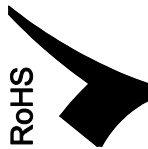




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RoHS



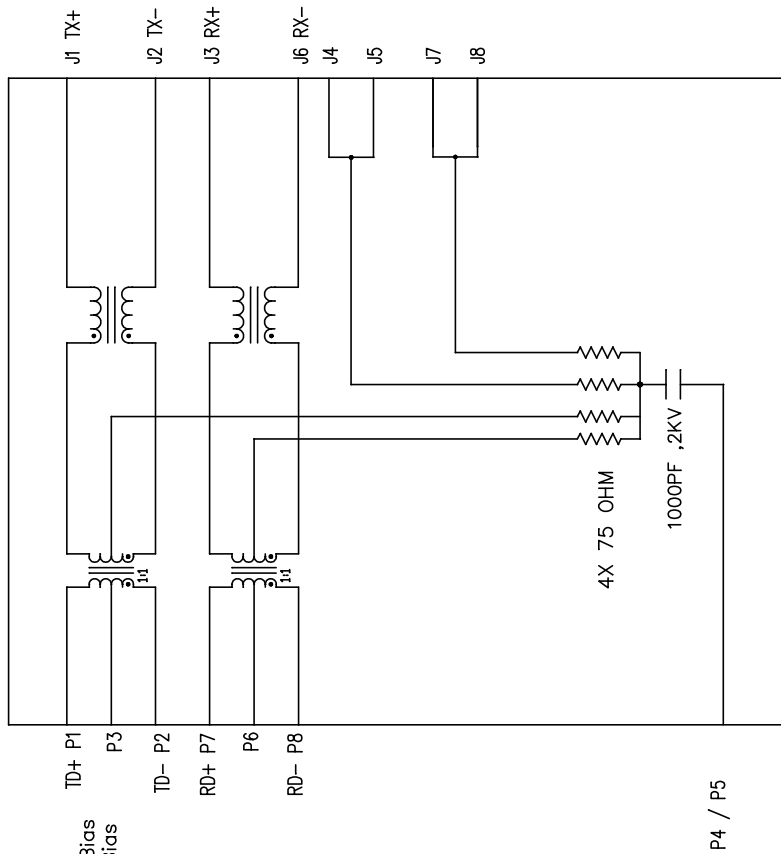
PRELIMINARY

ELECTRICAL SPECIFICATIONS:

- 1.0 TURNS RATIO: (P7-P6-P8) : (J3-J6)  
(P1-P3-P2) : (J1-J2) : 1CT : 1CT ± 3%  
: 1CT : 1CT ± 3%
- 2.0 INDUCTANCE: (P7-P8) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias  
(P1-P2) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P7-P8 (WITH J6 AND J3 SHORT)  
P1-P2 (WITH J2 AND J1 SHORT) : 0.3uH MAX. @ 1MHz  
: 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P7,P6,P8) TO (J3,J6)  
(P1,P3,P2) TO (J1,J2) : 30pF TYP @ 1MHz  
: 30pF TYP @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3)=(J2-J1) : 1.4 ohms Max.
- 6.0 RETURN LOSS: (P7-P8)=100 OHMS AND (P1-P2) =100 OHM REF.  
1MHz TO 30MHz : -18dB MIN.  
30MHz TO 60MHz : -(19-20 LOG (f/30MHz))  
60MHz TO 80MHz : 12dB MIN.
- NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).
- 7.0 DIELECTRIC WITHSTAND: (J3, J6) TO (P7, P8)  
(J1, J2) TO (P1, P2) : 1500 VAC  
: 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms  
1-65MHz : -1 dB MAX
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS  
OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX  
PULSE WIDTH= 112ns : 3.0 nS MAX
- 10.0 CROSS TALK: 1-65MHz : -35 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : -30dB MAX  
100MHz TO 130MHz : -20dB MAX

PINS R445

SCHEMATIC



NOTES

- 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.
- 2.0 ALL RESISTORS ARE ±5% TOLERANCE.

ORIGINATED BY	DATE	TITLE
Zeng Xiao Chun	2012-02-15	MagJack® 10/100BT SHIELDED PATENTED
DRAWN BY	DATE	
Duan Jun	2012-02-15	

PART NO. / DRAWING NO.	
SI-50246-F	
FILE NAME	SI-50246-F.DWG

STANDARD DIM.	
TOL. IN INCH	
-X	
-XX	
-XXX	±0.005

[ ] METRIC DIM. AS REFERENCE	
UNIT : INCH [mm]	REV. : X0
SCALE : N/A	SIZE : A4
	PAGE : 2



COMPONENTS OR A  
CONNECTED

