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PATENTED: THIS PRODUCT IS **COVERED BY U.S. PATENT 5,736,910**



DOCUMENT / PART NO.: SI-52007-F

TITLE: 10/100BT, PoEP;TAB UP, SHIELDED

ISSUE	DESCRIPTION OF CHANGE								REVIEWED BY			A	PPRO	ECN	#		
01	Release for sample building.								David Chan			s	Steve Weller			96	
02	Use new format and production release and change the operating temperature of -40 to 85°C								Bain Liu			S	Steve Weller			06363	
03	Update the circuit drawing							Bain Liu			s	Steve Weller			33		
PAGE	1	2	3	4					 								
REV.	03	03	03	03					 						-		
PAGE									 					C5182-	-F REV 0)3	
REV.									 					24-0483	F REV	02	

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RoHS Additional Resources:

RJ45

J2 TX-

J3 RX+

J6 RX-2

J5 J7

SCHEMATIC

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1CT : 1CT

1CT : 1CT

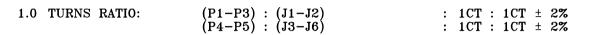
4X22nF 100Vdc

4X 75 OHM

1nF 2kVdc

SHIELD 7777

ELECTRICAL CHARACTERISTICS @ 25°C



(P1-P3); (P4-P5) 2.0 DC RESISTANCE: : 1.2 OHMS (J1-J2): (J3-J6): 0.8 OHMS

: 350uH MIN. @ 0.1V, 100KHz, 12mA DC Bias RD+ P4 3.0 INDUCTANCE: (P1-P3) : 350uH MIN. @ 0.1V, 100KHz, 12mA DC Bias (P4-P5)

4.0 RETURN LOSS: (P1-P3)=100 OHMS REF. AND (P4-P5)=100 OHM REF.

1MHz TO 30MHz : 16dB MIN.

60MHz TO 80MHz : 10dB MIN.

5.0 INSERTION LOSS: RS & RL = 100 ohms

TITLE

1MHz TO 100MHz : 1.5 dB MAX

CROSS TALK: 1MHz - 100 MHz: 30 dB MIN.

7.0 DIELECTRIC WITHSTAND: (P1-P3) TO (J1-J2) : 2000 Vrms

(P4-P5) TO (J3-J6) : 2000 Vrms

: 700mA MAX 8.0 BALANCED DC LINE CURRENT: USED PAIRS

: 700mA MAX UNUSED PAIRS

9.0 OPERATING TEMPERATURE: : -40 to 85° C

10/100BT, PoEP

TAB UP. SHIELDED

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PART NO. / DRAWING NO. [] METRIC DIM. AS REFERENCE STANDARD DIM. SI-52007-F **TOL. IN INCH** UNIT: INCH [mm] REV.: 03 X. **FILE NAME** SCALE: N/A SIZE: A4 XX. SI-52007-F.DWG PAGE: 2 XXX. ±0.005

PINS

TD+ P1

TD- P3

RD- P5

VC+ P8

VC- P9

VC+ P10

VC- P11

COMMON CT P2



Duan Jun FM999185 REV C0

DRAWN BY

ORIGINATED BY

Zeng Xiaochun

DATE

DATE

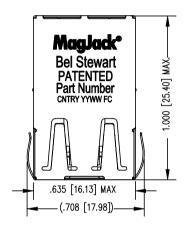
2012-04-18

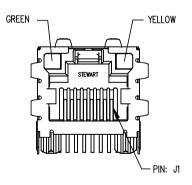
2012-04-18

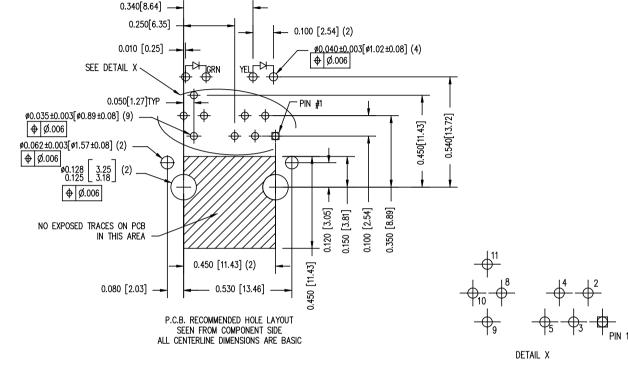
Additional Resources

STANDARD LED	WAVELENGTH	Forward V (MAX)	* (TYP)
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

^{*} WITH A FORWARD CURRENT OF 20 mA (TYP)







[3.18] [0.25] [15.21] [13.97]_ MAX 220 .425 [10.79]

NOTES:

1. CONNECTOR MATERIALS: HOUSING: THERMOPLASTIC UL94 V-0 CONTACT/SHIELD: COPPER ALLOY SHIELD PLATING: NICKEL OR TIN

CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: 50 MICRO—INCH SELECTIVE HARD GOLD PLATING
OR EQUIVALENT 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 Xiaochun	2012-04-18	
DRAWN BY	DATE	
Duan Jun	2012-04-18	

MagJack® 10/100BT, PoEP **TAB UP, SHIELDED**

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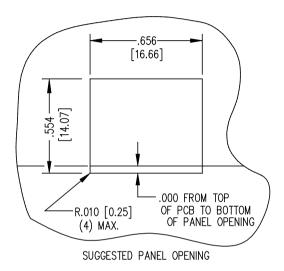
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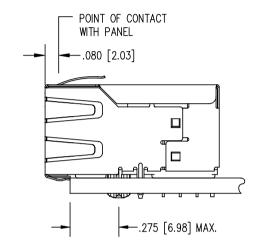
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Additional Resources:





- 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
Zeng Xiaochun	2012-04-18
DRAWN BY	DATE
Duan Jun	2012-04-18

MagJack®
10/100BT, PoEP
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TITLE

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