

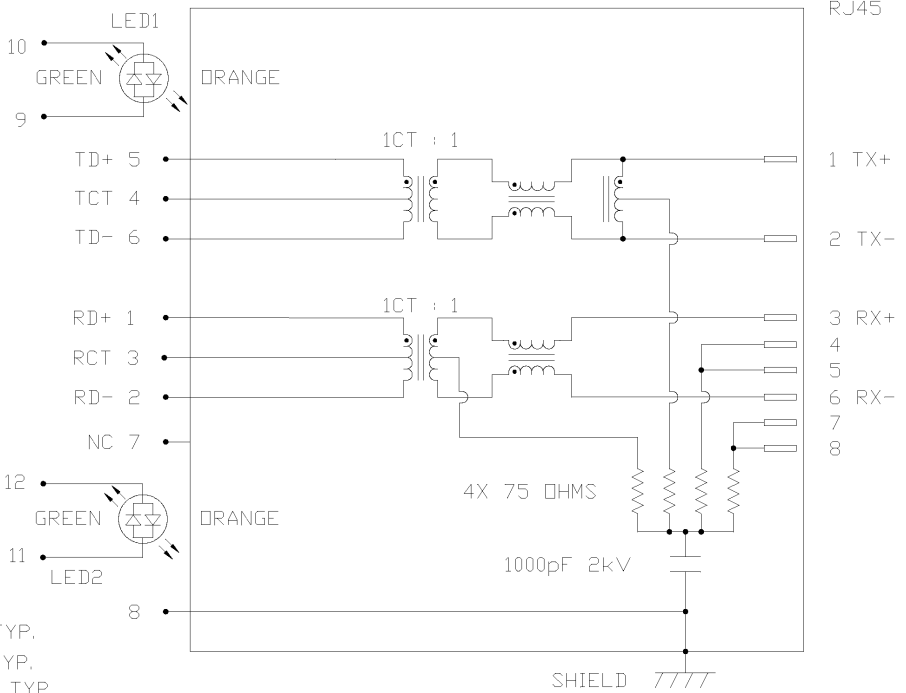


SCHEMATIC

| LED1 POLARITY |        |        | LED2 POLARITY |        |        |
|---------------|--------|--------|---------------|--------|--------|
| PIN 9         | PIN 10 | COLOR  | PIN 11        | PIN 12 | COLOR  |
| +             | -      | GREEN  | +             | -      | GREEN  |
| -             | +      | ORANGE | -             | +      | ORANGE |

ELECTRICAL CHARACTERISTICS @ 25°C

|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| Turns Ratio                                       |                                               |
| TX                                                | 1CT : 1                                       |
| RX                                                | 1CT : 1                                       |
| QCL @ 100kHz/100mVRMS                             |                                               |
| 8mA DC BIAS (0°C - 70°C)                          | 350µH MIN.                                    |
| INS. LOSS                                         |                                               |
| 1MHz TO 100MHz                                    | -1.1 dB MAX                                   |
| RET. LOSS (MIN) @ 100OHMS ±15%                    |                                               |
| 1MHz-30MHz                                        | -18 dB                                        |
| 30MHz-60MHz                                       | -18+20LOG(F/30MHz) dB                         |
| 60MHz-80MHz                                       | -12 dB                                        |
| CROSS TALK (TX - RX)                              |                                               |
| 100kHz-100MHz                                     | -35 dB MIN                                    |
| CM TO CM REJ                                      |                                               |
| 100kHz-100MHz                                     | -30 dB MIN                                    |
| CM TO DM REJ                                      |                                               |
| 100kHz-100MHz                                     | -35 dB MIN                                    |
| HIPOT (Isolation Voltage):                        | 1500 Vrms                                     |
| 100% OF PRODUCTION TESTED                         |                                               |
| TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS. |                                               |
| LED 1 & 2                                         |                                               |
| VF (FORWARD VOLTAGE)                              | IF=20mA GREEN 2.2V TYP.<br>ORANGE 2.0V TYP.   |
| λD (DOMINANT WAVELENGTH)                          | IF=20mA GREEN 565nm TYP.<br>ORANGE 610nm TYP. |



|                        |                  |                                     |                                        |                               |                                                                                     |                              |           |                                                                                                                                         |
|------------------------|------------------|-------------------------------------|----------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATED BY<br>CHUNG | DATE<br>04-04-07 | TITLE<br><br>1X1 MagJack® WITH LEDs | PART NO. / DRAWING NO.<br>0875-1B1T-P1 | STANDARD DIM.<br>TOL. IN INCH |                                                                                     | [ ] METRIC DIM. AS REFERENCE |           | <br><b>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</b> |
| DRAWN BY<br>DE         | DATE<br>04-04-07 |                                     | FILE NAME<br>08751B1TP1A.DWG           | .X                            |  | UNIT : INCH [mm]             | REV. : A  |                                                                                                                                         |
|                        |                  |                                     |                                        | .XX                           |                                                                                     | SCALE : N/A                  | SIZE : A4 |                                                                                                                                         |
|                        |                  |                                     | .XXX                                   |                               |  | PAGE : 2                     |           |                                                                                                                                         |

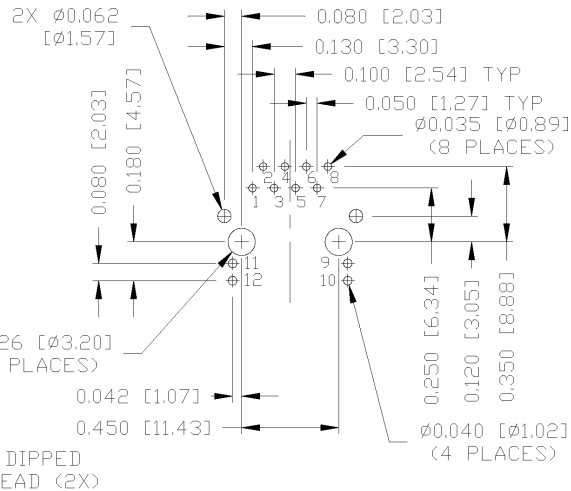
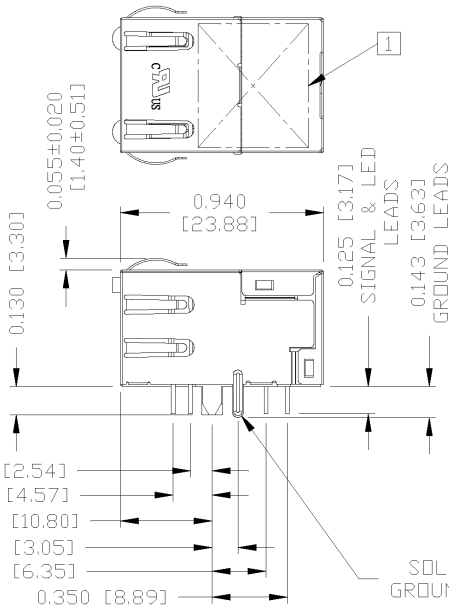
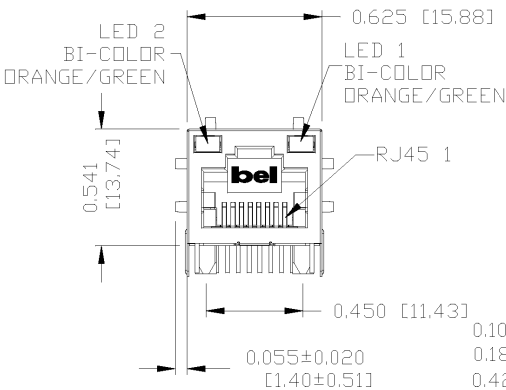


# MECHANICAL SPECIFICATION

## RECOMMENDED PCB FOOTPRINT

### COMPONENT SIDE VIEW

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



#### NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT.
- FLAMMABILITY RATING UL 94V-0
- CONTACTS: 30 MICRO-INCH HARD GOLD PLATING
- OUTPUT PINS: LEAD FREE COPPER WIRES, DIA 0.018 INCH.
- METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
- (ALL GROUND LEADS ARE SOLDER DIPPED)

1. MARK PART WITH MFG LOGO, NAME, PART NUMBER AND DATE CODE.

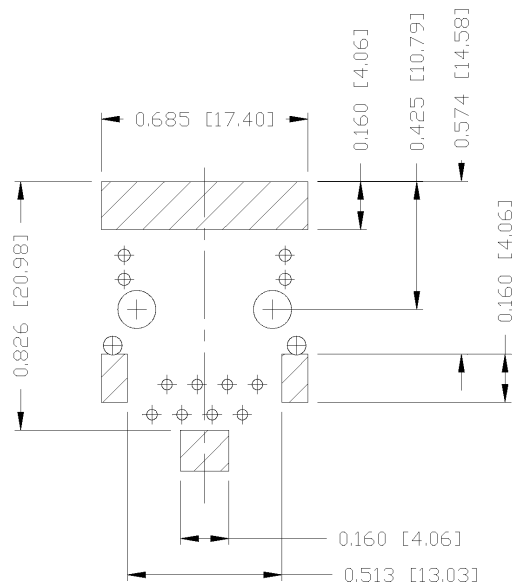
2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

UL RECOGNIZED - FILE #E196366 AND E169987.

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

| ORIGINATED BY | DATE     | TITLE                  | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|---------------|----------|------------------------|------------------------|----------------------------|------------------------------|
| QIN           | 04-04-07 | 1X1 MagJack® WITH LEDs | 0875-1B1T-P1           | .X                         | UNIT : INCH [mm] REV. : A    |
| DRAWN BY      | DATE     |                        | FILE NAME              | .XX                        | SCALE : N/A SIZE : A4        |
| TING          | 04-04-07 |                        | 08751B1TP1A.DWG        | .XXX ±0.010                | PAGE : 3                     |

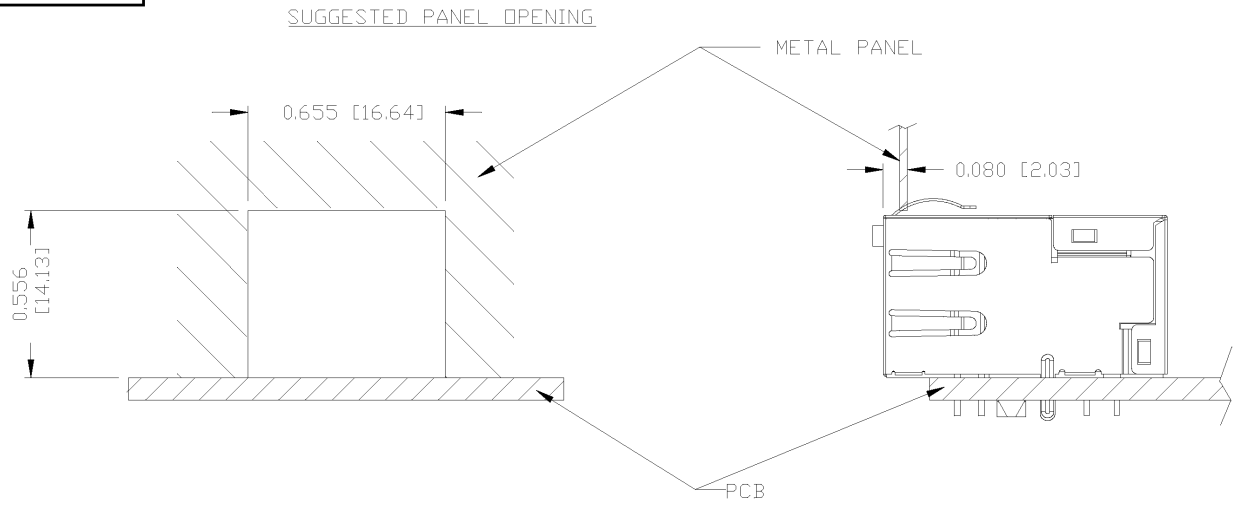




NOTE:  
THE SHADED AREA ON THE CUSTOMER BOARD ARE  
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR  
COMPONENT PAD.

|               |          |                 |                        |               |     |                                                                                       |                                                                                       |                                                                                      |           |
|---------------|----------|-----------------|------------------------|---------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|
| ORIGINATED BY | DATE     | TITLE           | PART NO. / DRAWING NO. | STANDARD DIM. |     | [ ] METRIC DIM. AS REFERENCE                                                          |                                                                                       |  |           |
| QIN           | 04-04-07 |                 | 0875-1B1T-P1           | TOL. IN INCH  |     | UNIT : INCH [mm]                                                                      | REV. : A                                                                              |                                                                                      |           |
| DRAWN BY      | DATE     |                 | 1X1 MagJack® WITH LEDs | FILE NAME     | .X  |  | SCALE : N/A                                                                           |                                                                                      | SIZE : A4 |
| TING          | 04-04-07 |                 |                        |               | .XX |                                                                                       |  |                                                                                      | PAGE : 4  |
|               |          | .XXX            |                        |               |     |                                                                                       |                                                                                       |                                                                                      |           |
|               |          | 08751B1TP1A.DWG |                        | ±0.004        |     |                                                                                       |                                                                                       |                                                                                      |           |

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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-H7 (TOP)  
0200-9999-H8 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY  
10 TRAYS (600 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. | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|------------------------|------------------------|---------------|------------------------------|-----------|
| QIN           | 04-04-07 | 1X1 MagJack® WITH LEDs | 0875-1B1T-P1           | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : A  |
| DRAWN BY      | DATE     |                        | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |
| TING          | 04-04-07 |                        | 08751B1TP1A.DWG        | .XX           |                              | PAGE : 5  |
|               |          |                        |                        | .XXX          |                              |           |

