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RoHS  
2002/95/EC



| LED1 POLARITY |        |       | LED2 POLARITY |        |        |              |
|---------------|--------|-------|---------------|--------|--------|--------------|
| PIN 13        | PIN 14 | COLOR | PIN 15        | PIN 16 | PIN 17 | COLOR        |
| -             | +      | GREEN | /             | +      | -      | GREEN        |
| /             | /      | /     | -             | +      | /      | ORANGE       |
| /             | /      | /     | -             | +      | -      | MIXED YELLOW |

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

ΩCL @ 100kHz/100mVRMS

8mA DC BIAS (0-70°C) 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) @ 100 ΩHMS +/-15%

|              |                       |
|--------------|-----------------------|
| 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

100% OF PRODUCTION TESTED TO COMPLY WITH  
IEEE 802.3 ISOLATION REQUIREMENTS.

LED 1

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

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

LED 2

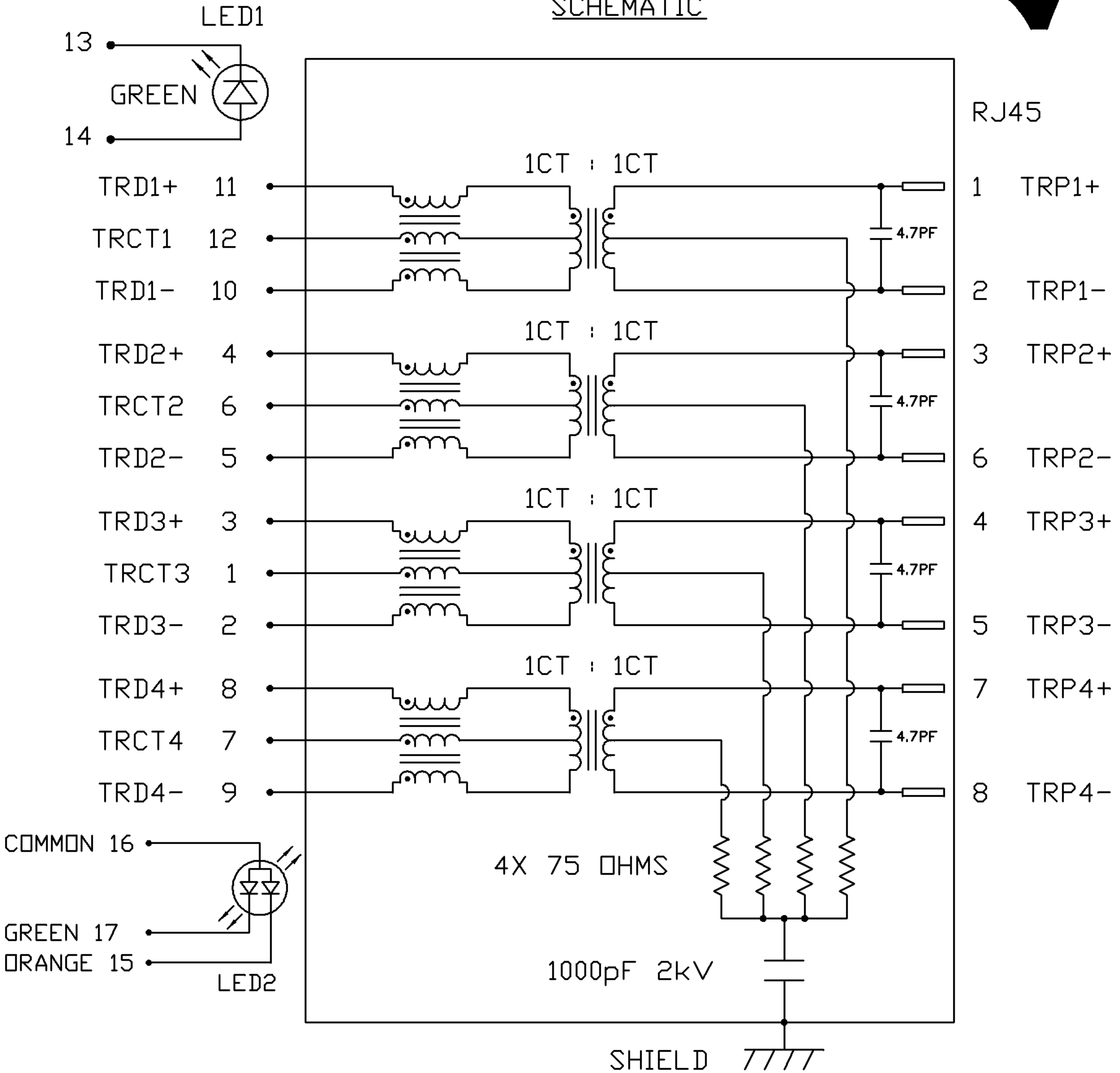
VF (FORWARD VOLTAGE) IF=20mA YELLOW GREEN 2.2V TYP.  
AMBER 2.1V TYP.

λ D (DOMINANT WAVELENGTH) IF=20mA YELLOW GREEN 570nm TYP.  
AMBER 607nm TYP.

MIXED YELLOW DOES NOT HAVE SPECIFIC WAVELENGTH.

PRELIMINARY

SCHEMATIC



| ORIGINATED BY |  | DATE     | TITLE<br><br>gigabit MagJack®<br>(Ultra Low Profile) | PART NO. / DRAWING NO. | STANDARD DIM. |             | [ ] METRIC DIM. AS REFERENCE |  | <div>bel</div> <div>COMPONENTS FOR A<br/>CONNECTED<br/>PLANET</div> |
|---------------|--|----------|------------------------------------------------------|------------------------|---------------|-------------|------------------------------|--|---------------------------------------------------------------------|
| CHOW WANCHUNG |  | 05-15-08 |                                                      | L829-1T1T-43           | TOL. IN INCH  |             | UNIT : INCH [mm] REV. : PA   |  |                                                                     |
| DRAWN BY      |  | DATE     |                                                      | FILE NAME              | .X            | <div></div> | SCALE : N/A SIZE : A4        |  |                                                                     |
| DENG PING     |  | 05-15-08 |                                                      | L829-1T1T-43_PA.DWG    | .XX           |             | PAGE : 2                     |  |                                                                     |
|               |  |          |                                                      | .XXX                   |               |             |                              |  |                                                                     |

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## MECHANICAL SPECIFICATION

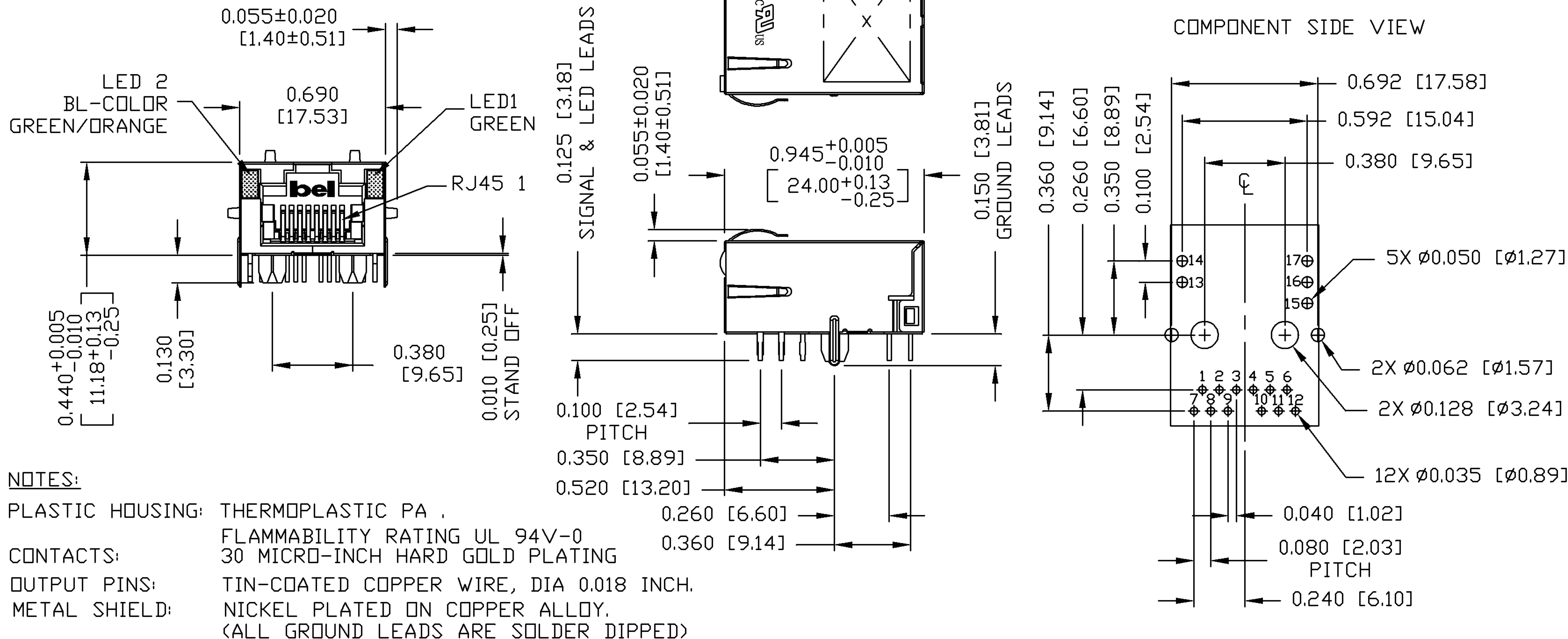
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## RECOMMENDED PCB FOOTPRINT

### COMPONENT SIDE VIEW



### NOTES:

PLASTIC HOUSING: THERMOPLASTIC PA ,  
FLAMMABILITY RATING UL 94V-0  
CONTACTS: 30 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 (L829-1T1T-43) AND DATE CODE.

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

UL US UL RECOGNIZED - FILE #E196366 AND E169987.

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

| ORIGINATED BY | DATE     | TITLE                                   | PART NO. / DRAWING NO. | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|---------------|----------|-----------------------------------------|------------------------|-------------------------------|------------------------------|
| ZX HUANG      | 05-15-08 | gigabit MagJack®<br>(Ultra Low Profile) | L829-1T1T-43           | .X                            | UNIT : INCH [mm] REV. : PA   |
| DRAWN BY      | DATE     |                                         | FILE NAME              | .XX                           | SCALE : N/A SIZE : A4        |
| LU XUEPING    | 05-15-08 |                                         | L829-1T1T-43_PA.DWG    | .XXX ±0.010                   | PAGE : 3                     |



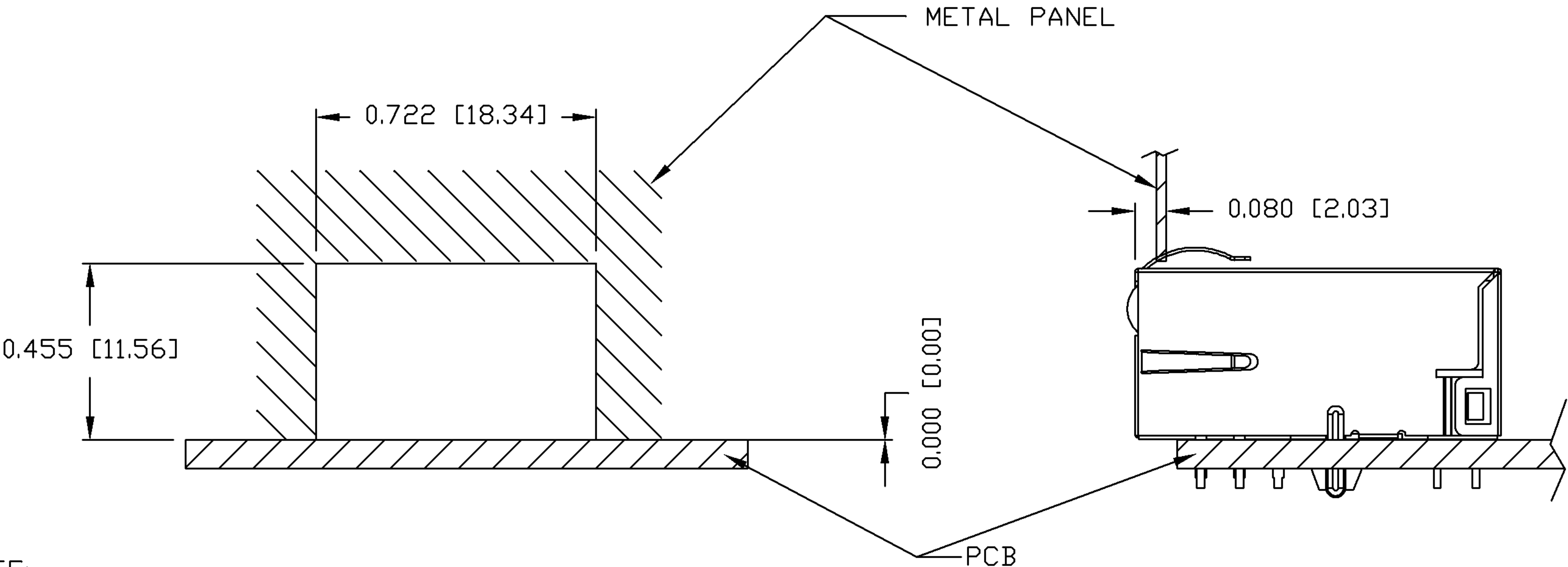
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SUGGESTED PANEL OPENING

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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.

TRAY PACKING INFORMATION

PACKING TRAY : 0200-9999-E4 (TOP)  
0200-9999-E5 (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 |           |
|---------------|----------|-----------------------------------------|------------------------|---------------|------------------------------|-----------|
| ZX HUANG      | 05-15-08 | gigabit MagJack®<br>(Ultra Low Profile) | L829-1T1T-43           | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : PA |
| DRAWN BY      | DATE     |                                         | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |
| LU XUEPING    | 05-15-08 |                                         | L829-1T1T-43_PA.DWG    | .XX           |                              | PAGE : 4  |
|               |          |                                         |                        | .XXX          | ±0.004                       |           |

