

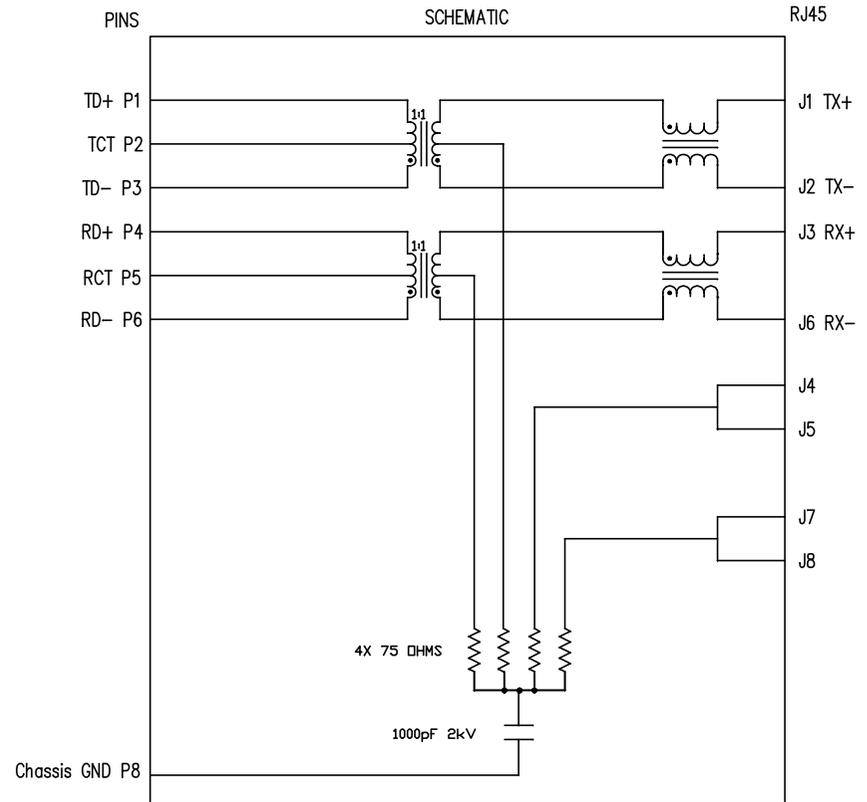
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RoHS



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-50154-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-50154-F_B.DWG | | .X .XX .XXX | | UNIT : INCH [mm] SCALE : N/A SIZE : A4 | | <p>a bel group</p> | |
| | | | | | | | | | | |

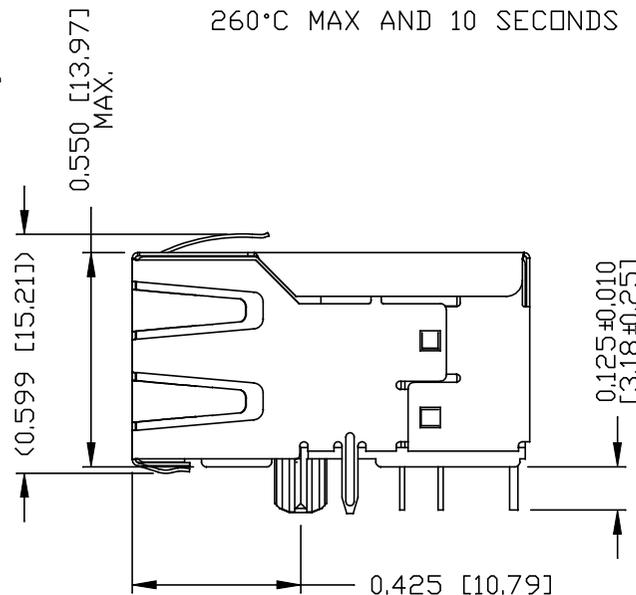
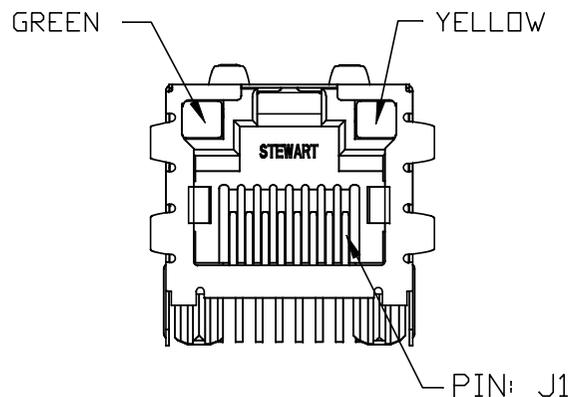
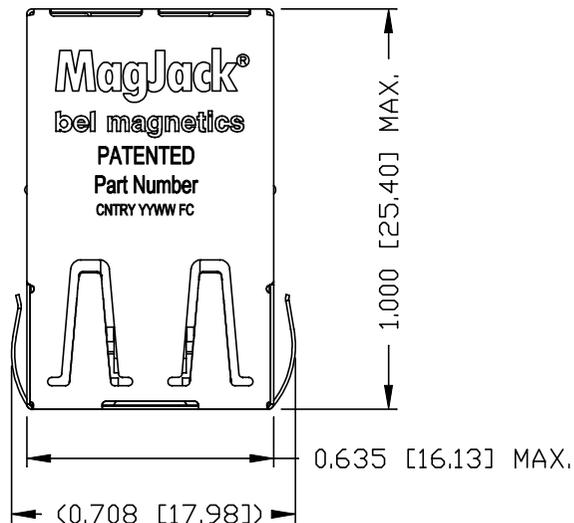
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NOTES:

- 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 TIA-1096 DIMENSION REQUIREMENTS.
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ± 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-50154-F

FILE NAME
SI-50154-F_B.DWG

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

REV. : B PAGE : 3



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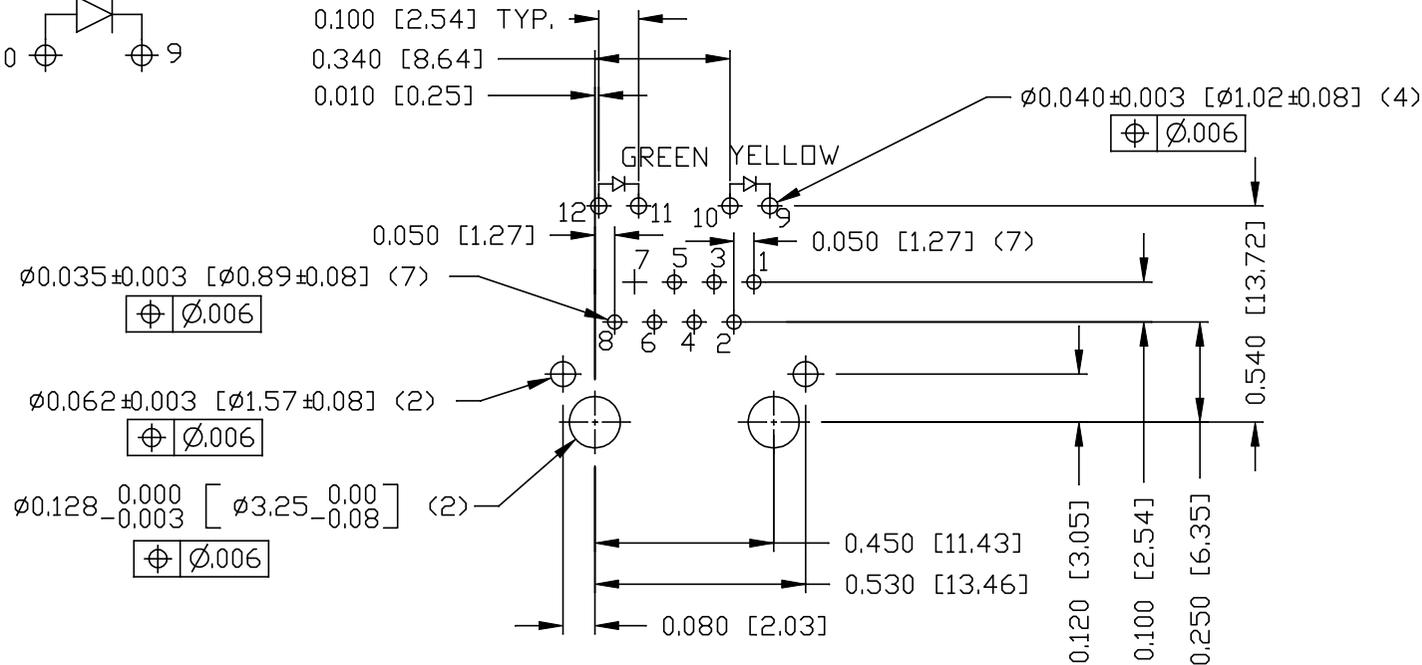
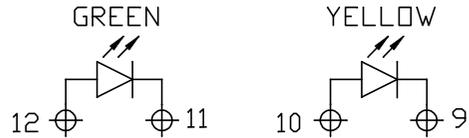
RoHS



| LED SPECIFICATION | | | |
|-------------------|------------|-----------------|--------|
| STANDARD LED | WAVELENGTH | FORWARD V (MAX) | *(TYP) |
| GREEN | 565 nm | 2.5 V | 2.2 V |
| YELLOW | 590 nm | 2.5 V | 2.1 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

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

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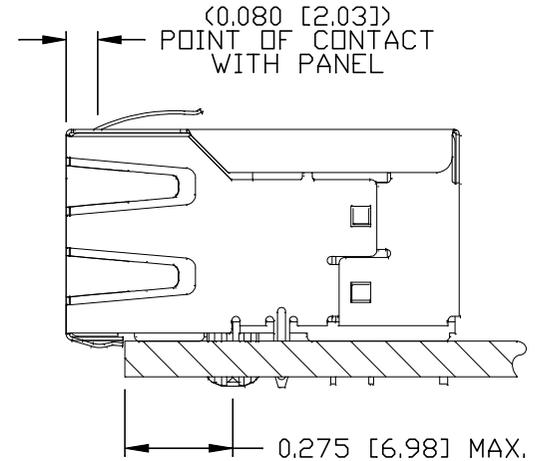
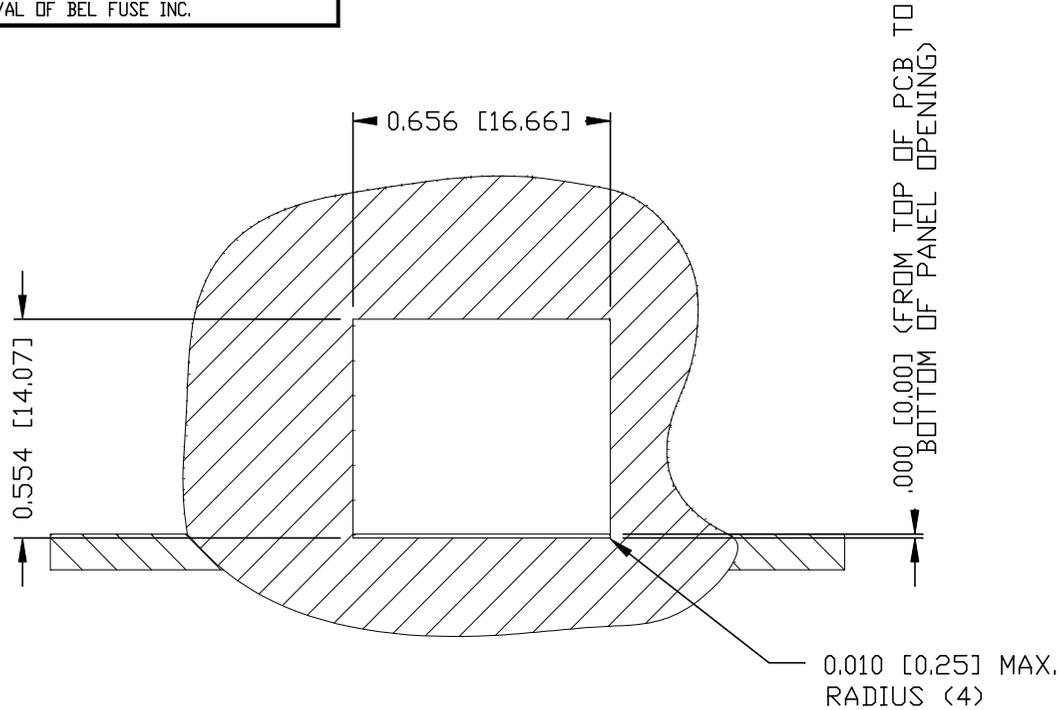
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SUGGESTED PANEL OPENING

NOTES:

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

| | | | | | | | | | | | |
|--|--|---|--|---|--|---|--|--|--|-----------------|-----------------|
| 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-50154-F FILE NAME SI-50154-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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