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

## ELECTRICAL CHARACTERISTICS @ 25°C

### URNS RATIO

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

□CL @ 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

### CM TO CM REJ

100kHz - 100MHz -30 dB MIN

### CM TO DM REJ

100kHz - 100MHz -35 dB MIN

HIPOT (Isolation Voltage): 1500 Vrms

### LED 1

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

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

### LED 2

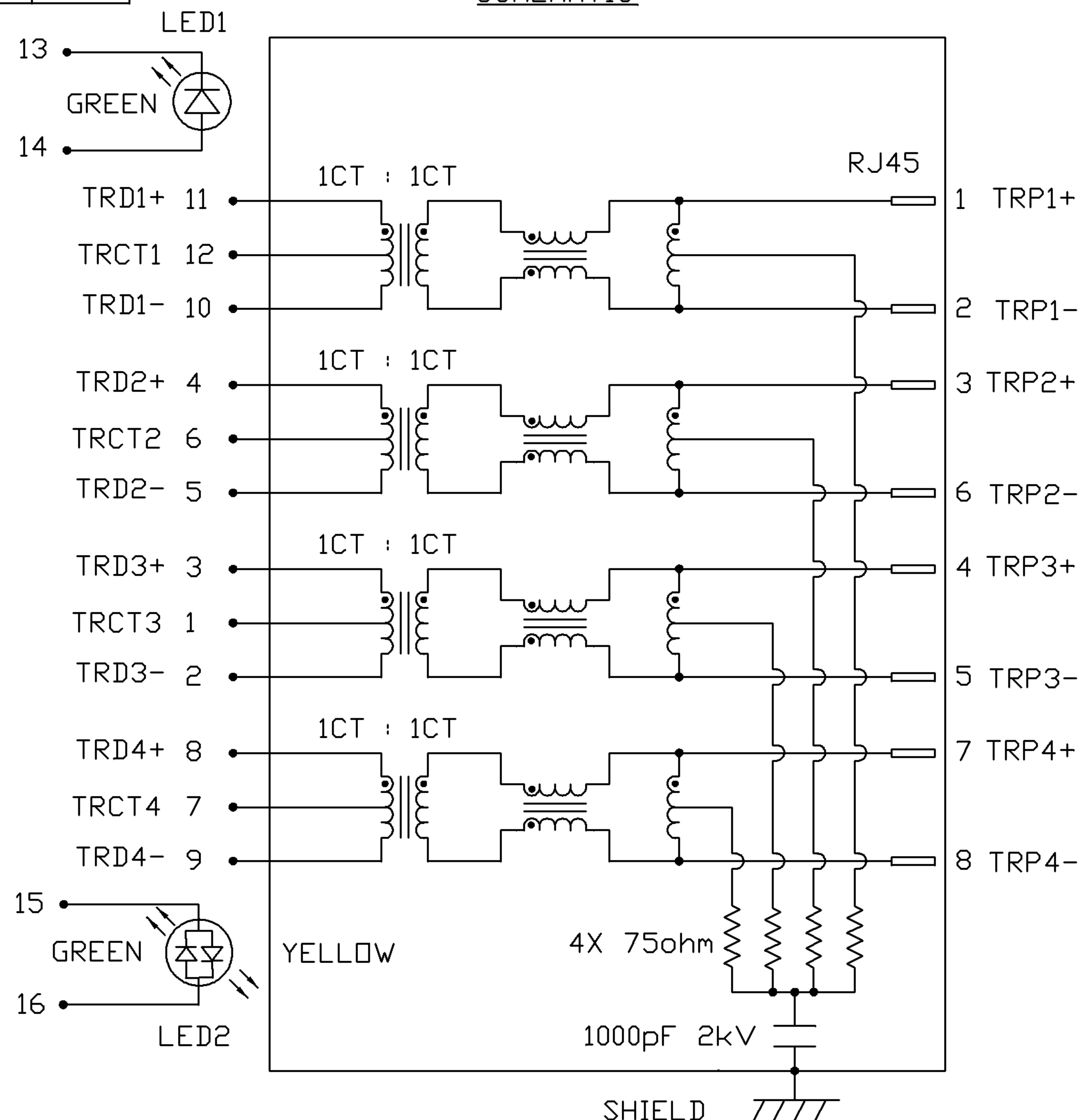
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

IF=20mA YELLOW 2.1V TYP.

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

IF=20mA YELLOW 590nm TYP.

## SCHEMATIC



| ORIGINATED BY | DATE     | TITLE                                      | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|--------------------------------------------|------------------------|---------------|------------------------------|-----------|
| CHOW WANCHUNG | 08-19-08 | 1X4 gigabit MagJack®<br>(12 cores, Tab Up) | 0826-1K4T-23           | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : C  |
| DRAWN BY      | DATE     |                                            | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |
| LEE WEIDE     | 08-19-08 |                                            | 0826-1K4T-23_C.DWG     | .XX<br>.XXX   |                              | PAGE : 2  |

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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# NOTES:

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

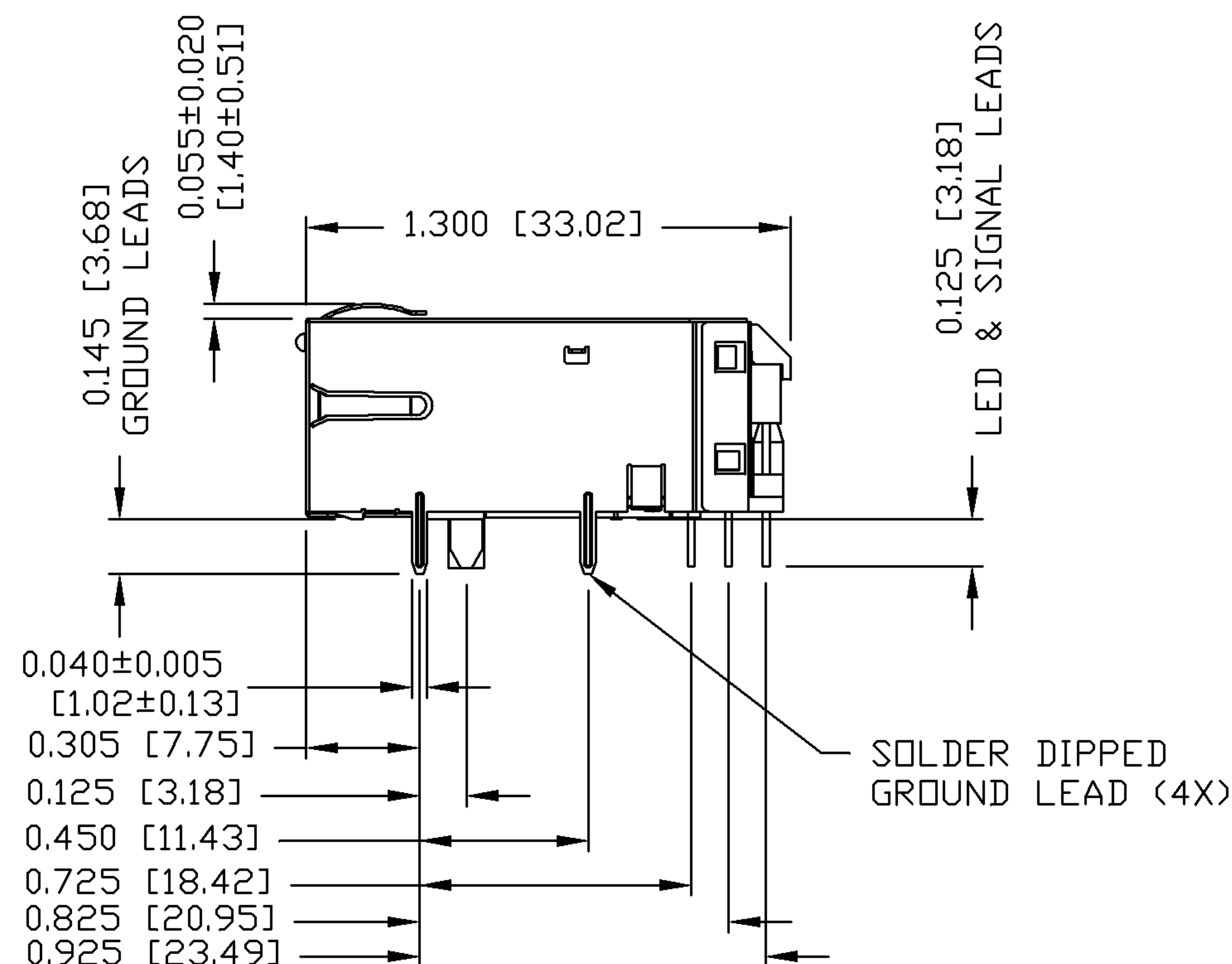
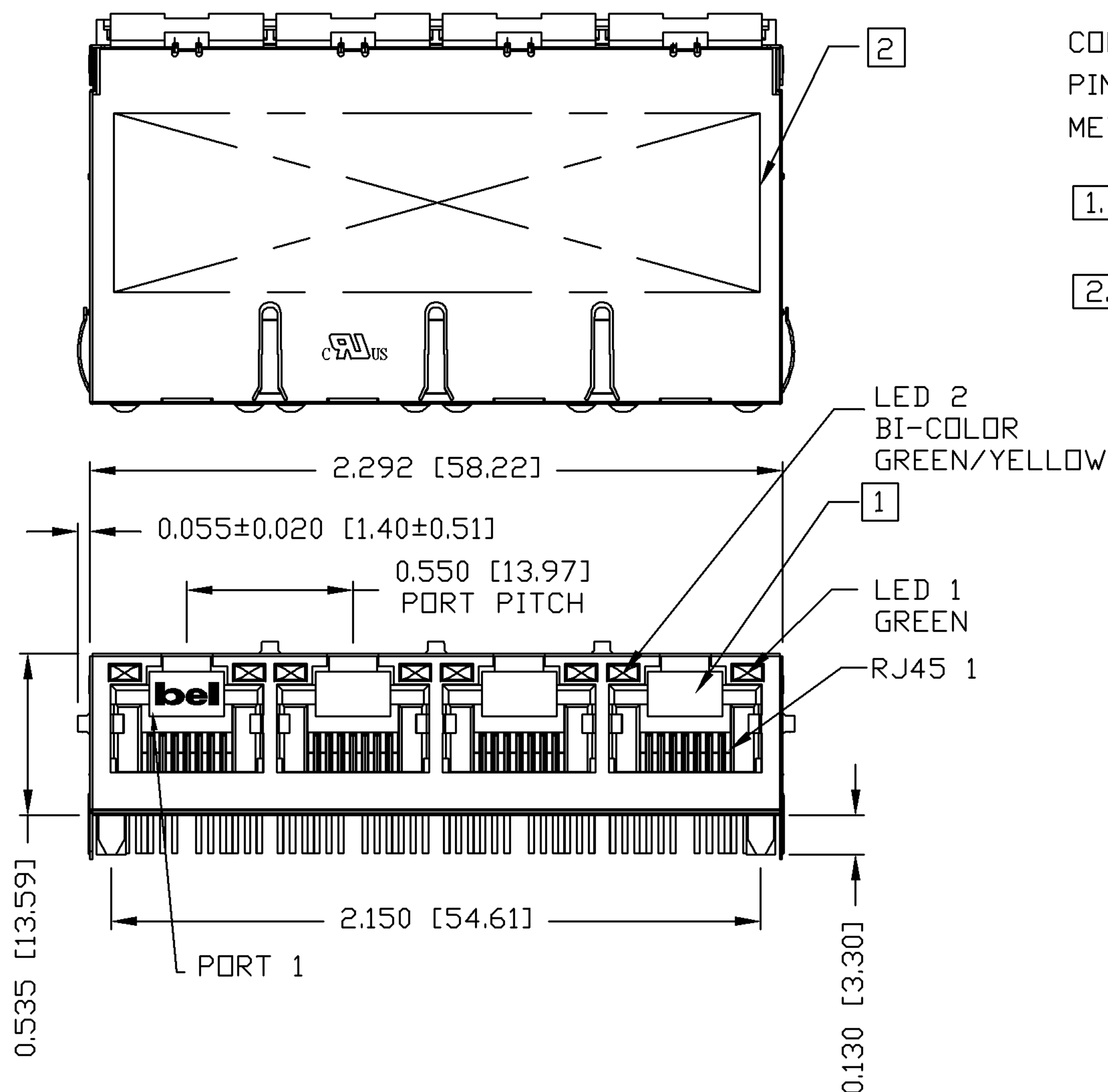
CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING

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

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

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS,  
PART 68 SUBPART F.
2. MARK PART WITH MFG. LOGO; MFG. NAME; PART NUMBER; DATE CODE.

**UL** US UL RECOGNIZED - FILE #E196366 AND E169987.



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|---------------|----------|--------------------------------------------|------------------------|-------------------------------|------------------------------|
| ZX HUANG      | 08-19-08 | 1X4 gigabit MagJack®<br>(12 cores, Tab Up) | 0826-1K4T-23           | .X                            | UNIT : INCH [mm] REV. : C    |
| DRAWN BY      | DATE     |                                            | FILE NAME              | .XX                           | SCALE : N/A SIZE : A4        |
| BL CHEN       | 08-19-08 |                                            | 0826-1K4T-23_C.DWG     | .XXX ±0.010                   | PAGE : 3                     |

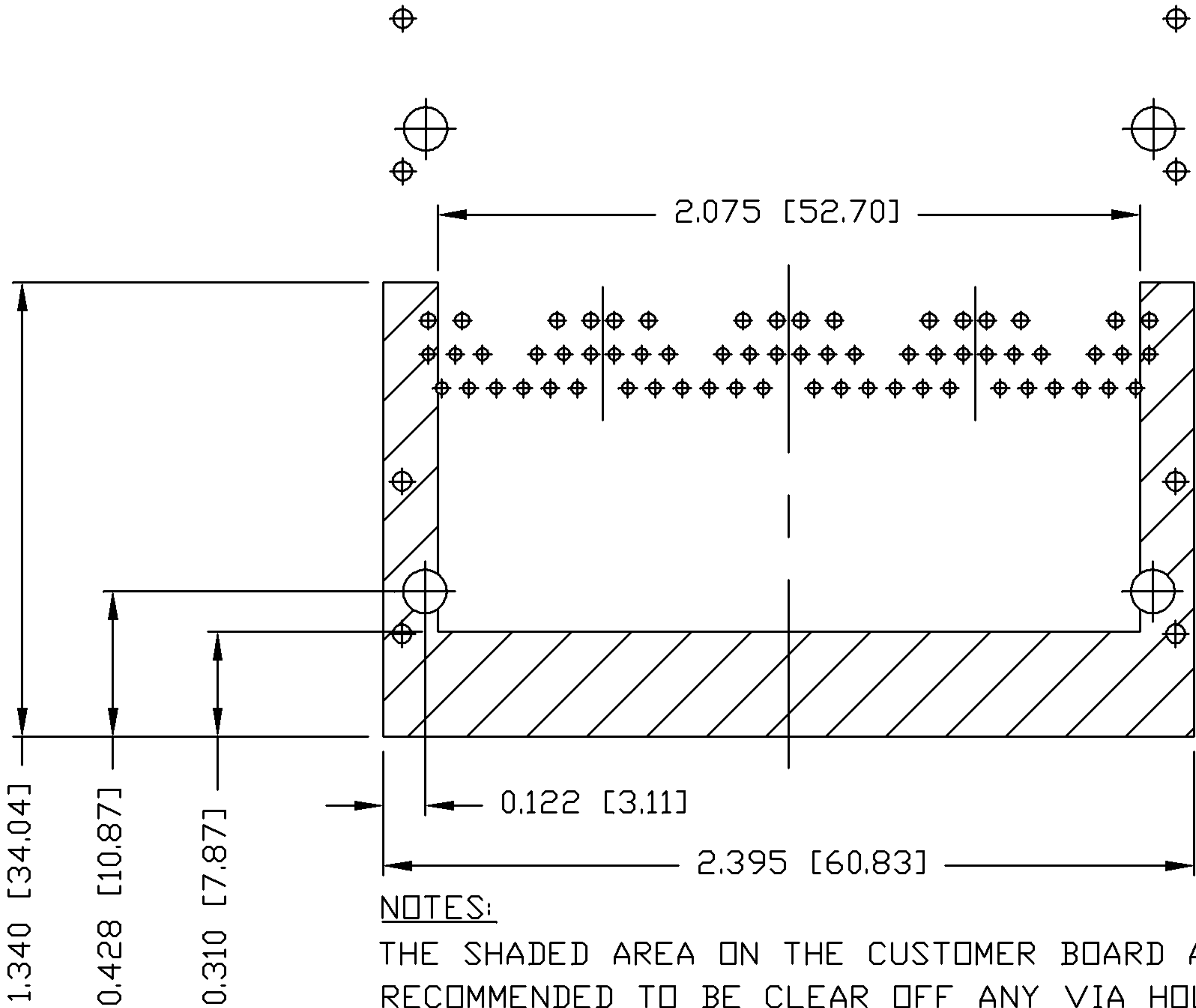
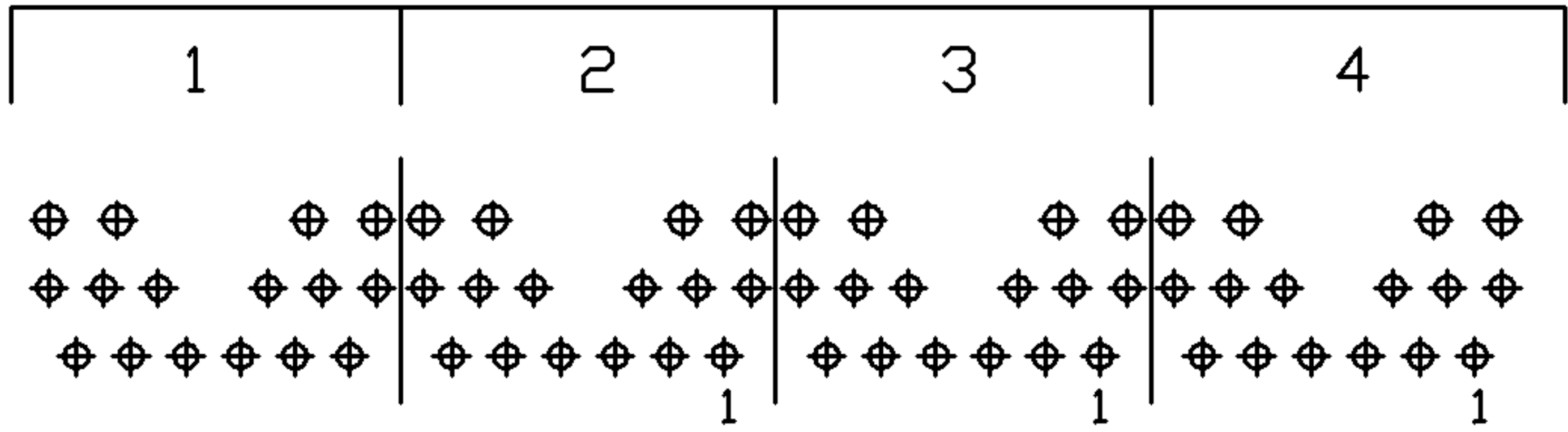


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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

|    |       |
|----|-------|
| 12 | TRCT1 |
| 11 | TRD1+ |
| 10 | TRD1- |
| 9  | TRD4- |
| 8  | TRD4+ |
| 7  | TRCT4 |
| 6  | TRCT2 |
| 5  | TRD2- |
| 4  | TRD2+ |
| 3  | TRD3+ |
| 2  | TRD3- |
| 1  | TRCT3 |

PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)

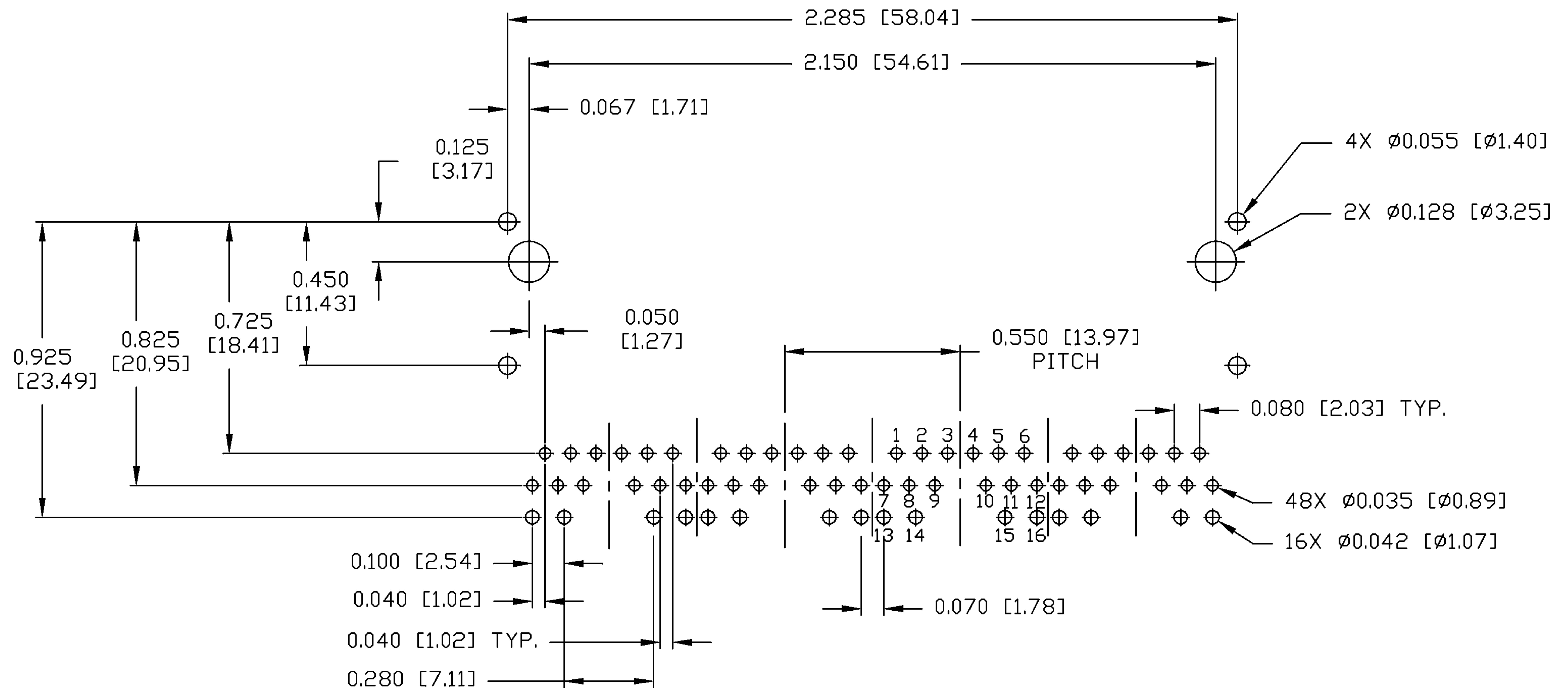


NOTES:

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

|               |          |                                                             |                        |  |               |  |                              |  |                                                                                                                                  |  |
|---------------|----------|-------------------------------------------------------------|------------------------|--|---------------|--|------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|
| ORIGINATED BY | DATE     | TITLE<br><br>1X4 gigabit MagJack®<br><br>(12 cores, Tab Up) | PART NO. / DRAWING NO. |  | STANDARD DIM. |  | [ ] METRIC DIM. AS REFERENCE |  | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |  |
| ZX HUANG      | 08-19-08 |                                                             | 0826-1K4T-23           |  | TOL. IN INCH  |  | UNIT : INCH [mm]             |  |                                                                                                                                  |  |
| DRAWN BY      | DATE     |                                                             | FILE NAME              |  | .X            |  | SCALE : N/A                  |  |                                                                                                                                  |  |
| BL CHEN       | 08-19-08 |                                                             | 0826-1K4T-23_C.DWG     |  | .XX           |  | SIZE : A4                    |  |                                                                                                                                  |  |
|               |          |                                                             |                        |  | .XXX          |  | ±0.004                       |  | PAGE : 4                                                                                                                         |  |

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RECOMMENDED PCB FOOTPRINT

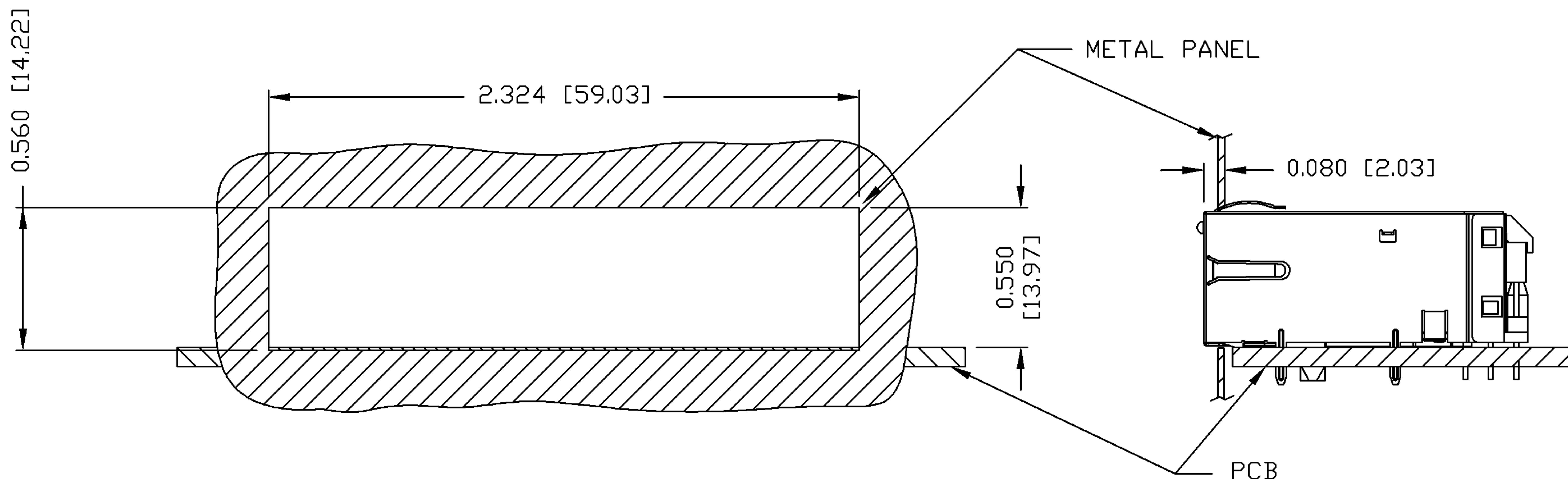
COMPONENT SIDE VIEW

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| BL CHEN       | 08-19-08 |                                            | 0826-1K4T-23_C.DWG     | .XXX ±0.004                   | PAGE : 5                     |



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## 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-B4 (TOP)

0200-9999-B5 (BOTTOM)

PACKING QUANTITY : 24 PCS FINISHED GOODS PER TRAY

10 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX

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

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| BL CHEN       | 08-19-08 |                                            | 0826-1K4T-23_C.DWG     | .XXX ±0.004                   | PAGE : 6                     |

