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COMPONENTS FOR A CONNECTED PLANET™

DOCUMENT / PART NO.: SI-46001-F

TITLE : 10/100BT, VERTICAL, SHIELDED

ISSUE	DESCRIPTION OF CHANGE	REVIEWED BY	APPROVED BY	ECN#
A0	Use new format and production release.	David Chan	Steve Weller	06295
B0	correct the footprint dimension	David Chan		06307

PAGE	1	2	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REV.	B0	B0	B0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PAGE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	C0215-F REV A0			
REV.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24-0247-F REV B0			

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RoHS 2002/95/EC

ELECTRICAL CHARACTERISTICS @ 25°C

1.0 TURNS RATIO: (P6–P5–P4) : (J6–J3) :1CT : 1CT± 3%
(P3–P2–P1) : (J2–J1) :1CT : 1CT ± 3%

2.0 INDUCTANCE: (P6–P4) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
(P3–P1) : 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias

3.0 LEAKAGE INDUCTANCE: P6–P4 (WITH J6 AND J3 SHORT) :0.3uH MAX. @ 1MHz
P3–P1 (WITH J2 AND J1 SHORT) :0.3uH MAX. @ 1MHz

4.0 INTERWINDING CAPACITANCE: (P6,P5,P4) TO (J6,J3) :30pF MAX. @ 1MHz
(P3,P2,P1) TO (J2,J1) :30pF MAX. @ 1MHZ

5.0 DC RESISTANCE: (J6–J3)=(J2–J1) :1.2 ohms Max.

6.0 RETURN LOSS: (P6–P4)=100 OHMS AND (P1–P3)=100 OHM REF.
1MHz TO 30MHz : 18dB MIN.
60MHz TO 80MHz : 12dB MIN.

NOTE: 100 OHMS CONNECTED TO (J2–J1) OR (J6–J3).

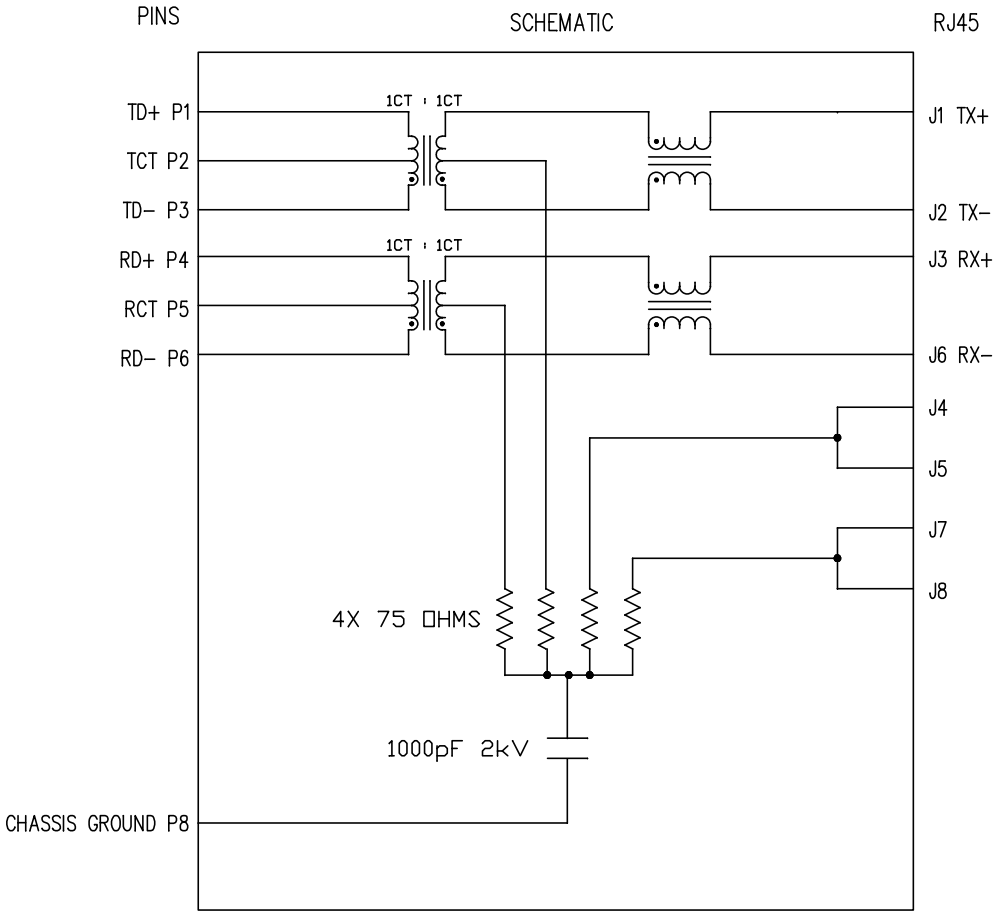
7.0 VOLTAGE WITHSTAND: (J1, J2) TO (P1, P3) : 1500 Vrms
(J3, J6) TO (P4,P6) : 1500 Vrms

8.0 INSERTION LOSS: RS=RL=100 ohms
100KHz TO 100MHz : 1.1 dB TYP

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: 1MHz TO 100MHz : 40 dB TYP

11.0 COMMON TO COMMON MODE ATTENUATION:
30MHz TO 100MHz : 35dB TYP



NOTES: 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
Bain Liu	04–23–09	MagJack® 10/100BT VERTICAL, SHIELDED	SI–46001–F	.X / .XX / .XXX ±0.005	UNIT : INCH [mm]	REV. : B0
DRAWN BY	DATE		FILE NAME		SCALE : N/A	SIZE : A4
R.S.Zhang	04–23–09		SI–46001–F.DWG			PAGE : 2

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