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bel

**COMPONENTS FOR A
CONNECTED
PLANET®**

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

DOCUMENT / PART NO.: SI-52003-F

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

ISSUE	DESCRIPTION OF CHANGE								REVIEWED BY				APPROVED BY				ECN#	
A0	USE NEW FORMAT AND PRODUCTION RELEASE								David Chan				Danny Kwan				06257	
A1	Update the circuit drawing								Bain Liu				Steve Weller				06383	

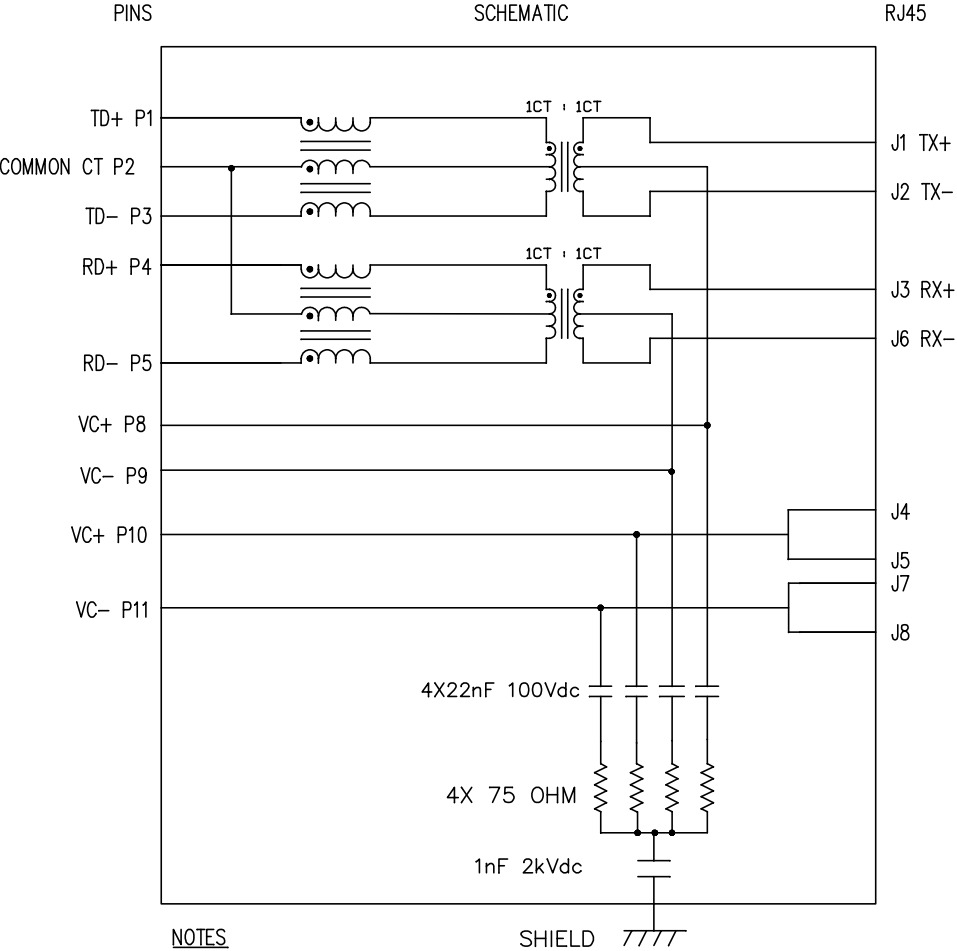
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ELECTRICAL CHARACTERISTICS @ 25°C

1.0 TURNS RATIO:	(P1-P3):(J1-J2) (P4-P5):(J3-J6)	1CT : 1CT ±2% 1CT : 1CT ±2%
2.0 DC RESISTANCE:	(P1-P3):(P4-P5) (J1-J2):(J3-J6)	1.4 OHMS 1.2 OHMS
3.0 INDUCTANCE:	(P1-P3) (P4-P5)	350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
4.0 LEAKAGE INDUCTANCE:	(P4-P5) WITH J6 AND J3 SHORT (P1-P3) WITH J2 AND J1 SHORT	0.3uH MAX. @ 1MHz 0.3uH MAX. @ 1MHz
5.0 INTERWINDING CAPACITANCE:	(P4,P5) TO (J3,J6) (P1,P2,P3) TO (J1,J2)	60pF TYP @ 1MHz 60pF TYP @ 1MHz
6.0 RETURN LOSS:	(P1-P3)=100 OHMS REF. AND (P4-P5)=100 OHM REF. 1MHz TO 30MHz 30MHz TO 60MHz 60MHz TO 80MHz	-18dB MIN. -(19-20LOG(f/30MHz)) 12dB MIN.
7.0 DIELECTRIC WITHSTAND:	(J3,J6) TO (P4,P5) (J1,J2) TO (P1,P3)	1500Vrms 1500Vrms
8.0 INSERTION LOSS:	RS=RL=100 OHMS 1MHz-65MHz	-1dB MAX
9.0 RISE TIME:	RS=RL=100 OHMS OUTPUT VOLTAGE = 1V PEAK PULSE WIDTH = 112nS	3.0nS MAX 3.0nS MAX
10.0 CROSS TALK:	1MHz-65MHz	-35dB MIN.
11.0 CM TO CM ATTENUATION:	30MHz TO 100MHz 100MHz TO 130MHz	-30dB MIN. -20dB MIN.
12.0 BALANCED DC LINE CURRENT:		350mA MAX @ 57 VDC CONTINUOUS 500mA MAX @ 57 VDC FOR 200 MILLSECONDS



NOTES

1.0 DESIGNED TO SUPPORT IEEE 802.3

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE		 COMPONENTS OR A CONNECTED PLANET
Zeng Xiaochun	SI-52003-F	MagJack® 10/100BT, PoE TAB UP, SHIELDED PATENTED	SI-52003-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A1	
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	SIZE : A4	
Duan Jun	SI-52003-F		SI-52003-F.DWG	.XX .XXX	±0.005	PAGE : 2	

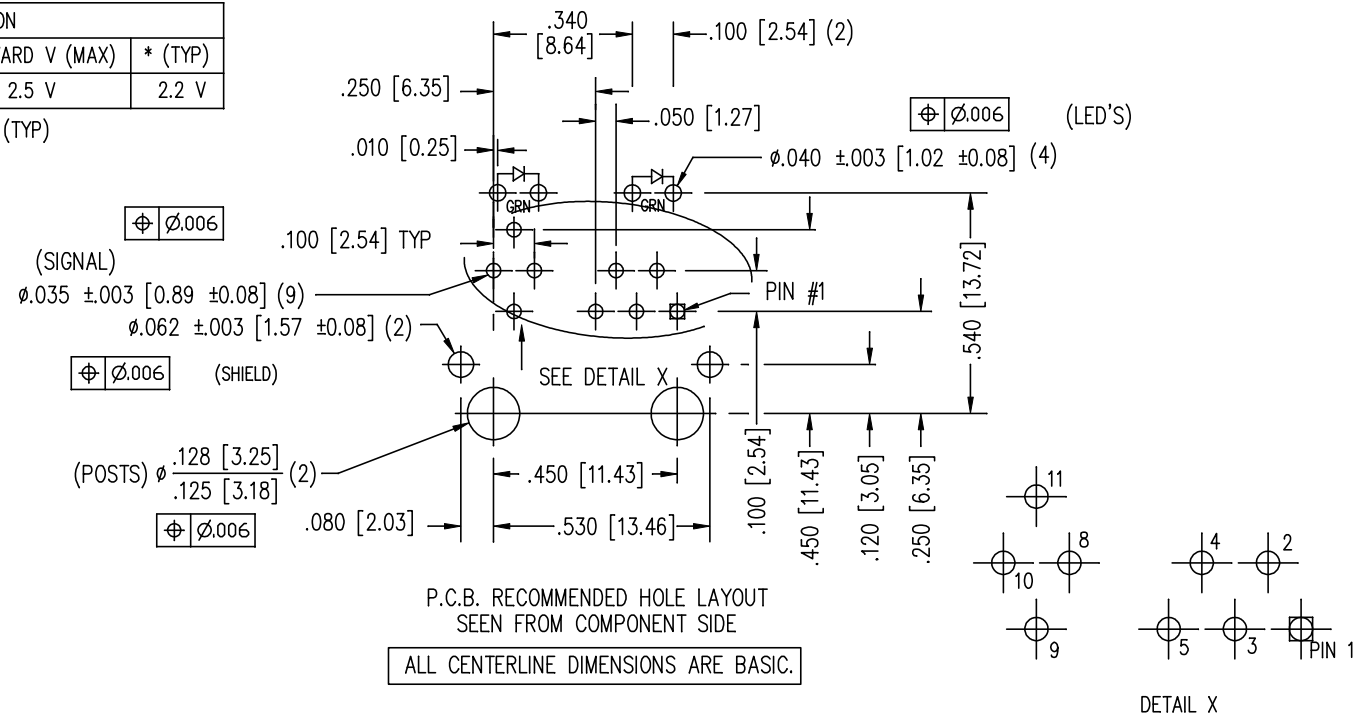
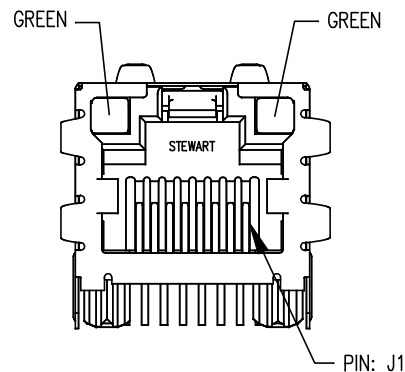
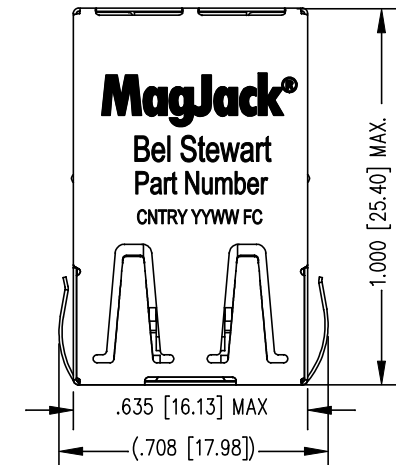
RoHS



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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)



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 ± 0.005 [0.13]
5. REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR
10 SECONDS MAX.

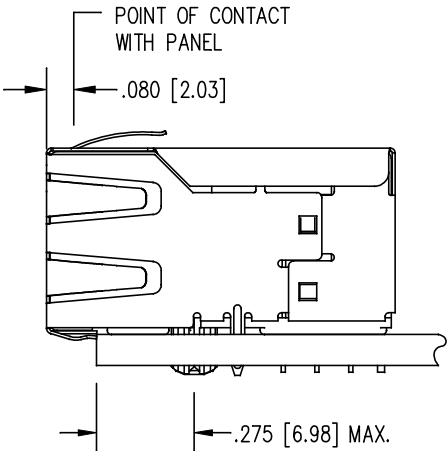
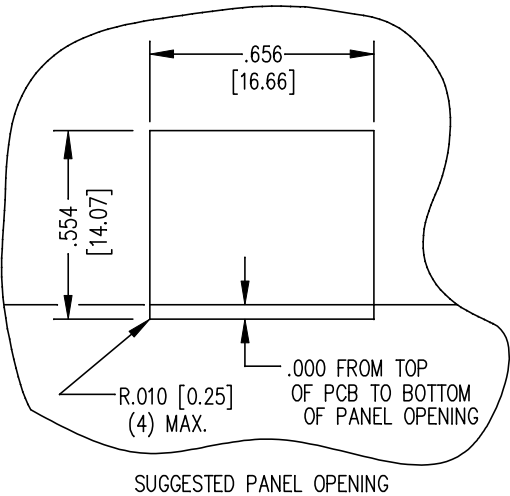
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Zeng Xiaochun	SI-52003-F		SI-52003-F	TOL. IN INCH		UNIT : INCH [mm]	REV. : A1	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4	
Duan Jun	SI-52003-F		SI-52003-F.DWG	.XX			PAGE : 3	
			.XXX	±0.005				

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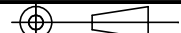
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1. THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.
2. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 0.005 [0.13]

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				.XXX	±0.005			