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ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

DCL @ 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

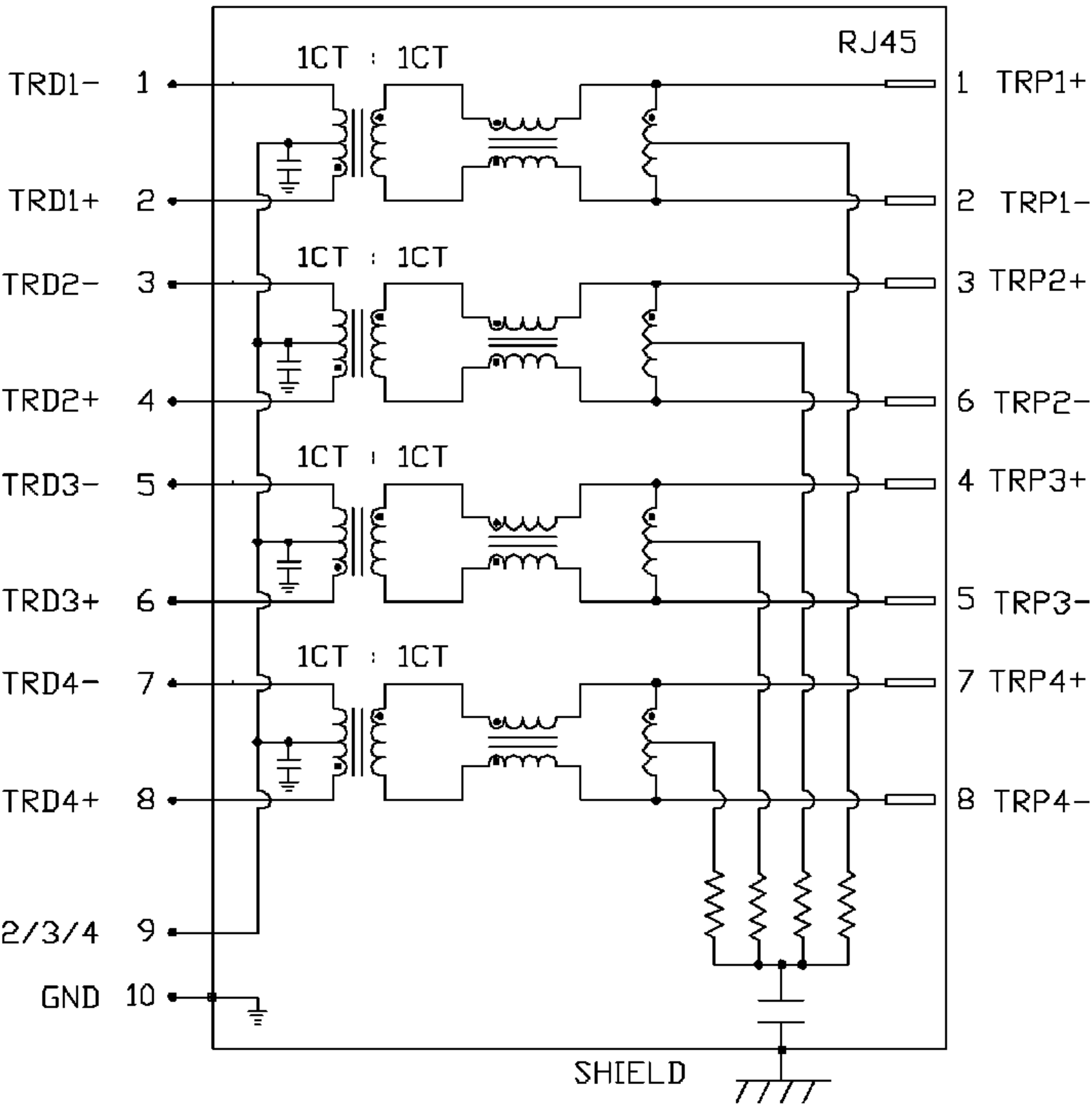
|                 |            |
|-----------------|------------|
| 100kHz - 100MHz | -30 dB MIN |
|-----------------|------------|

CM TO DM REJ

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

|                           |           |
|---------------------------|-----------|
| HIPOT (Isolation Voltage) | 1500 Vrms |
|---------------------------|-----------|

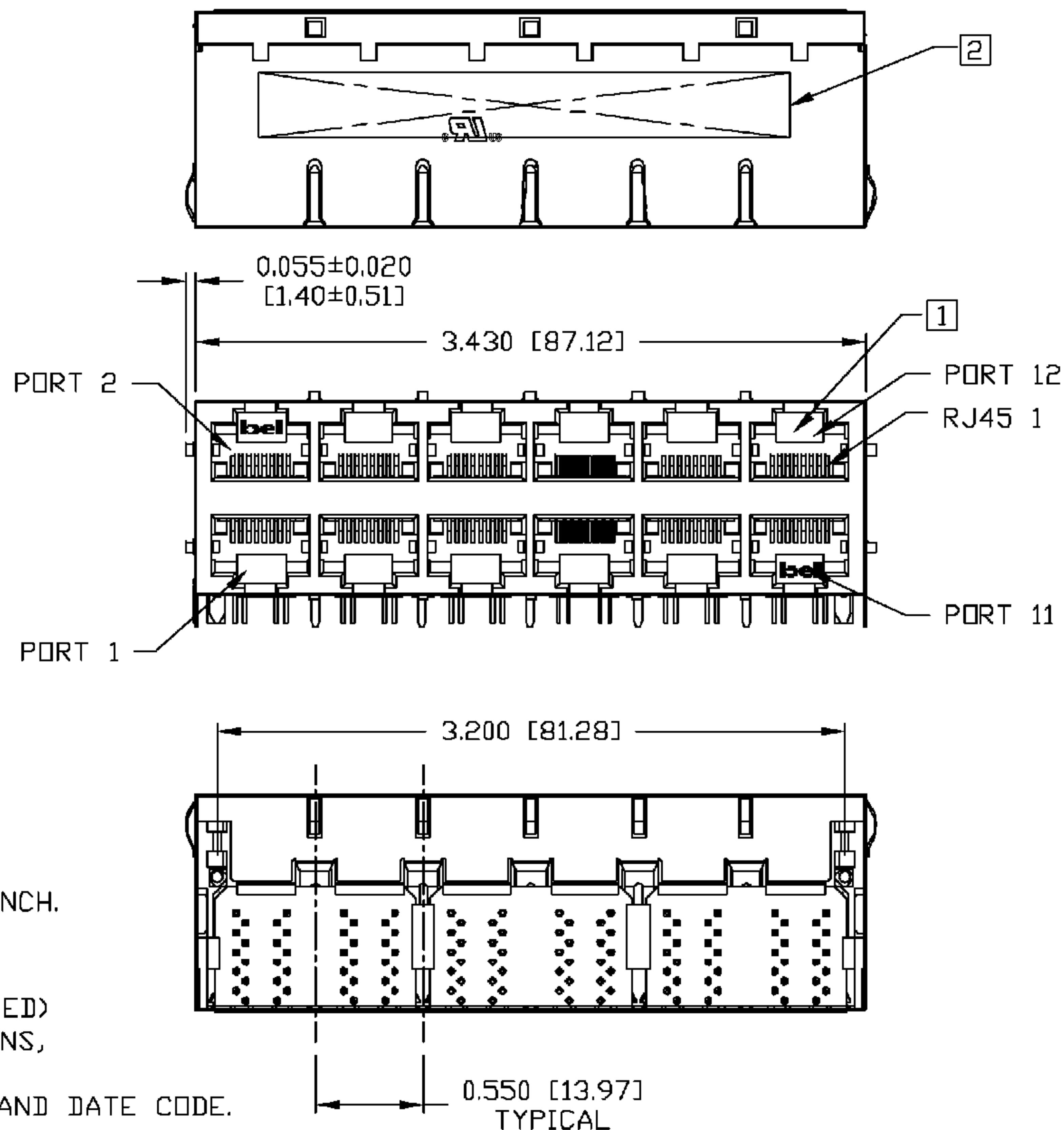
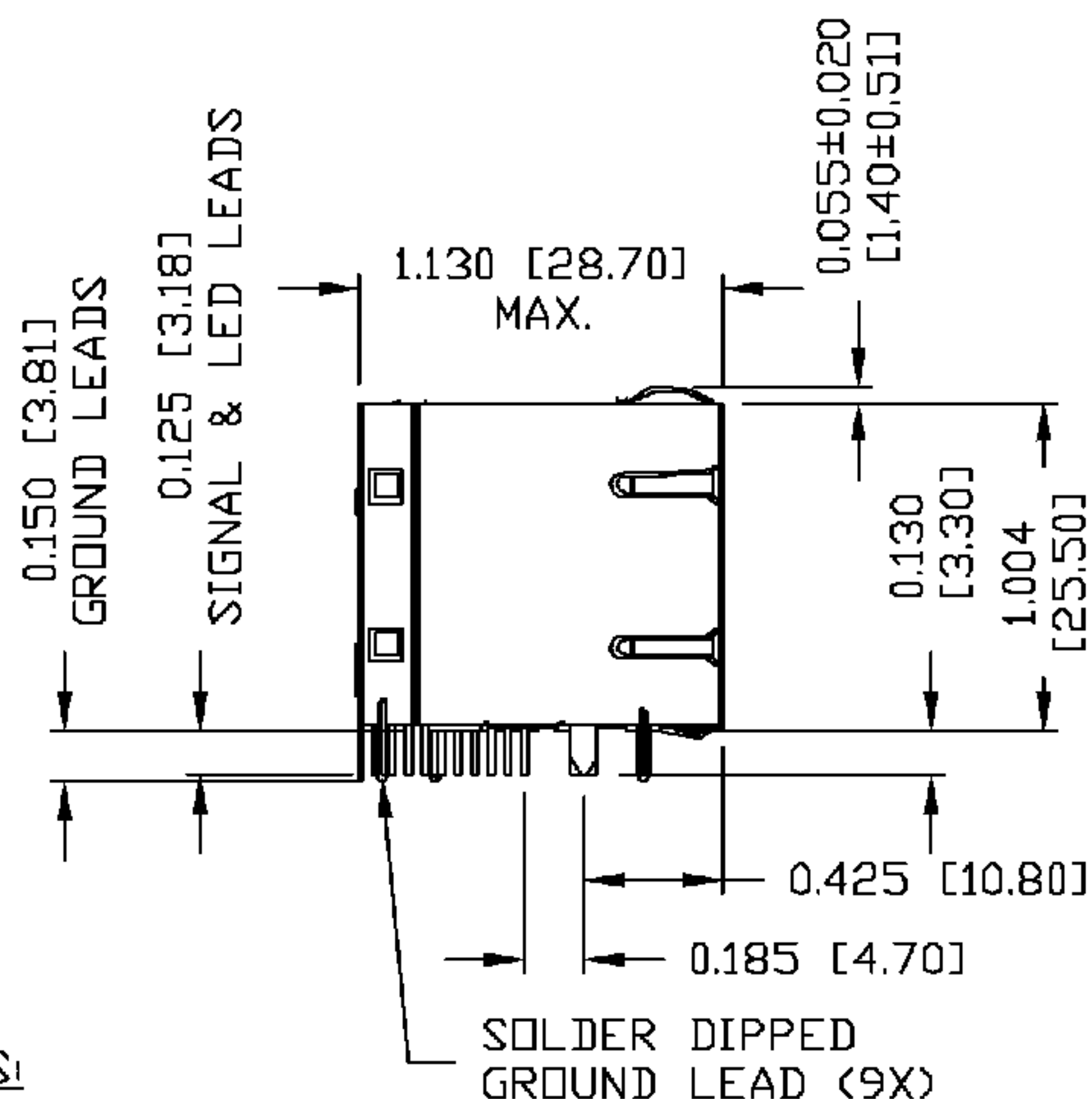
SCHEMATIC



|               |          |                                             |                                        |                                                    |                              |           |
|---------------|----------|---------------------------------------------|----------------------------------------|----------------------------------------------------|------------------------------|-----------|
| ORIGINATED BY | DATE     | TITLE<br>2X6 glgablt MagJack®<br>(12 Cores) | PART NO. / DRAWING NO.<br>0833-2X6R-33 | STANDARD DIM.<br>TOL. IN INCH<br>.X<br>.XX<br>.XXX | [ ] METRIC DIM. AS REFERENCE |           |
| CHUNG         | 09-13-05 |                                             |                                        |                                                    | UNIT : INCH [mm]             | REV. : H  |
| DRAWN BY      | DATE     |                                             |                                        |                                                    | SCALE : N/A                  | SIZE : A4 |
| DE            | 09-13-05 |                                             | FILE NAME<br>08332X6R33H.DWG           |                                                    |                              | PAGE : 2  |



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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.

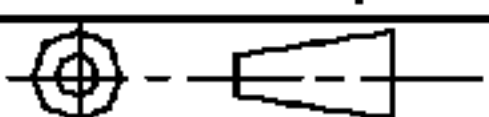
SOLDERABILITY: PER MIL STD. 202, METHOD 208.

METAL SHIELD: NICKEL PLATED COPPER ALLOY.

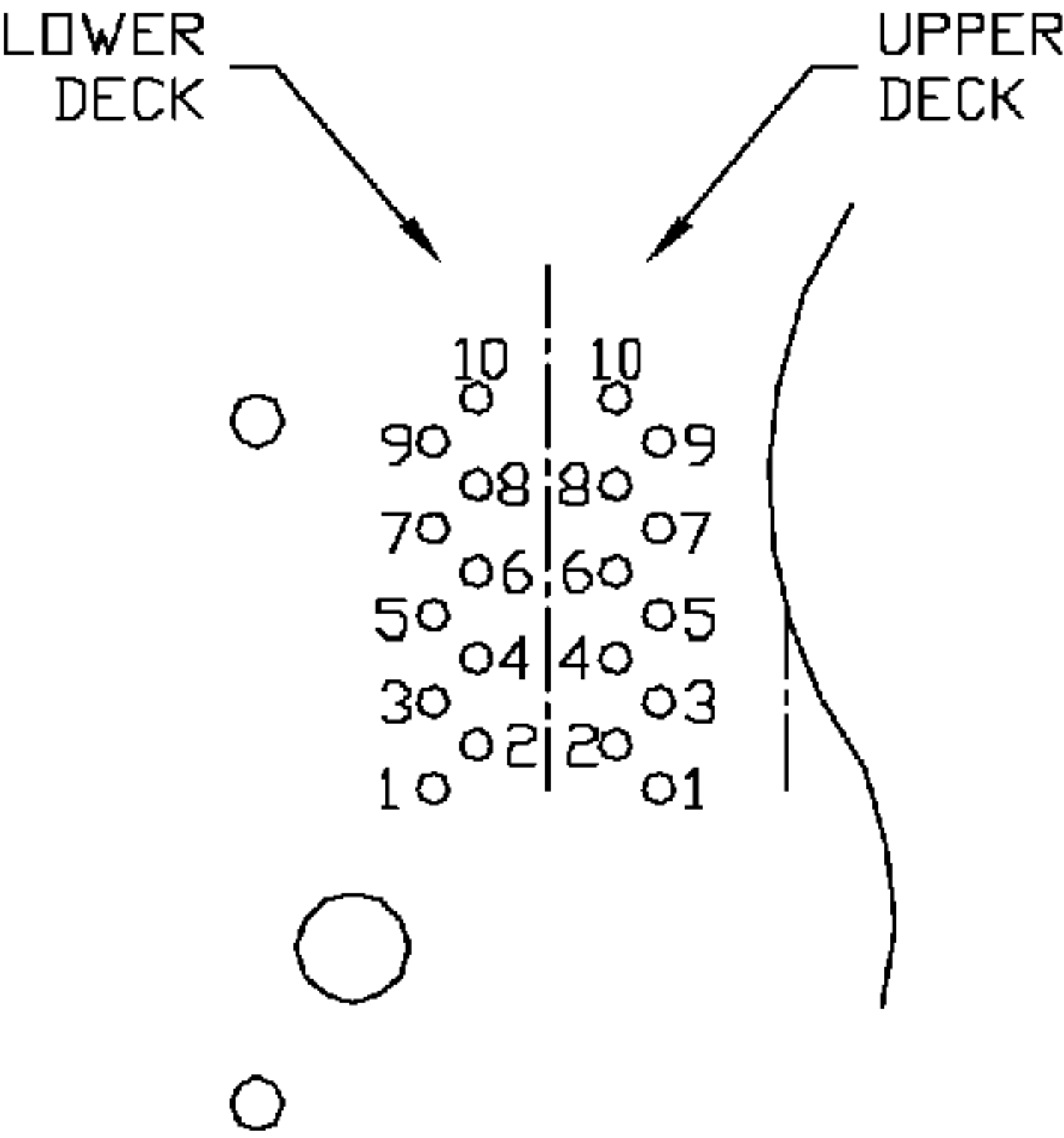
(ALL GROUND LEADS ARE SOLDER DIPPED)

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

c  USUL RECOGNIZED - FILE #E196366 AND E169987.

| ORIGINATED BY | DATE     | TITLE                             | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE                                                          |           |                                                                                       |
|---------------|----------|-----------------------------------|------------------------|----------------------------|---------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| BILL          | 09-13-05 | 2X6 glgabt MagJack®<br>(12 Cores) | 0833-2X6R-33           | X                          | UNIT : INCH [mm]                                                                      | REV. : H  |  |
| DRAWN BY      | DATE     |                                   | FILE NAME              | XX                         | SCALE : N/A                                                                           | SIZE : A4 |                                                                                       |
| SARAH         | 09-13-05 |                                   | 08332X6R33H.DWG        | XXX ±0.010                 |  | PAGE : 3  |                                                                                       |

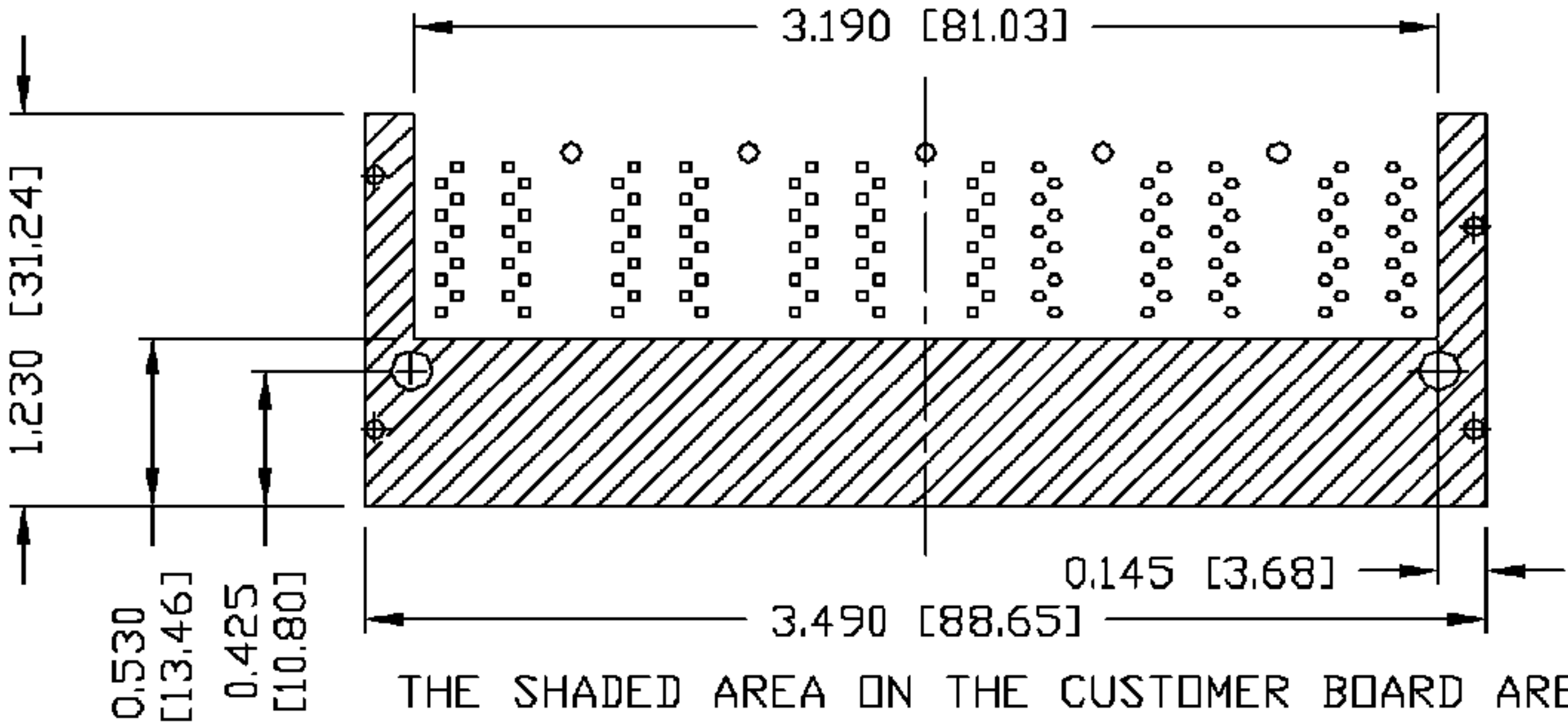
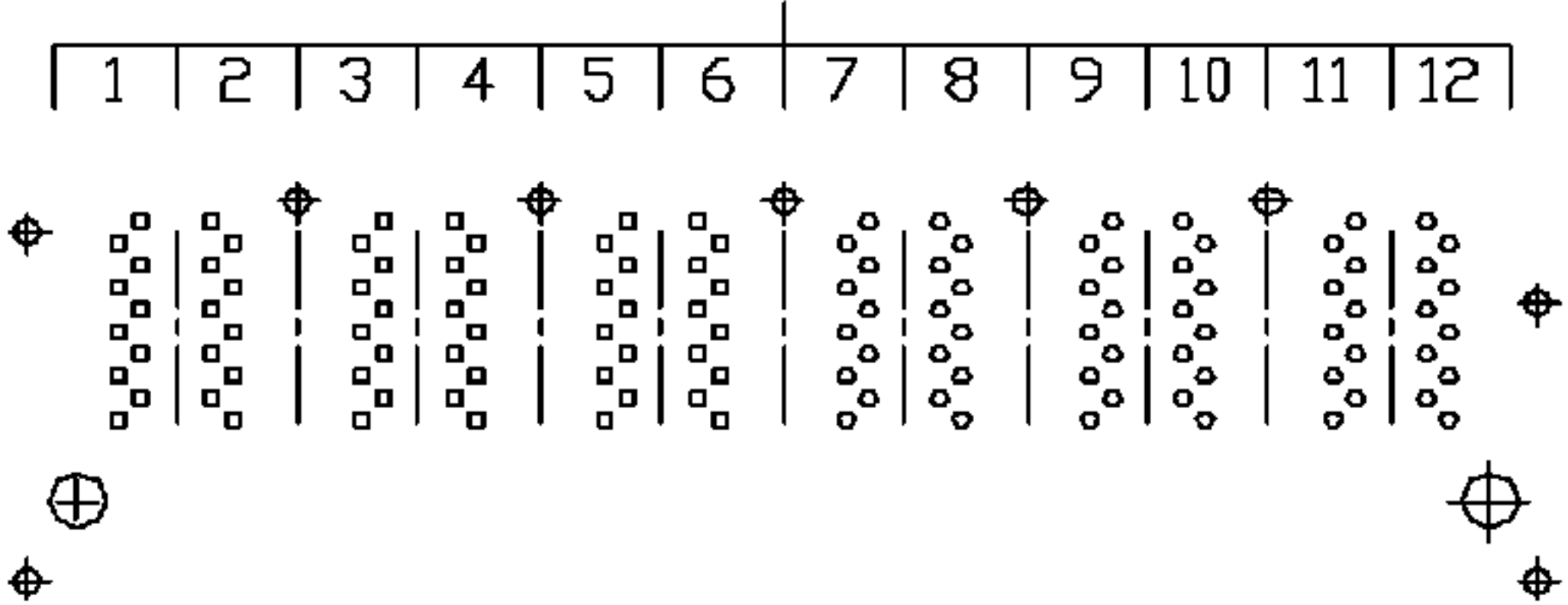
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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

|    |             |
|----|-------------|
| 10 | GND         |
| 9  | TRCT1/2/3/4 |
| 8  | TRD 4+      |
| 7  | TRD 4-      |
| 6  | TRD 3+      |
| 5  | TRD 3-      |
| 4  | TRD 2+      |
| 3  | TRD 2-      |
| 2  | TRD 1+      |
| 1  | TRD 1-      |

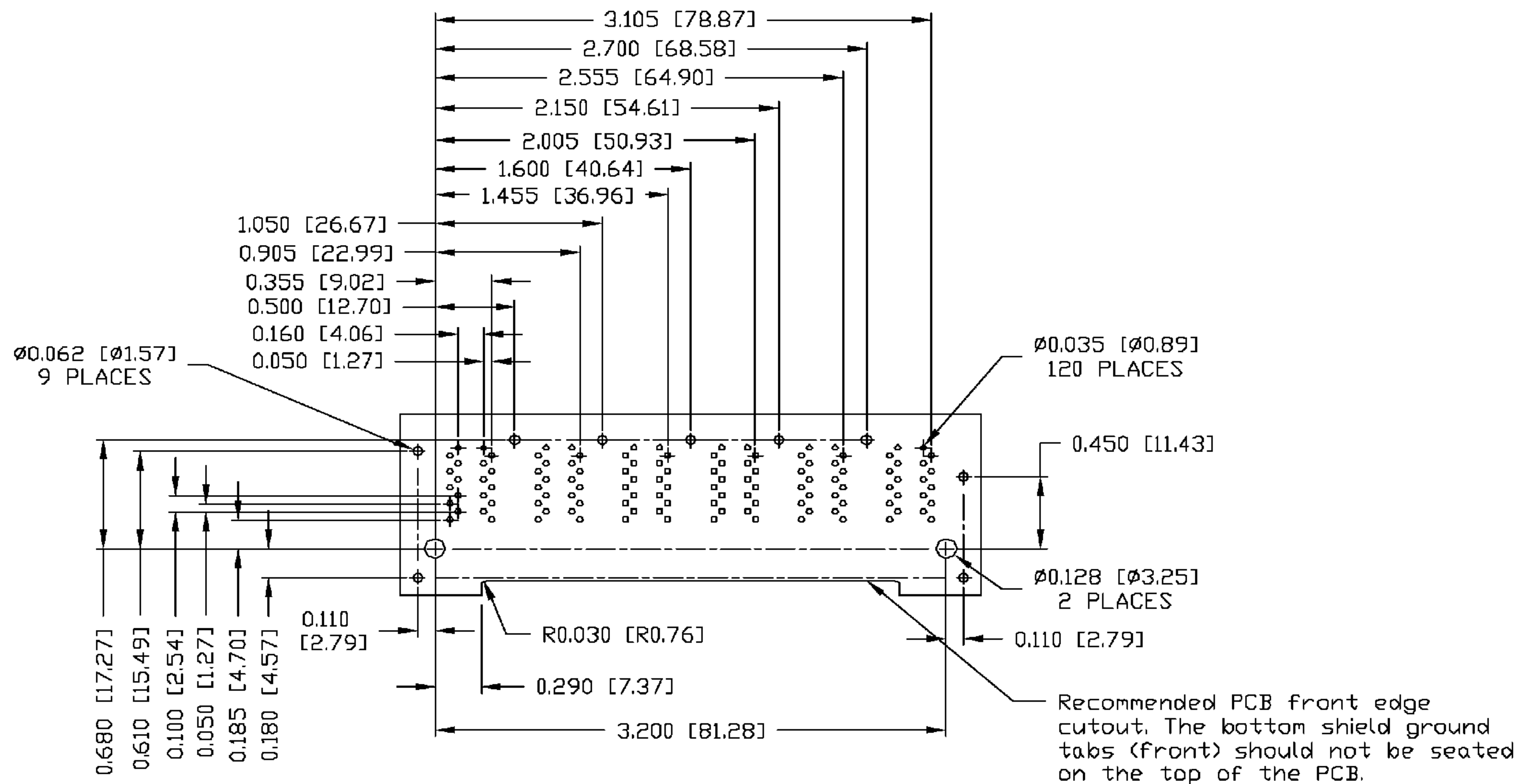
PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



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

|               |          |                                    |                        |               |                              |           |
|---------------|----------|------------------------------------|------------------------|---------------|------------------------------|-----------|
| ORIGINATED BY | DATE     | TITLE                              | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |           |
| BILL          | 09-13-05 | 2X6 gigabit MagJack®<br>(12 Cores) | 0833-2X6R-33           | TOL. IN INCH  | UNIT : INCH [mm]             | REV. : H  |
| DRAWN BY      | DATE     |                                    | FILE NAME              | .X            | SCALE : N/A                  | SIZE : A4 |
| SARAH         | 09-13-05 |                                    | 08332X6R33H.DWG        | .XX           |                              | PAGE : 4  |
|               |          |                                    |                        | .XXX          |                              |           |

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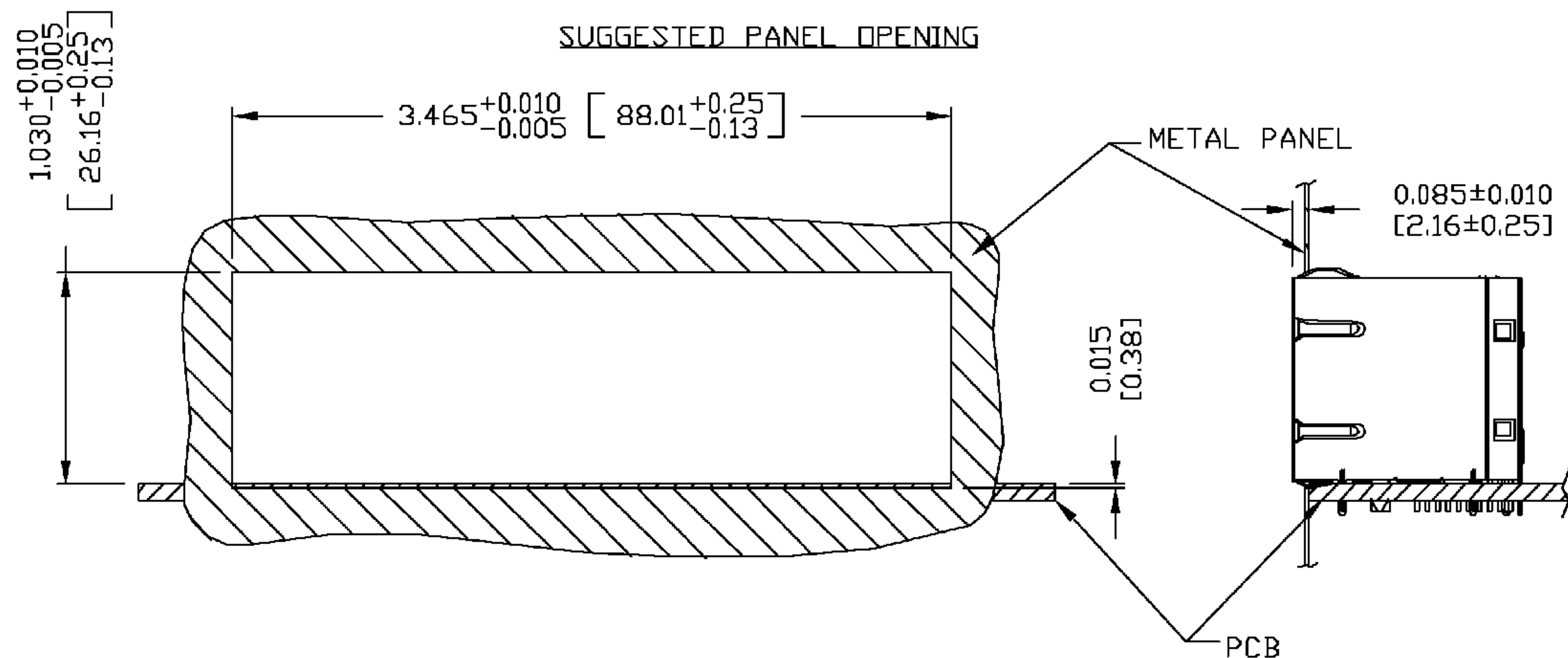
SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)

|               |          |                                                |                        |               |                                                                                       |                                                                                       |           |
|---------------|----------|------------------------------------------------|------------------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
| ORIGINATED BY | DATE     | TITLE<br><br>2X6 glgabt MagJack®<br>(12 Cores) | PART NO. / DRAWING NO. | STANDARD DIM. |                                                                                       | [ ] METRIC DIM. AS REFERENCE                                                          |           |
| BILL          | 09-13-05 |                                                | 0833-2X6R-33           | TOL. IN INCH  |                                                                                       | UNIT : INCH [mm]                                                                      | REV. : H  |
| DRAWN BY      | DATE     |                                                | FILE NAME              | .X            |  | SCALE : N/A                                                                           | SIZE : A4 |
| SARAH         | 09-13-05 |                                                | 08332X6R33H.DWG        | .XX           |                                                                                       |  | PAGE : 5  |
|               |          |                                                | .XXX                   |               |                                                                                       |                                                                                       |           |

  
COMPONENTS  
CONNECTED  
PLANET



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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.

#### PACKING INFORMATION

PACKING TRAY : 0200-9999-A9 (TOP)  
0200-9999-A8 (BOTTOM)

PACKING QUANTITY : 15 PCS FINISHED GOODS PER TRAY  
7 TRAYS (105 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.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|----------|------------------------------------|------------------------|-------------------------------|------------------------------|-----------|
| BILL          | 09-13-05 | 2X6 gigabit MagJack®<br>(12 Cores) | 0833-2X6R-33           | .X                            | UNIT : INCH [mm]             | REV. : H  |
| DRAWN BY      | DATE     |                                    | FILE NAME              | .XX                           | SCALE : N/A                  | SIZE : A4 |
| SARAH         | 09-13-05 |                                    | 08332X6R33H.DWG        | .XXX ±0.004                   |                              | PAGE : 6  |

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET