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ELECTRICAL CHARACTERISTICS @ 25°C

1.0 INDUCTANCE:

- (P2-P3) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
- (P4-P5) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
- (P7-P8) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
- (P9-P10) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS

2.0 TURNS RATIO:

- (P2-P3):(J1-J2) : 1CT : 1CT ± 2%
- (P4-P5):(J3-J6) : 1CT : 1CT ± 2%
- (P7-P8):(J4-J5) : 1CT : 1CT ± 2%
- (P9-P10):(J7-J8) : 1CT : 1CT ± 2%

3.0 RETURN LOSS: 100 OHM REF.

- 500kHz TO 40MHz : -18dB MIN.
- 40MHz TO 100MHz : -12+20LOG(f/80MHz) MIN.

4.0 INSERTION LOSS: RS=RL=100 OHMS

- 100kHz TO 100MHz : -1.2dB MAX.

5.0 CROSS TALK: Ch1-Ch2, Ch1-Ch3, Ch1-Ch4, Ch2-Ch3, Ch2-Ch4, Ch3-Ch4

- 1MHz TO 30MHz : -35dB MIN.
- 30MHz TO 80MHz : -24dB MIN.
- 80MHz TO 100MHz : -25dB MIN.

6.0 CM TO CM REJECTION:

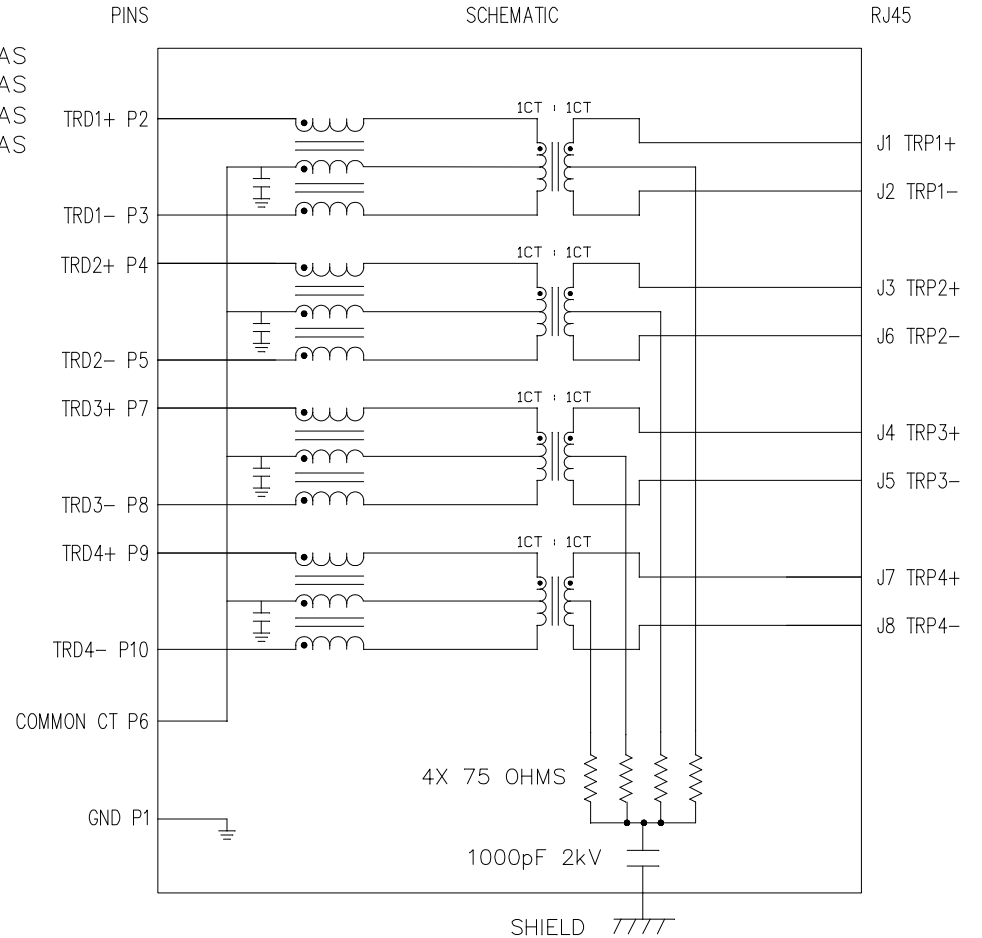
- 100kHz TO 100MHz : -30dB MIN.

7.0 CM TO DM REJECTION:

- 100kHz TO 100MHz : -35dB MIN.

8.0 VOLTAGE WITHSTAND:

- (J1,J2) TO (P2,P3) : 1500Vrms
- (J3,J6) TO (P4,P5) : 1500Vrms
- (J4,J5) TO (P7,P8) : 1500Vrms
- (J7,J8) TO (P9,P10) : 1500Vrms



ORIGINATED BY	DATE	TITLE
Bain Liu	02-10-09	MagJack® 10/100/1000BT TAB UP, SHIELDED
DRAWN BY	DATE	
LW Yuan	02-10-09	

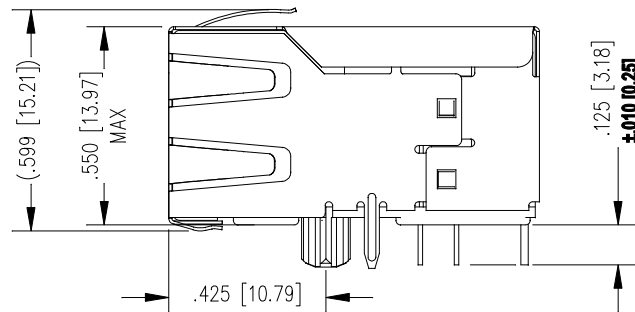
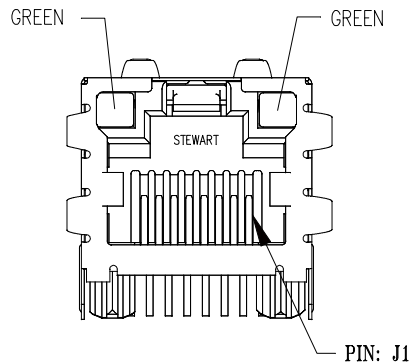
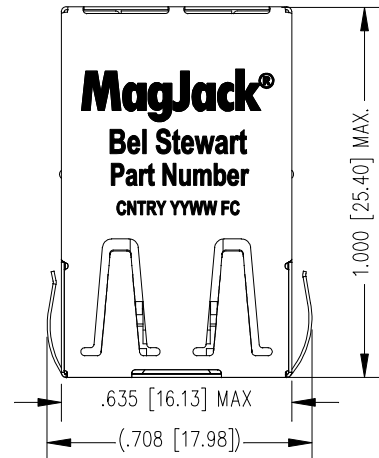
PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
SI-51005-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A0
FILE NAME	.X	SCALE : N/A SIZE : A4
SI-51005-F.DWG	.XX	PAGE : 2
	.XXX	

FILE NAME	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
SI-51005-F.DWG	TOL. IN INCH	UNIT : INCH [mm] REV. : A0
	.X	SCALE : N/A SIZE : A4
	.XX	PAGE : 2
	.XXX	

UNIT : INCH [mm]	REV. : A0
SCALE : N/A	SIZE : A4
PAGE : 2	

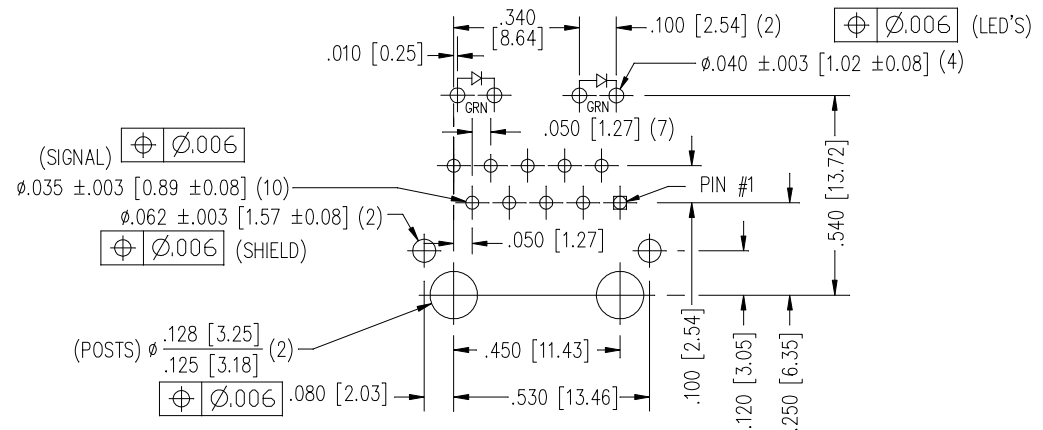


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LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)



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]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

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Bain Liu	02-10-09	MagJack® 10/100/1000BT TAB UP, SHIELDED
DRAWN BY	DATE	
LW Yuan	02-10-09	

PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
SI-51005-F	.X	UNIT : INCH [mm]
FILE NAME	.XX	SCALE : N/A
SI-51005-F.DWG	.XXX ±0.005	REV. : A0
		SIZE : A4
		PAGE : 3

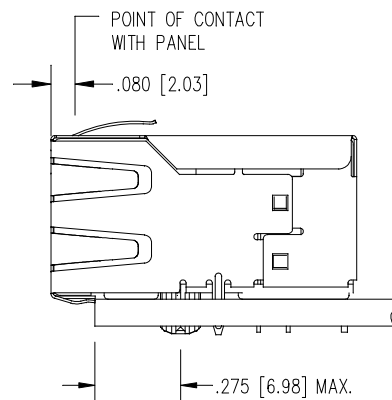
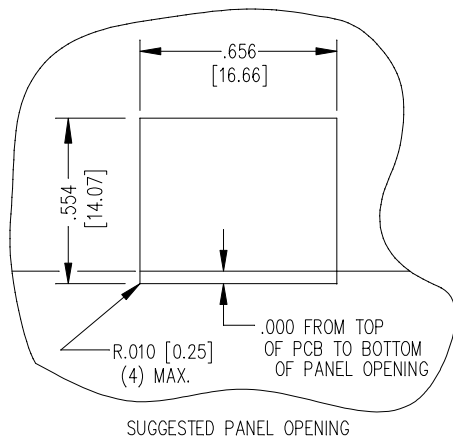
STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX ±0.005	REV. : A0
	SIZE : A4
	PAGE : 3

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


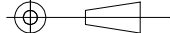


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RoHS
2002/95/EC



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	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	 COMPONENTS FOR A CONNECTED PLANET	
Bain Liu	02-10-09	MagJack® 10/100/1000BT TAB UP, SHIELDED	SI-51005-F	.X	UNIT : INCH [mm]		REV. : A0
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A		SIZE : A4
LW Yuan	02-10-09		SI-51005-F.DWG	.XXX ±0.005		PAGE : 4	

Mouser Electronics

Authorized Distributor

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Bel:

[SI-51005-F](#)