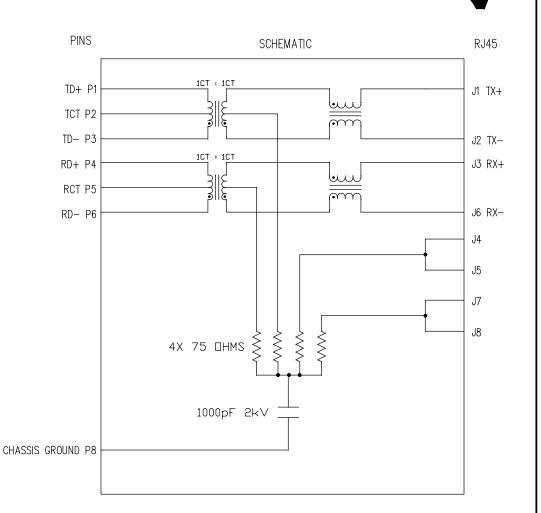
## Additional Resources: Product Page PCB Footprint Technical Documentation

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### ELECTRICAL CHARACTERISTICS @ 25°C

| $1 \text{ 0 TURNS RATIO} (P6_P5_P4) \cdot (16_13)$                                     | ·1CT · 1CT + 39                          |
|----------------------------------------------------------------------------------------|------------------------------------------|
| 1.0 TURNS RATIO: (P6–P5–P4) : (J6–J3)<br>(P3–P2–P1) : (J2–J1)                          | :1CT : 1CT ± 3%                          |
| 2.0 INDUCTANCE: (P6-P4) : 350uH MIN. @ 0.1V, 100K<br>(P3-P1) : 350uH MIN. @ 0.1V, 100K | Hz, 8mA DC Bias<br>Hz, 8mA DC Bias       |
| 3.0 LEAKAGE INDUCTANCE: P6-P4 (WITH J6 AND J3 SHORT)<br>P3-P1 (WITH J2 AND J1 SHORT)   | :0.3uH MAX. @ 1MHz<br>:0.3uH MAX. @ 1MHz |
| 4.0 INTERWINDING CAPACITANCE: (P6,P5,P4) TO (J6,J3)<br>(P3,P2,P1) TO (J2,J1)           | :30pF MAX. @ 1MHz<br>:30pF MAX. @ 1MHZ   |
| 5.0 DC RESISTANCE: $(J6-J3)=(J2-J1)$                                                   | :1.2 ohms Max.                           |
| 6.0 RETURN LOSS: (P6-P4)=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 (J6-J3).                                        |                                          |
| 7.0 VOLTAGE 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: 1MHz TO 100MHz                                                        | :40 dB TYP                               |
| 11.0 COMMON TO COMMON MODE ATTENUATION:                                                |                                          |
| 30MHz TO 100MHz                                                                        | : 35dB TYP                               |
|                                                                                        |                                          |

OPERATING TEMPERATURE RANGE: 0°C TO +70°C



#### NOTES: 1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

|                        |                               |                                             |      |                     |                            | REV. : | С          | 1 |
|------------------------|-------------------------------|---------------------------------------------|------|---------------------|----------------------------|--------|------------|---|
| CHOW WANCHUNG          | TITLE<br>MagJack <sup>®</sup> | <b>PART NO. / DRAWING NO.</b><br>SI-46001-F |      | ARD DIM.<br>IN INCH | [ ] METRIC DIM.<br>AS REF. | 155.   |            |   |
| <b>DATE</b> 2018-12-03 | 10/100BT                      |                                             | - v  |                     | UNIT : INCH [mm]           |        |            |   |
| drawn by<br>XIE YIMING | VERTICAL, SHIELDED            | FILE NAME                                   | .XX  | /                   | SCALE : N/A                |        | a bel grou |   |
| DATE 2018-12-03        |                               | SI-46001-F_C.DWG                            | .XXX |                     | SIZE : A4                  |        | a 50 gioq  | _ |

bel magnetic a bel group

PAGE :

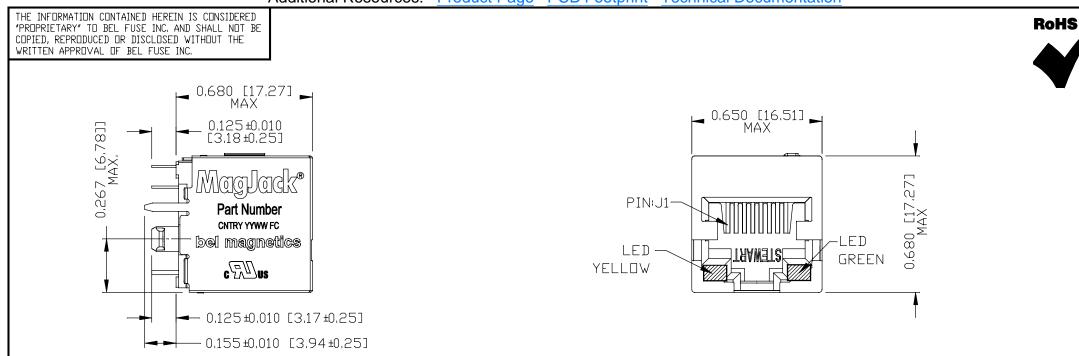
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**RoHS** 





# NDTES:

1. CONNECTOR MATERIALS: HOUSING: THERMOPLASTIC UL94 V-0 CONTACT/SHIELD: COPPER ALLOY SHIELD PLATING: NICKEL OR TIN CONTACT PLATING: SELECTIVE GOLD,

50 MICRO-INCHES MIN, IN CONTACT AREA,

- 2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED. SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- 3. TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- 4, ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±0,005 [0,13],

- 5, THE PRODUCT IS ROHS COMPLIANT,
  - cNUs UL RECOGNIZED FILE #E474585.
- 6. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

|                                            |                                |                                             |                               |        |                                 | REV. : | С          | PAGE : | 3                 |
|--------------------------------------------|--------------------------------|---------------------------------------------|-------------------------------|--------|---------------------------------|--------|------------|--------|-------------------|
| SANDY LIN                                  | TITLE<br>MagJack <sup>®</sup>  | <b>PART NO. / DRAWING NO.</b><br>SI-46001-F | STANDARD DIM.<br>TOL. IN INCH |        | [] METRIC DIM.<br>AS REF.       |        | h          | bol    |                   |
| DATE 2018-12-03<br>DRAWN BY<br>RUAN WENJUN | 10/100BT<br>Vertical, shielded | FILE NAME                                   | .X<br>.XX                     |        | UNIT : INCH [mm]<br>SCALE : N/A |        | a bel grou | SOI    | GNETIC<br>LUTIONS |
| DATE 2018-12-03                            |                                | SI-46001-F_C,DWG                            | .XXX                          | ±0,005 | SIZE : A4                       |        |            | Þ      |                   |

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THE INFORMATION CONTAINED HEREIN IS CONSIDERED RoHS "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC. LED SPECIFICATION WAVELENGTH FORWARD V (MAX) LED COLOR \*(TYP) 2,5 V 2,2 V GREEN 565 nm 590 nm 2,5 V 2,1 V YELLOW 0,100 [2,54] \*WITH A FORWARD CURRENT OF 20 mA (TYP) 0.153 [3.89] 0.250 [6.35] [4,11] 0.050 [1.27] ---0,162 0.050 [1.27](7) 4 68 Ø0.035±0.003 [Ø0.89±0.08] (8)  $\oplus \oplus \oplus$ ⊕ Ø0,006 PIN #1  $\Phi$  $\oplus$  $\Phi$ Ø0,062±0,003 [Ø1,57±0,08] (2) Ĵ. 5 Ð  $\oplus$  $\oplus$ Ø0,006  $\oplus$ +HH GREEN YELLOW GRN YEL ⊕  $\oplus$ -134  $\oplus$ 12 11 10 9 Ø0,125<sup>+0,003</sup> [Ø3,18<sup>+0,08</sup>] (2) 0,024 [0,61] --PIN-OUT INFORMATION 0.374 [9.50] -⊕ Ø0,006 (SEEN FROM COMPONENT SIDE) 0,100 [2,54] (2) -0,450 [11,43] -Ø0,040±0,003 [Ø1,02±0,08] (4) 0,535 [13,59] ⊕ Ø0,006 P.C.B. RECOMMENDED HOLE LAYOUT SEEN FROM COMPONENT SIDE ALL CENTERLINE DIMENSIONS ARE BASIC, С PAGE : 4 REV. : ORIGINATED BY PART NO. / DRAWING NO. TITLE [] METRIC DIM. STANDARD DIM SANDY LIN MagJack® AS REF. TOL. IN INCH SI-46001-F 2018-12-03 DATE MAGNETIC UNIT : INCH [mm] .X 10/100BT SOLUTIONS DRAWN BY FILE NAME SCALE : N/A RUAN WENJUN VERTICAL, SHIELDED .XX a bel group SI-46001-F\_C,DWG 2018-12-03 SIZE : A4 DATE  $\oplus$ .XXX ±0,005

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