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RJ45

J1 TX+

J2 TX-

J3 RX+

J6 RX-

J4

J5

J7

J8

## ELECTRICAL CHARACTERISTICS @ 25°C

OPERATING TEMPERATURE RANGE: -40° C TO +85° C

1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6) (P1-P2-P3) : (J1-J2)

: 1CT : 1CT ± 3% : 1CT : 1CT ± 3%

2.0 INDUCTANCE: (P4-P6) (P3-P1) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias TD-P3 : 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) : 30pF MAX. @ 1MHz (P3,P2,P1) TO (J2,J1) : 30pF MAX. @ 1MHZ

5.0 DC RESISTANCE: (J6-J3)=(J2-J1)

: 1.5 ohms Max.

6.0 RETURN LOSS: (P4-P6)=100 OHMS AND (P1-P3)=100 OHM REF.

1MHz TO 30MHz 60MHz TO 80MHz : 18dB MIN. : 12dB MIN.

60MHz TO 80MHz : 12dH

NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J3-J6).

7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3) (J3, J6) TO (P4, P6)

: 1500 Vrms : 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

PULSE WIDTH= 112nS

: 3.0 nS MAX : 3.0 nS MAX

: 3.0 ns max

10.0CROSS TALK: 1-100 MHz

: 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION:

<u>NOTES</u>

CHASSIS GROUND P8

1.0 COMPLIES WITH THE EUROPEAN DIRECTIVE 2002/95/EC, CALLING FOR THE

4X 75 OHMS

1000pF 2kV

30MHz TO 100MHz: 35dB TYP

ELIMINATION OF LEAD AND OTHER HAZARDOUS SUBSTANCES FROM ELECTRONIC PRODUCTS.

SCHEMATIC

2.0 UNUSED PIN P7 IS OMITTED.

PINS

TD+ P1

TCT P2

RD+ P4

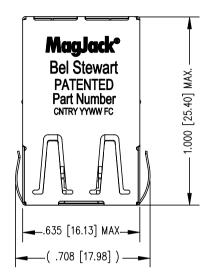
RCT P5

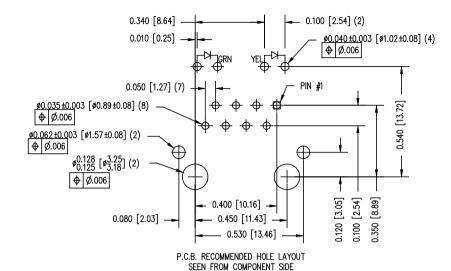
RD- P6

ORIGINATED BY	DATE	TITLE March Level®	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[] METRIC DIM. AS REF	ERENCE	
Zeng Xiao Chun	2011-02-23	"" <b>" MagJack®</b>	SI-55004-F	TOL. IN	INCH	UNIT : INCH [mm]	<b>REV.:</b> 02	bel
DRAWN BY	DATE	10/100BT	FILE NAME	x		SCALE: N/A	SIZE: A4	COMPONENTS FOR A
71 D CI		TAB UP, SHIELDED	SI-55004-F.DWG	.XX		<u> </u>		CONNECTED PLANET
Zhang Ru Sheng	2011-02-23	PATENTED	31-33004-1.DWG	.xxx	±0.005		PAGE: 2	

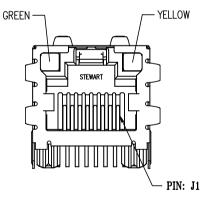
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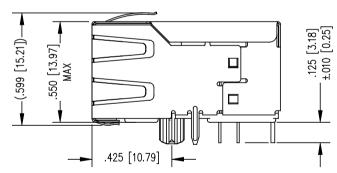






ALL CENTERLINE DIMENSIONS ARE BASIC





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)

## NOTES:

1. 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.
- 2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- 3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- 4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
- 5. REFLOW AND WAVE SOLDER COMPATIBLE-260°C FOR 10 SECONDS MAX.

ORIGINATED BY	DATE	TITLE
Zeng Xiao Chun	2011-02-23	
DRAWN BY	DATE	
Zhang Ru Sheng	2011-02-23	

10/100BT TAB UP, SHIELDED

**PATENTED** 

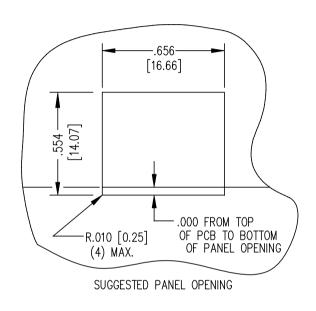
FILE N

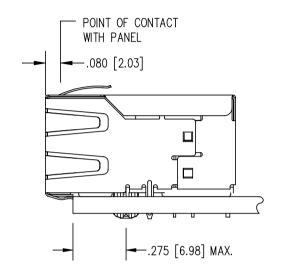
PART NO. / DRAWING NO.		STANDARD DIM. [] METRIC DIM. AS REFERENCE			ERENCE	
	SI-55004-F	TOL. IN	INCH	UNIT : INCH [mm]	<b>REV.:</b> 02	
FILE NAME		.X		SCALE: N/A	SIZE : A4	
	SI-55004-F.DWG	.XX		<b>A</b> 1	<u> </u>	
	31-33004-1.DWG	.XXX	±0.005		PAGE: 3	



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- 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 ±.005 [0.13]

ORIGINATED BY	DATE	TITLE
Zeng Xiao Chun	2011-02-23	
DRAWN BY	DATE	
Zhang Ru Sheng	2011-02-23	

MagJack®
10/100BT
TAB UP, SHIELDED
PATENTED

PART NO. / DRAWING NO.	STANDA	RD DIM.	[] METRIC DIM. AS REFERENCE		
SI-55004-F	TOL. IN	INCH	UNIT : INCH [mm]	<b>REV.:</b> 02	
FILE NAME	x		SCALE: N/A	SIZE : A4	
SI-55004-F.DWG	.xx		SCALE. N/A	SIZE . A4	
31-33004-F.DWG	.xxx	±0.005		PAGE: 4	

