



**PATENTED:  
THIS PRODUCT IS  
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PATENT 5,736,910**

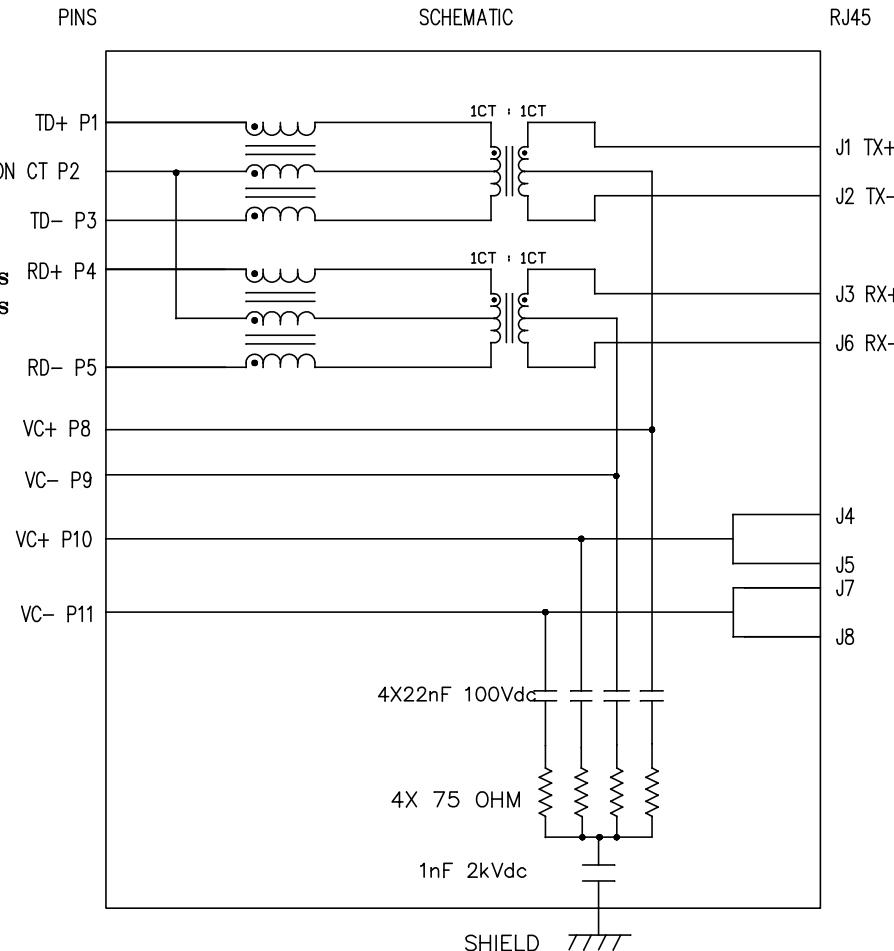
# COMPONENTS FOR A CONNECTED PLANET®

DOCUMENT / PART NO.: SI-52007-F

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

ELECTRICAL CHARACTERISTICS @ 25° C

1.0 TURNS RATIO:	(P1-P3) : (J1-J2)	: 1CT : 1CT ± 2%
	(P4-P5) : (J3-J6)	: 1CT : 1CT ± 2%
2.0 DC RESISTANCE:	(P1-P3); (P4-P5)	: 1.2 OHMS
	(J1-J2); (J3-J6)	: 0.8 OHMS
3.0 INDUCTANCE:	(P1-P3)	: 350uH MIN. @ 0.1V, 100KHz, 12mA DC Bias
	(P4-P5)	: 350uH MIN. @ 0.1V, 100KHz, 12mA DC Bias
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	
	1MHz TO 100MHz	: 1.5 dB MAX
6.0 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
8.0 BALANCED DC LINE CURRENT:	USED PAIRS	: 700mA MAX
	UNUSED PAIRS	: 700mA MAX
9.0 OPERATING TEMPERATURE:		: -40 to 85° C



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[ ] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
Zeng Xiaochun	2012-04-18			TOL. IN INCH	UNIT : INCH [mm]	REV. : 03		
DRAWN BY	DATE		FILE NAME	.X				
Duan Jun	2012-04-18		SI-52007-F.DWG	.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.005		PAGE : 2	

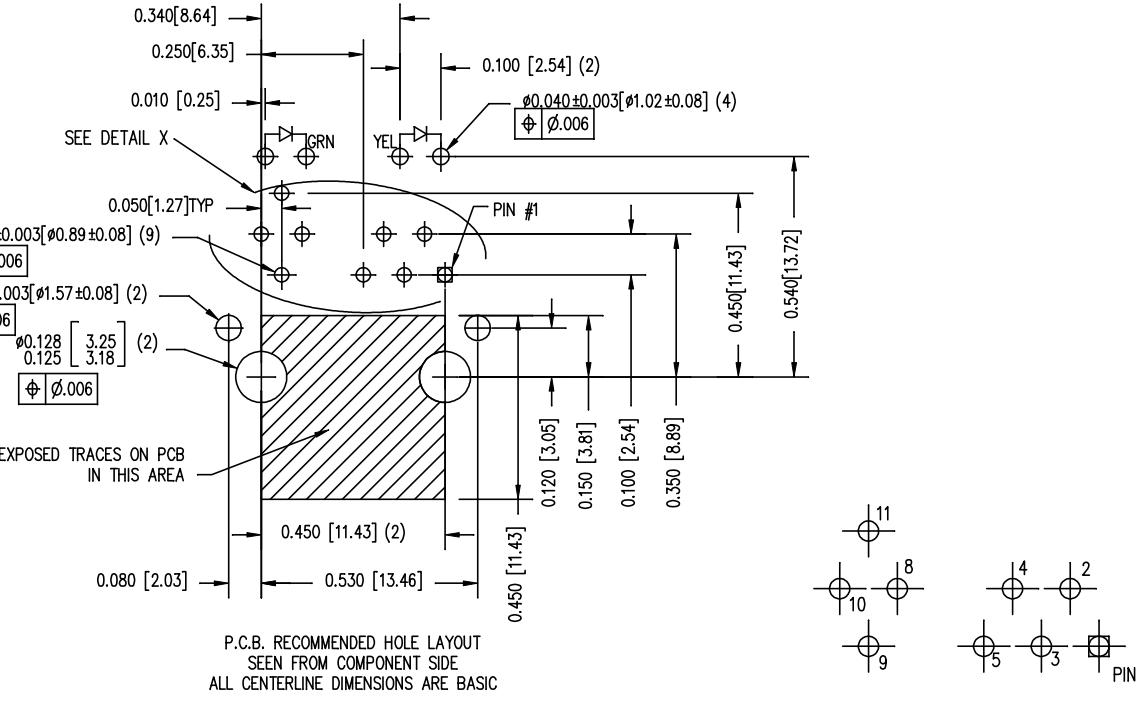
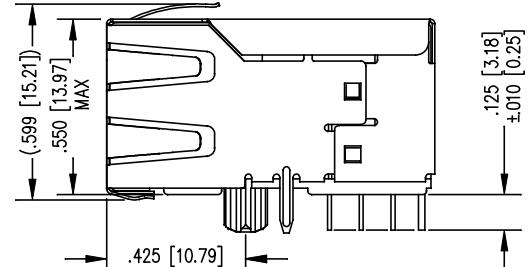
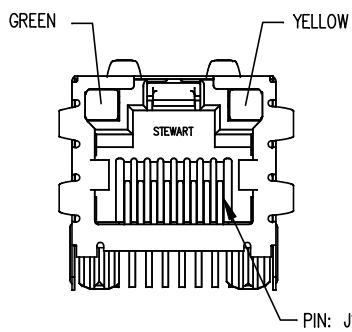
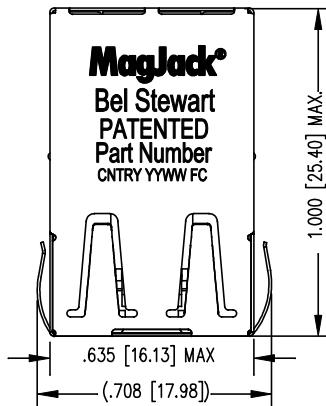
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STANDARD LED	WAVELENGTH	Forward V (MAX)	* (TYP)
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.5 V	2.2 V

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



DETAIL X

NOTES:

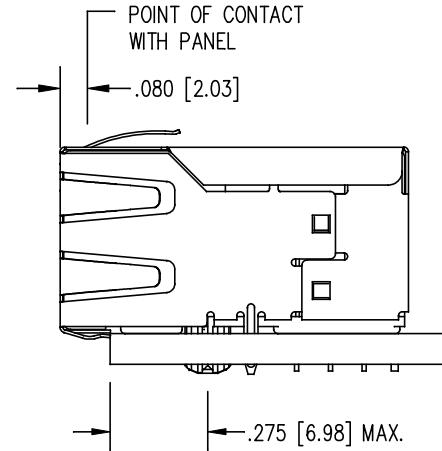
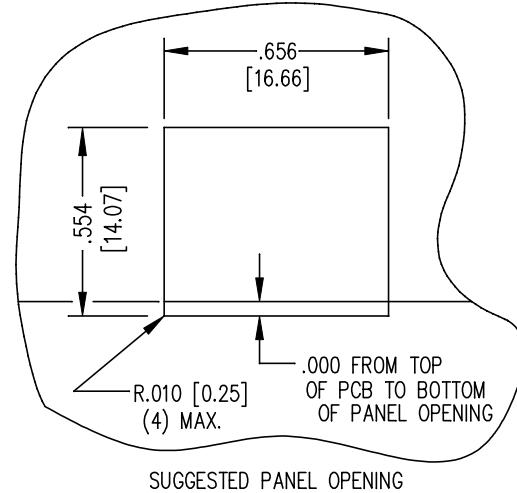
1. CONNECTOR MATERIALS:  
HOUSING: THERMOPLASTIC UL94 V-0  
CONTACT/SHIELD: COPPER ALLOY  
SHIELD PLATING: NICKEL OR TIN  
CONTACT PLATING: 50 MICRO-INCH SELECTIVE HARD GOLD PLATING OR EQUIVALENT IN CONTACT AREA
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.  
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE  $\pm .005$  [0.13]
5. REFLOW AND WAVE SOLDER COMPATIBLE  $-260^\circ\text{C}$  FOR 10 SECONDS MAX.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
DRAWN BY	DATE				UNIT : INCH [mm]	REV. : 03
Zeng Xiaochun	2012-04-18	MagJack® 10/100BT, PoEP TAB UP, SHIELDED PATENTED	SI-52007-F	.X		
Duan Jun	2012-04-18				.XX	
			FILE NAME	XXX	$\pm 0.005$	SCALE : N/A
			SI-52007-F.DWG			SIZE : A4
						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  $\pm .005$  [0.13]

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