

1.0 TURNS RATIO:

1CT : 1CT ±2%
1CT : 1CT ±2%

1CT : 1CT $\pm 2\%$

2.0 DC RESISTANCE: (P1-P3):(P4-P5)
(J1-J2):(J3-J6)

1.4 OHMS
1.2 OHMS

1.2 OHMS

3.0 INDUCTANCE:

350uH MIN. @ 0.1V, 100KHZ, 8mA DC BIAS
350uH MIN. @ 0.1V, 100KHZ, 8mA DC BIAS

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:

60pF TYP @ 1MHz
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:

1500Vrms
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 MAX3.0113 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

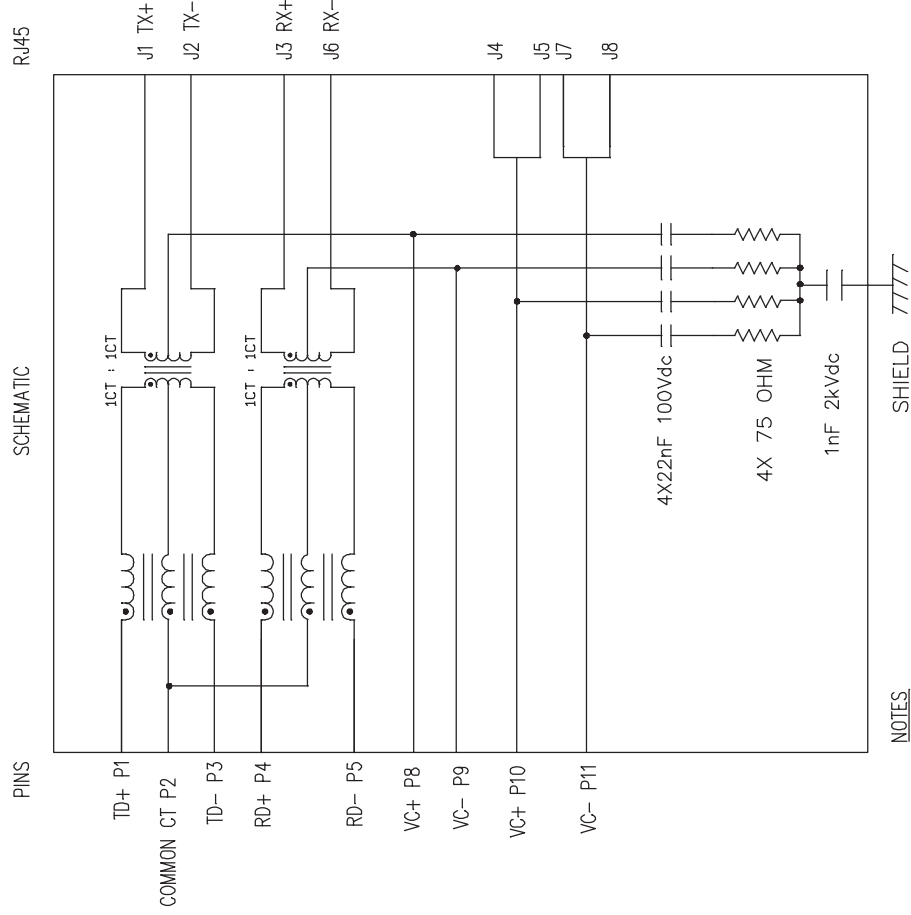
12.0 BALANCED DC LINE CURRENT:

350mA MAX. CONTINUOUS
500mA MAX. FOR 200 MILLISECONDS

13.0 OPERATING TEMPERATURE: 0°C to +70°C

NOTES

10 DESIGNED TO SUPPORT IFF 802.3

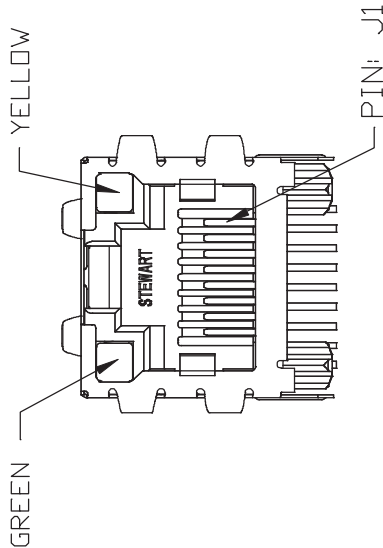
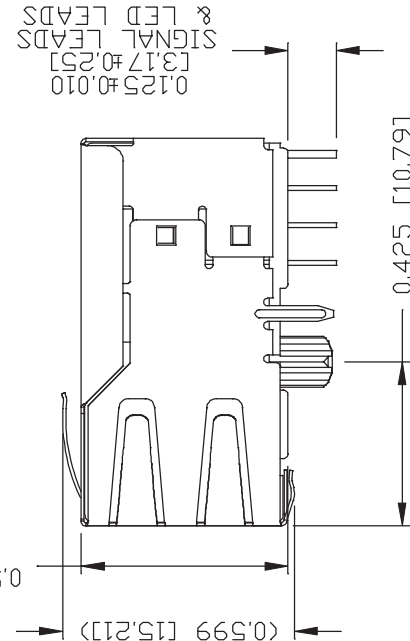
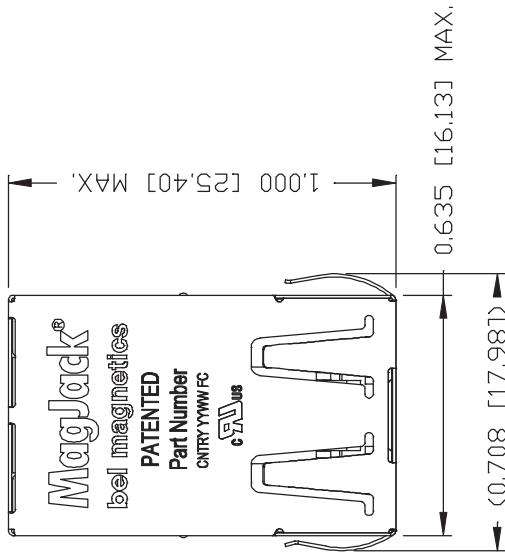


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NOTES:

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,
SEE ELECTRICAL DRAWING FOR OMITTED PINS,
3. TOLERANCES COMPLY WITH TIA-1096 DIMENSION REQUIREMENTS,
4. THE PRODUCT IS RoHS COMPLIANT.
RoHS UL RECOGNIZED - FILE #E474585,
5. THE PART IS RECOMMENDED FOR WAVE SOLDERING,
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX
AND 10 SECONDS MAX.
6. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 7,123,117



ORIGINATED BY ANTON LIAO DATE 2022-04-20 DRAWN BY SANDY LIN DATE 2022-04-20	TITLE MagJack® 10/100 BT, PoE TAB UP, SHIELDED PATENTED		PART NO. / DRAWING NO. SI-52008-F		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
	FILE NAME SI-52008-F_C.DWG		.X .XX .XXX		UNIT : INCH [mm] SCALE : N/A		SIZE : A4	



ORIGINATED BY ANTON LIAO	TITLE MagJack® 10/100 BT, PoE TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-52008-F	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
DATE 2022-04-20				
DRAWN BY SANDY LIN DATE 2022-04-20				
		FILE NAME SI-52008-F_C.DWG	.X .XX .XXX	UNIT : INCH [mm] SCALE : N/A  SIZE : A4

GRN YEL

11 ϕ 8 ϕ + ϕ 4 ϕ 2

10 ϕ 5 ϕ + ϕ 3 ϕ 1

0.340 [8,64]

0.250 [6,35]

0.100 [2,54] TYP.

0.010 [0,25]

0.050 [1,27]

0.035 $\pm$ 0,003 [ϕ 0,89 $\pm$ 0,08] 9 PLACES ϕ ϕ 0,006

0.050 [1,27]

0.040 $\pm$ 0,003 [ϕ 1,02 $\pm$ 0,08] 4 PLACES ϕ ϕ 0,006

0.540 [13,72]

0.120 [3,05]

0.150 [3,81]

0.450 [11,43]

0.100 [2,54]

0.250 [6,35]

0.450 [11,43]

0.080 [2,03]

0.530 [13,46]

0.450 [11,43]

0.062 $\pm$ 0,003 [ϕ 1,57 $\pm$ 0,08] 2 PLACES ϕ ϕ 0,006

0.128 $\begin{smallmatrix} 0,000 \\ -0,003 \end{smallmatrix}$ [ϕ 3,25 $\begin{smallmatrix} 0,00 \\ -0,08 \end{smallmatrix}$] 2 PLACES ϕ ϕ 0,006

NO EXPOSED TRACES ON PCB IN THIS AREA

P.C.B. RECOMMENDED HOLE LAYOUT

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

ALL CENTERLINE DIMENSIONS ARE BASIC

REV. : C	PAGE : 4
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ETJII

DATE 2022-04-20

DRAWN BY

DATE 2022-04-20

Modulock®

10/100 BT PoE

TAB UP, SHIELDED

PATENTED

PART NO. / DRAWING NO.

SI-5208-F

FILE NAME

SI-52008-F C.DWG

STANDARD DIM.	[] METRIC DIM.
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99	99
100	100

AS REF.

UNIT : INCH [mm]

SCALE : N/A



SIZE : A4

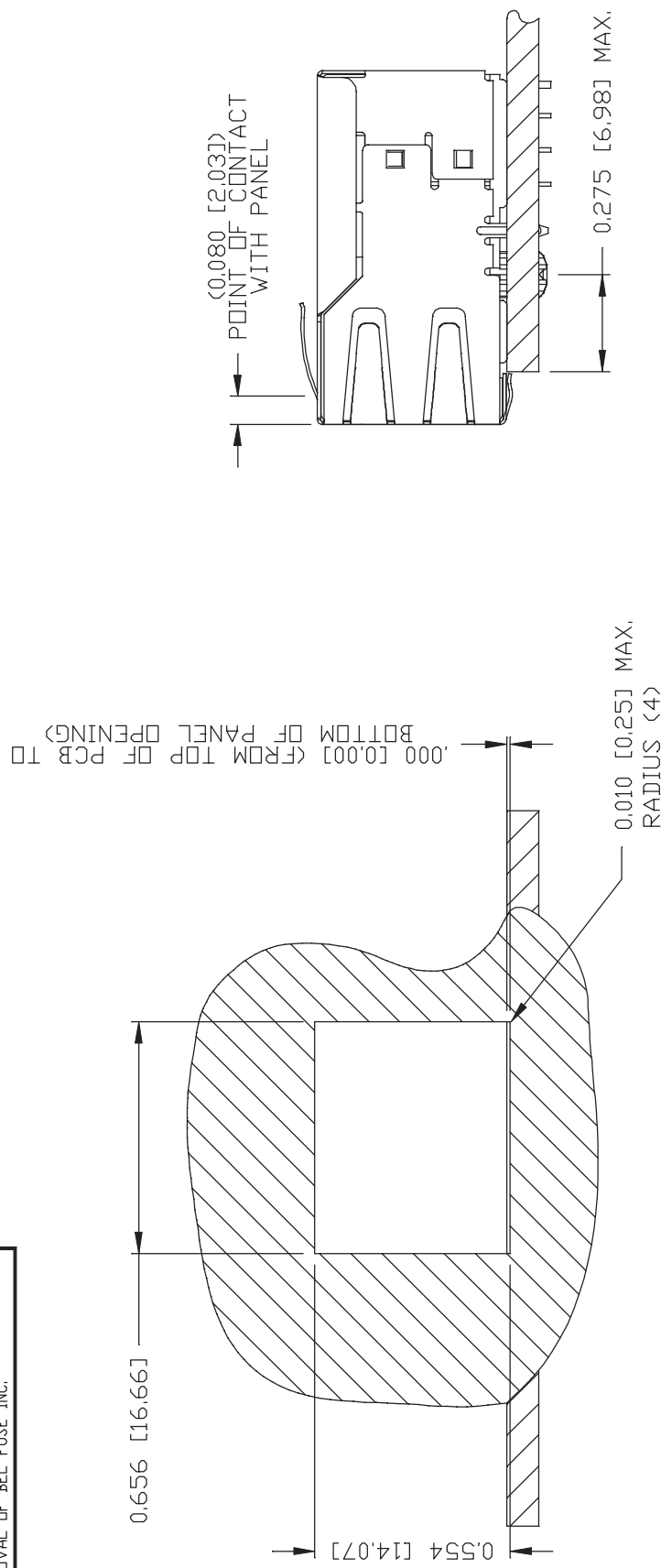
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Additional Resources: [Product Page](#) [PCB Footprint](#) [Technical Documentation](#)



NOTES:

SUGGESTED PANEL OPENING

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

ORIGINATED BY ANTON LIAO	DATE 2022-04-20	DRAWN BY SANDY LIN	DATE 2022-04-20	TITLE MagJack® 10/100 BT, PoE TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-52008-F	FILE NAME SI-52008-F_C.DWG	STANDARD DIM. TOL. IN INCH .X .XX .XXX	[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A	REV. : C	PAGE : 5	 a bel group

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