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| LED1 POLARITY |        |        | LED2 POLARITY |        |       |
|---------------|--------|--------|---------------|--------|-------|
| PIN 13        | PIN 14 | COLOR  | PIN 15        | PIN 16 | COLOR |
| +             | -      | GREEN  | +             | -      | GREEN |
| -             | +      | ORANGE |               |        |       |

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

|                  |             |
|------------------|-------------|
| 0.1MHz TO 1MHz   | -1.1 dB MAX |
| 1MHz TO 65MHz    | -0.5 dB MAX |
| 65MHz TO 100MHz  | -0.8 dB MAX |
| 100MHz TO 125MHz | -1.2 dB MAX |

RET. LOSS (MIN)

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

CROSS TALK

|                 |                           |
|-----------------|---------------------------|
| 100kHz - 100MHz | -33+20LOG(f/100MHz)dB MIN |
|-----------------|---------------------------|

CM TO CM REJ

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

CM TO DM REJ

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

HIPOT (Isolation Voltage):

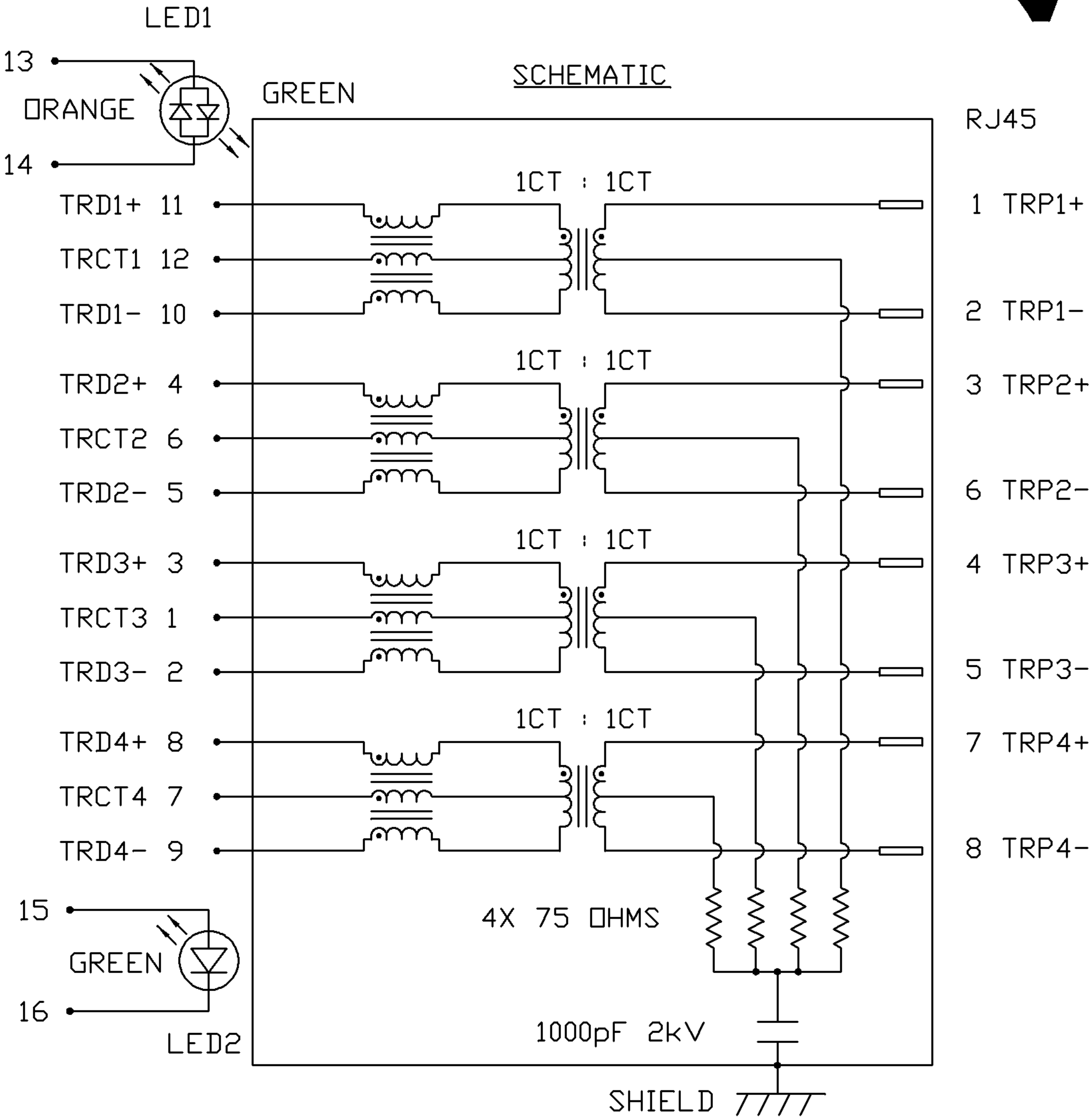
1500 Vrms or 2250VDC

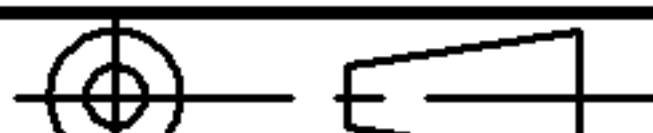
LED 1

|                          |         |        |            |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | GREEN  | 2.2V TYP.  |
|                          |         | ORANGE | 2.0V TYP.  |
| λD (DOMINANT WAVELENGTH) | IF=20mA | GREEN  | 565nm TYP. |
|                          |         | ORANGE | 610nm TYP. |

LED 2

|                          |         |       |            |
|--------------------------|---------|-------|------------|
| VF (FORWARD VOLTAGE)     | IF=20mA | GREEN | 2.2V TYP.  |
| λD (DOMINANT WAVELENGTH) | IF=20mA | GREEN | 565nm TYP. |



| ORIGINATED BY |  | DATE     | TITLE<br><br>gigabit MagJack®<br>(8 cores, Tab Up)<br>0826-1M1T-43-F | PART NO. / DRAWING NO. | STANDARD DIM.<br>TOL. IN INCH |  | [ ] METRIC DIM. AS REFERENCE                                                          |           | <div><br/>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</div> |
|---------------|--|----------|----------------------------------------------------------------------|------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| CHOW WANCHUNG |  | 07-31-08 |                                                                      | 08261M1T43-F           |                               |  | UNIT : INCH [mm]                                                                      | REV. : C  |                                                                                                                                                |
| DRAWN BY      |  | DATE     |                                                                      | FILE NAME              | .X                            |  | SCALE : N/A                                                                           | SIZE : A4 |                                                                                                                                                |
| WEIDE LEE     |  | 07-31-08 |                                                                      | 08261M1T43-F_C.DWG     | .XX                           |  |  | PAGE : 2  |                                                                                                                                                |
|               |  |          |                                                                      |                        | .XXX                          |  |                                                                                       |           |                                                                                                                                                |

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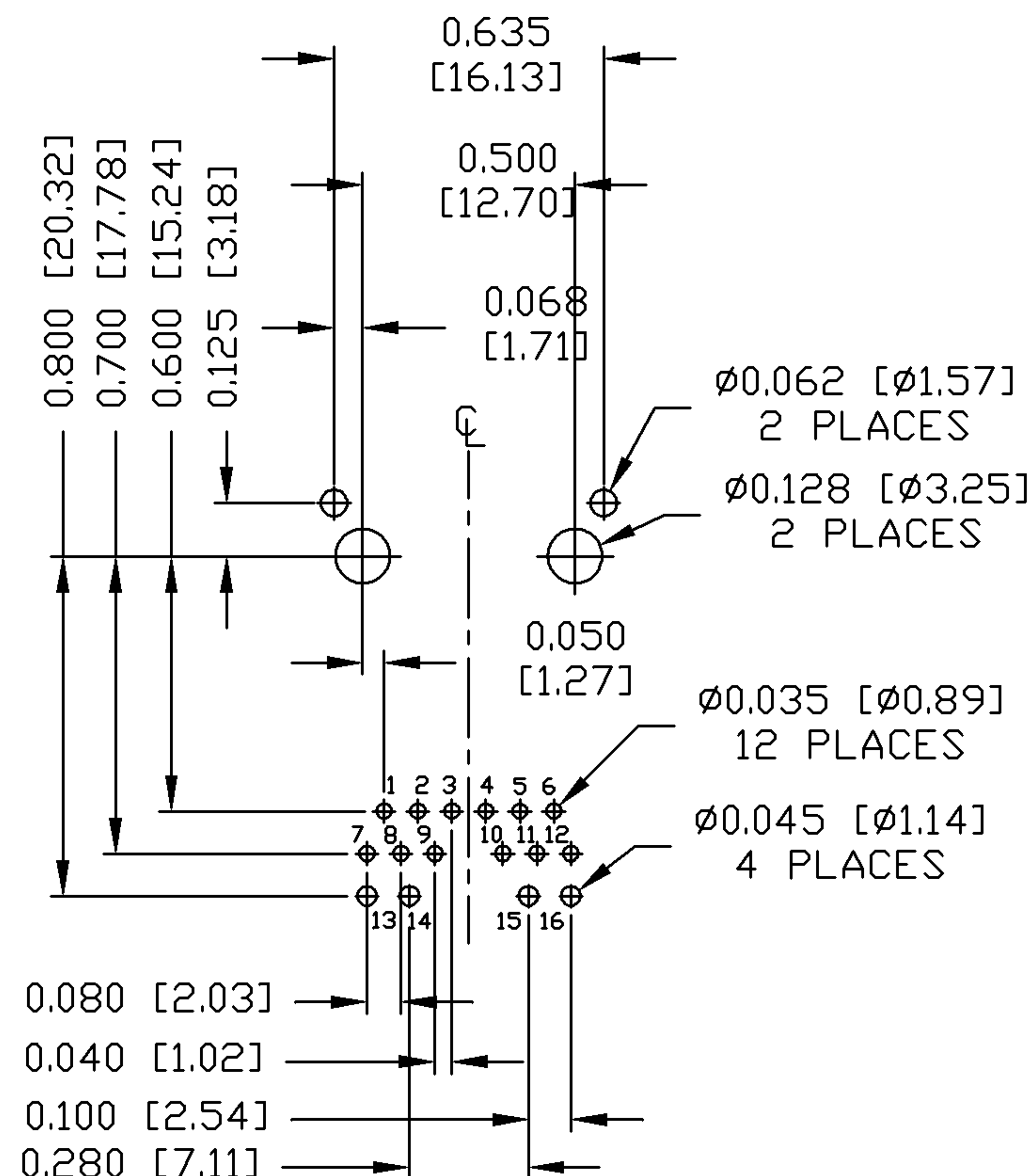
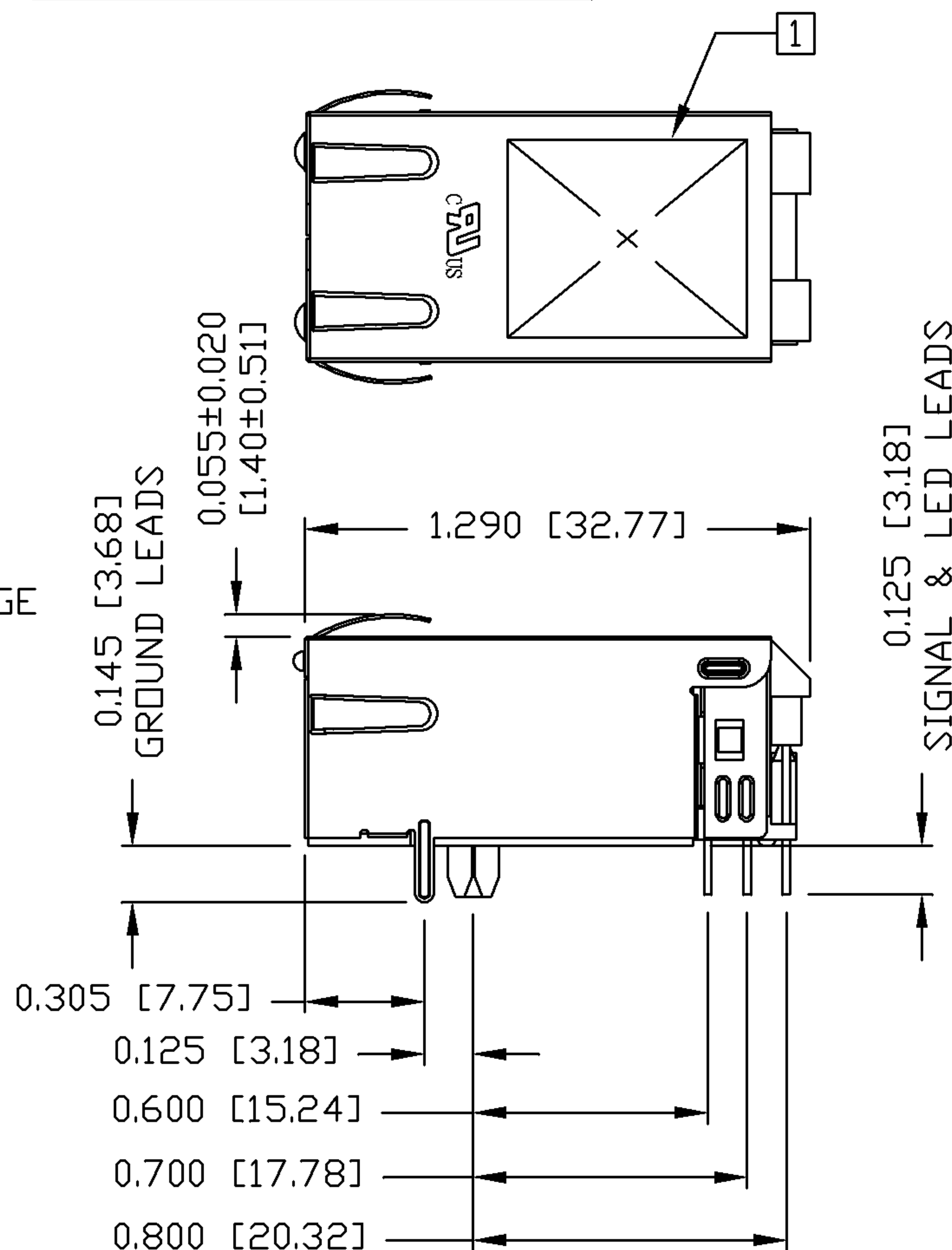
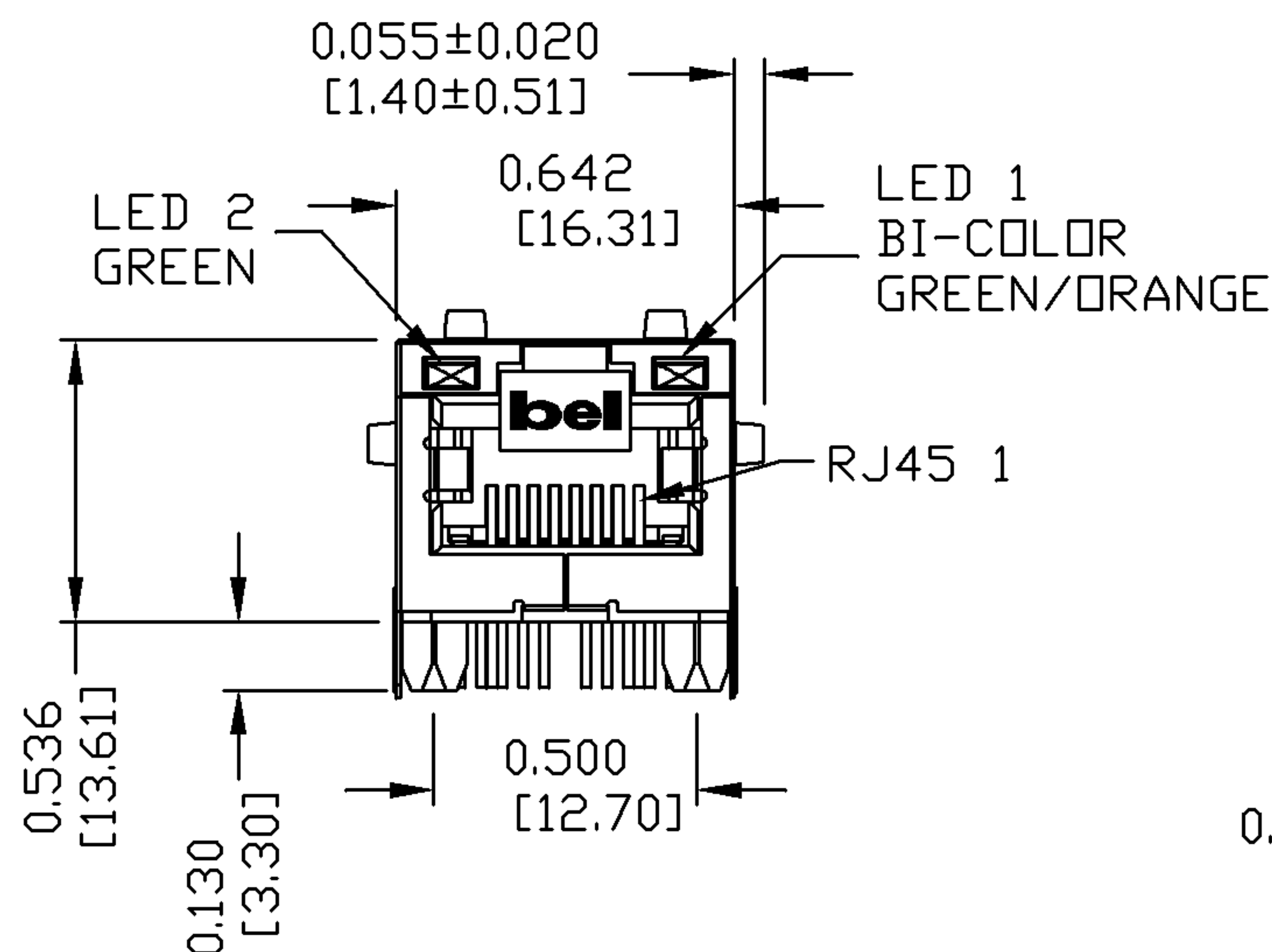
## MECHANICAL SPECIFICATION

RoHS  
2002/95/EC



## RECOMMENDED PCB FOOTPRINT

### COMPONENT SIDE VIEW



### NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA  
FLAMMABILITY RATING UL 94V-0  
CONTACTS: 50 MICRO-INCH HARD GOLD PLATING  
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

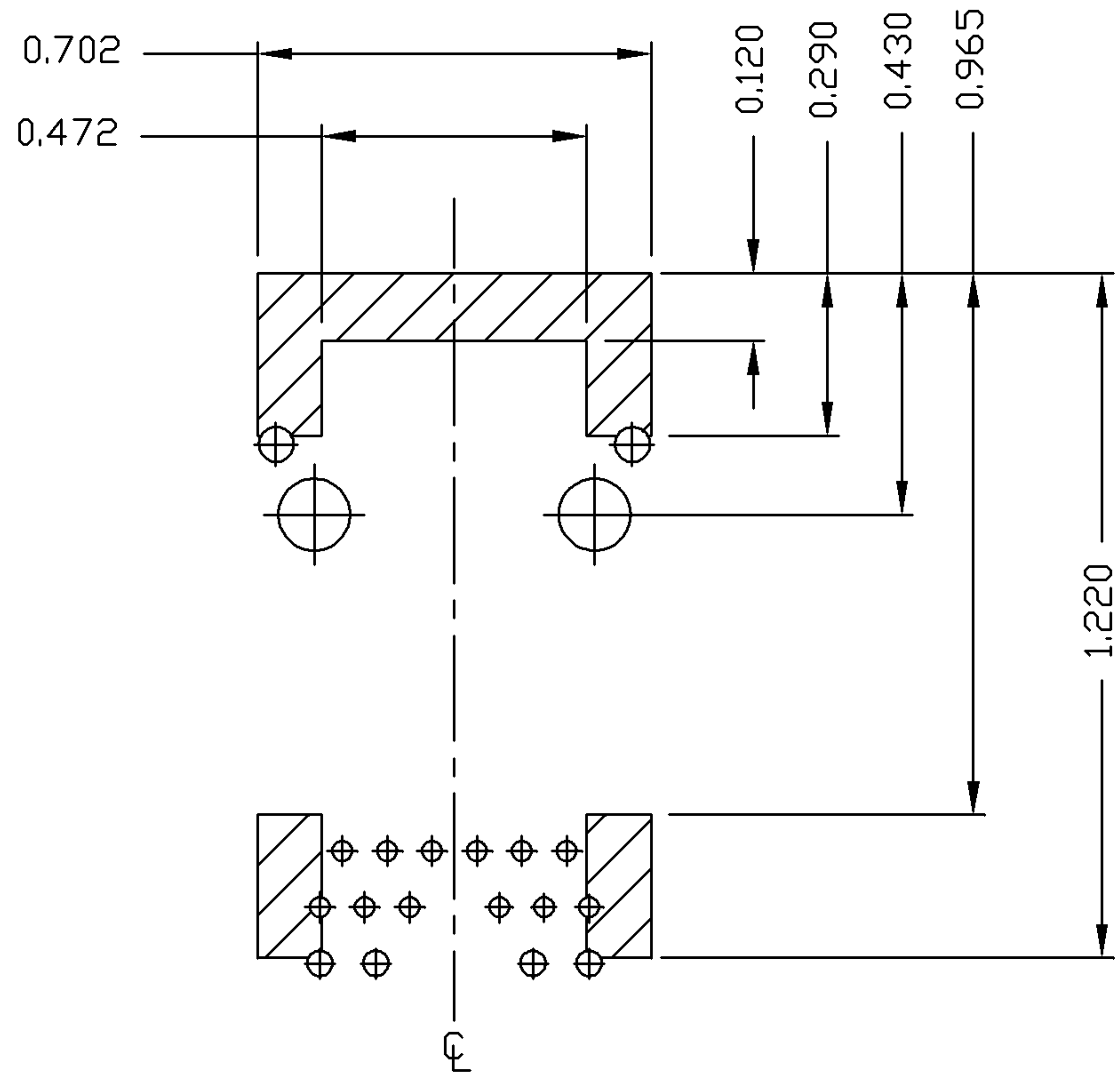
2. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC  
JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

| ORIGINATED BY | DATE     | TITLE                                 | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|---------------|----------|---------------------------------------|------------------------|----------------------------|------------------------------|
| ZX HUANG      | 07-31-08 | gigabit MagJack®<br>(8 cores, Tab Up) | 08261M1T43-F           | .X                         | UNIT : INCH [mm] REV. : C    |
| DRAWN BY      | DATE     | 0826-1M1T-43-F                        | FILE NAME              | .XX                        | SCALE : N/A SIZE : A4        |
| BL CHEN       | 07-31-08 |                                       | 08261M1T43-F_C.DWG     | .XXX ±0.010                | PAGE : 3                     |

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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RoHS  
2002/95/EC



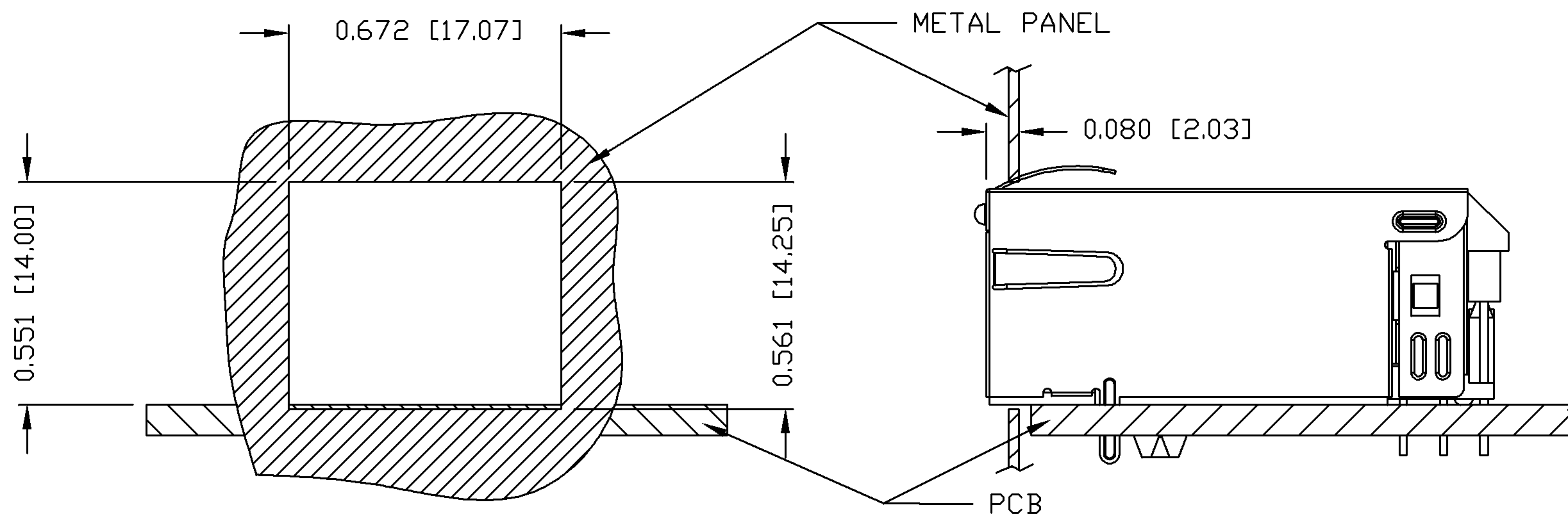
NOTES

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

| ORIGINATED BY<br>ZX HUANG | DATE<br>07-31-08 | TITLE<br>gigabit MagJack®<br>(8 cores, Tab Up)<br>0826-1M1T-43-F | PART NO. / DRAWING NO.<br>08261M1T43-F | STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM. AS REFERENCE |           |
|---------------------------|------------------|------------------------------------------------------------------|----------------------------------------|-------------------------------|--------|------------------------------|-----------|
|                           |                  |                                                                  |                                        | .X                            |        | UNIT : INCH [mm]             | REV. : C  |
| DRAWN BY<br>BL CHEN       | DATE<br>07-31-08 |                                                                  | FILE NAME<br>08261M1T43-F_C.DWG        | .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-F6 (TOP)  
0200-9999-F7 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY  
10 TRAYS (400 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<br><br>gigabit MagJack®<br><br>(8 cores, Tab Up)<br><br>0826-1M1T-43-F | PART NO. / DRAWING NO. | STANDARD DIM. |                                                                                       | [ ] METRIC DIM. AS REFERENCE                                                          |           | <br><small>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</small> |
| ZX HUANG      | 07-31-08 |                                                                              | 08261M1T43-F           | TOL. IN INCH  |                                                                                       | UNIT : INCH [mm]                                                                      | REV. : C  |                                                                                                                                                   |
| DRAWN BY      | DATE     |                                                                              | FILE NAME              | .X            |  | SCALE : N/A                                                                           | SIZE : A4 |                                                                                                                                                   |
| BL CHEN       | 07-31-08 |                                                                              | 08261M1T43-F_C.DWG     | .XX           |                                                                                       |  | PAGE : 5  |                                                                                                                                                   |
|               |          |                                                                              | .XXX                   | ±0.004        |                                                                                       |                                                                                       |           |                                                                                                                                                   |