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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			A	APPROVED BY			EC	N#			
Α0	USE NEW FORMAT AND PRODUCTION RELEASE					David Chan			D	Danny Kwan		062	257			
A1	Update the circuit drawing					Bain Liu			Steve Weller			063	883			
							-									
							+-									
							+									
							+									
							+									
							+									
PAGE	1	2	3	4												
REV.	A1	2 A1	A1	4 A1	 	 										
PAGE					 	 							C5	1 128-l	T REV	A2
REV.					 	 							<b>}</b>		-F RE	

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## ELECTRICAL CHARACTERISTICS @ 25°C

.0	TUKN5	RAIIU:		
			(P1-P3): (J1-J2)	
			(1 1-1 3). (01-02)	
			(D4 DE)./ 13 IE)	
			(P4–P5): (J3–J6)	

1CT: 1CT ±2% 1CT: 1CT ±2%

2.0 DC RESISTANCE:

(P1-P3): (P4-P5) 1.4 OHMS (J1-J2):(J3-J6)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 0.3uH MAX. @ 1MHz (P1-P3) WITH J2 AND J1 SHORT 0.3uH MAX. @ 1MHz

5.0 INTERWINDING CAPACITANCE:

(P4,P5) TO (J3,J6) 60pF TYP @ 1MHz (P1,P2,P3) TO (J1,J2) 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) 1500Vms 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

TITLE

10.0 CROSS TALK:

1MHz-65MHz

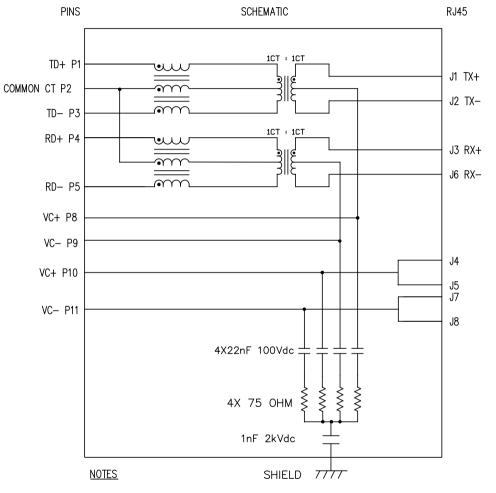
-35dB MIN.

11.0 CM TO CM ATTENUATION:

30MHz TO 100MHz -30dB MIN. 100MHz TO 130MHz -20dB MIN.

12.0 BALANCED DC LINE CURRENT:

350mA MAX @ 57 VDC CONTINUOUS 500mA MAX @ 57 VDC FOR 200 MILLSECONDS



1.0 DESIGNED TO SUPPORT IEEE 802.3

ORIGINATED BY	DATE
Zeng Xiaochun	SI-52003-F
DRAWN BY	DATE
Duan Jun	SI-52003-F

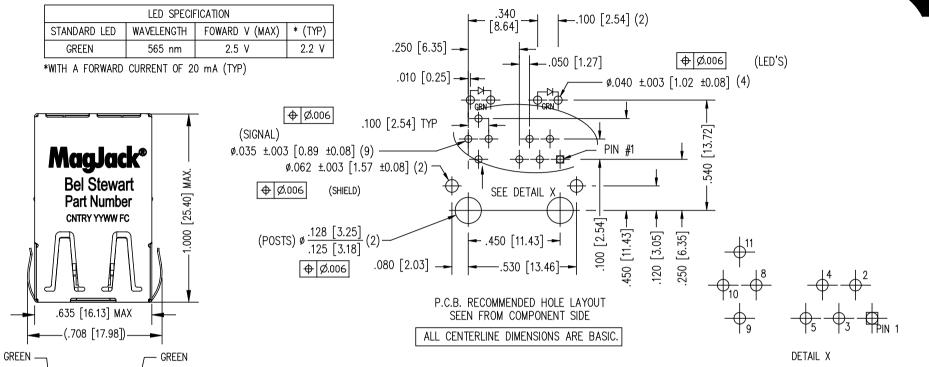
**MagJack®** 10/100BT, PoE **TAB UP, SHIELDED** PATENTED

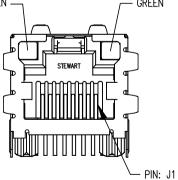
PART NO. / DRAWING NO.	STANDA	RD DIM.	[] METRIC DIM. AS REFERENCE			
SI-52003-F	TOL. IN INCH		UNIT : INCH [mm]	REV.: A1		
FILE NAME	ı.X		SCALE: N/A	SIZE: A4		
SI-52003-F.DWG	.xx		$\wedge$			
01-02000-1 .DVIG	.xxx	±0.005		PAGE: 2		

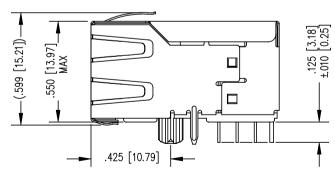


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## NOTES:

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

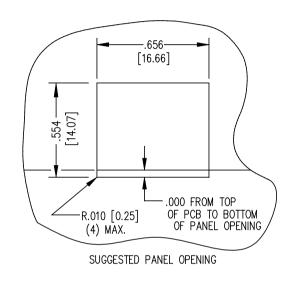
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.

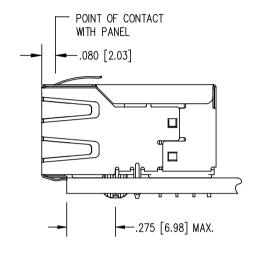
- 3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- 4. ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±.005 [0.13]
- REFLOW AND WAVE SOLDER COMPATIBLE -260°C FOR 10 SECONDS MAX.

ORIGINATED BY	DATE	TITLE Mag lack®	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[] METRIC DIM. AS REF	ERENCE	
Zeng Xiaochun	SI-52003-F	MagJack <sup>®</sup>	SI-52003-F	TOL. IN	INCH	UNIT : INCH [mm]	REV.: A1	bel
DRAWN BY	DATE		FILE NAME	.xx		SCALE: N/A	SIZE: A4	COMPONENTS FOR A CONNECTED PLANET
Duan Jun	SI-52003-F	TAB UP, SHIELDED PATENTED	SI-52003-F.DWG	.XXX	±0.005		PAGE: 3	PLANET

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- 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  $\mbox{TO BE } \pm 0.05 \ [0.13]$

ORIGINATED BY	DATE	TITLE
Zeng Xiaochun	SI-52003-F	
DRAWN BY	DATE	
Duan Jun	SI-52003-F	

MagJack®
10/100BT, PoE
TAB UP, SHIELDED
PATENTED

PART NO. / DRAWING NO.	STANDA	RD DIM.	[] METRIC DIM. AS REFERENCE			
SI-52003-F	TOL. IN INCH		UNIT : INCH [mm]	REV.: A1		
FILE NAME	.X		SCALE: N/A	SIZE: A4		
SI-52003-F.DWG	.XX			OILL: AT		
31-32003-F.DVVG	.xxx	±0.005		PAGE: 4		

