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"PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE  
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WRITTEN APPROVAL OF BEL FUSE INC.

| LED1 POLARITY |       |       | LED2 POLARITY |        |        |
|---------------|-------|-------|---------------|--------|--------|
| PIN 7         | PIN 8 | COLOR | PIN 9         | PIN 10 | COLOR  |
| -             | +     | GREEN | -             | +      | YELLOW |

RoHS

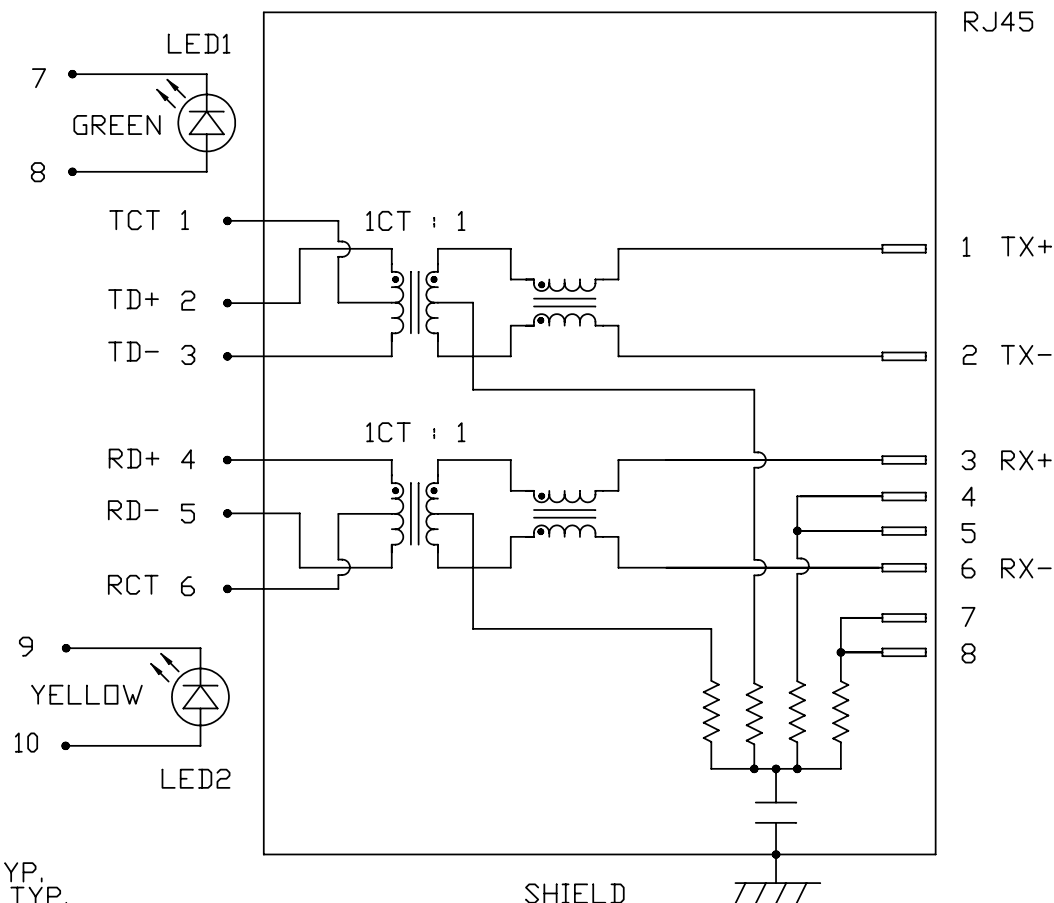





## ELECTRICAL CHARACTERISTICS @ 25°C

### URNS RATIO

|  |                           |
|--|---------------------------|
| TX                                     | 1CT : 1                   |
| RX                                     | 1CT : 1                   |
| OC L @ 100kHz/100mVRMS                 | 350µH MIN.                |
| 8mA DC BIAS                            |                           |
| INS. LOSS                              | -1.0 dB MAX               |
| 1MHz TO 100MHz                         |                           |
| RET. LOSS (MIN)                        | -18 dB                    |
| 1MHz-30MHz                             | -18+20LOG(F/30MHz) dB     |
| 30MHz-60MHz                            | -12 dB                    |
| 60MHz-80MHz                            |                           |
| CROSS TALK (TX - RX)                   |                           |
| 500kHz-1MHz                            | -70 dB MIN                |
| 10 MHz                                 | -50 dB MIN                |
| 30 MHz                                 | -45 dB MIN                |
| 50 MHz                                 | -40 dB MIN                |
| 100 MHz                                | -35 dB MIN                |
| CM TO CM REJ                           |                           |
| 100kHz-1MHz                            | -70 dB MIN                |
| 10 MHz                                 | -47 dB MIN                |
| 30 MHz                                 | -42 dB MIN                |
| 60 MHz                                 | -37 dB MIN                |
| 100 MHz                                | -30 dB MIN                |
| CM TO DM REJ                           |                           |
| 100kHz-1MHz                            | -70 dB MIN                |
| 10 MHz                                 | -60 dB MIN                |
| 30 MHz                                 | -50 dB MIN                |
| 60 MHz                                 | -45 dB MIN                |
| 100 MHz                                | -40 dB MIN                |
| HIPOT (Isolation Voltage):             | 1500 Vrms                 |
| 100% OF PRODUCTION TESTED TO COMPLY    |                           |
| WITH IEEE 802.3 ISOLATION REQUIREMENTS |                           |
| LED 1                                  |                           |
| VF (FORWARD VOLTAGE)                   | IF=20mA GREEN 2.2V TYP.   |
| λD (DOMINANT WAVELENGTH)               | IF=20mA GREEN 565nm TYP.  |
| LED 2                                  |                           |
| VF (FORWARD VOLTAGE)                   | IF=20mA YELLOW 2.1V TYP.  |
| λD (DOMINANT WAVELENGTH)               | IF=20mA YELLOW 590nm TYP. |

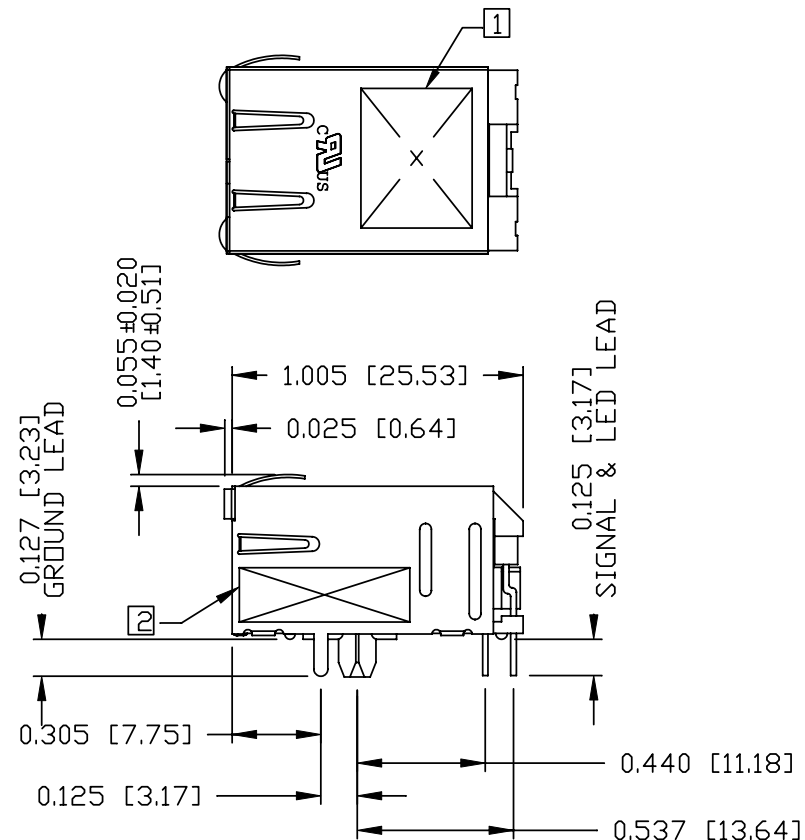
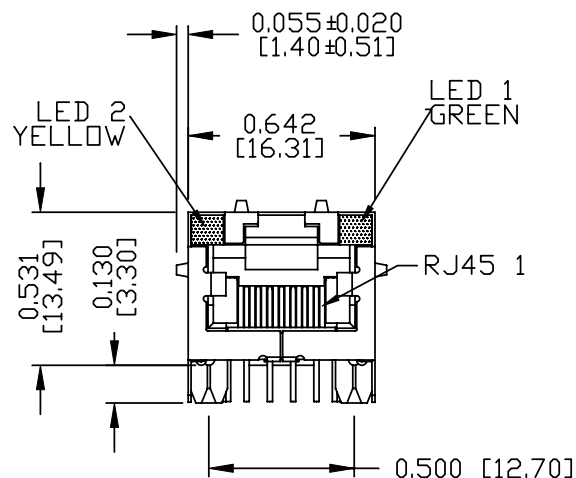
## SCHEMATIC



|               |  |            |                |                        |                                 |   |                              |   |  |                  |
|---------------|--|------------|----------------|------------------------|---------------------------------|---|------------------------------|---|--|------------------|
| ORIGINATED BY |  | DATE       | TITLE          | PART NO. / DRAWING NO. | STANDARD DIM.                   |   | [ ] METRIC DIM. AS REFERENCE |   | <div><br/>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</div> |                  |
| CHOW WANCHUNG |  | 2012-07-09 |                |                        | (4 Cores, MDIX, CM Termination) | 08B01D1T06-F  | TOL. IN INCH                 |   |  | UNIT : INCH [mm] |
| DRAWN BY      |  | DATE       | 08B0-1D1T-06-F | FILE NAME              | .X                              |  | SCALE : N/A                  | SIZE : A4   |  |                  |
| TAN QIGUANG   |  | 2012-07-09 | PATENTED       |                        | .XX                             |   |                              |  |  | PAGE : 2         |
|               |  |            |                |                        | .XXX                            |   |                              |   |  |                  |

# MECHANICAL SPECIFICATION

RoHS





## NOTES:

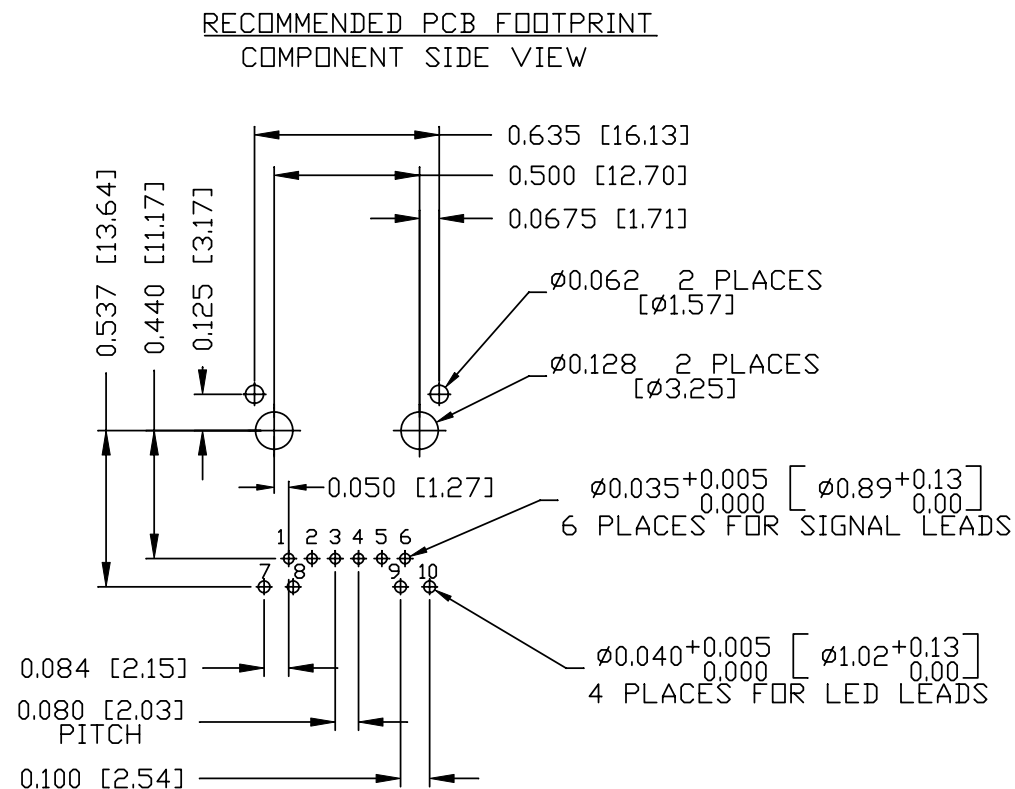
- PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0  
CONTACTS PLATING: 15 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.  
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
METAL SHIELD: PRE-PLATED NICKEL ON COPPER ALLOY.  
1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER AND DATE CODE.  
2. "PATENTED" MARKING.



c UL RECOGNIZED - FILE #E196366 AND E169987.

3. THE PRODUCT IS RoHS COMPLIANT.  
4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.  
5. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 5,736,910.

|                             |                    |  |  |                               |        |   |           |  |
|-----------------------------|--------------------|--|--|-------------------------------|--------|---|-----------|--|
| ORIGINATED BY<br>ANTON LIAO | DATE<br>2012-07-09 | TITLE<br>MagJack®<br>(4 Cores, MDIX, CM Termination)<br>08B0-1D1T-06-F<br>PATENTED | PART NO. / DRAWING NO.<br>08B01D1T06-F | STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM. AS REFERENCE  |           | <br><b>bel</b><br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
| DRAWN BY<br>HE ZHEN         | DATE<br>2012-07-09 |  | FILE NAME<br>08B01D1T06-F_C.DWG        | .X                            |        | UNIT : INCH [mm]  | REV. : C  |  |
|                             |                    |  |  | .XX                           |        | SCALE : N/A   | SIZE : A4 |  |
|                             |                    |  |  | .XXX                          | ±0.010 |  | PAGE : 3  |  |

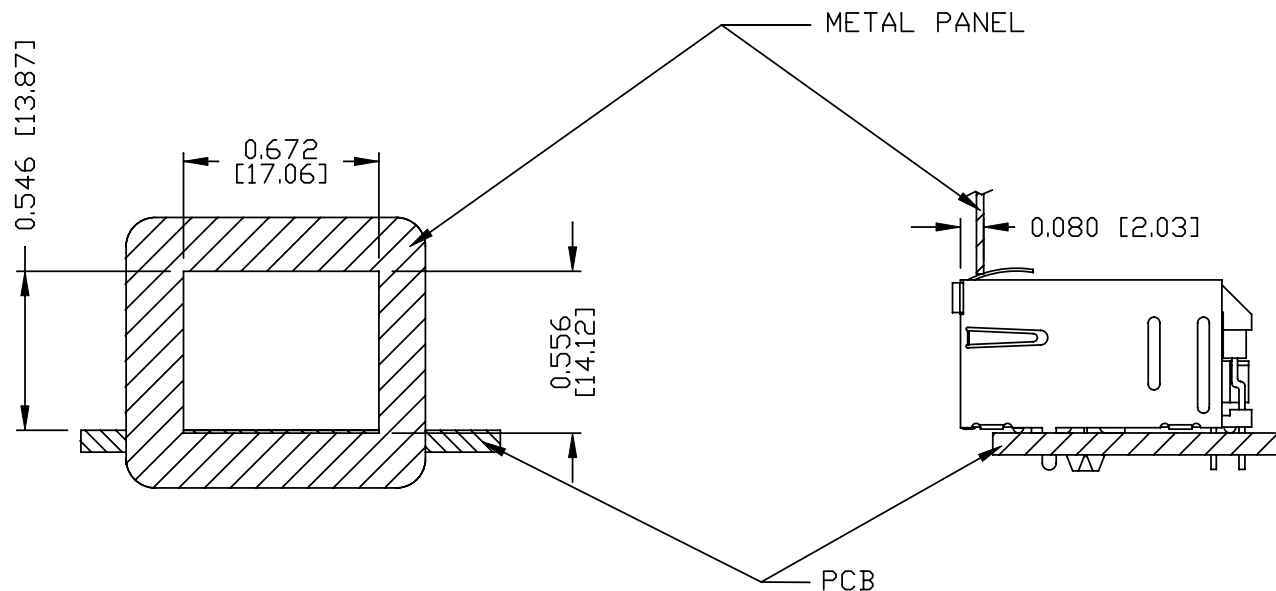
RoHS



|                             |                    |  |  |                               |        |   |           |   |
|-----------------------------|--------------------|--|--|-------------------------------|--------|---|-----------|---|
| ORIGINATED BY<br>ANTON LIAO | DATE<br>2012-07-09 | TITLE<br>MagJack®<br>(4 Cores, MDIX, CM Termination)<br>08B0-1D1T-06-F<br>PATENTED | PART NO. / DRAWING NO.<br>08B01D1T06-F | STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM. AS REFERENCE  |           | <br>COMPONENTS ON A<br>CONNECTED<br>PLANET |
| DRAWN BY<br>HE ZHEN         | DATE<br>2012-07-09 |  | FILE NAME<br>08B01D1T06-F_C.DWG        | .X                            |        | UNIT : INCH [mm]  | REV. : C  |   |
|                             |                    |  |  | .XX                           |        | SCALE : N/A   | SIZE : A4 |   |
|                             |                    |  |  | .XXX                          | ±0.004 |  | PAGE : 4  |   |



SUGGESTED PANEL OPENING



NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.  
IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

PACKING INFORMATION

PACKING TRAY : 0200-9999-D4(TOP)

0200-9999-D5(BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

| ORIGINATED BY | DATE       | TITLE                                       | PART NO. / DRAWING NO. | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|---------------|------------|---|------------------------|-------------------------------|------------------------------|
| ANTON LIAO    | 2012-07-09 | MagJack®<br>(4 Cores, MDIX, CM Termination) | 08B01D1T06-F           |                               | UNIT : INCH [mm] REV. : C    |
| DRAWN BY      | DATE       |   | FILE NAME              | .X                            | SCALE : N/A SIZE : A4        |
| HE ZHEN       | 2012-07-09 | 08B0-1D1T-06-F<br>PATENTED                  | 08B01D1T06-F_C.DWG     | .XX                           | ⊕ — [ ] —                    |
|               |            |   |                        | .XXX                          | ±0.004 PAGE : 5              |