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bel

Product Specification No.

SI-51005-F

Issue A3 Page 3

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

1.0 INDUCTANCE:

(P2-P3) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P4-P5) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P7-P8) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS
(P9-P10) 350uH MIN. @ 0.1V, 100KHz, 8mA DC BIAS

2.0 TURNS RATIO:

(P2-P3): (J1-J2) 1CT : 1CT ± 2%
(P4-P5): (J3-J6) 1CT : 1CT ± 2%
(P7-P8): (J4-J5) 1CT : 1CT ± 2%
(P9-P10): (J7-J8) 1CT : 1CT ± 2%

3.0 RETURN LOSS: 100 OHM REF.

500kHz TO 40MHz -18dB MIN.
40MHz TO 100MHz -12+20LOG(f/80MHz) MIN.

4.0 INSERTION LOSS: RS=RL=100 OHMS

100kHz TO 100MHz -1.2dB MAX.

5.0 CROSS TALK: Ch1-Ch2, Ch1-Ch3, Ch1-Ch4, Ch2-Ch3, Ch2-Ch4, Ch3-Ch4

1MHz TO 30MHz -35dB MIN.
30MHz TO 80MHz -24dB MIN.
80MHz TO 100MHz -25dB MIN.

6.0 CM TO CM REJECTION:

100kHz TO 100MHz -30dB MIN.

7.0 CM TO DM REJECTION:

100kHz TO 100MHz -35dB MIN.

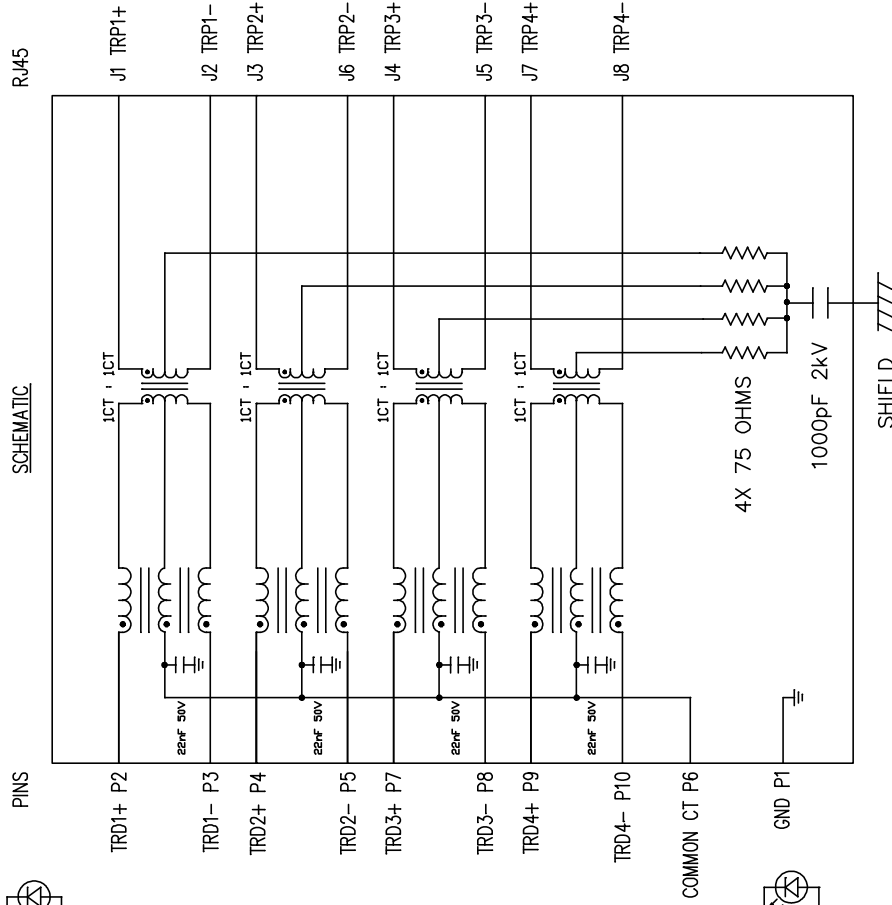
8.0 VOLTAGE WITHSTAND:

(J1,J2) TO (P2,P3) 1500Vrms
(J3,J6) TO (P4,P5) 1500Vrms
(J4,J5) TO (P7,P8) 1500Vrms
(J7,J8) TO (P9,P10) 1500Vrms

9.0 THIS COMPONENT IS A PATENT PRODUCT;US PATENT NUMBER 7,123,117.



SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2018-05-22

DRAWN BY
XIE YIMING
DATE 2018-05-22

TITLE

MagJack®
10/100/1000 BT
TAB UP, SHIELDED
PATENTED

PART NO. / DRAWING NO.

SI-51005-F

STANDARD DIM.

TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.

AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : A3 PAGE : 2



MAGNETIC
SOLUTIONS

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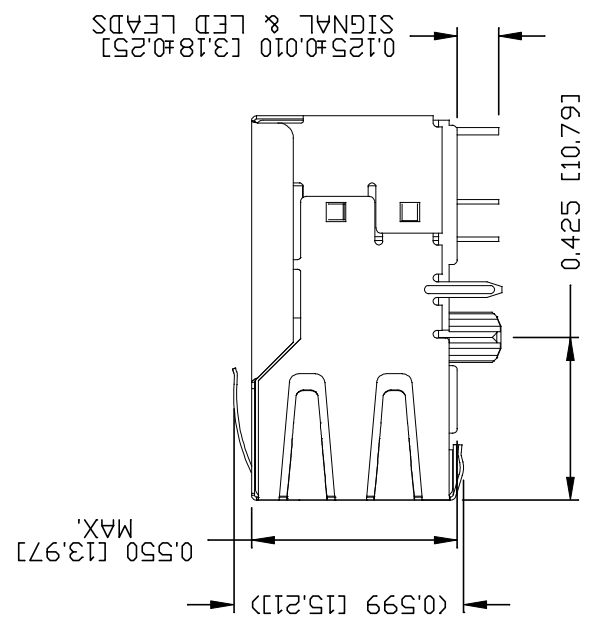
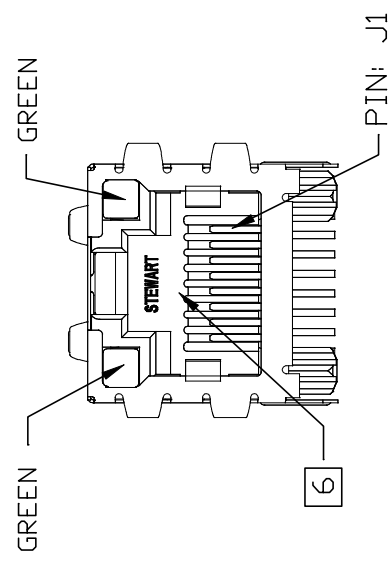
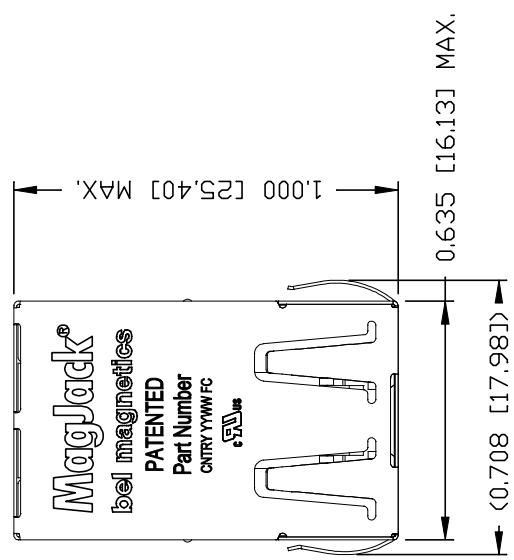
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NOTES:

- 1. CONNECTOR MATERIALS:
HOUSING: THERMOPLASTIC UL94 V-0
CONTACT/SHIELD: COPPER ALLOY
SHIELD PLATING: NICKEL OR TIN
CONTACT PLATING: SELECTIVE GOLD,
50 MICRO-INCHES MIN. IN CONTACT AREA,
2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.
3. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
4. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS,
5. THE PRODUCT IS RoHS COMPLIANT.
RoHS UL RECOGNIZED - FILE #E474585.
6. THE PRODUCT IS RECOMMENDED FOR WAVE SOLDERING PROCESS,
PEAK TEMPERATURE 260°C MAX. AND 10 SECONDS MAX.,.



ORIGINATED BY ANTON LIAO		TITLE MagJack® 10/100/1000 BT TAB UP, SHIELDED PATENTED		PART NO. / DRAWING NO. SI-51005-F		STANDARD DIM. TOL. IN INCH X XX XXX		[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4		REV. : A3	PAGE : 3
DATE 2018-05-22		DRAWN BY SANDY LIN		FILE NAME SI-51005-F_A3.DWG		X XX XXX		X XX XXX		 bel MAGNETIC SOLUTIONS a bel group	
DATE 2018-05-22											

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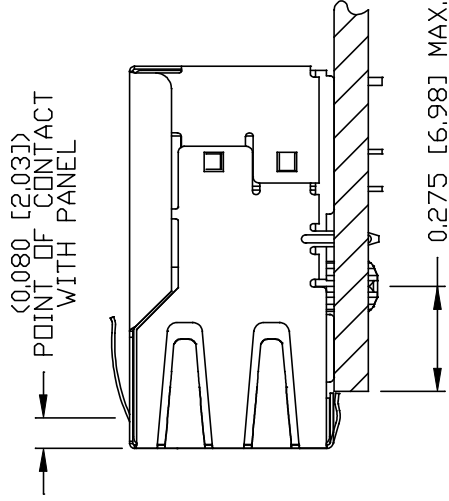
RoHS

0.000 [0.00] (FROM TOP OF PCB TO BOTTOM OF PANEL OPENING)

0.656 [16.66]

0.554 [14.07]

0.010 [0.25] MAX.
RADIUS (4)



NOTES:

THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY.

SUGGESTED PANEL OPENING



REV. : A3		PAGE : 5			
ORIGINATED BY ANTON LIAO DATE 2018-05-22 DRAWN BY SANDY LIN DATE 2018-05-22		TITLE MagJack® 10/100/1000 BT TAB UP, SHIELDED PATENTED		PART NO. / DRAWING NO. SI-51005-F	
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