

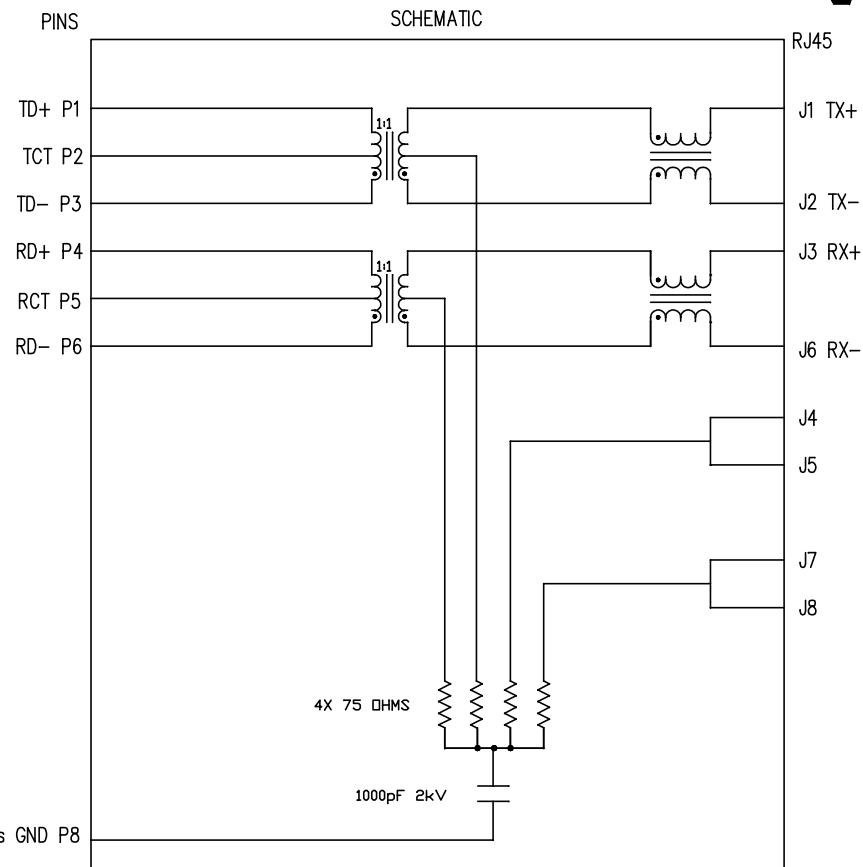
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### ELECTRICAL CHARACTERISTICS @ 25°C

- 1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6) : 1CT : 1CT ± 3%  
(P3-P2-P1) : (J2-J1) : 1CT : 1CT ± 3%
- 2.0 INDUCTANCE: (P4-P6) : 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) : 1.35 ohms Max.
- 6.0 RETURN LOSS:(P4-P6)=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 (J3-J6).
- 7.0 DIELECTRIC 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: 1-100 MHz : 40 dB TYP
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 35dB TYP



NOTES: 1.0 UNUSED PIN P7 IS OMITTED.

ORIGINATED BY CHOW WANCHUNG DATE 2018-01-31		TITLE 10/100BT MagJack® TAB UP, SHIELDED	PART NO. / DRAWING NO. SI-50170-F		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.		REV. : B	PAGE : 2
DRAWN BY XIE YIMING DATE 2018-01-31			FILE NAME SI-50170-F_B.DWG		.X		UNIT : INCH [mm]		 a bel group	
				.XX		SCALE : N/A				
				.XXX		SIZE : A4				

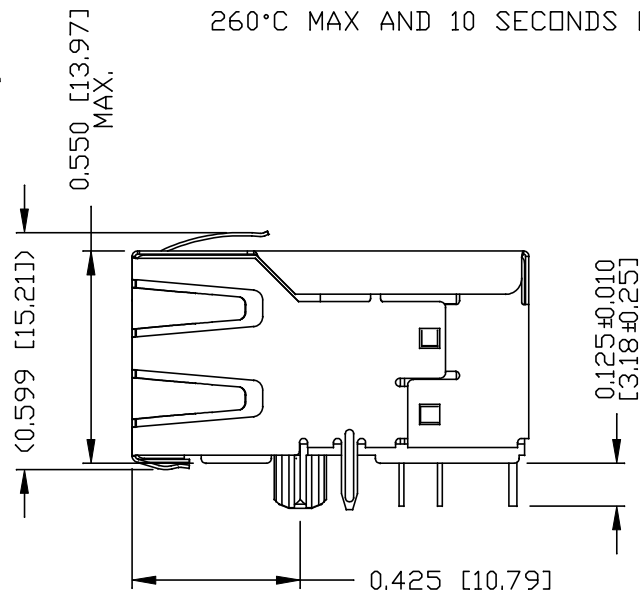
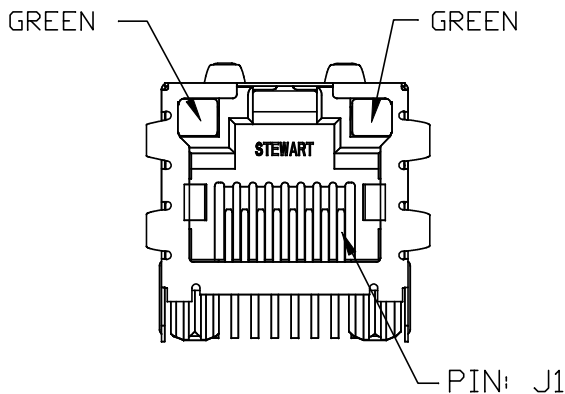
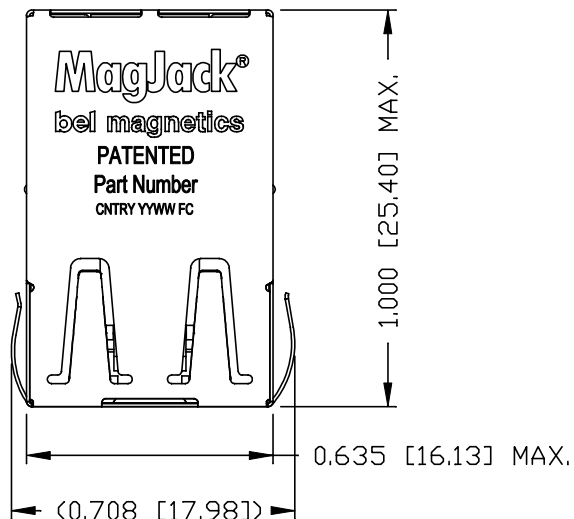
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NOTES:

- CONNECTOR MATERIALS:  
 HOUSING: THERMOPLASTIC UL94 V-0  
 CONTACT/SHIELD: COPPER ALLOY  
 SHIELD PLATING: NICKEL OR TIN  
 CONTACT PLATING: 50 MICRO-INCH SELECTIVE HARD GOLD PLATING OR EQUIVALENT IN CONTACT AREA
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.  
 SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE  $\pm 0.005$  [0.13]
- THE PRODUCT IS RoHS COMPLIANT.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING.  
 THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.



ORIGINATED BY  
ANTON LIAO  
DATE 2018-01-31  
DRAWN BY  
LIU DONGJUN  
DATE 2018-01-31

TITLE  
10/100BT MagJack®  
TAB UP, SHIELDED

PART NO. / DRAWING NO.  
SI-50170-F  
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STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.
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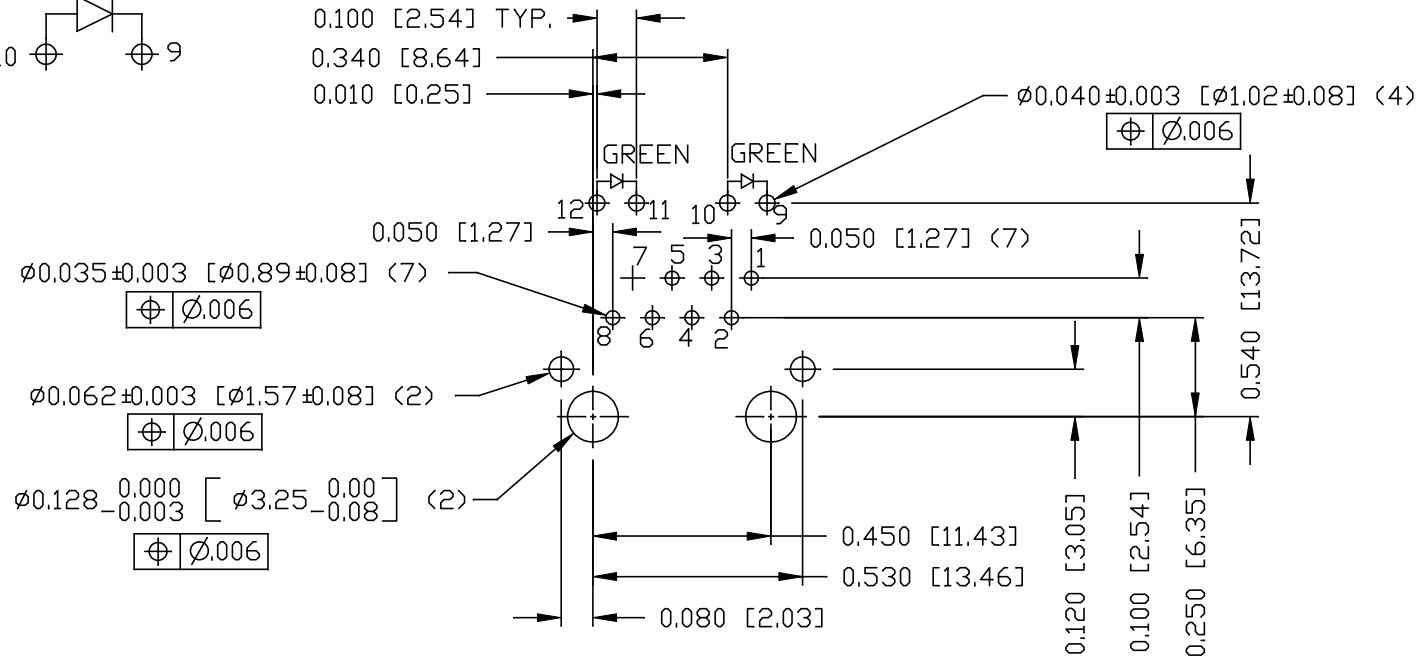
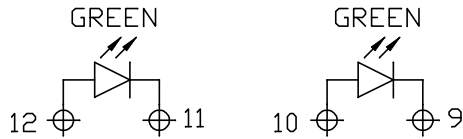
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LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	* (TYP)
GREEN	565 nm	2.5 V	2.2 V

\*WITH A FORWARD CURRENT OF 20 mA (TYP)

LED POLARITY



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

ALL CENTERLINE DIMENSIONS ARE BASIC

REV. : B PAGE : 4

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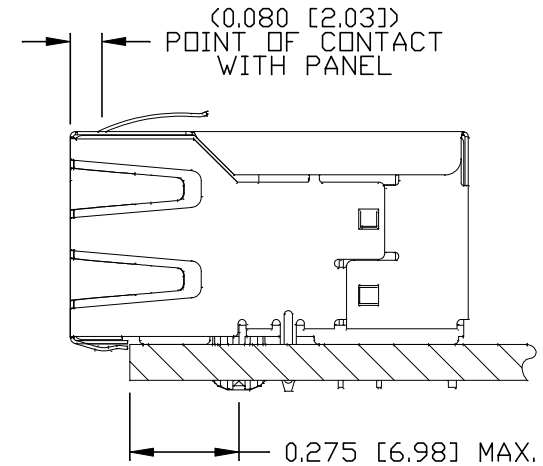
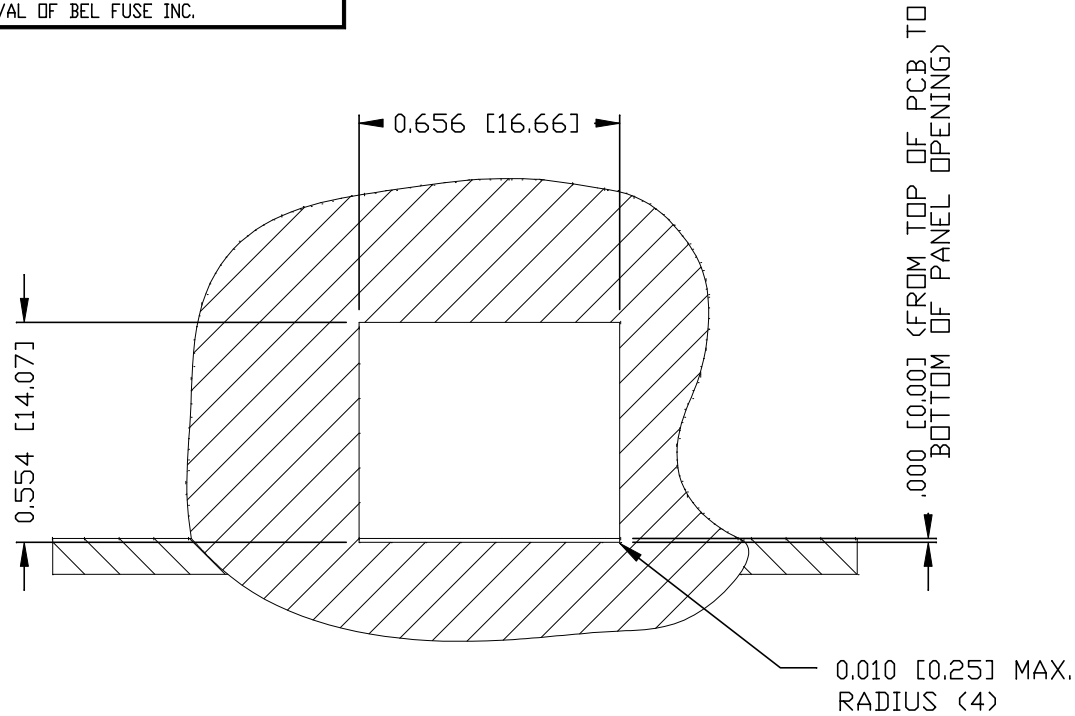
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SUGGESTED PANEL OPENING

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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SI-50170-F\_B.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

±0.005

[ ] METRIC DIM.  
AS REF.

UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : B

PAGE : 5



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