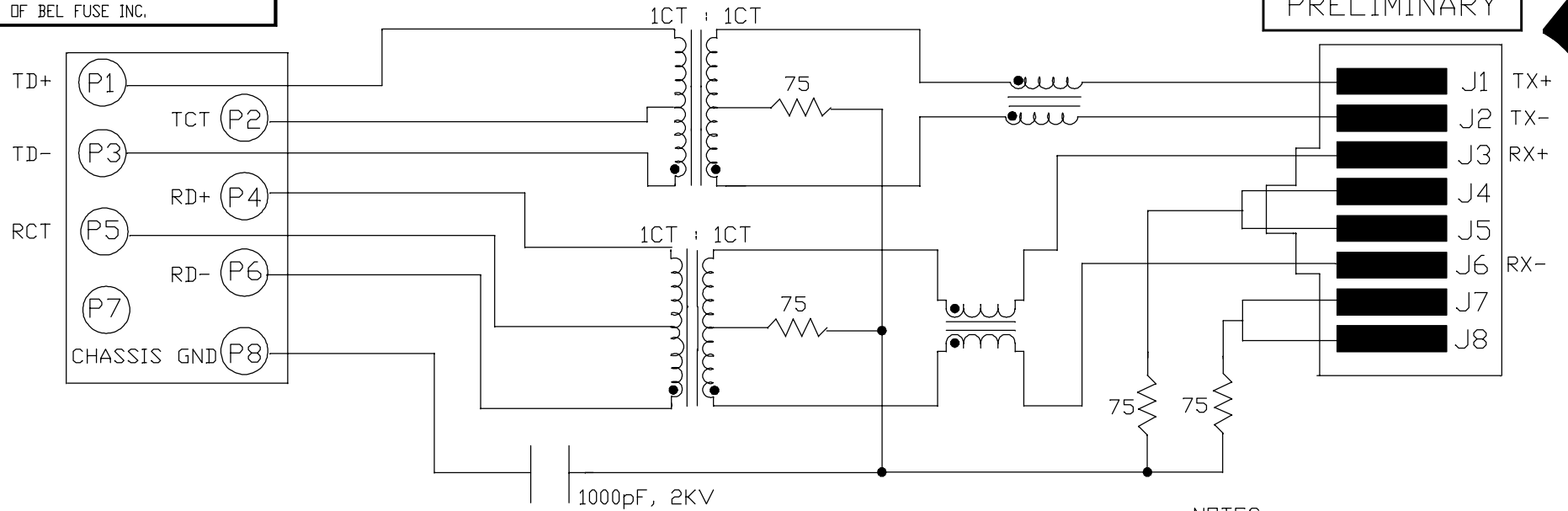


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RoHS



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  
MagJack®  
10/100 BT  
TAB UP, SHIELDED  
PATENTED

DRAWN BY  
XIE YIMING  
DATE 2020-11-16

PART NO. / DRAWING NO.  
SI-80008-F

FILE NAME  
SI-80008-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 : 2



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- 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 : 33 dB MIN
- 12.0 OPERATING TEMPERATURE RANGE: 0°C TO 70°C

REV. : 1 PAGE : 3

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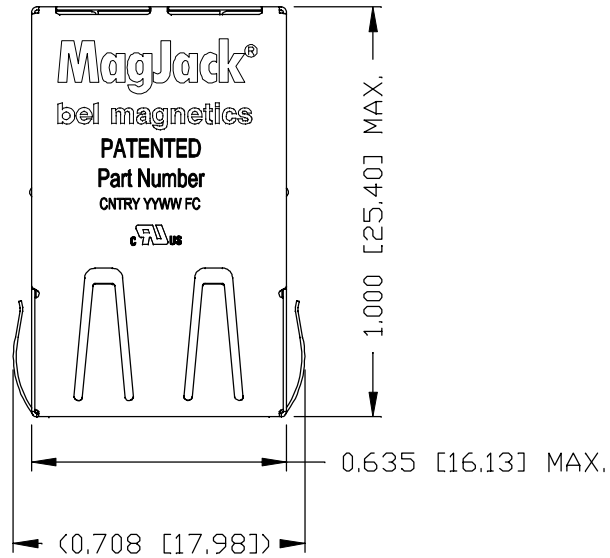
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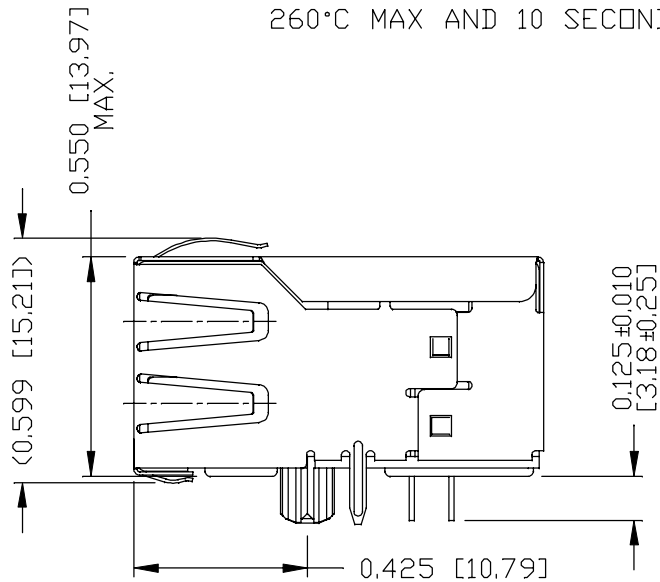
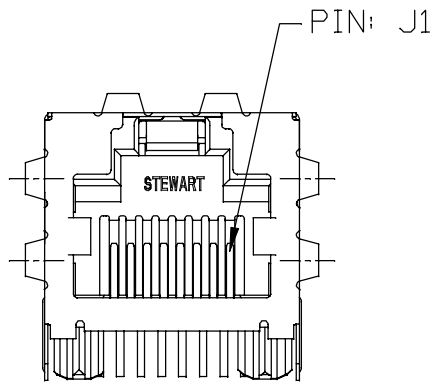
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NOTES:

- CONNECTOR MATERIALS:  
HOUSING: THERMOPLASTIC UL94 V-0  
CONTACT/SHIELD: COPPER ALLOY  
SHIELD PLATING: NICKEL OR TIN  
CONTACT PLATING: SELECTIVE GOLD 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,  
UL US 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  
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DRAWN BY  
RUAN WENJUN  
DATE 2020-11-16

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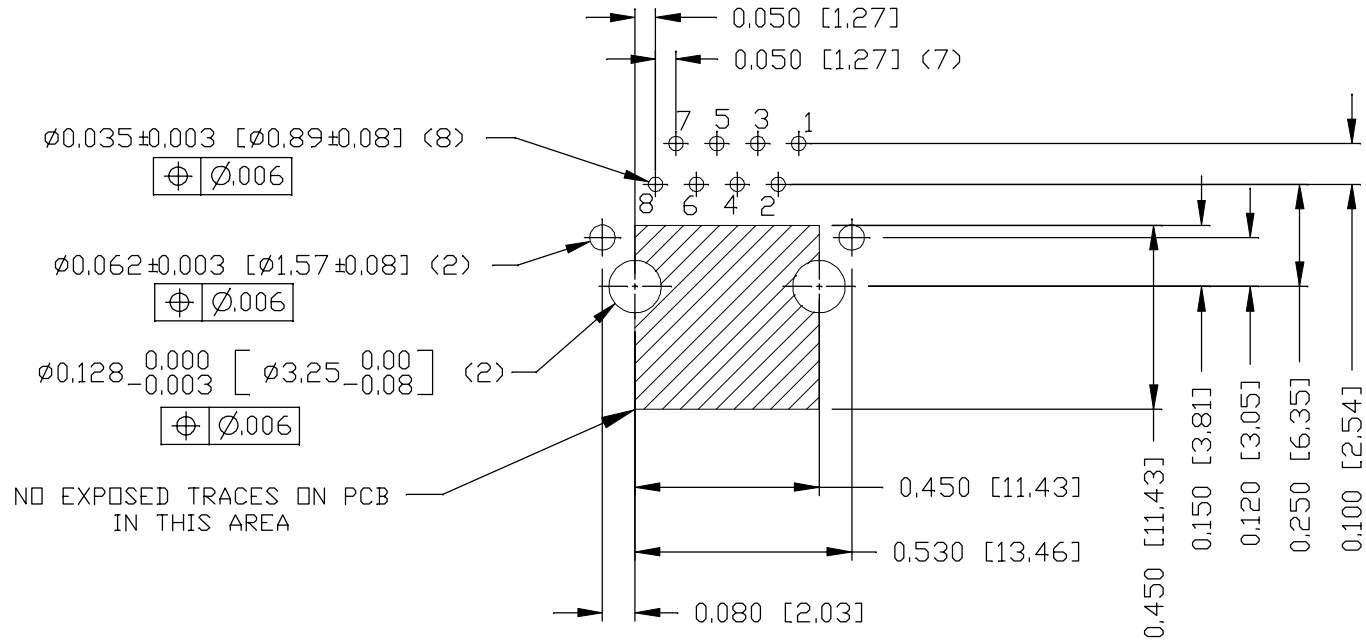
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PRELIMINARY



P.C.B. RECOMMENDED HOLE LAYOUT  
 SEEN FROM COMPONENT SIDE  
 ALL CENTERLINE DIMENSIONS ARE BASIC

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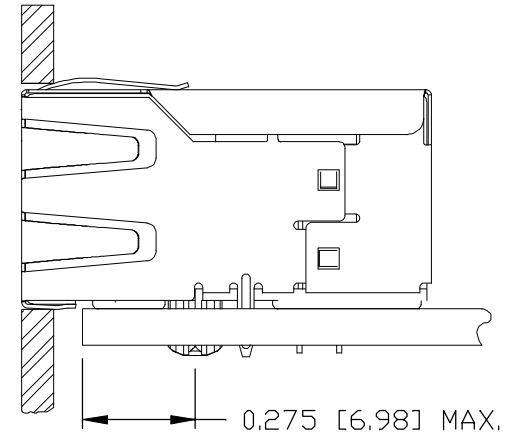
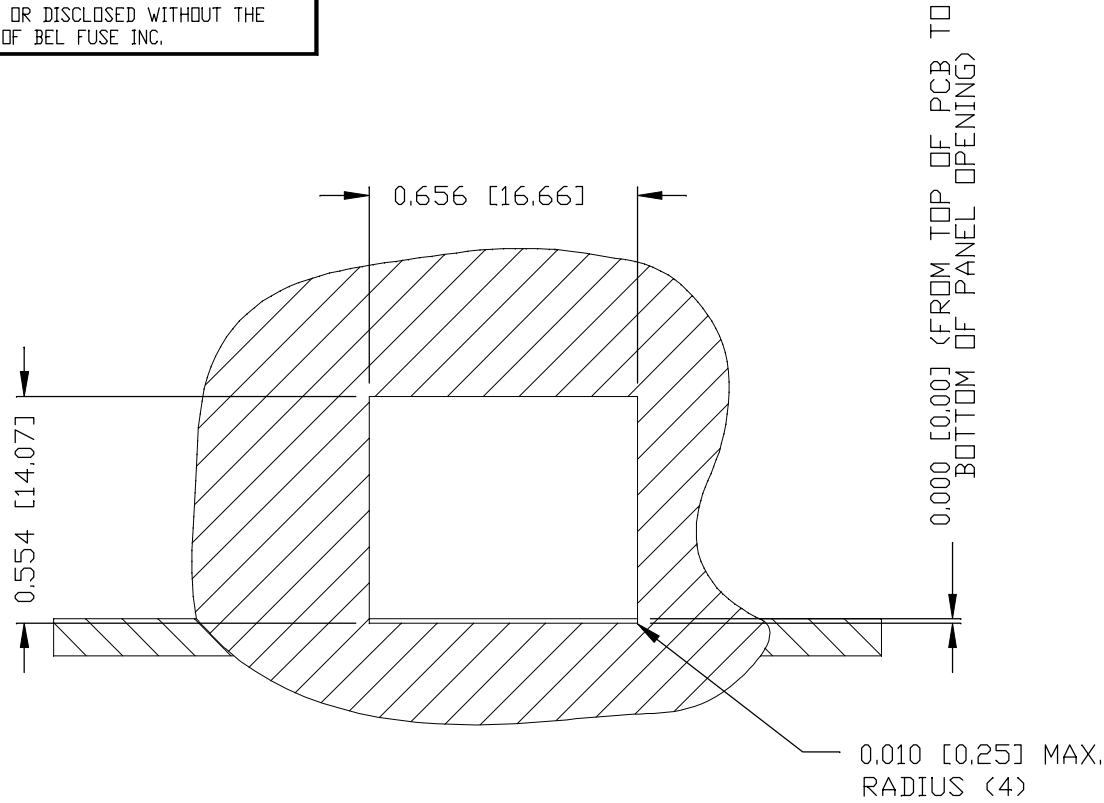
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PRELIMINARY



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.

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