

# ELECTRICAL CHARACTERISTICS @ 25°C

## URNS RATIO

|     |               |
|-----|---------------|
| TP1 | 1CT : 1CT ±2% |
| TP2 | 1CT : 1CT ±2% |
| TP3 | 1CT : 1CT ±2% |
| TP4 | 1CT : 1CT ±2% |

## QCL @ 100kHz/100mVRMS

|             |            |
|-------------|------------|
| 8mA DC BIAS | 350μH MIN. |
|-------------|------------|

## INS. LOSS

|                  |             |
|------------------|-------------|
| 100kHz TO 125MHz | -1.2 dB MAX |
|------------------|-------------|

## RET. LOSS (MIN)

|              |                       |
|--------------|-----------------------|
| 0.5MHz-40MHz | -18 dB                |
| 40MHz-100MHz | -12+20LOG(f/80MHz) dB |

## CROSS TALK:

Ch1-Ch2,Ch1-Ch3,Ch1-Ch4,Ch2-Ch3,Ch2-Ch4,Ch3-Ch4

|               |            |
|---------------|------------|
| 1MHz - 30MHz  | -35 dB MIN |
| 30MHz - 80MHz | -24 dB MIN |
| 80Hz - 100MHz | -25 dB MIN |

## CM TO CM REJ

|                 |            |
|-----------------|------------|
| 100kHz - 100MHz | -30 dB MIN |
|-----------------|------------|

## CM TO DM REJ

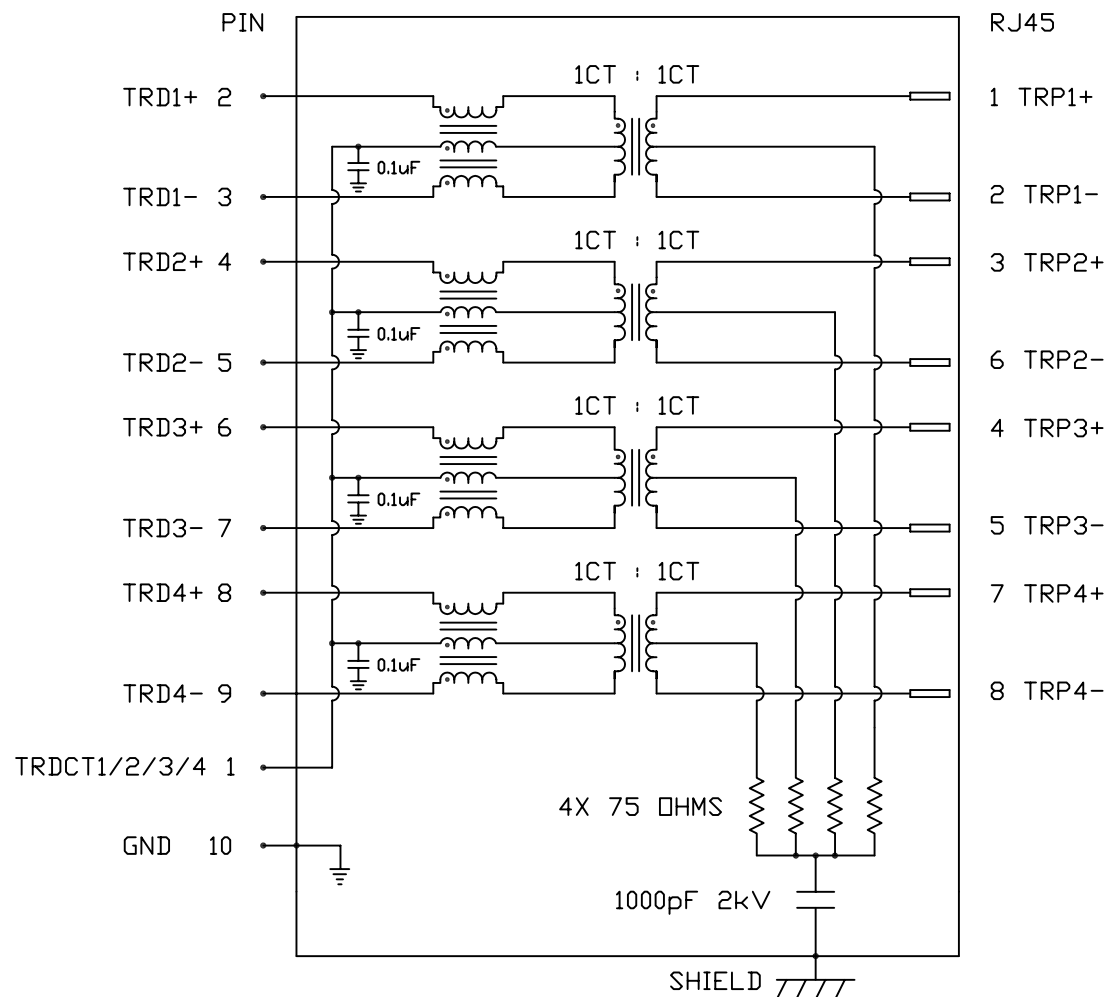
|                 |            |
|-----------------|------------|
| 100kHz - 100MHz | -35 dB MIN |
|-----------------|------------|

## HIPOT (Isolation Voltage):

1500 Vrms or 2250VDC

## OPERATING TEMPERATURE PANGE: -40 TO +85°C

## SCHEMATIC

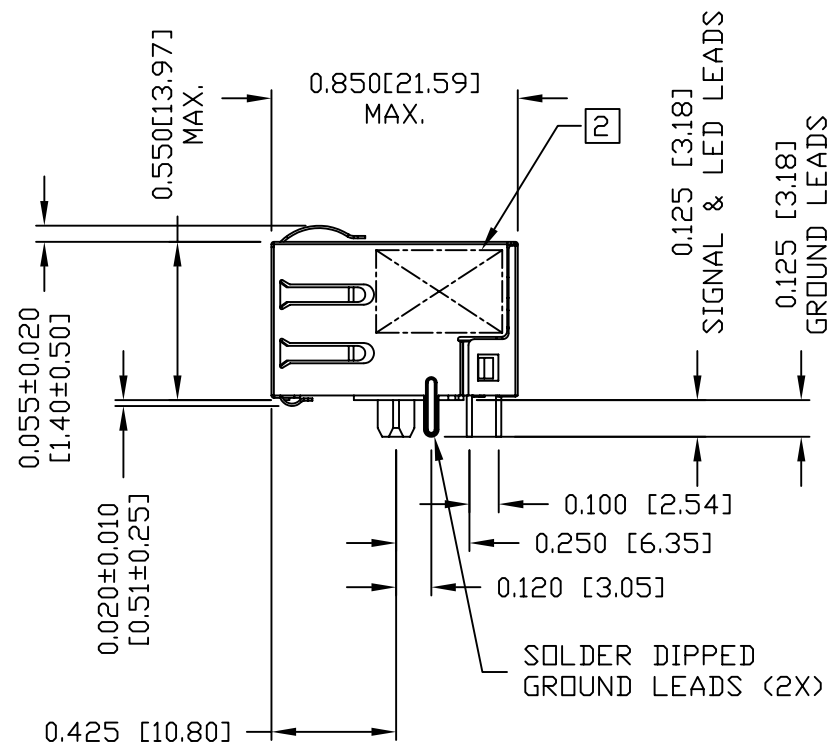
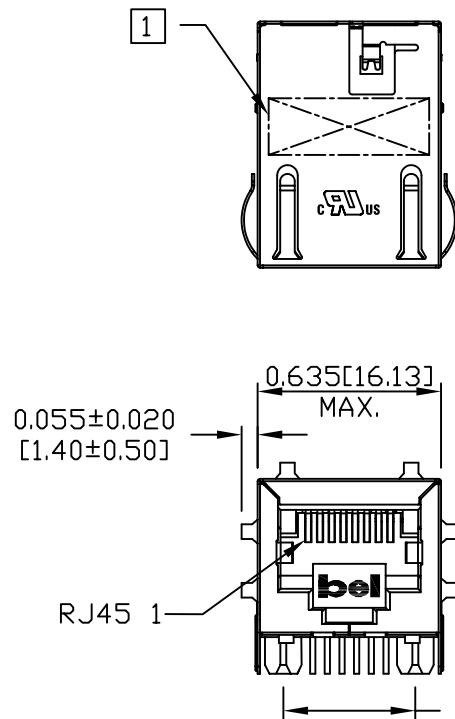


| ORIGINATED BY | DATE     | TITLE            | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |
|---------------|----------|------------------|------------------------|---------------|------------------------------|
| CHUNG         | 04-11-06 | Gigabit MagJack® | SI-61006-F             | TOL. IN INCH  | UNIT : INCH [mm] REV. : PB   |
| DRAWN BY      | DATE     |                  | FILE NAME              | .X            | SCALE : N/A SIZE : A4        |
| DE            | 04-11-06 |                  | SI61006FPB.DWG         | .XX<br>.XXX   | PAGE : 2                     |

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PRELIMINARY

RoHS  
2002/95/EC



# NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0

CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING

PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

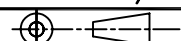
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

[1] MARK PART WITH MFG PART NUMBER(SI-61006-F), DATE CODE.

[2] MARK PART WITH MFG LOGO, MFG NAME.

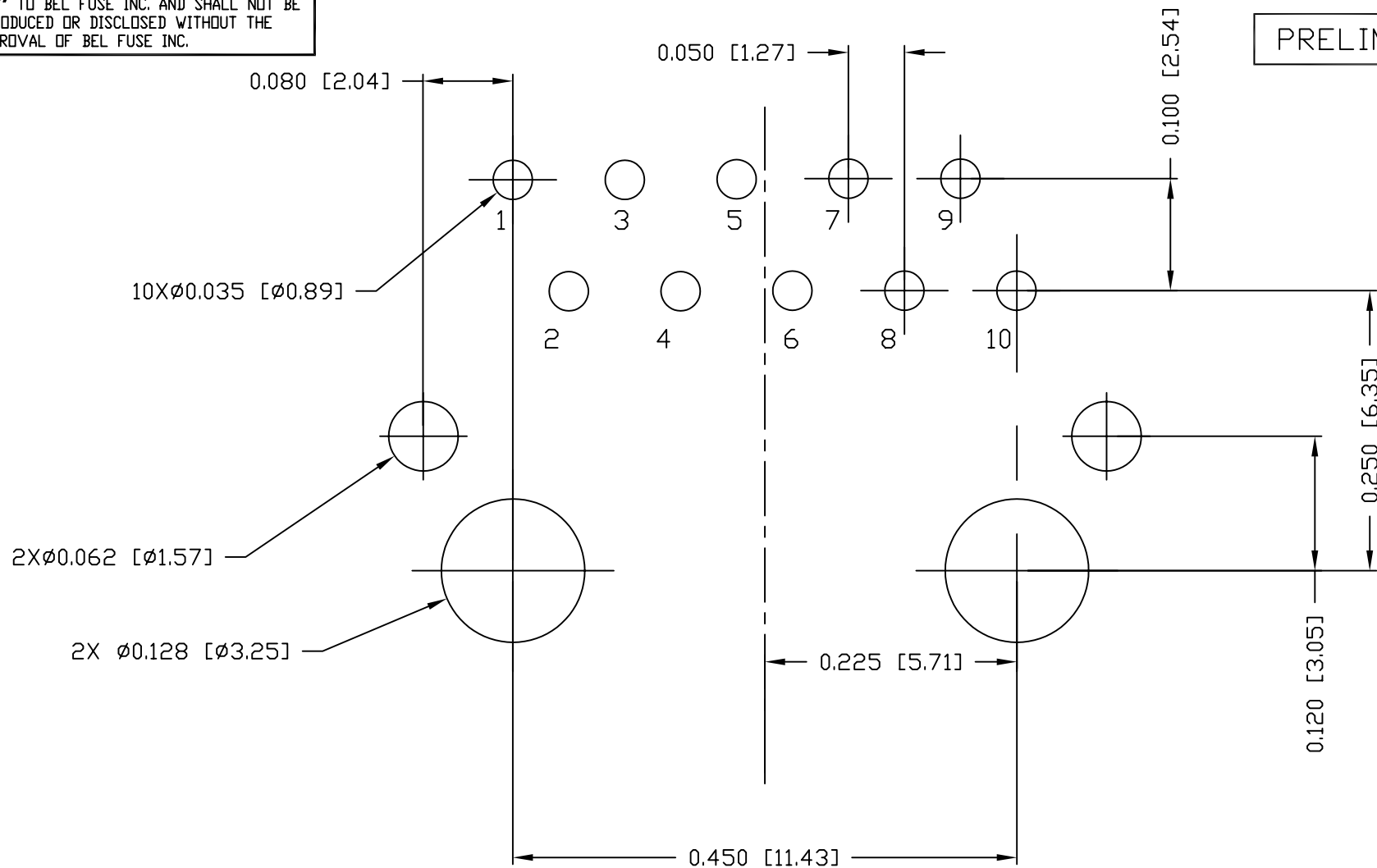
3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

c  UL RECOGNIZED - FILE #E132408.

| ORIGINATED BY | DATE     | TITLE            | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE                                                          |           |
|---------------|----------|------------------|------------------------|----------------------------|---------------------------------------------------------------------------------------|-----------|
| BILL/KEUNG    | 04-11-06 |                  | SI-61006-F             | .X                         | UNIT : INCH [mm]                                                                      | REV. : PB |
| DRAWN BY      | DATE     | Gigabit MagJack® | FILE NAME              | .XX                        | SCALE : N/A                                                                           | SIZE : A4 |
| WEIGH         | 04-11-06 |                  | SI61006FPB.DWG         | .XXX ±0.010                |  | PAGE : 3  |



PRELIMINARY



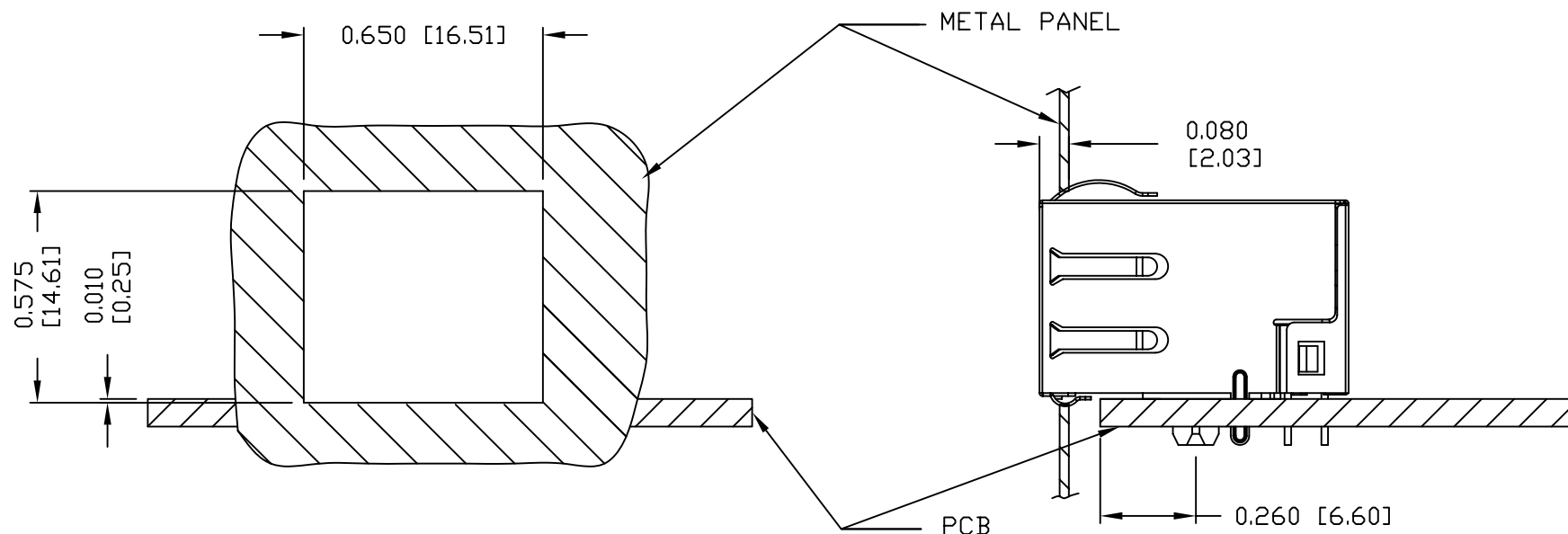
RECOMMENDED PCB FOOTPRINT  
COMPONENT SIDE VIEW

|               |          |                               |                                          |                               |  |                              |           |  |
|---------------|----------|-------------------------------|------------------------------------------|-------------------------------|--|------------------------------|-----------|--|
| ORIGINATED BY | DATE     | TITLE<br><br>Gigabit MagJack® | PART NO. / DRAWING NO.<br><br>SI-61006-F | STANDARD DIM.<br>TOL. IN INCH |  | [ ] METRIC DIM. AS REFERENCE |           |  |
| BILL/KEUNG    | 04-11-06 |                               | FILE NAME<br><br>SI61006FPB.DWG          | .X                            |  | UNIT : INCH [mm]             | REV. : PB |  |
| DRAWN BY      | DATE     |                               |                                          | .XX                           |  | SCALE : N/A                  | SIZE : A4 |  |
| WEIGH         | 04-11-06 |                               |                                          | .XXX                          |  | ±0.004                       |           |  |

PRELIMINARY



SUGGESTED PANEL OPENING



NOTES:

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-Q7 (TOP)

0200-9999-Q8 (BOTTOM)

PACKING QUANTITY : 77 PCS FINISHED GOODS PER TRAY

10 TRAYS (770 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 |           |
|---------------|----------|------------------|------------------------|-------------------------------|------------------------------|-----------|
| BILL/KEUNG    | 04-11-06 | Gigabit MagJack® | SI-61006-F             |                               | UNIT : INCH [mm]             | REV. : PB |
| DRAWN BY      | DATE     |                  | FILE NAME              | .X                            | SCALE : N/A                  | SIZE : A4 |
| WEIGH         | 04-11-06 |                  | SI61006FPB.DWG         | .XX                           |                              | PAGE : 5  |
|               |          |                  |                        | .XXX                          | ±0.004                       |           |