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Product Specification No.

SI-51005-F

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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.

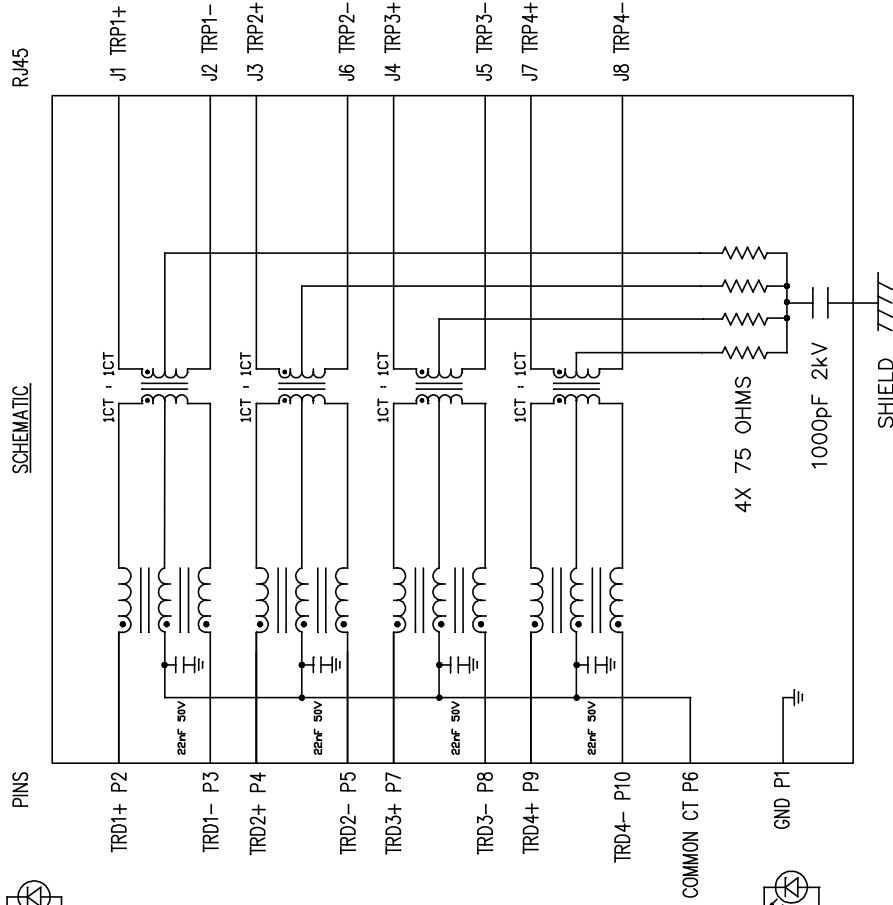
8.0 VOLTAGE WITHSTAND:

(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



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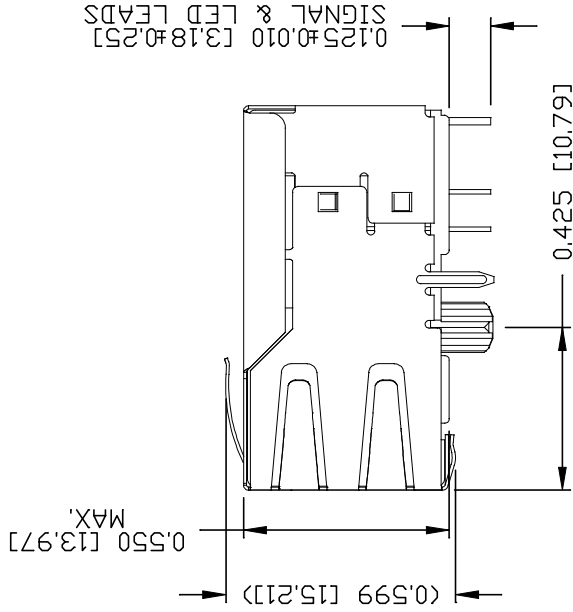
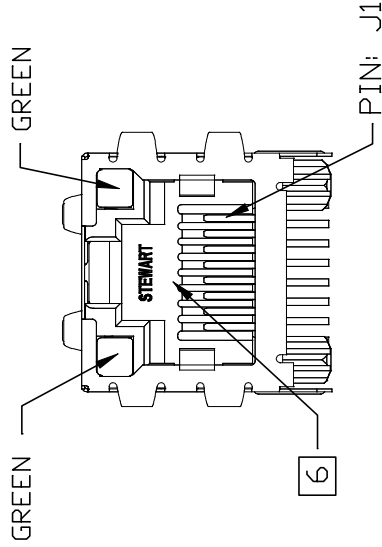
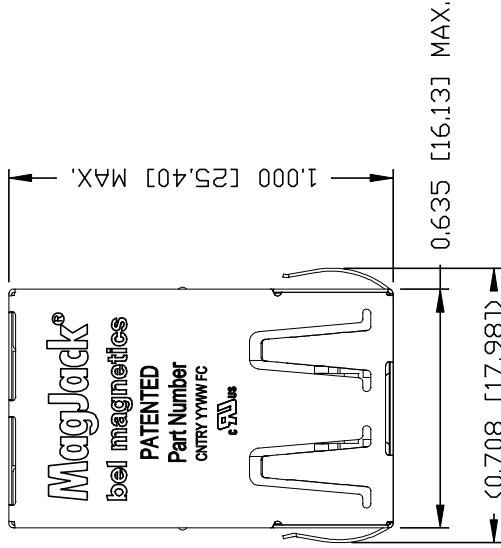
DC002(2)120214

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RoHS

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
DATE 2018-05-22	
DRAWN BY SANDY LIN	
DATE 2018-05-22	

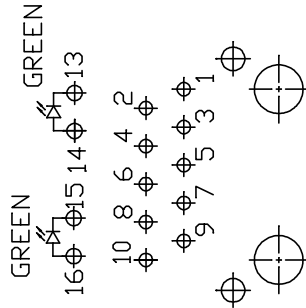
PART NO. / DRAWING NO. SI-51005-F	STANDARD DIM. TOL. IN INCH X XX XXX	[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4
FILE NAME SI-51005-F_A3.DWG		



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LED SPECIFICATION			
LED COLOR	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	565 nm	2.5 V	2.2 V

*WITH A FORWARD CURRENT OF 20 mA (TYP)



PIN-OUT INFORMATION
(SEEN FROM COMPONENT SIDE)

bel
Product Specification No.
SI-51005-F
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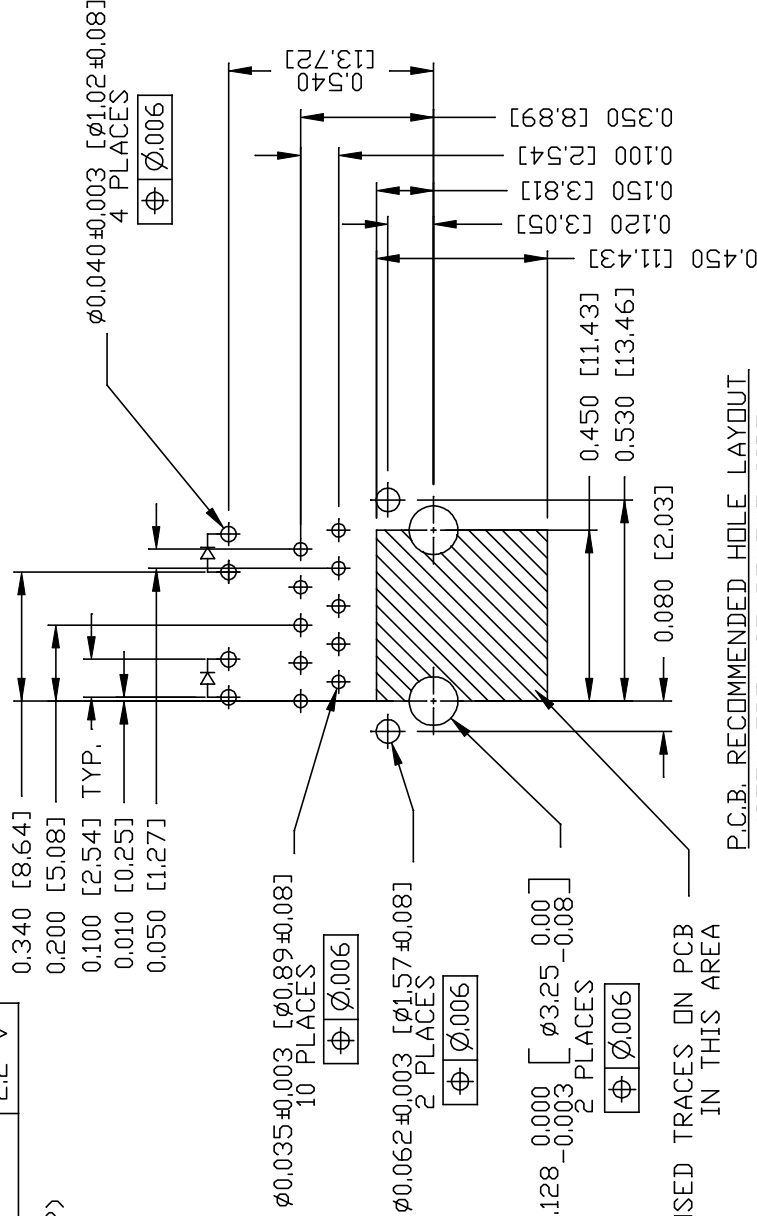
RoHS

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Product Specification No.

SI-51005-F

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NO EXPOSED TRACES ON PCB
IN THIS AREA

P.C.B. RECOMMENDED HOLE LAYOUT
(SEEN FROM COMPONENT SIDE)

ALL CENTERLINE DIMENSIONS ARE BASIC

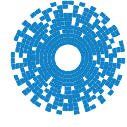
ORIGINATED BY
ANTON LIAD
DATE 2018-05-22
DRAWN BY
SANDY LIN
DATE 2018-05-22

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

PART NO. / DRAWING NO.
SI-51005-F
FILE NAME
SI-51005-F_A3.DWG

STANDARD DIM.
TOL. IN INCH
.X
.XX
.XXX
±0.005
[] METRIC DIM.
AS REF.
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

REV. : A3 PAGE : 4



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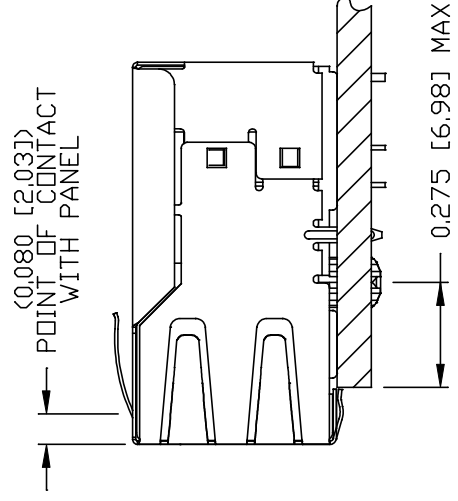
RoHS

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)



SUGGESTED PANEL OPENING

NOTES:

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

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Product Specification No.
SI-51005-F
Issue A3 Page 6

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		[] METRIC DIM. AS REF.		REV. : A3		PAGE : 5	
DATE 2018-05-22				FILE NAME SI-51005-F_A3.DWG		.X		UNIT : INCH [mm]					
DRAWN BY SANDY LIN						.XX		SCALE : N/A					
DATE 2018-05-22						.XXX		⌀.005		⌀		SIZE : A4	
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