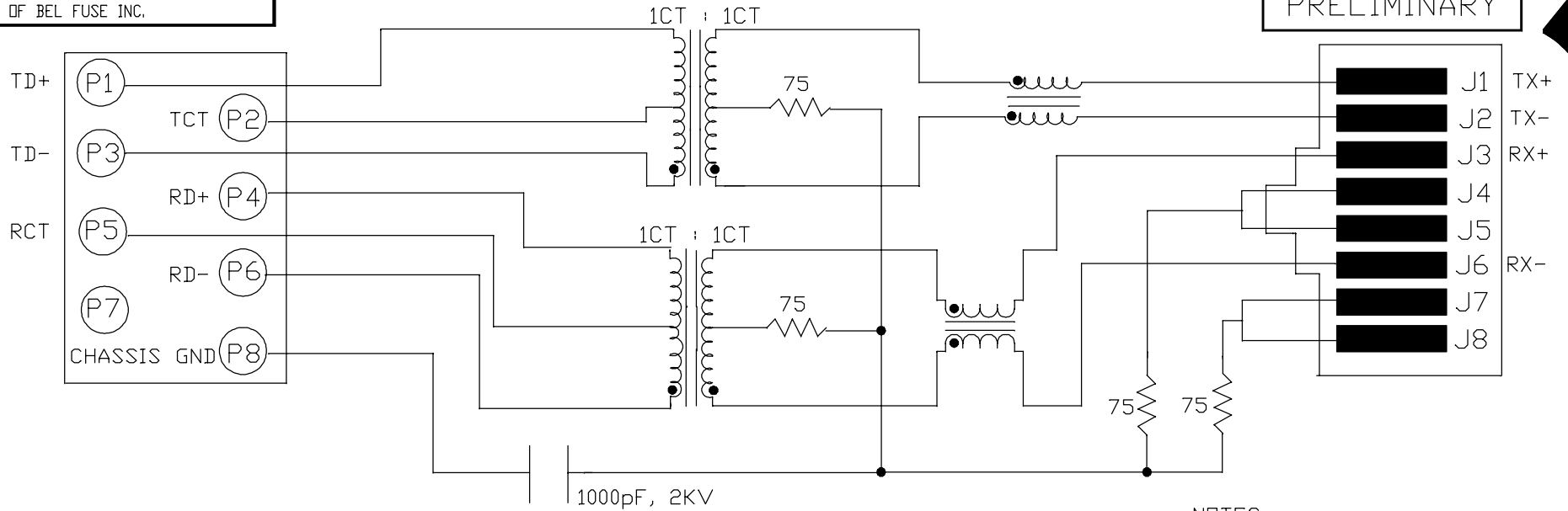


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RoHS



PRELIMINARY



ELECTRICAL SPECIFICATIONS:

- | | | |
|-----|--|--|
| 1.0 | URNS 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

DRAWN BY
XIE YIMING
DATE 2020-11-16

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

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: $\langle P4-P6 \rangle = 100 \text{ OHMS}$ AND $\langle P1-P3 \rangle = 100 \text{ OHM REF.}$
 1MHz TO 30MHz : 18dB MIN.
 60MHz TO 80MHz : 12dB MIN.
 NOTE: 100 OHMS CONNECTED TO $\langle J2-J1 \rangle$ OR $\langle J3-J6 \rangle$.
- 7.0 DIELECTRIC WITHSTAND: $\langle J1, J2 \rangle$ TO $\langle P1, P3 \rangle$: 1500 VAC
 $\langle J3, J6 \rangle$ TO $\langle P4, P6 \rangle$: 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

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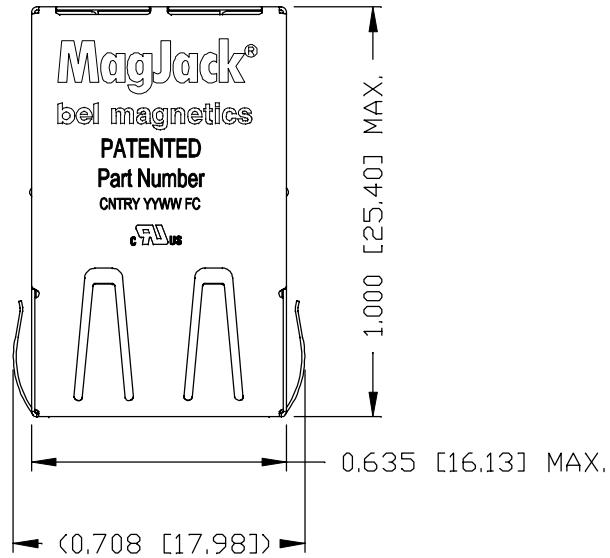
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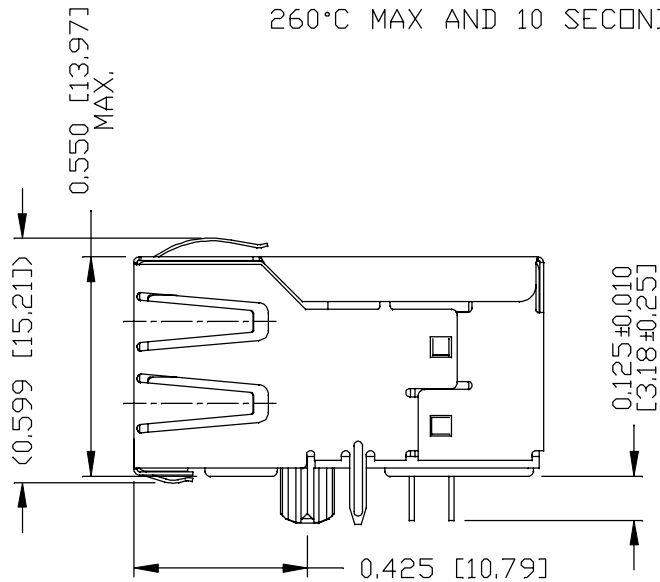
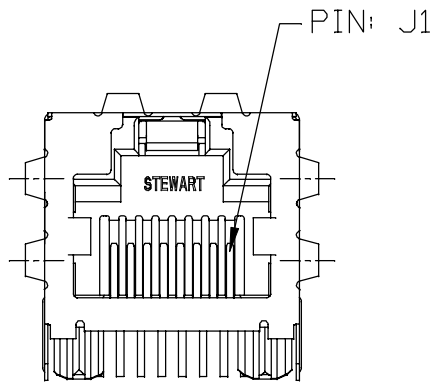
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NOTES:

- 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 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

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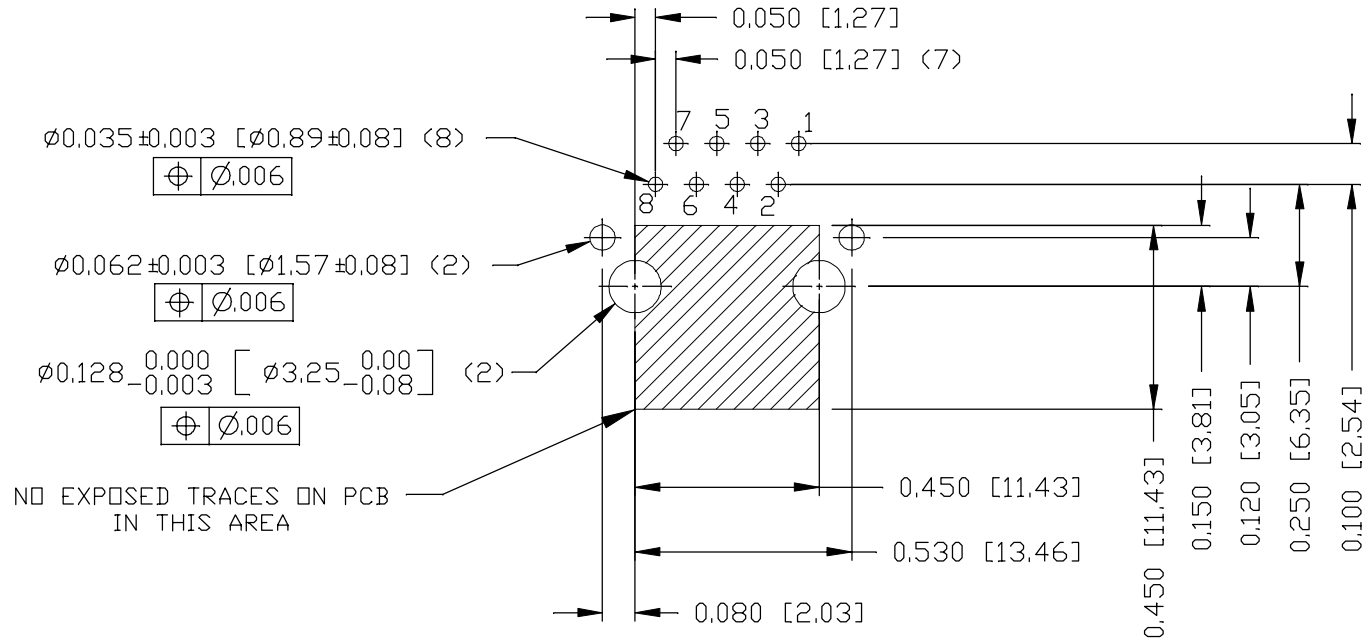
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PRELIMINARY



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

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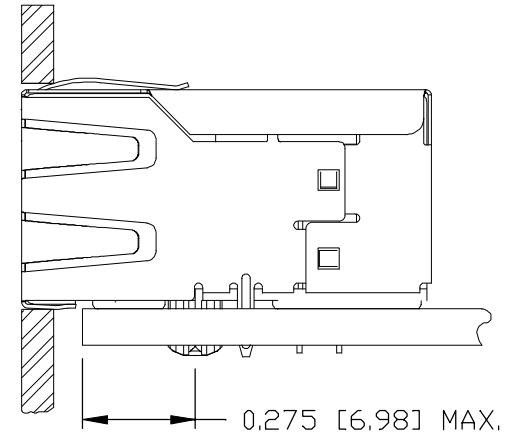
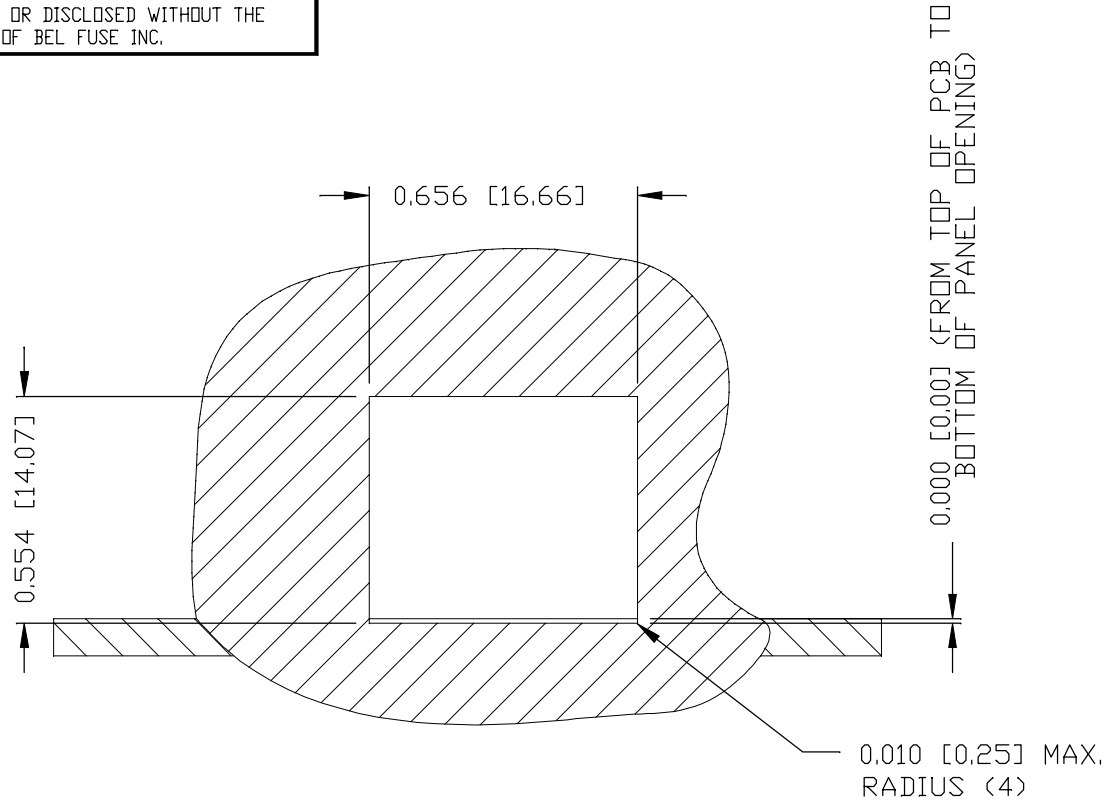
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PRELIMINARY



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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