



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRELIMINARY

ELECTRICAL CHARACTERISTICS @ 25°C

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6) : 1CT : 1CT \pm 3%
(P3-P2-P1) : (J1-J2) : 1CT : 1CT \pm 3%
- 2.0 INDUCTANCE: (J3-J6) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P3-P1) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P6-P5-P4 (WITH J6 AND J3 SHORT): 0.3 MAX. @ 1MHz
P3-P2-P1 (WITH J2 AND J1 SHORT): 0.3 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.

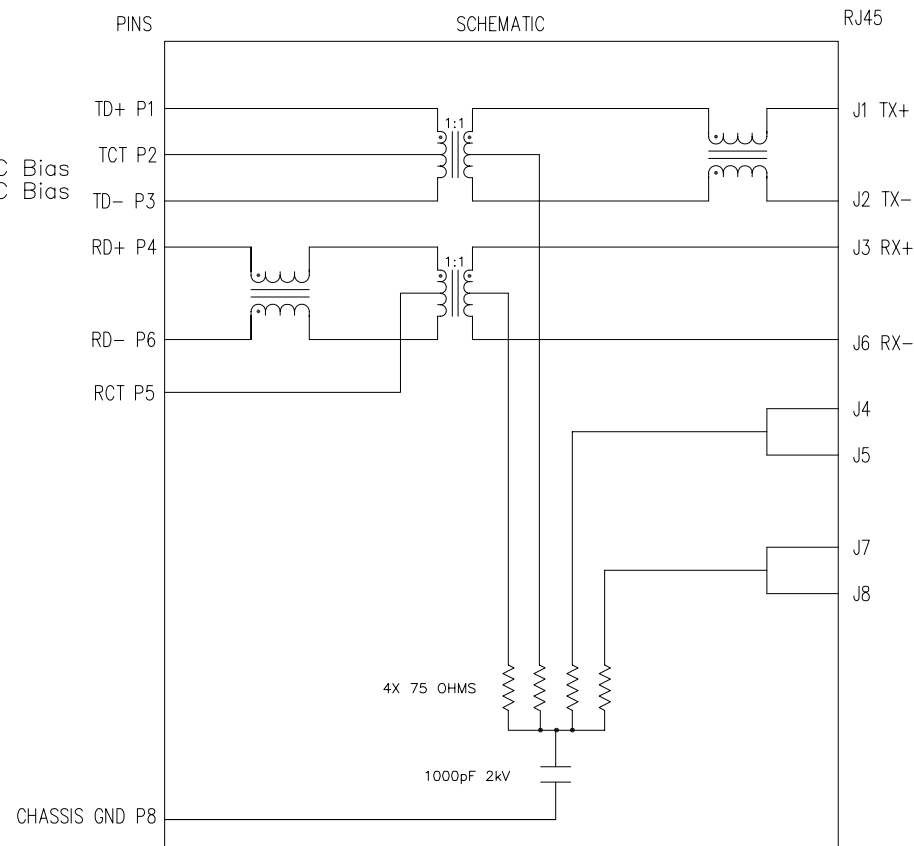
RECEIVE

- 6.0 RETURN LOSS: (J3-J6)=100 OHMS AND (P1-P3)=100 OHM REF.

1MHz TO 30MHz : 18dB MIN.
30MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (P6-P4).

- 7.0 DIELECTRIC 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: 1-100 MHz : 30 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 1MHz TO 100MHz : 35dB TYP



NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

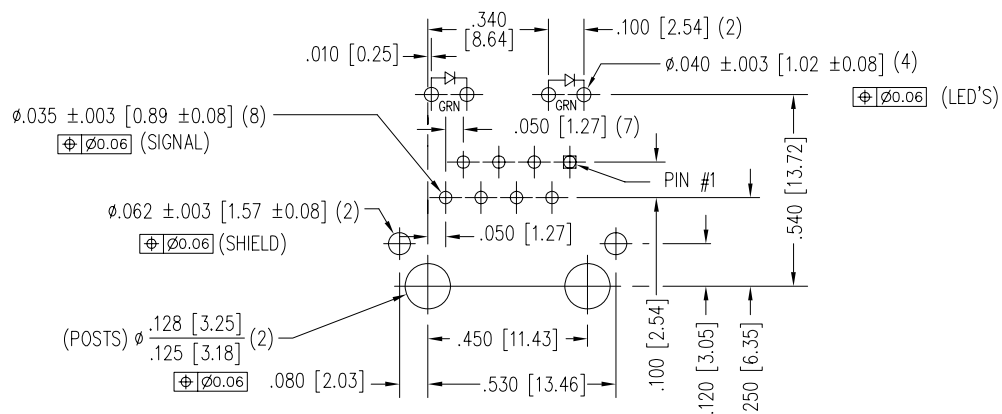
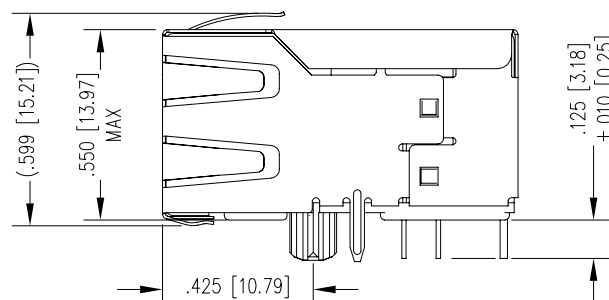
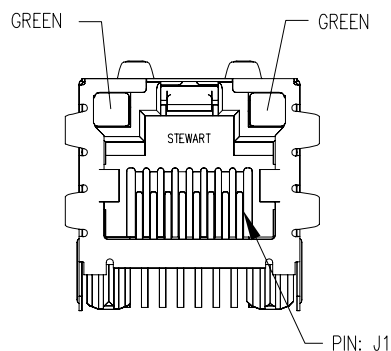
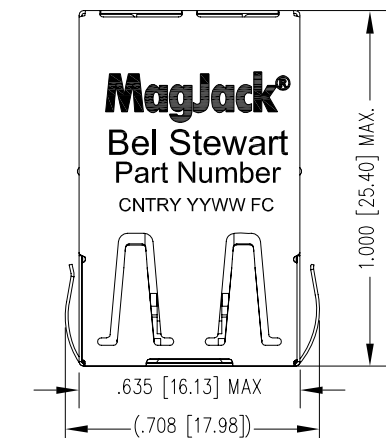
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE	
Bain Liu	09-19-08	MagJack® 10/100BT TAB UP, SHIELDED	SI-50237-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : X1
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4
LW Yuan	09-19-08		SI-50237-F.DWG	.XX		PAGE : 2
				.XXX		



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PRELIMINARY



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 ± 0.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V

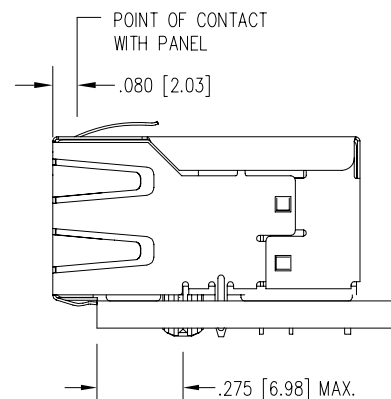
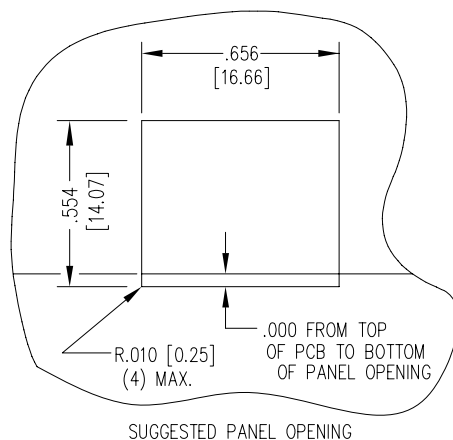
*WITH A FORWARD CURRENT OF 20 mA (TYP)

ORIGINATED BY Bain Liu	DATE 09-19-08	TITLE MagJack® 10/100BT TAB UP, SHIELDED	PART NO. / DRAWING NO. SI-50237-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[] METRIC DIM. AS REFERENCE	
					UNIT : INCH [mm]	REV. : X1
DRAWN BY LW Yuan	DATE 09-19-08		FILE NAME SI-50237-F.DWG	±0.005	SCALE : N/A	SIZE : A4
						PAGE : 3



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PRELIMINARY



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]

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DRAWN BY LW Yuan	DATE 09-19-08		FILE NAME SI-50237-F.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	± 0.005		PAGE : 4

