



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

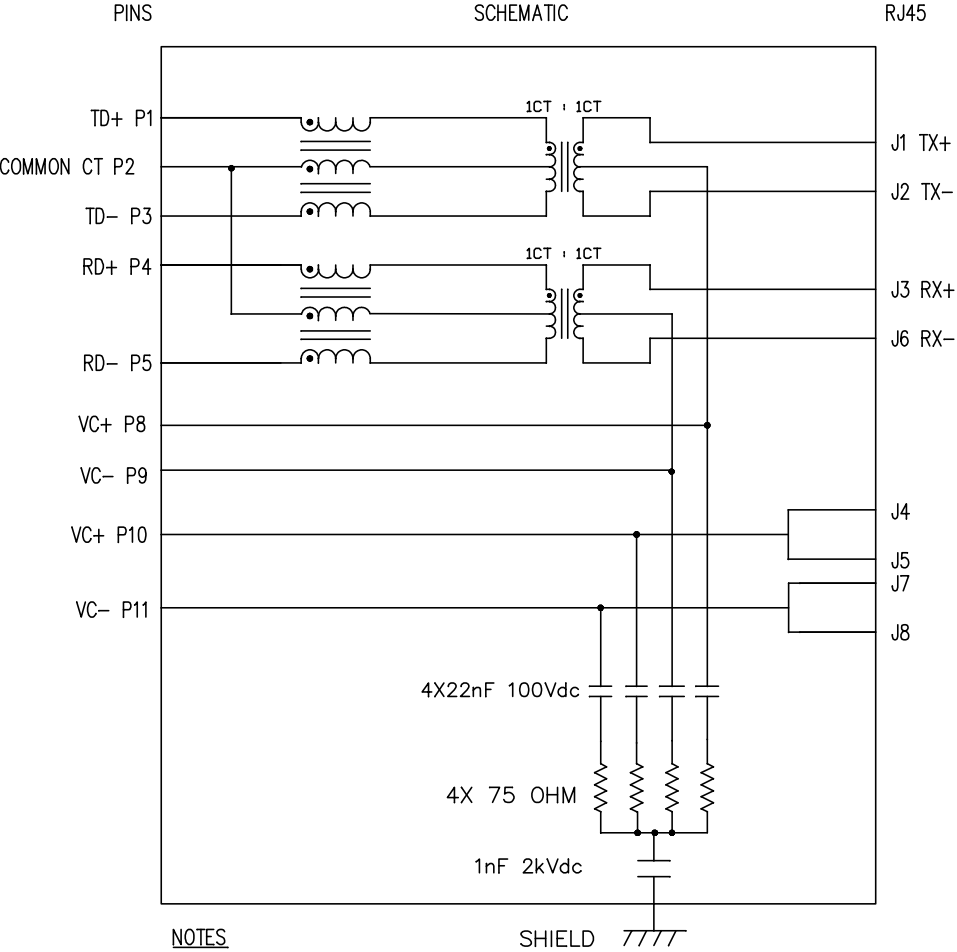
ISSUE	DESCRIPTION OF CHANGE								REVIEWED BY				APPROVED BY				ECN#	
A0	USE NEW FORMAT AND PRODUCTION RELEASE								David Chan				Danny Kwan				06257	
A1	Update the circuit drawing								Bain Liu				Steve Weller				06383	

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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

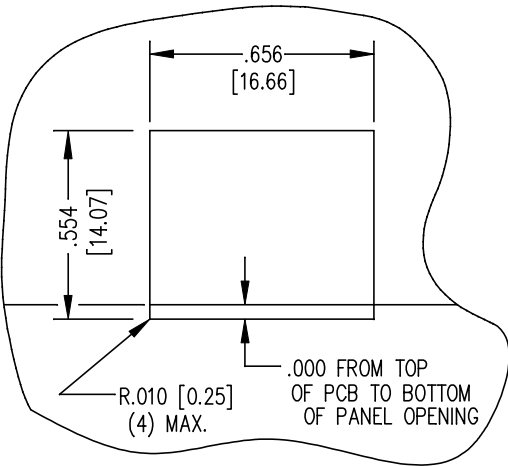
1.0 DESIGNED TO SUPPORT IEEE 802.3

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR 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		PAGE : 2	
				.XXX	±0.005		

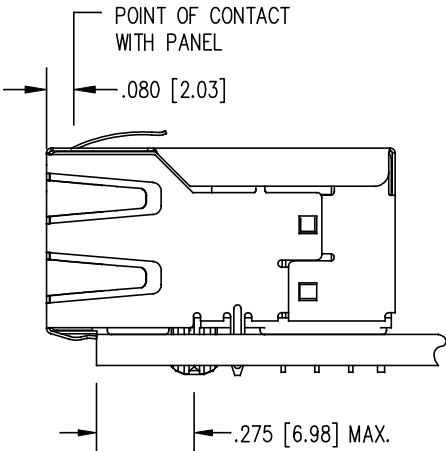
RoHS



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SUGGESTED PANEL OPENING



- 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 Zeng Xiaochun	DATE SI-52003-F	TITLE MagJack® 10/100BT, PoE TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-52003-F	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE	
				.X		UNIT : INCH [mm]	REV. : A1
DRAWN BY Duan Jun	DATE SI-52003-F		FILE NAME SI-52003-F.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.005		PAGE : 4

