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| LED 2 & 4 POLARITY |        |        | LED 1 & 3 POLARITY |        |        |
|--------------------|--------|--------|--------------------|--------|--------|
| PIN 13             | PIN 14 | COLOR  | PIN 15             | PIN 16 | COLOR  |
| +                  | -      | YELLOW | +                  | -      | 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% |

## OCL @ 100kHz/100mVRMS

### FOR CHANNEL 1 AND CHANNEL 2

11mA DC BIAS 350μH MIN.

Compliant to IEEE 802.3at specification

### FOR CHANNEL 3 AND CHANNEL 4

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) @ 100ΩHMS ±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): 2250 VDC

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 720 mA MAX. @ 57 VDC CONTINUOUS

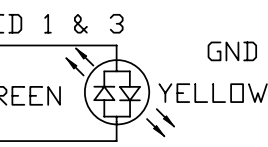
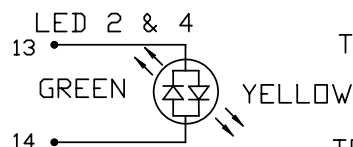
1.2A MAX. @ 57 VDC FOR 200 MILLISECONDS

## LED 1 & 2 & 3 & 4

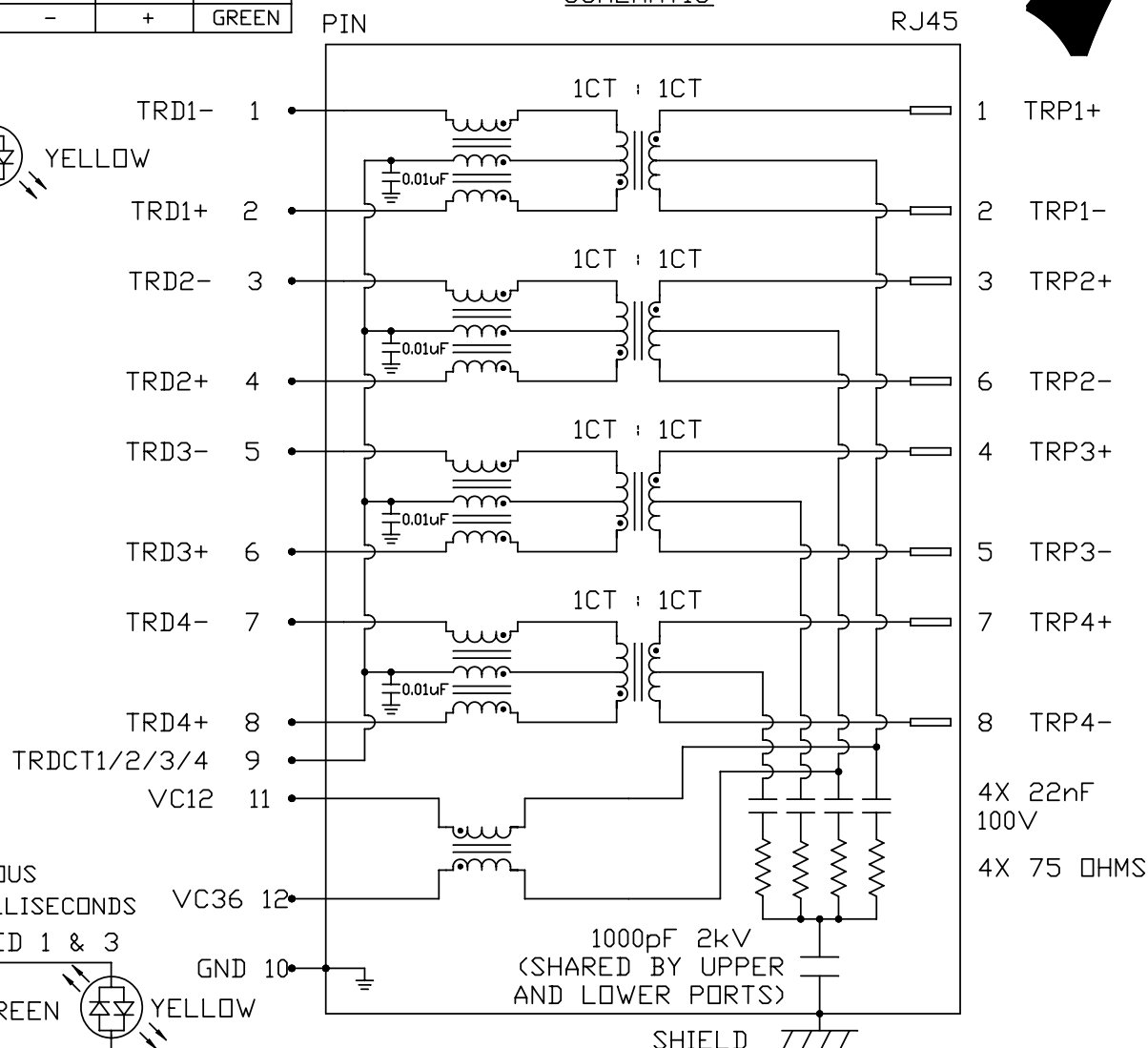
VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.  
YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.  
YELLOW 590nm TYP.

OPERATING TEMPERATURE -40°C TO +85°C



## SCHEMATIC



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| ORIGINATED BY | DATE       |
|---------------|------------|
| CHOW WANCHUNG | 2011-12-01 |
| DRAWN BY      | DATE       |
| TAN QIGUANG   | 2011-12-01 |

| TITLE                                                                   |
|-------------------------------------------------------------------------|
| 2X4 gigabit MagJack®<br>PoEp<br>(WITH EXTENDED TEMPERATURE)<br>PATENTED |

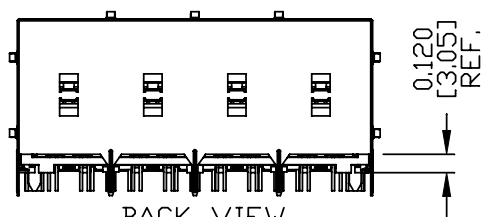
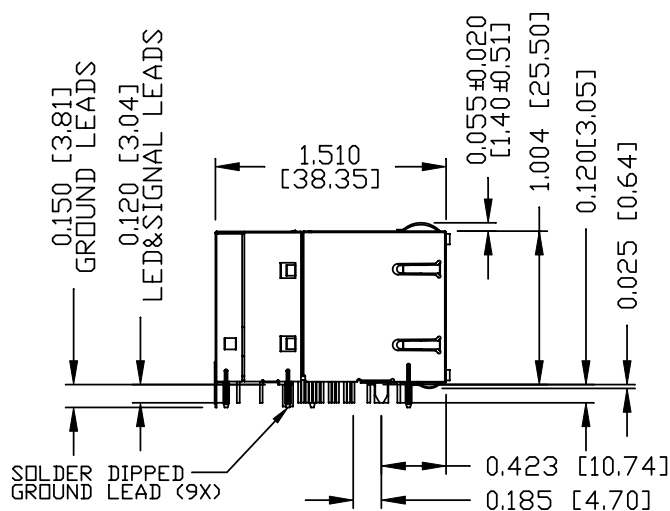
| PART NO. / DRAWING NO. |
|------------------------|
| 0895-2C4R-GK           |
| FILE NAME              |
| 0895-2C4R-GK_A.DWG     |

| STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|-------------------------------|------------------------------|
| .X                            | UNIT : INCH [mm]             |
| .XX                           | SCALE : N/A                  |
| .XXX                          | SIZE : A4                    |
|                               | PAGE : 2                     |



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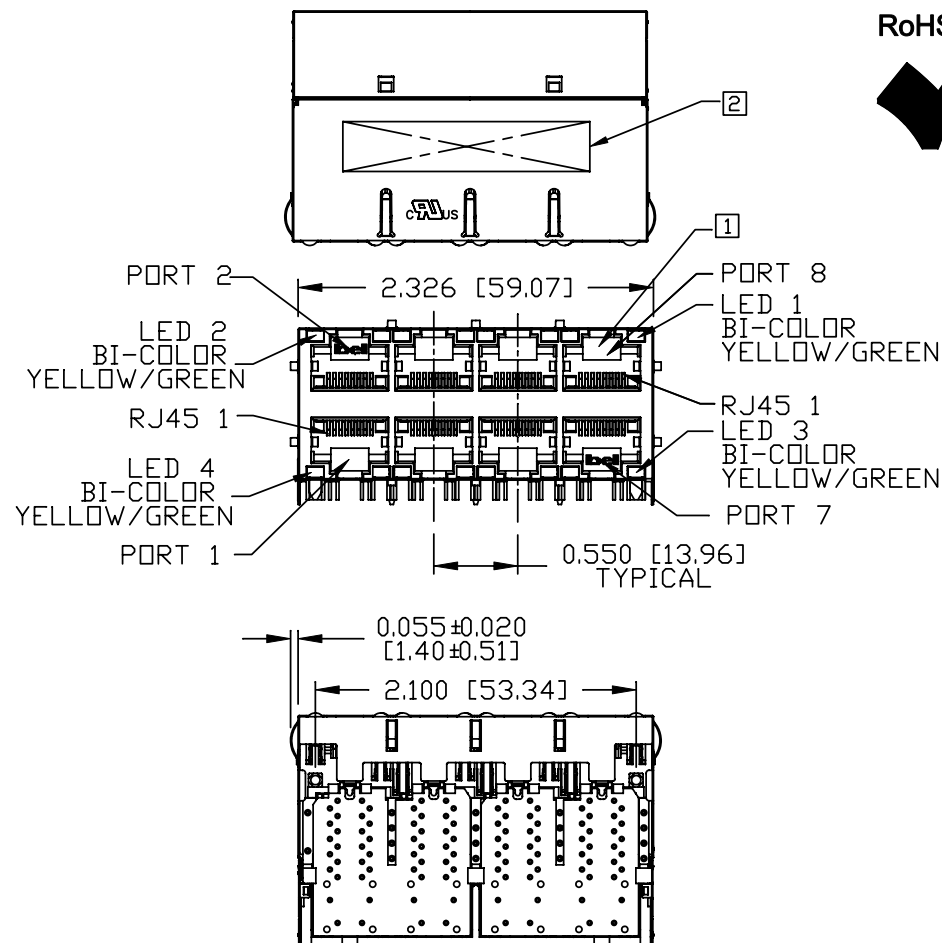
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#### NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0  
CONTACT PLATING: 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] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- [2] MARK PART WITH MFG LOGO, PART NUMBER, DATE CODE, MFG NAME AND PATENTED.



3. THE PRODUCT IS RoHS COMPLIANT.

cULusUL RECOGNIZED - FILE #E196366 AND E169987.

4. REVERSED POLARITY OF GENERAL 'C' LED.

5. THE PRODUCT IS PATENT PRODUCT. THE PATENT NUMBER ARE U.S. PAT. 5,736,910 AND U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.

| ORIGINATED BY | DATE       | TITLE                                                                   | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |
|---------------|------------|-------------------------------------------------------------------------|------------------------|----------------------------|------------------------------|
| ANTON LIAD    | 2011-12-01 | 2X4 gigabit MagJack®<br>PoEp<br>(WITH EXTENDED TEMPERATURE)<br>PATENTED | 0895-2C4R-GK           | .X                         | UNIT : INCH [mm] REV. : A    |
| DRAWN BY      | DATE       |                                                                         | FILE NAME              | .XX                        | SCALE : N/A SIZE : A4        |
| JESSE LI      | 2011-12-01 |                                                                         | 0895-2C4R-GK_A.DWG     | .XXX ±0.010                | PAGE : 3                     |

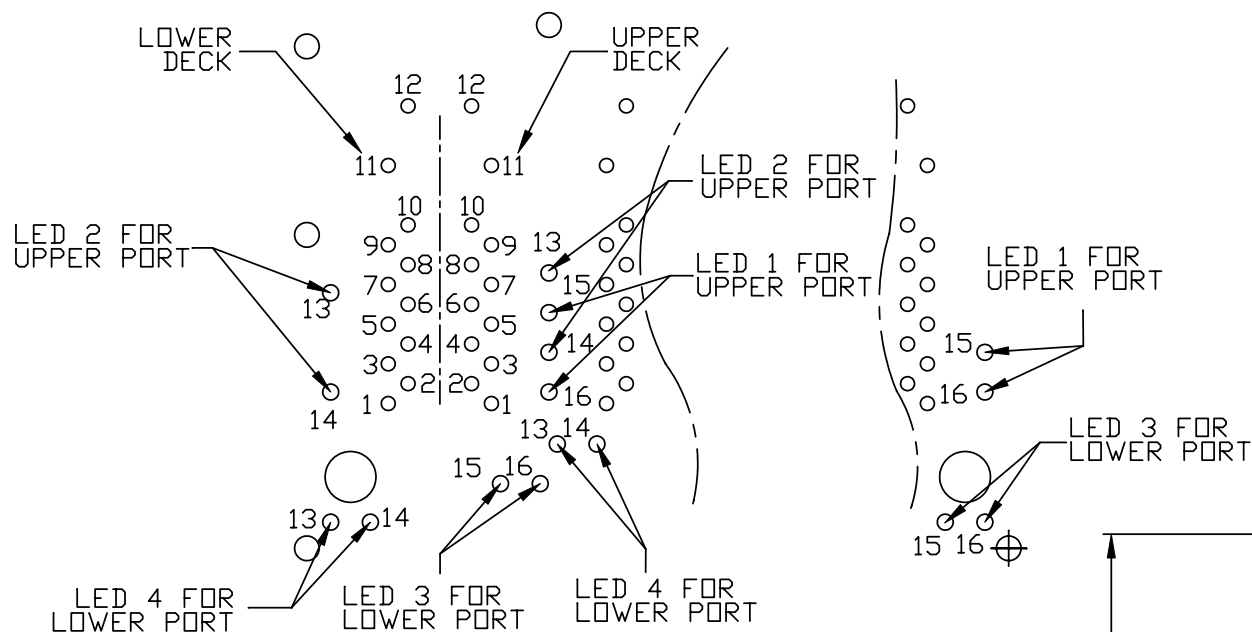
DC002(2)081111

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**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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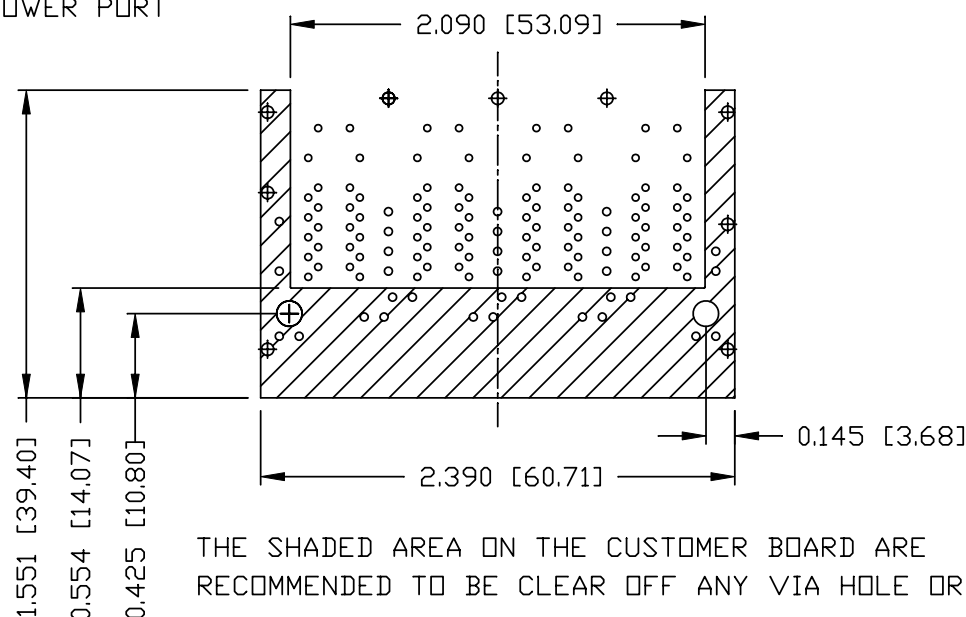
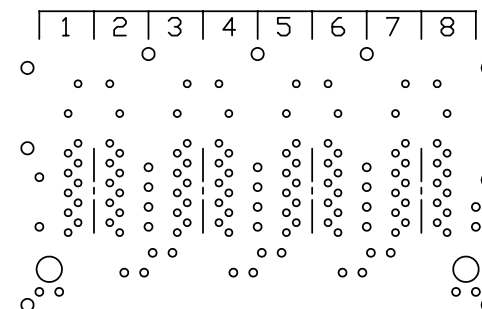
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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

|    |              |    |               |
|----|--------------|----|---------------|
| 10 | GND          |    |               |
| 9  | TRDCT1/2/3/4 |    |               |
| 8  | TRD 4+       |    |               |
| 7  | TRD 4-       |    |               |
| 6  | TRD 3+       | 16 | YEL(-) GRN(+) |
| 5  | TRD 3-       | 15 | YEL(+) GRN(-) |
| 4  | TRD 2+       | 14 | YEL(-) GRN(+) |
| 3  | TRD 2-       | 13 | YEL(+) GRN(-) |
| 2  | TRD 1+       | 12 | VC36          |
| 1  | TRD 1-       | 11 | VC12          |

PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



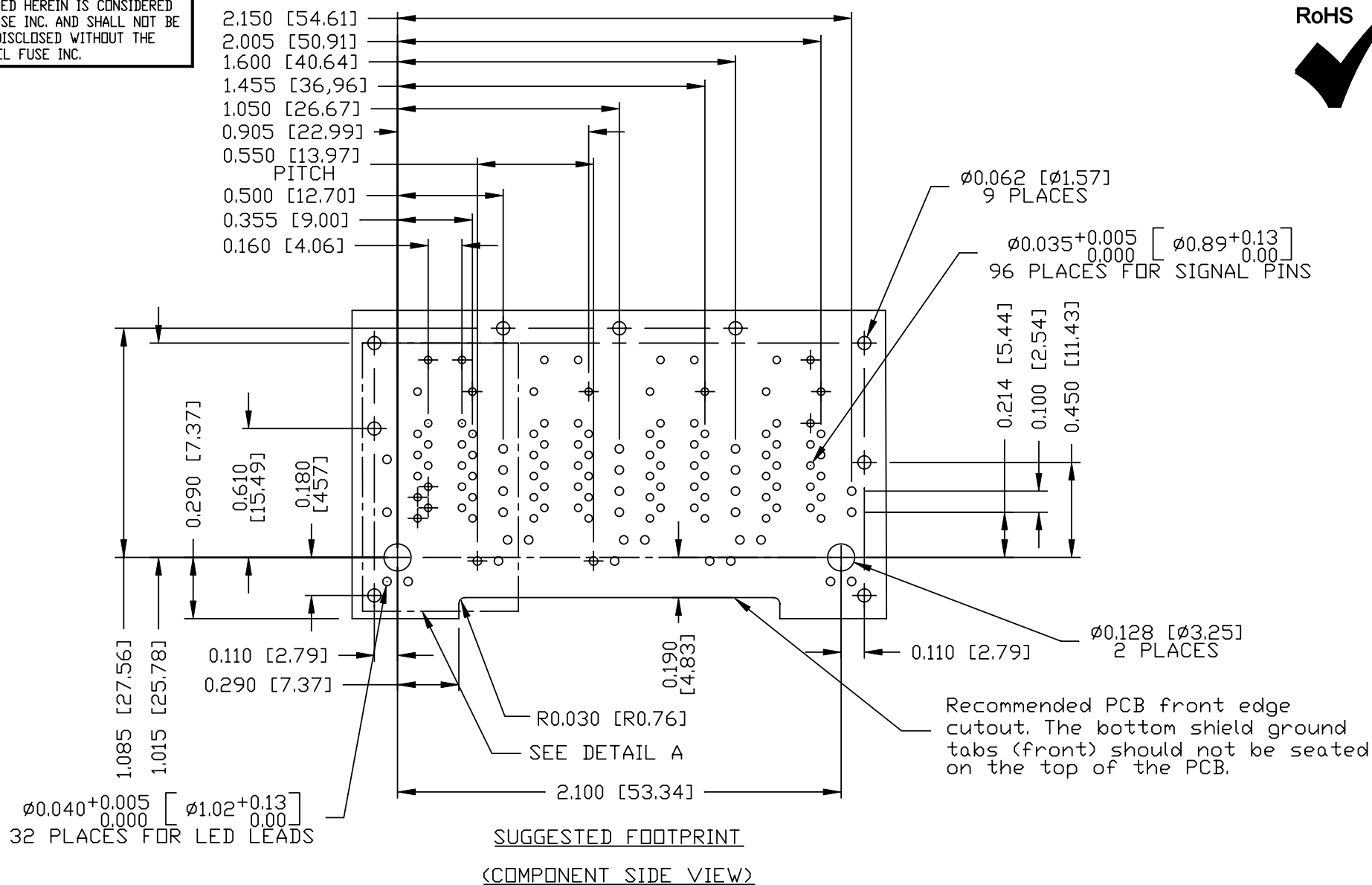
THE SHADED AREA ON THE CUSTOMER BOARD ARE  
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR  
COMPONENT PAD.

|                             |                    |                                                                                  |                                        |                               |        |                              |           |
|-----------------------------|--------------------|----------------------------------------------------------------------------------|----------------------------------------|-------------------------------|--------|------------------------------|-----------|
| ORIGINATED BY<br>ANTON LIAO | DATE<br>2011-12-01 | TITLE<br>2X4 glgabit MagJack®<br>PoEp<br>(WITH EXTENDED TEMPERATURE)<br>PATENTED | PART NO. / DRAWING NO.<br>0895-2C4R-GK | STANDARD DIM.<br>TOL. IN INCH |        | [ ] METRIC DIM. AS REFERENCE |           |
|                             |                    |                                                                                  |                                        | .X                            |        | UNIT : INCH [mm]             | REV. : A  |
| DRAWN BY<br>JESSE LI        | DATE<br>2011-12-01 |                                                                                  | FILE NAME<br>0895-2C4R-GK_A.DWG        | .XX                           |        | SCALE : N/A                  | SIZE : A4 |
|                             |                    |                                                                                  |                                        | .XXX                          | ±0.004 |                              | PAGE : 4  |



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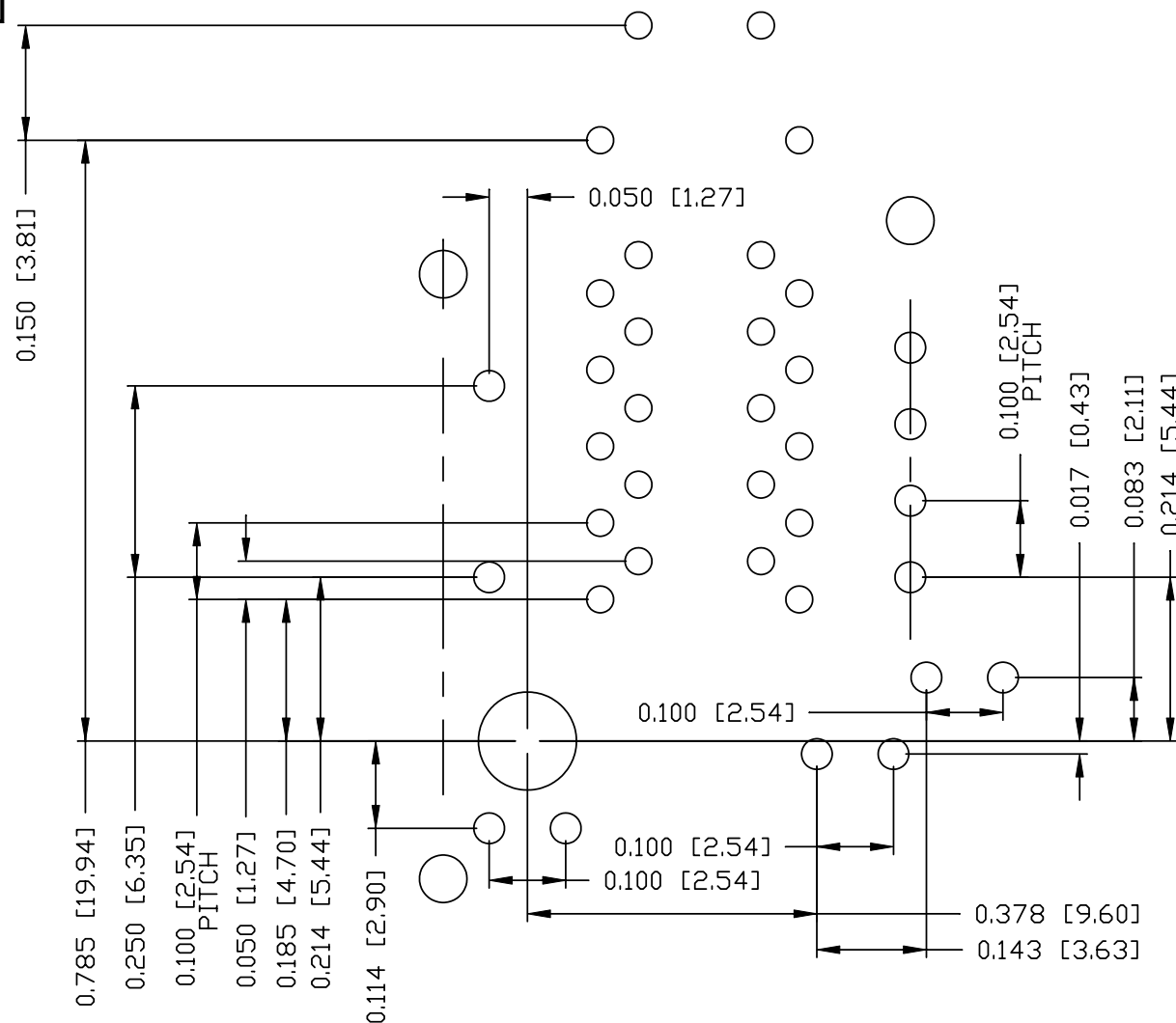
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|               |            |                                                                                  |                        |               |                                                                                       |                              |           |                                                                                                                                  |
|---------------|------------|----------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATED BY | DATE       | TITLE<br>2X4 glgabit MagJack®<br>PoEp<br>(WITH EXTENDED TEMPERATURE)<br>PATENTED | PART NO. / DRAWING NO. | STANDARD DIM. |                                                                                       | [ ] METRIC DIM. AS REFERENCE |           | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
| ANTON LIAD    | 2011-12-01 |                                                                                  | 0895-2C4R-GK           | TOL. IN INCH  |                                                                                       | UNIT : INCH [mm]             | REV. : A  |                                                                                                                                  |
| DRAWN BY      | DATE       |                                                                                  | FILE NAME              | .X            |  | SCALE : N/A                  | SIZE : A4 |                                                                                                                                  |
| JESSE LI      | 2011-12-01 | 0895-2C4R-GK_A.DWG                                                               | .XX                    | ⊕             |                                                                                       | PAGE : 5                     |           |                                                                                                                                  |
|               |            |                                                                                  | .XXX                   | ±0.004        |                                                                                       |                              |           |                                                                                                                                  |

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DETAIL A

|               |            |                                                                                      |                        |               |                                                                                       |                              |           |                                                                                                                                  |
|---------------|------------|--------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATED BY | DATE       | TITLE<br>2X4 gigabit MagJack®<br>PoEp<br><br>(WITH EXTENDED TEMPERATURE)<br>PATENTED | PART NO. / DRAWING NO. | STANDARD DIM. |                                                                                       | [ ] METRIC DIM. AS REFERENCE |           | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
| ANTON LIAO    | 2011-12-01 |                                                                                      | 0895-2C4R-GK           | TOL. IN INCH  |                                                                                       | UNIT : INCH [mm]             | REV. : A  |                                                                                                                                  |
| DRAWN BY      | DATE       |                                                                                      | FILE NAME              | .X            |                                                                                       | SCALE : N/A                  | SIZE : A4 |                                                                                                                                  |
| JESSE LI      | 2011-12-01 |                                                                                      | .XX                    |               |                                                                                       |                              | PAGE : 6  |                                                                                                                                  |
|               |            |                                                                                      | .XXX                   | ±0.004        |  |                              |           |                                                                                                                                  |

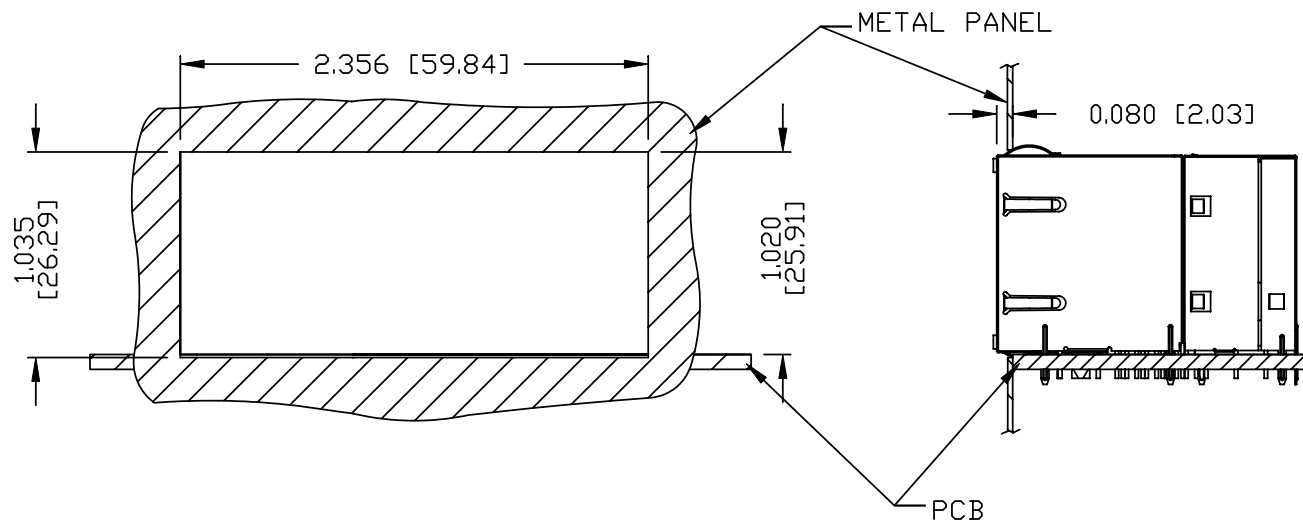
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### SUGGESTED PANEL OPENING



### 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-G2 (TOP)  
0200-9999-G3 (BOTTOM)

PACKING QUANTITY : 20 PCS FINISHED GOODS PER TRAY  
5 TRAYS (100 PCS FINISHED GOODS) PER CARTON BOX

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

|               |            |                                                                                  |                        |               |                                                                                       |                              |  |                                                                                                                                   |
|---------------|------------|----------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------|------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|
| ORIGINATED BY | DATE       | TITLE<br>2X4 gigabit MagJack®<br>PoEp<br>(WITH EXTENDED TEMPERATURE)<br>PATENTED | PART NO. / DRAWING NO. | STANDARD DIM. |                                                                                       | [ ] METRIC DIM. AS REFERENCE |  | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET™ |
| ANTON LIAO    | 2011-12-01 |                                                                                  | 0895-2C4R-GK           | TOL. IN INCH  |                                                                                       | UNIT : INCH [mm] REV. : A    |  |                                                                                                                                   |
| DRAWN BY      | DATE       |                                                                                  | FILE NAME              | .X            |                                                                                       | SCALE : N/A SIZE : A4        |  |                                                                                                                                   |
| JESSE LI      | 2011-12-01 | 0895-2C4R-GK_A.DWG                                                               | .XX                    |               | PAGE : 7                                                                              |                              |  |                                                                                                                                   |
|               |            |                                                                                  | .XXX                   | ±0.004        |  |                              |  |                                                                                                                                   |





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