

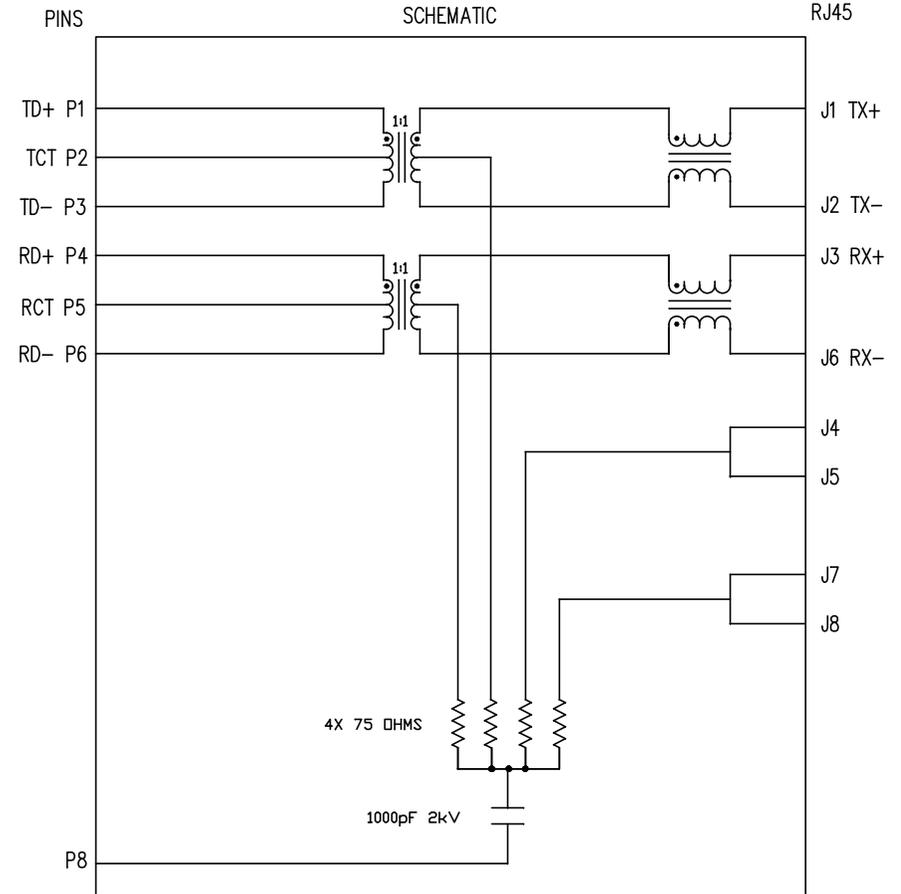
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ELECTRICAL CHARACTERISTICS @ 25°C

OPERATING TEMPERATURE RANGE:	:	-40°C TO +85°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)	:	40pF MAX @ 1MHz
(P3,P2,P1) TO (J2,J1)	:	40pF 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.	:	18dB MIN.
1MHz TO 30MHz	:	12dB MIN.
60MHz TO 80MHz	:	
NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).		
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	:	1.1 dB TYP
100KHz 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	:	40 dB TYP
11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz	:	35dB TYP

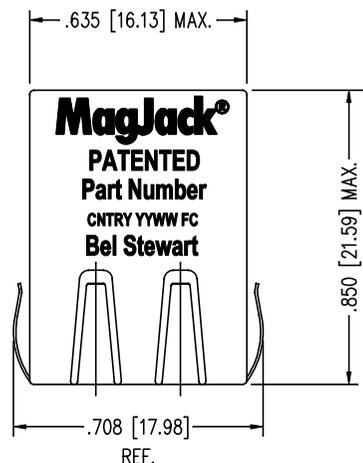


NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

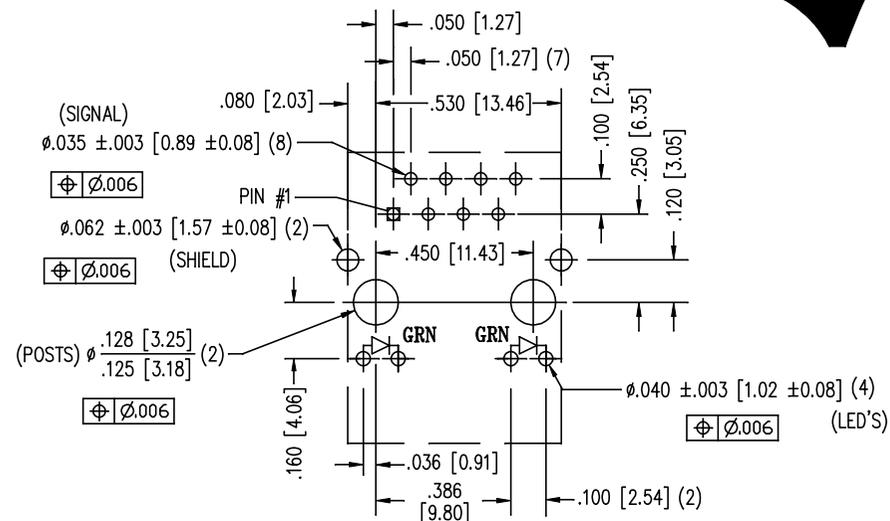
ORIGINATED BY Bain Liu	DATE 09-03-09	TITLE MagJack® 10/100BT TAB DOWN, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-60118-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
	DRAWN BY Bain Liu		DATE 09-03-09	FILE NAME SI-60118-F.DWG	.X .XX .XXX	±0.005	

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

*WITH A FORWARD CURRENT OF 20 mA (TYP)

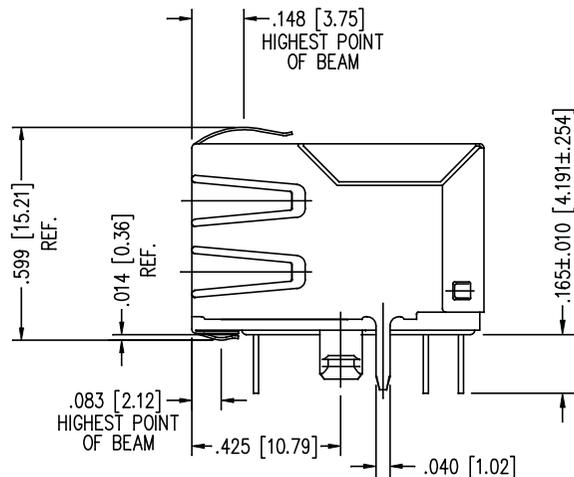
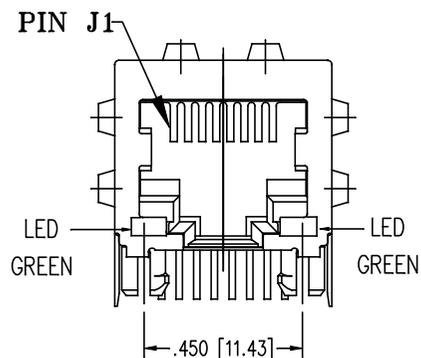


P.C.B. RECOMMENDED HOLE LAYOUT
 SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC.

NOTES:

- 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 $\pm .005$ [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.



ORIGINATED BY	DATE
Bain Liu	09-03-09
DRAWN BY	DATE
Bain Liu	09-03-09

TITLE	MagJack® 10/100BT TAB DOWN, SHIELDED PATENTED
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PART NO. / DRAWING NO.	SI-60118-F
FILE NAME	SI-60118-F.DWG

STANDARD DIM.	[] METRIC DIM. AS REFERENCE
TOL. IN INCH	UNIT : INCH [mm]
.X	REV. : A0
.XX	SCALE : N/A
.XXX	SIZE : A4
±0.005	PAGE : 3

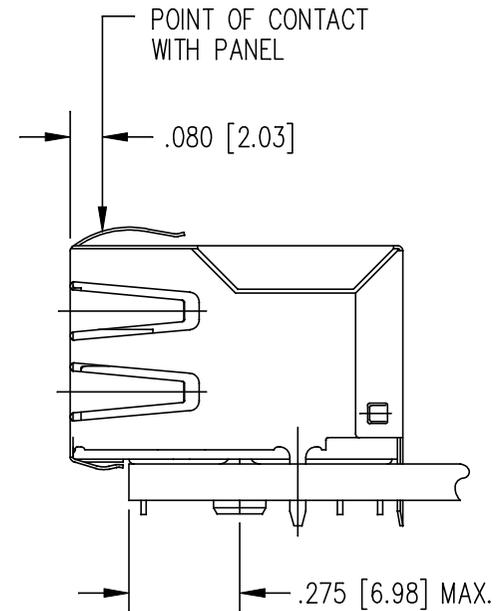
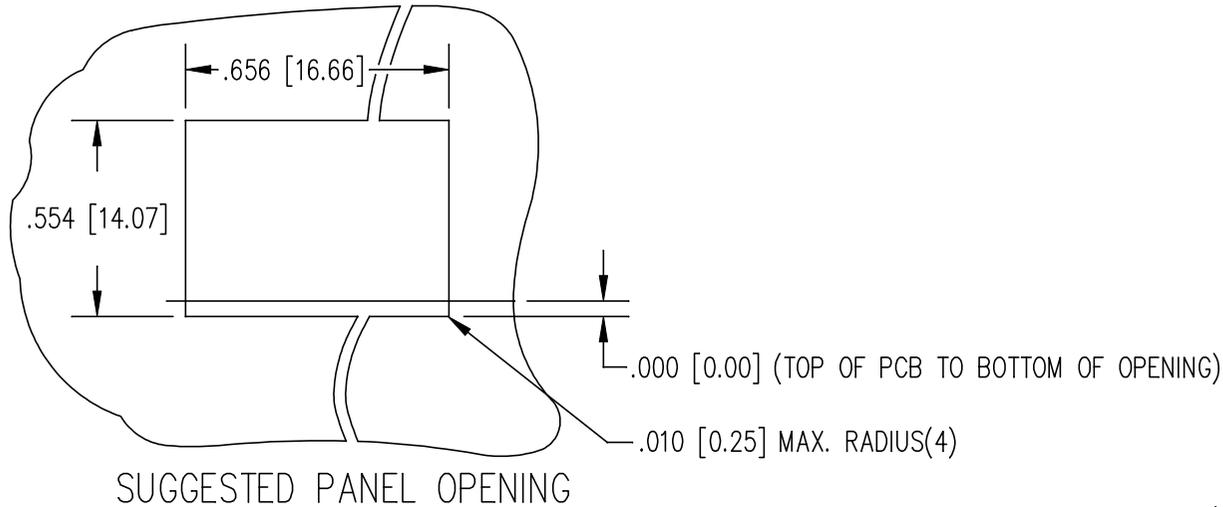
[] METRIC DIM. AS REFERENCE	REV. : A0
UNIT : INCH [mm]	SCALE : N/A
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Additional Resources: [Product Page](#) [PCB Footprint](#) [Technical Documentation](#)



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]

ORIGINATED BY Bain Liu	DATE 09-03-09	TITLE MagJack® 10/100BT TAB DOWN, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-60118-F	STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.005	[] METRIC DIM. AS REFERENCE UNIT : INCH [mm] SCALE : N/A 	REV. : A0 SIZE : A4 PAGE : 4	 COMPONENTS FOR A CONNECTED PLANET
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