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



# ELECTRICAL CHARACTERISTICS @ 25°C

## URNS RATIO

TX 1CT : 1

RX 1CT : 1

## CL @ 100kHz/100mVRMS

8mA DC BIAS 350μH MIN.

## INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

## RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG(F/30MHz) dB

60MHz-80MHz -12 dB

## 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

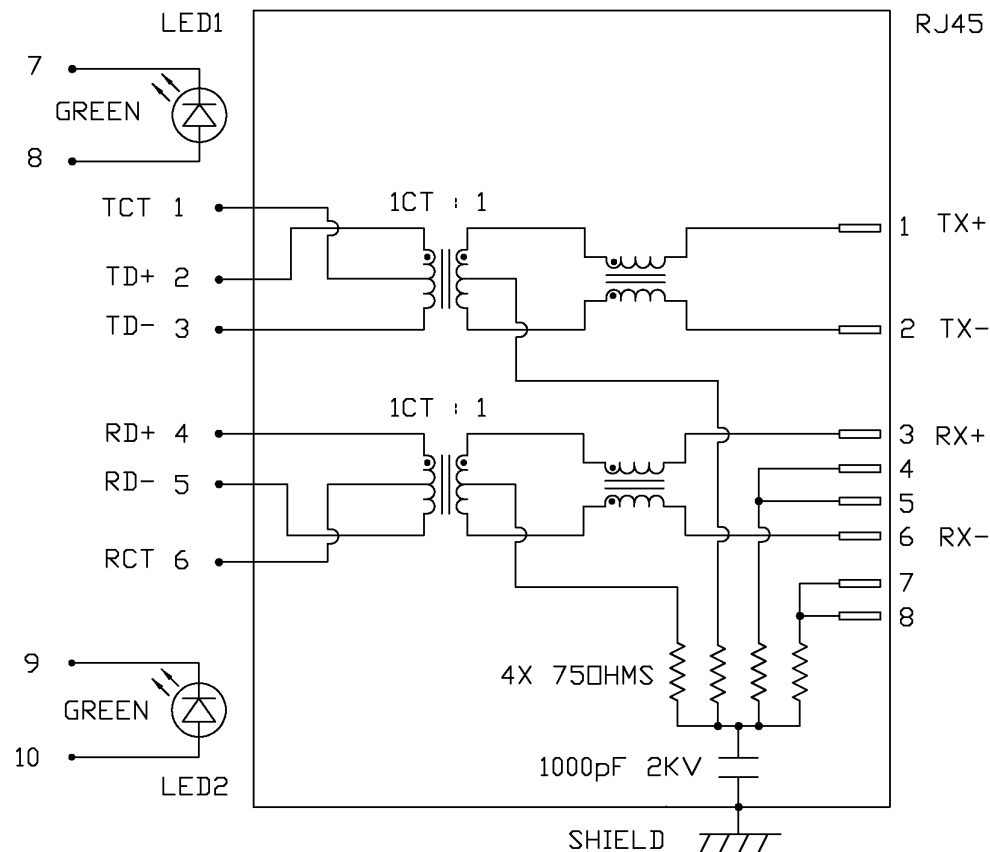
30 MHz -50 dB MIN

60 MHz -45 dB MIN

100 MHz -40 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms

## SCHEMATIC



LED1 and LED2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

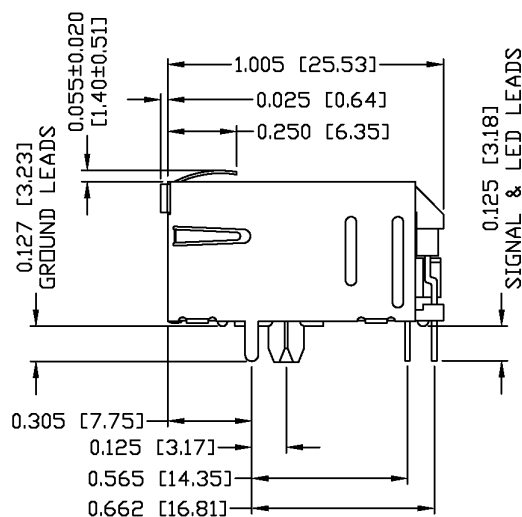
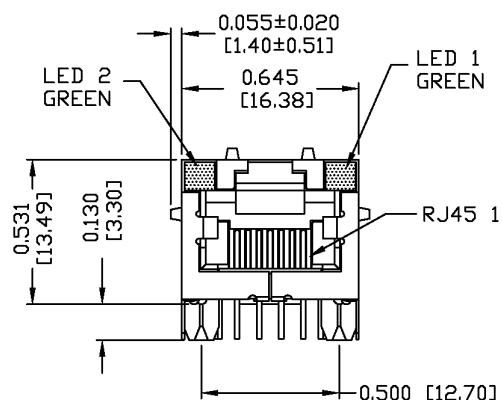
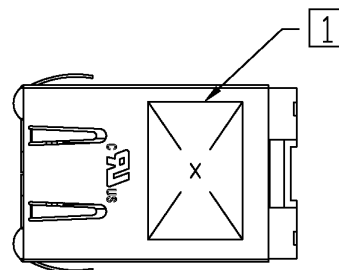
| ORIGINATED BY | DATE     | TITLE                           | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|---------------------------------|------------------------|---------------|------------------------------|-----------|
| CHUNG         | 12-26-05 | MagJack®                        | 08B01G1T06-F           | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : A  |
| DRAWN BY      | DATE     | (4 Cores, MDIX, CM Termination) | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |
| DE            | 12-26-05 | 08B0-1G1T-06-F                  | 08B01G1T06-FA.DWG      | .XX           | ⊕ --- < ---                  | PAGE : 2  |
|               |          |                                 |                        | .XXX          |                              |           |



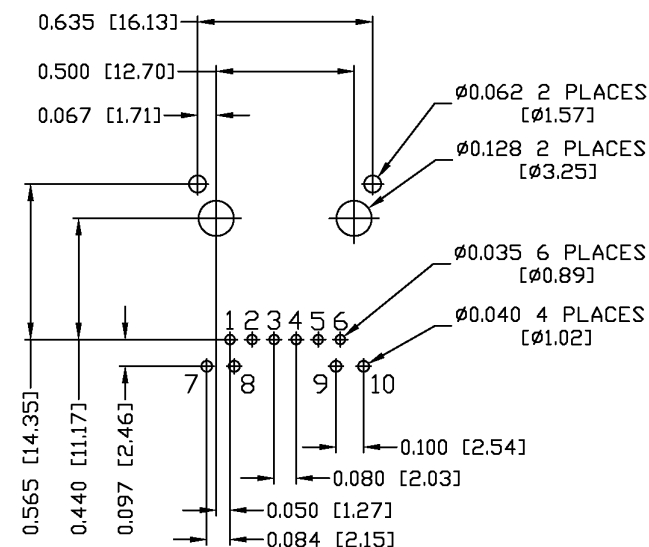
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## MECHANICAL SPECIFICATION



## RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



### NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0  
CONTACTS PLATING: 15 MICRO-INCH HARD GOLD PLATING  
PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
METAL SHIELD: PRE-PLATED NICKEL ON COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

**UL** USUL RECOGNIZED - FILE #E196366 AND E169987.  
RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC

| ORIGINATED BY | DATE     | TITLE                           | PART NO. / DRAWING NO. | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|---------------------------------|------------------------|-------------------------------|------------------------------|-----------|
| QIN           | 12-26-05 | MagJack®                        | 08B01G1T06-F           | .X                            | UNIT : INCH [mm]             | REV. : A  |
| DRAWN BY      | DATE     | (4 Cores, MDIX, CM Termination) | FILE NAME              | .XX                           | SCALE : N/A                  | SIZE : A4 |
| TING          | 12-26-05 | 08B0-1G1T-06-F                  | 08B01G1T06-FA.DWG      | .XXX ±0.010                   | PAGE : 3                     |           |

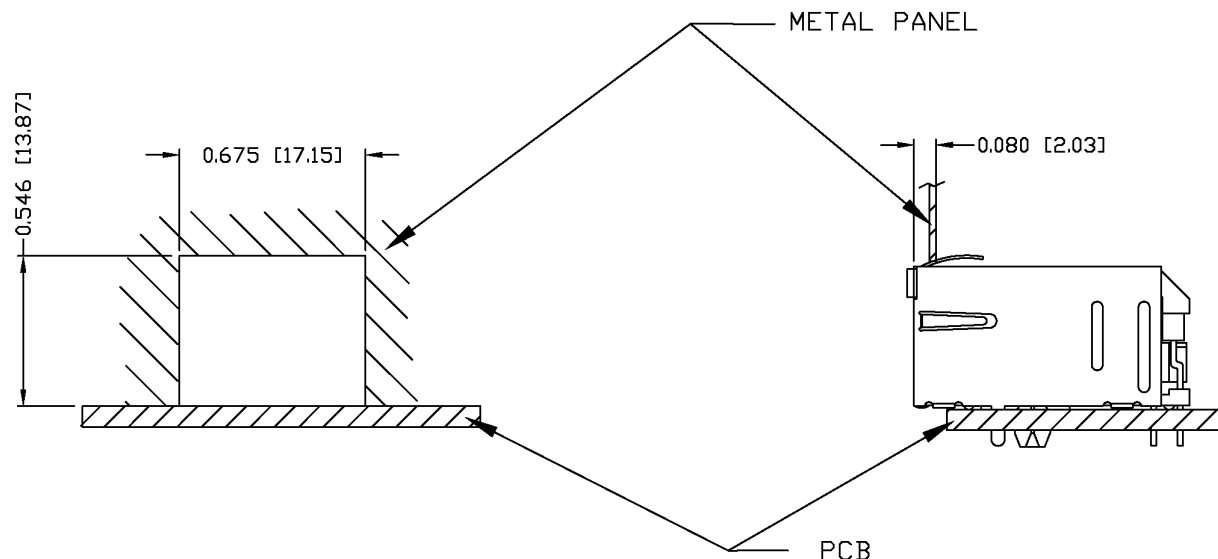


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RoHS  
2002/95/EC



# 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. |        | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|---------------------------------|------------------------|---------------|--------|------------------------------|-----------|
|               |          |                                 |                        | TOL. IN INCH  |        | UNIT : INCH [mm]             | REV. : A  |
| QIN           | 12-26-05 | MagJack®                        | 08B01G1T06-F           | .X            |        | SCALE : N/A                  | SIZE : A4 |
| DRAWN BY      | DATE     | (4 Cores, MDIX, CM Termination) | FILE NAME              | .XX           |        | ⊕                            | PAGE : 4  |
| TING          | 12-26-05 | 08B0-1G1T-06-F                  | 08B01G1T06-FA.DWG      | .XXX          | ±0.004 |                              |           |

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET