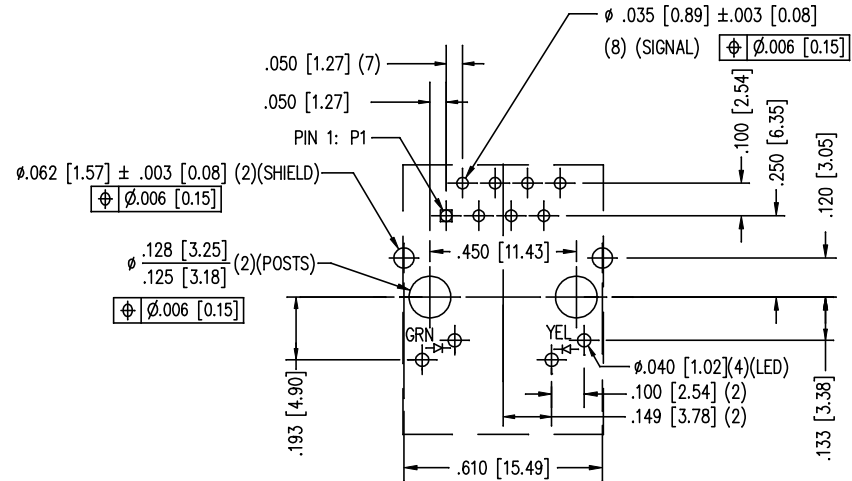
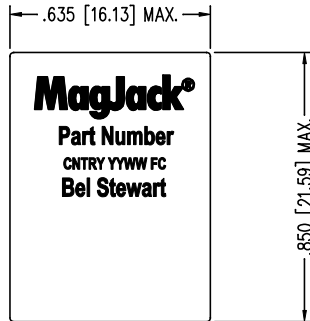
NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.
- 2.0 ALL RESISTORS ARE ±5% TOLERANCE.

ORIGINATED BY <b>Bain Liu</b>	DATE <b>09-03-09</b>	TITLE <b>MagJack® 10/100BT TAB DOWN, SHIELDED PATENTED</b>	PART NO. / DRAWING NO. <b>SI-60216-F</b>	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.005	[ ] METRIC DIM. AS REFERENCE UNIT : INCH [mm] SCALE : N/A 	REV. : <b>A0</b> SIZE : <b>A4</b> PAGE : <b>2</b>	 COMPONENTS FOR A CONNECTED PLANET
DRAWN BY <b>Bain Liu</b>	DATE <b>09-03-09</b>		FILE NAME <b>SI-60216-F.DWG</b>				

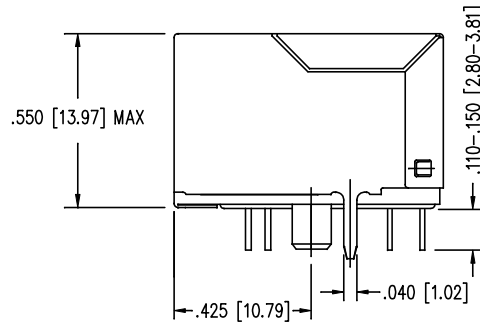
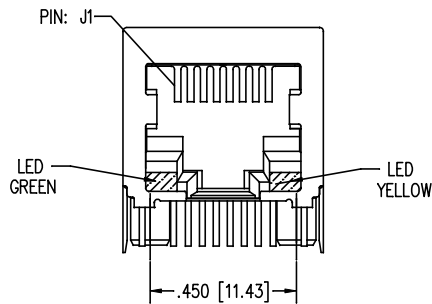
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P.C.B. RECOMMENDED HOLE LAYOUT  
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.



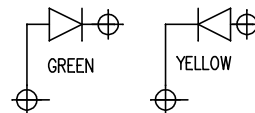
NOTES:

- 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 ±.005 [0.13]
- WAVE SOLDER COMPATIBLE - PREHEAT 125°C/90SECS.  
HIGH TEMPERATURE REFLOW COMPATIBLE - 230°C/90 SEC MAX.

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)

LED POLARITY DETAIL



ORIGINATED BY	DATE	TITLE
Bain Liu	09-03-09	<b>MagJack®</b> 10/100BT TAB DOWN, SHIELDED PATENTED
DRAWN BY	DATE	
Bain Liu	09-03-09	

PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REFERENCE	
SI-60216-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A0
FILE NAME	.X	SCALE : N/A	SIZE : A4
SI-60216-F.DWG	.XX		
	.XXX	±0.005	PAGE : 3

COMPONENTS FOR A CONNECTED PLANET	