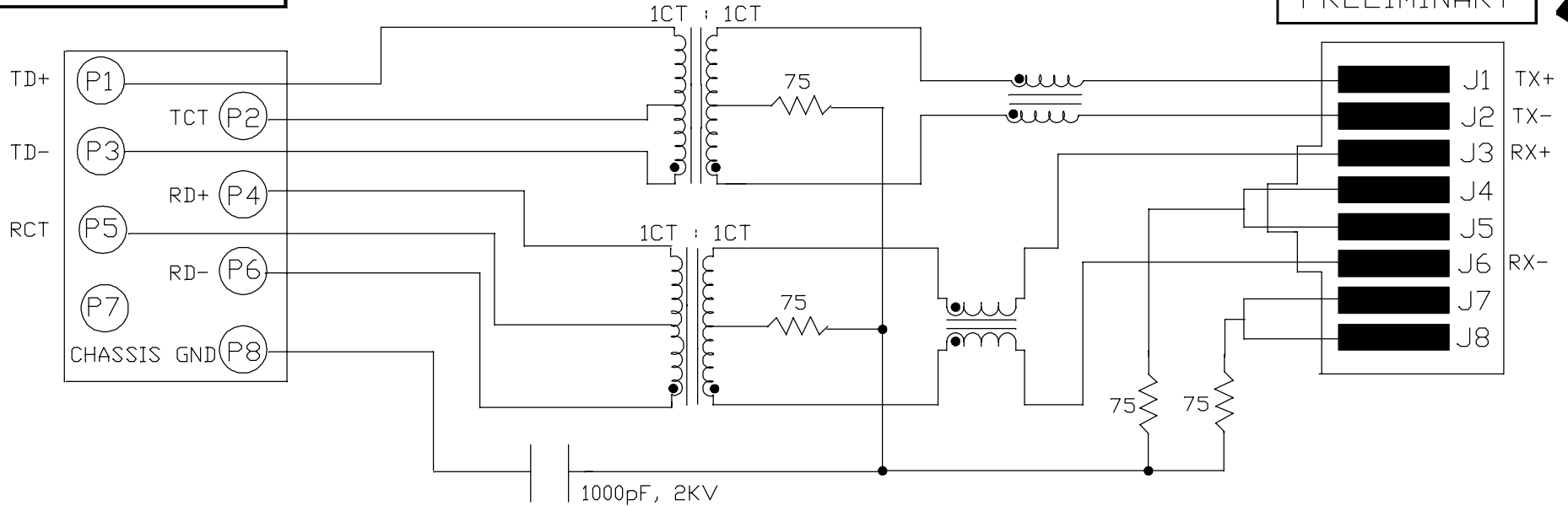


THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS



PRELIMINARY



ELECTRICAL SPECIFICATIONS:

- |     |                                                  |                                          |
|-----|--------------------------------------------------|------------------------------------------|
| 1.0 | Turns Ratio: (P4-P5-P6) : (J3-J6)                | : 1CT : 1CT ± 3%                         |
|     | (P3-P2-P1) : (J1-J2)                             | : 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) | : 0.3 MAX. @ 1MHz                        |
|     | P3-P1 (with J2 and J1 short)                     | : 0.3 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.                         |

NOTES:

1.0 COMPLIES WITH THE EUROPEAN DIRECTIVE 2002/95/EC, CALLING FOR THE ELIMINATION OF LEAD AND OTHER HAZARDOUS SUBSTANCES FROM ELECTRONIC PRODUCTS.

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2020-11-16

TITLE

10/100 BT MagJack®  
TAB UP, SHIELDED

DRAWN BY  
XIE YIMING  
DATE 2020-11-16

PART NO. / DRAWING NO.

SI-80025-F

FILE NAME

SI-80025-F\_1.DWG

STANDARD DIM.  
TOL. IN INCH

.X

.XX

.XXX

[ ] METRIC DIM.  
AS REF.

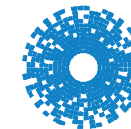
UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

REV. : 1

PAGE : 2



**bel** MAGNETIC SOLUTIONS  
a bel group

THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

PRELIMINARY



- 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 VAC  
     (J3, J6) TO (P4, P6) : 1500 VAC
- 8.0 INSERTION LOSS: RS=RL=100 ohms : 1.1 dB MAX  
     100KHz TO 100MHz
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS : 3.0 nS MAX  
     OUTPUT VOLTAGE = 1 V peak : 3.0 nS MAX  
     PULSE WIDTH= 112nS
- 10.0 CROSS TALK: 1-100 MHz : 33 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz : 33dB MIN
- 12.0 OPERATING TEMPERATURE RANGE: 0°C TO +70°C

REV. : 1 PAGE : 3

ORIGINATED BY  
CHOW WANCHUNG  
DATE 2020-11-16  
DRAWN BY  
XIE YIMING  
DATE 2020-11-16

TITLE  
10/100 BT MagJack®  
TAB UP, SHIELDED

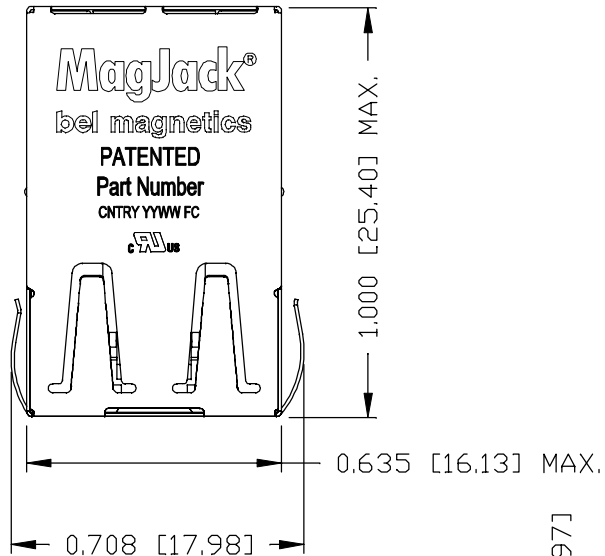
PART NO. / DRAWING NO.  
SI-80025-F  
FILE NAME  
SI-80025-F\_1.DWG

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



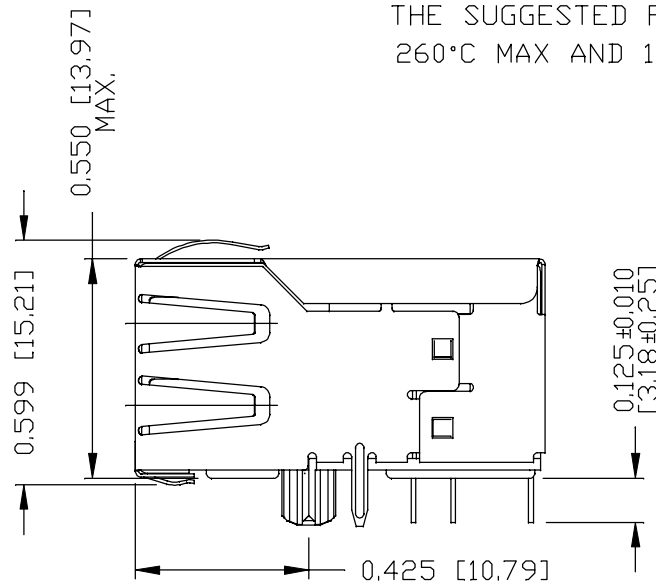
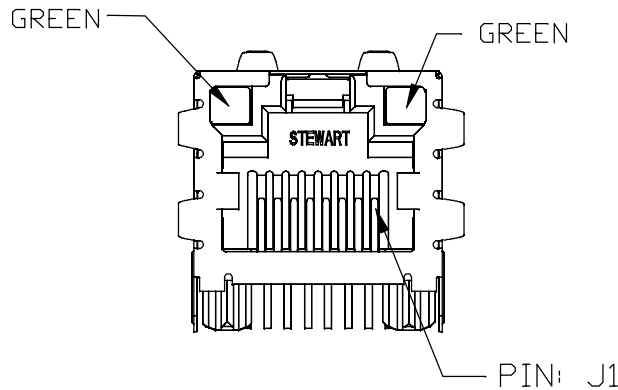
THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

PRELIMINARY



NOTES:

- CONNECTOR MATERIALS:  
 HOUSING: THERMOPLASTIC UL94 V-0  
 CONTACT/SHIELD: COPPER ALLOY  
 SHIELD PLATING: NICKEL OR TIN  
 CONTACT PLATING: 15 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.
- THE PRODUCT IS RoHS COMPLIANT.  
 cULus UL RECOGNIZED - FILE #E474585.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.



ORIGINATED BY  
SANDY LIN  
DATE 2020-11-16  
DRAWN BY  
RUAN WENJUN  
DATE 2020-11-16

TITLE  
10/100 BT MagJack®  
TAB UP, SHIELDED

PART NO. / DRAWING NO.  
SI-80025-F  
FILE NAME  
SI-80025-F\_1.DWG

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

REV. : 1 PAGE : 4



THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS

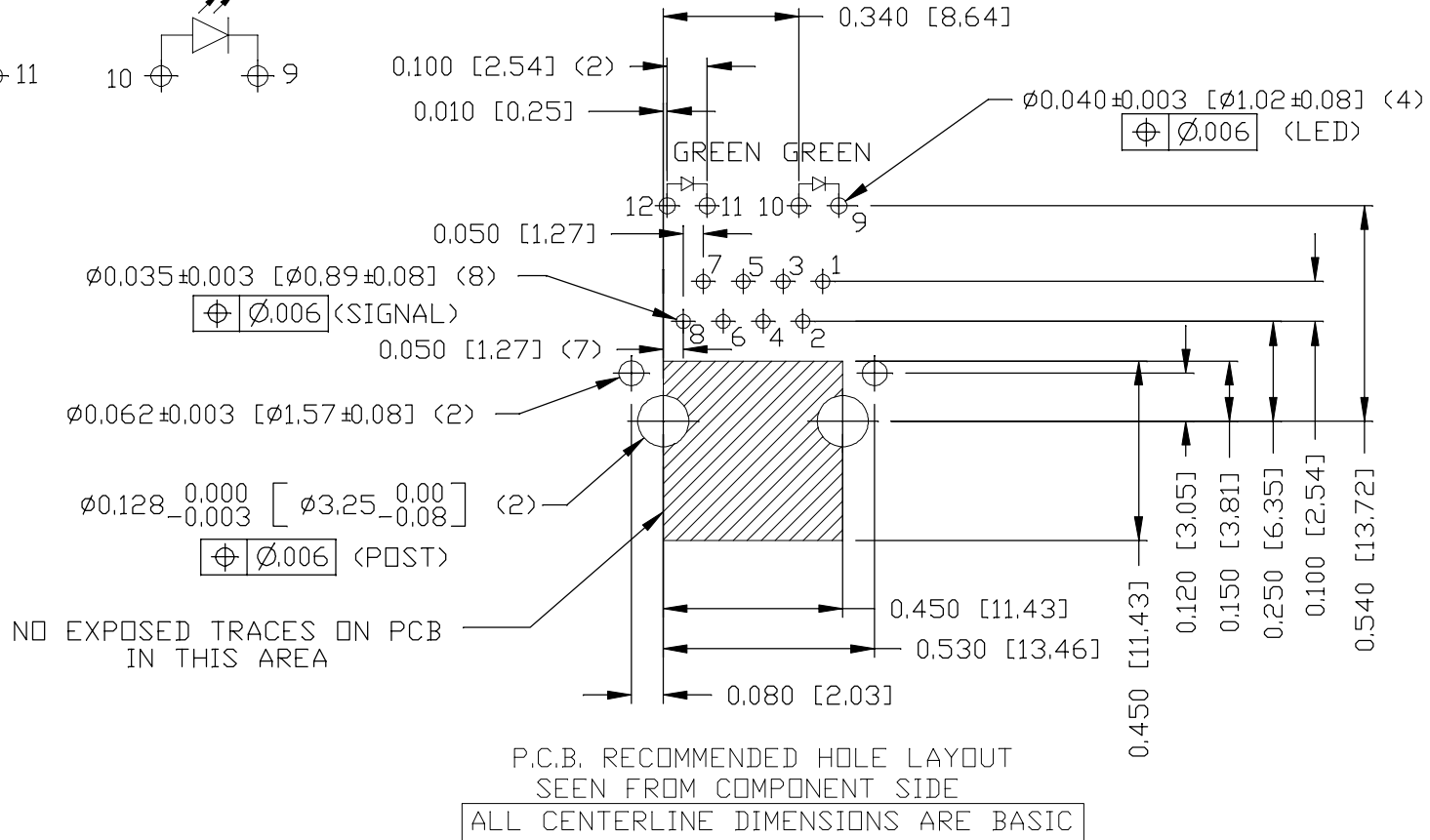
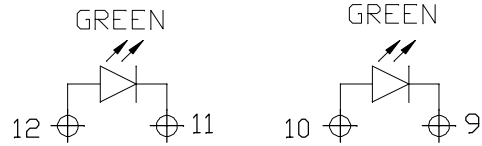


PRELIMINARY

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	*(TYP)
GREEN	570 nm	2.5 V	2.2 V

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

LED POLARITY



REV. : 1 PAGE : 5

ORIGINATED BY  
SANDY LIN  
DATE 2020-11-16  
DRAWN BY  
RUAN WENJUN  
DATE 2020-11-16

TITLE  
10/100 BT MagJack®  
TAB UP, SHIELDED

PART NO. / DRAWING NO.  
SI-80025-F  
FILE NAME  
SI-80025-F\_1.DWG

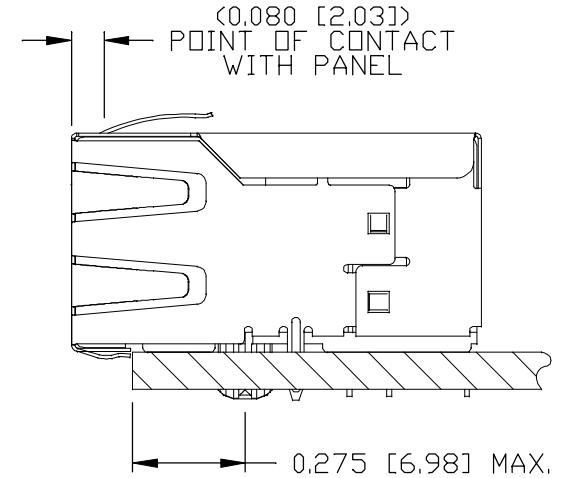
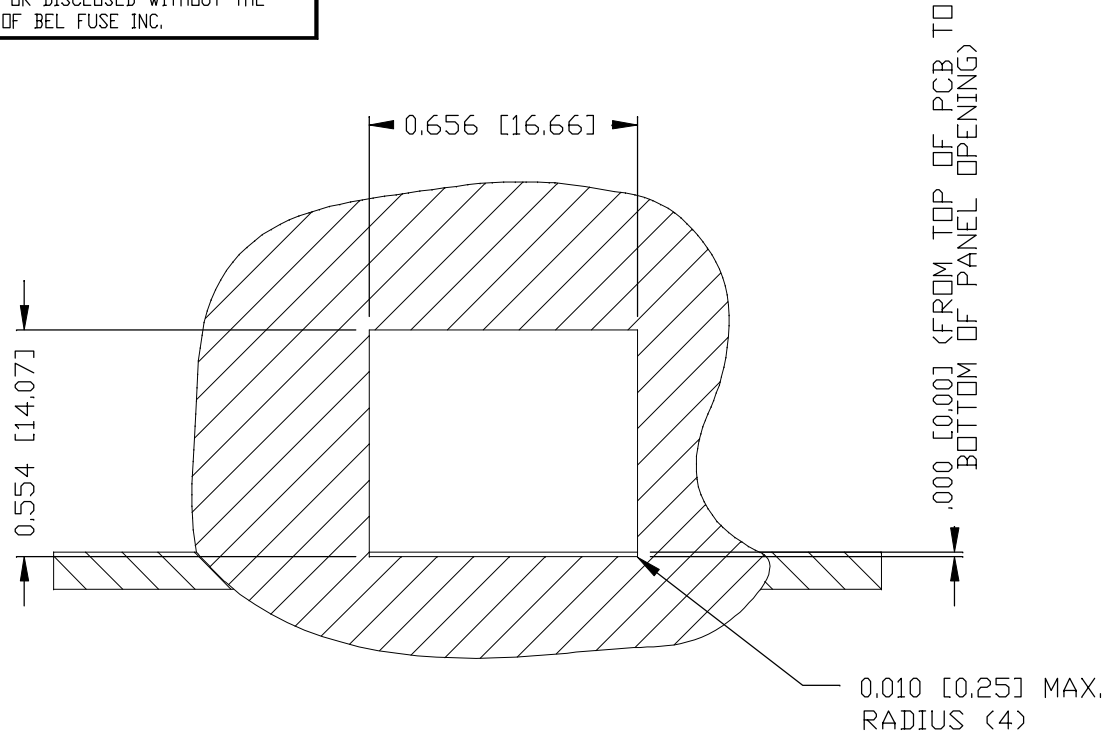
STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX ±0.005	SIZE : A4



THE INFORMATION CONTAINED HEREIN IS CONSIDERED 'PROPRIETARY' TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



PRELIMINARY



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.

ORIGINATED BY  
SANDY LIN  
DATE 2020-11-16  
DRAWN BY  
RUAN WENJUN  
DATE 2020-11-16

TITLE  
10/100 BT MagJack®  
TAB UP, SHIELDED

PART NO. / DRAWING NO.  
SI-80025-F  
FILE NAME  
SI-80025-F\_1.DWG

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

REV. : 1 PAGE : 6

