



**THE DATASHEET OF  
SI-61001-F**



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**ELECTRICAL CHARACTERISTICS @ 25°C**

OPERATING TEMPERATURE RANGE: 0°C TO +70°C

1.0 TURNS RATIO: (P3-P2):(J2-J1)  
 (P5-P4):(J6-J3)  
 (P7-P6):(J5-J4)  
 (P9-P8):(J8-J7)

: 1CT:1CT±3%  
 : 1CT:1CT±3%  
 : 1CT:1CT±3%  
 : 1CT:1CT±3%

2.0 INDUCTANCE: (P3-P2):(P5-P4)  
 (P7-P6):(P9-P8)

: 350uH MIN. @ 0.1V, 100kHz, 8mA DC BIAS  
 : 350uH MIN. @ 0.1V, 100kHz, 8mA DC BIAS

3.0 LEAKAGE INDUCTANCE: P3-P2(WITH J2 AND J1 SHORT)  
 P5-P4(WITH J6 AND J3 SHORT)  
 P7-P6(WITH J5 AND J4 SHORT)  
 P9-P8(WITH J8 AND J7 SHORT)

: 0.3uH MAX. @ 1 MHz  
 : 0.3uH MAX. @ 1 MHz  
 : 0.3uH MAX. @ 1 MHz  
 : 0.3uH MAX. @ 1 MHz

4.0 INTERWINDING CAPACITANCE: (P3-P2):(J2-J1)  
 (P5-P4):(J6-J3)  
 (P7-P6):(J5-J4)  
 (P9-P8):(J8-J7)

: 85pF MAX @ 1MHz  
 : 85pF MAX @ 1MHz  
 : 85pF MAX @ 1MHz  
 : 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  
 30MHz TO 80MHz

: 18dB MIN.  
 : 12-20 LOG( $\frac{F}{80\text{MHz}}$ )

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

: 1500 Vrms  
 : 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  
 PULSE WIDTH= 112ns

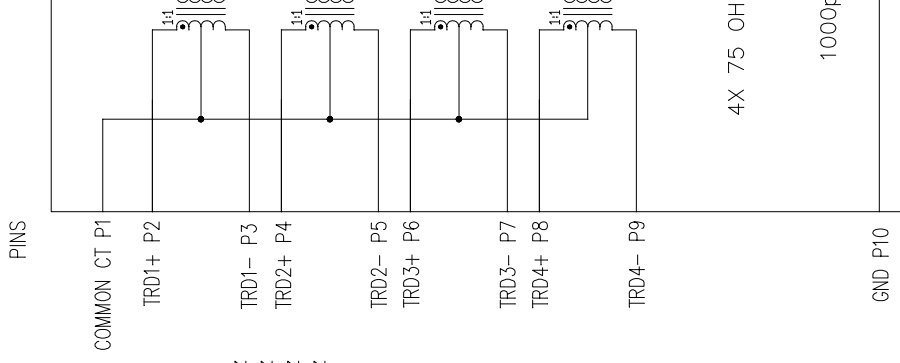
: 3.0 nS MAX  
 : 3.0 nS MAX

10.0 CROSS TALK:1-60 MHz  
 60-100 MHz

: 35 dB MIN  
 : 25 dB MIN

11.0 COMMON TO COMMON MODE ATTENUATION:1MHz TO 100MHz : 35dB TYP

NOTES: PINS WITHC



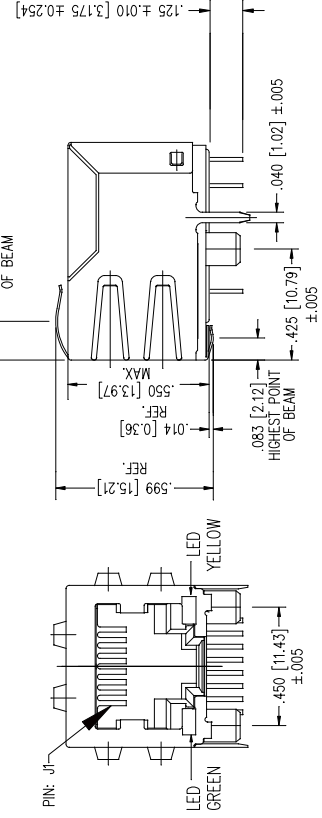
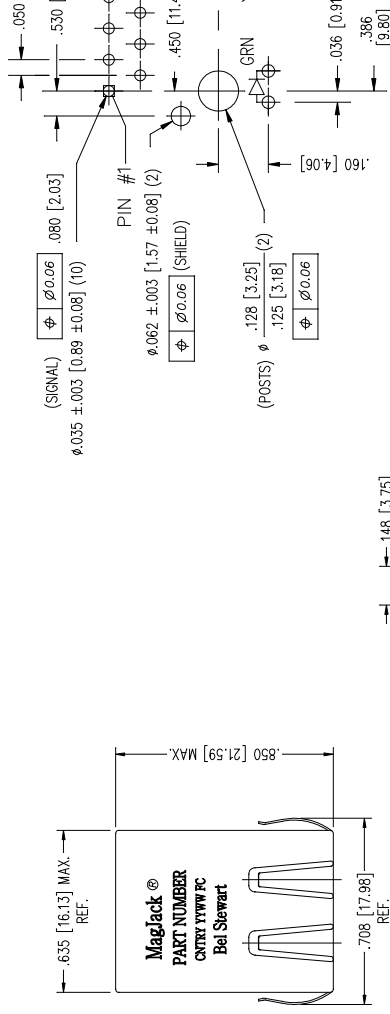
<b>ORIGINATED BY</b>	<b>DATE</b>
Bain Liu	10-21-08
<b>DRAWN BY</b>	<b>DATE</b>
L.W. Yuan	10-21-08

<b>TITLE</b>
<b>MagJack®</b> 10/100/1000BT TAB DOWN, SHIELDED

<b>PART NO. / DRAWING NO.</b>
SI-61001-F
<b>FILE NAME</b>
SI-61001-F.DWG

<b>STANDARD DIM TOL. IN INCH</b>
.X
.XX
.XXX
±0.0

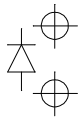
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P.C.B. RECO-  
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ALL CENTERLIN

- NOTES:  
1. CONN HOUS CONT SHIEL CONT  
2. PIN N SEE E  
3. TOLE  
4. ALL T  
5. REFLE 10 SE

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

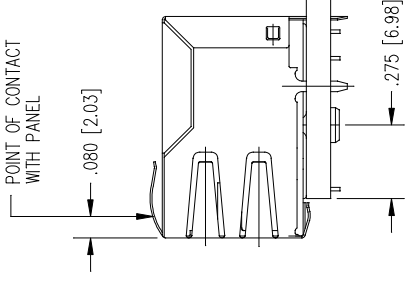
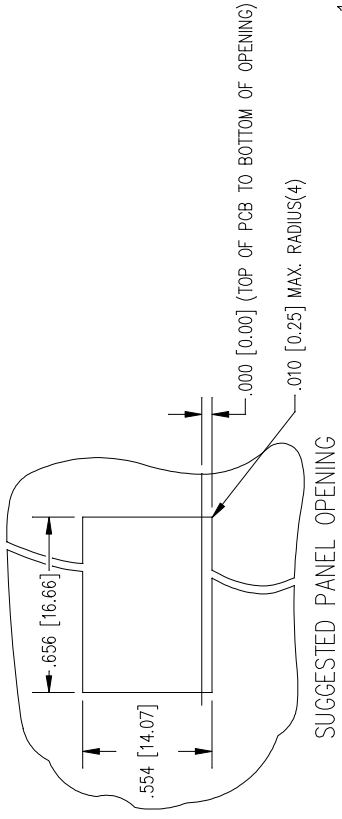
\*WITH A FORWARD CURRENT OF 20 mA (TYP)

<b>ORIGINATED BY</b> Bain Liu	<b>DATE</b> 10-21-08	<b>TITLE</b> <b>MagJack®</b> 10/100/1000BT TAB DOWN, SHIELDED	<b>PART NO. / DRAWING NO.</b> SI-61001-F	<b>STANDARD DIM TOL. IN INCH</b> .X .XX .XXX ±0.0
<b>DRAWN BY</b> L.W. Yuan	<b>DATE</b> 10-21-08		<b>FILE NAME</b> SI-61001-F.DWG	

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1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO REMOVE A REASONABLE JACK / PANEL YET MAINTAIN RELIABLE GRIPPING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED ARE TO BE  $\pm 0.005$  [0.13]

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