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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% |

OCL @ 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

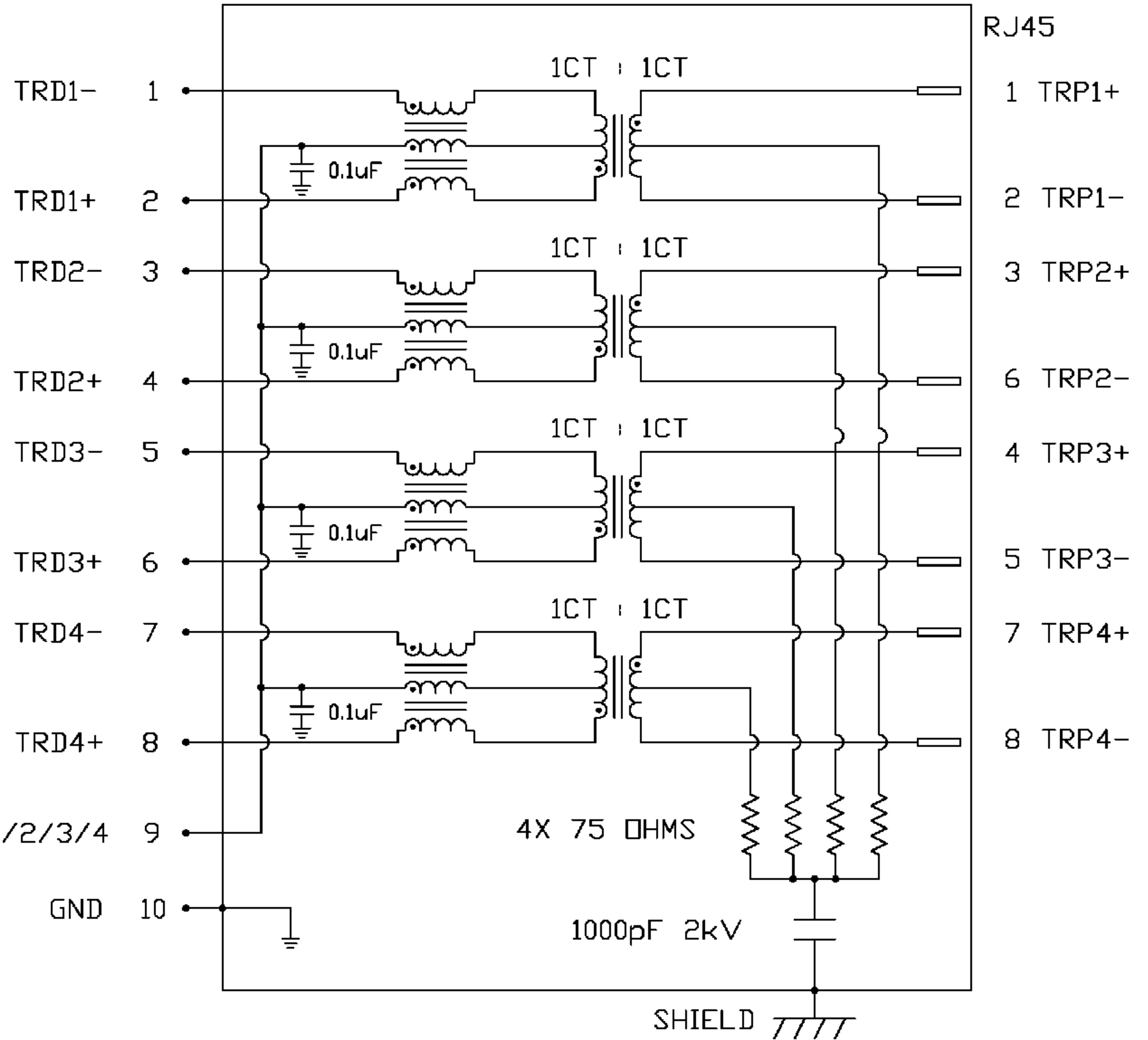
100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

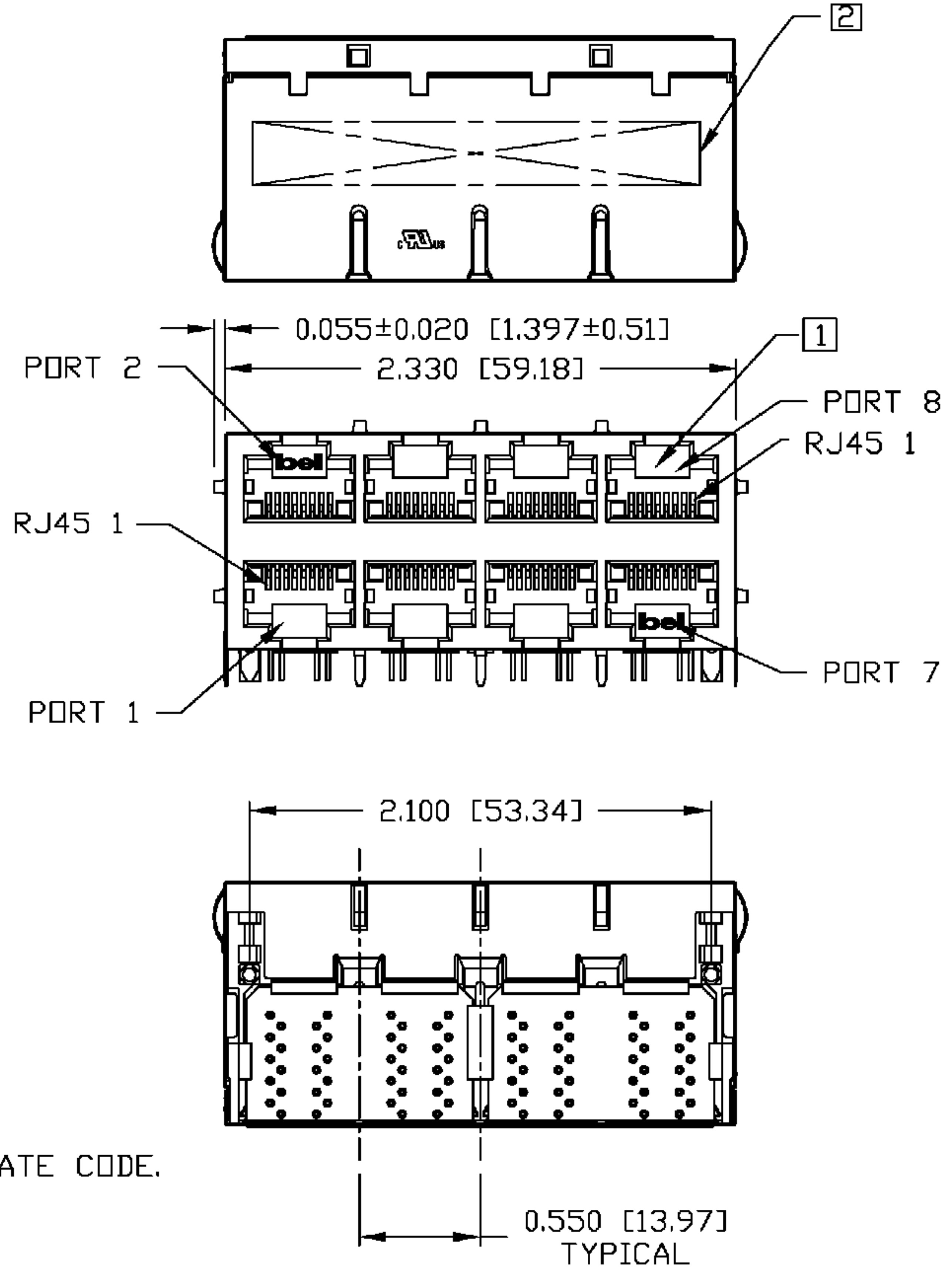
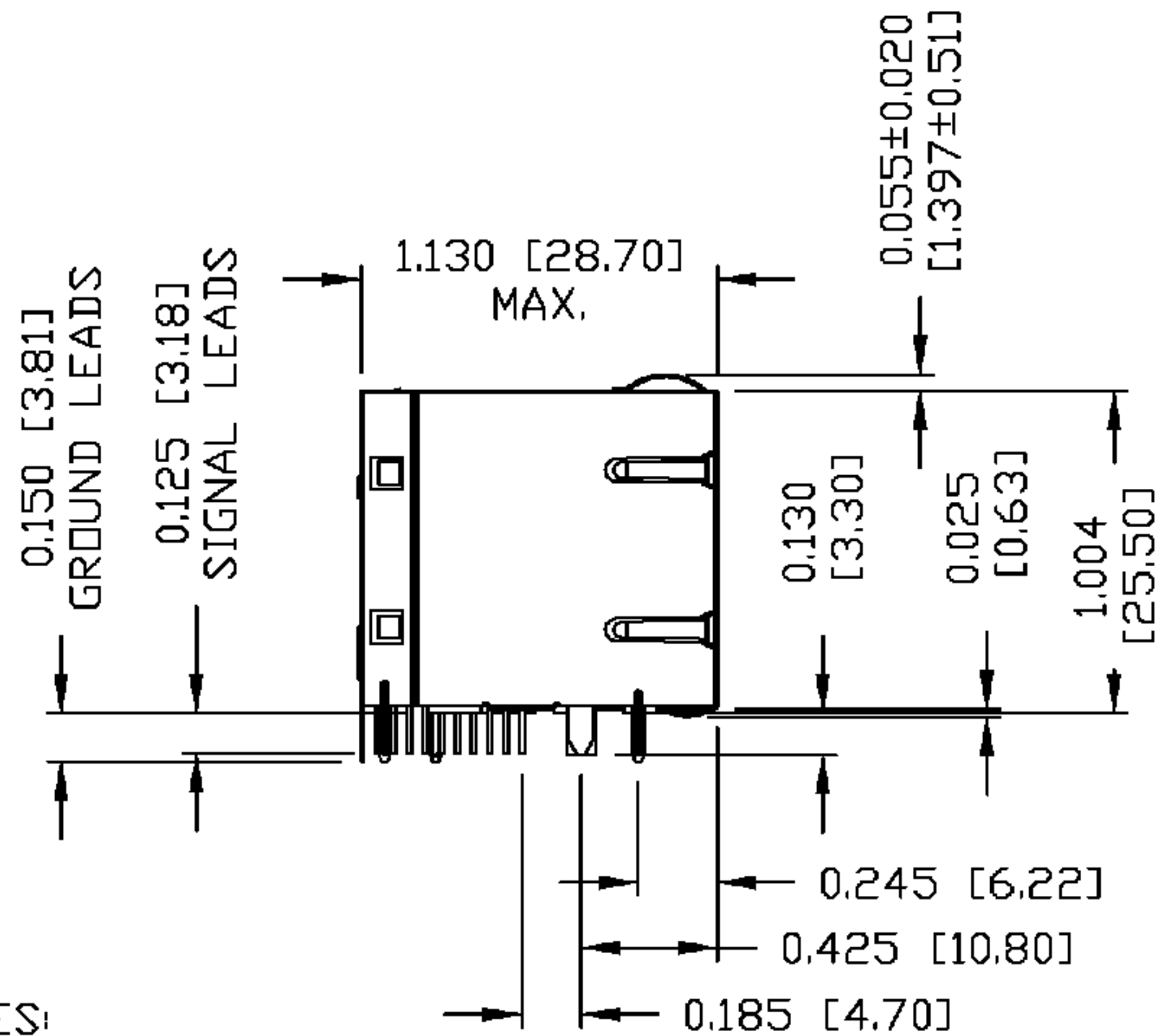
HIPOT (Isolation Voltage): 1500 Vrms or 2250VDC

SCHEMATIC



| | | | | | | | |
|---------------|----------|-----------------------------------|------------------------|----------------------------|------------------------------|---------------------------------------|-----------|
| ORIGINATED BY | DATE | TITLE | PART NO. / DRAWING NO. | STANDARD DIM. TOL. IN INCH | [] METRIC DIM. AS REFERENCE | COMPONENTS FOR A CONNECTED PLANET | |
| CHUNG | 03-21-06 | 2X4 gigabit MagJack® (8 Cores) | 08332X4R54-F | .X | UNIT : INCH [mm] | | REV. : B |
| DRAWN BY | DATE | | FILE NAME | .XX | SCALE : N/A | | SIZE : A4 |
| DE | 03-21-06 | 0833-2X4R-54-F | 08332X4R54-FB.DWG | .XXX | 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.
- METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)

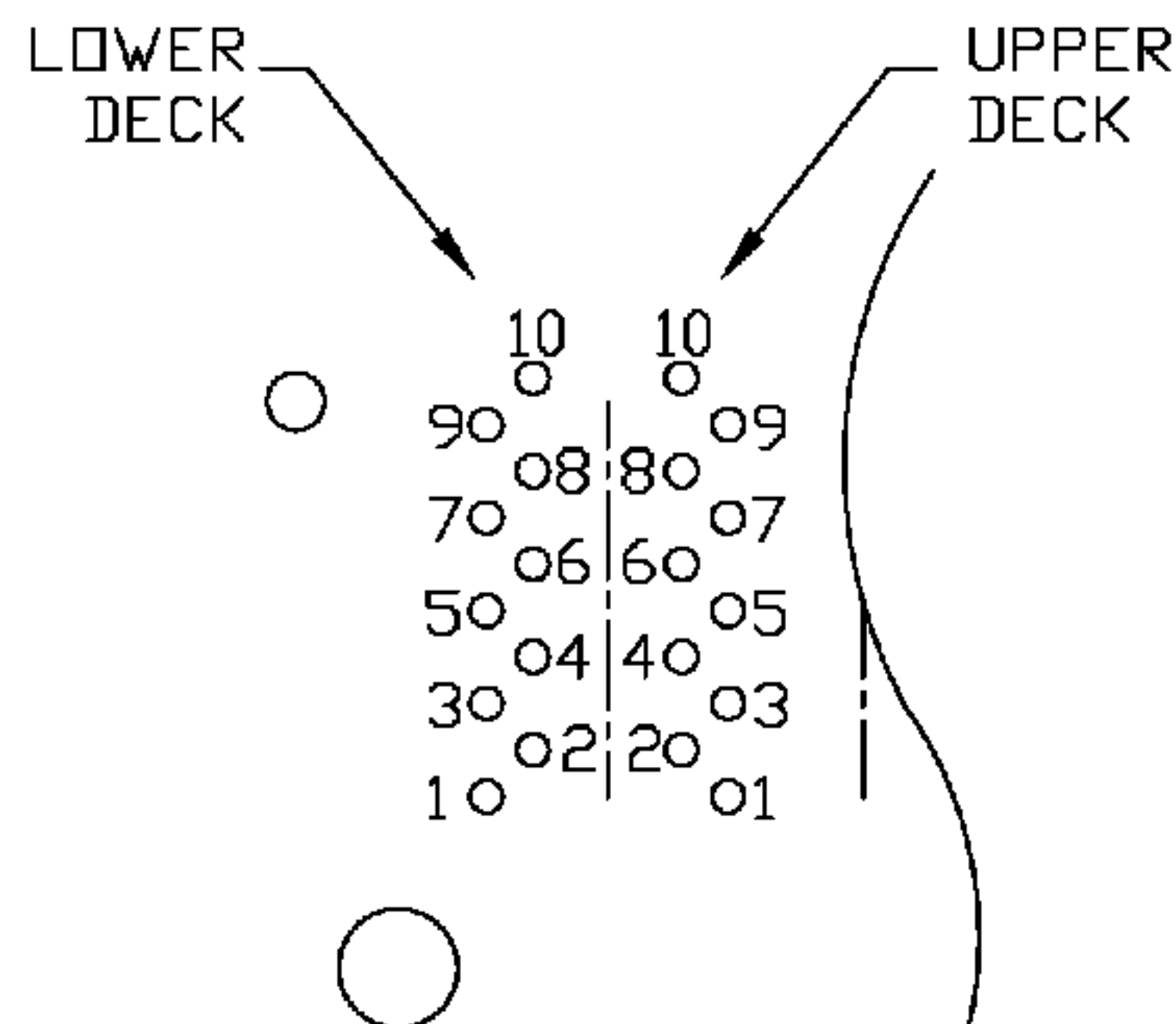
- [1] JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
- [2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

UL UL RECOGNIZED - FILE #E196366 AND E169987.
RoHS COMPLIANT, PER EU DIRECTIVE 2002/95/EC.

| | | | | | | | | |
|----------------------------|--|--|--|------------------|----------|------------------------------|--|---|
| ORIGINATED BY QIN/KEUNG | DATE 03-21-06 | TITLE 2X4 gigabit MagJack® (8 Cores) 0833-2X4R-54-F | PART NO. / DRAWING NO. 08332X4R54-F | STANDARD DIM. | | [] METRIC DIM. AS REFERENCE | | COMPONENTS FOR A CONNECTED PLANET |
| | TOL. IN INCH .X .XX .XXX ±0.010 | | | UNIT : INCH [mm] | REV. : B | | | |
| DRAWN BY LING | DATE 03-21-06 | FILE NAME 08332X4R54-FB.DWG | SCALE : N/A | SIZE : A4 | | | | |
| | | | | PAGE : 3 | | | | |

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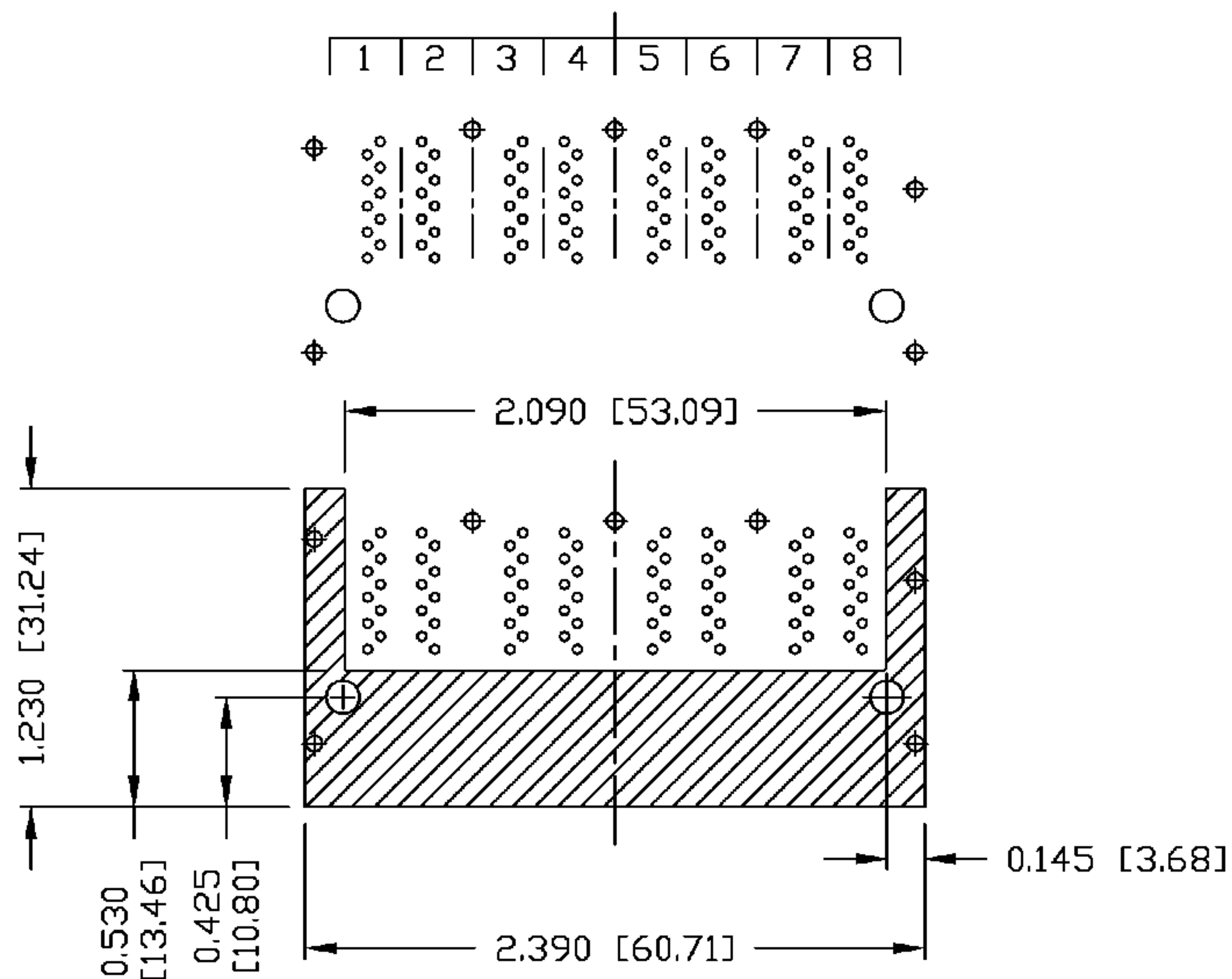
RoHS
2002/95/EC



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

| | |
|----|--------------|
| 10 | GND |
| 9 | TRDCT1/2/3/4 |
| 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)

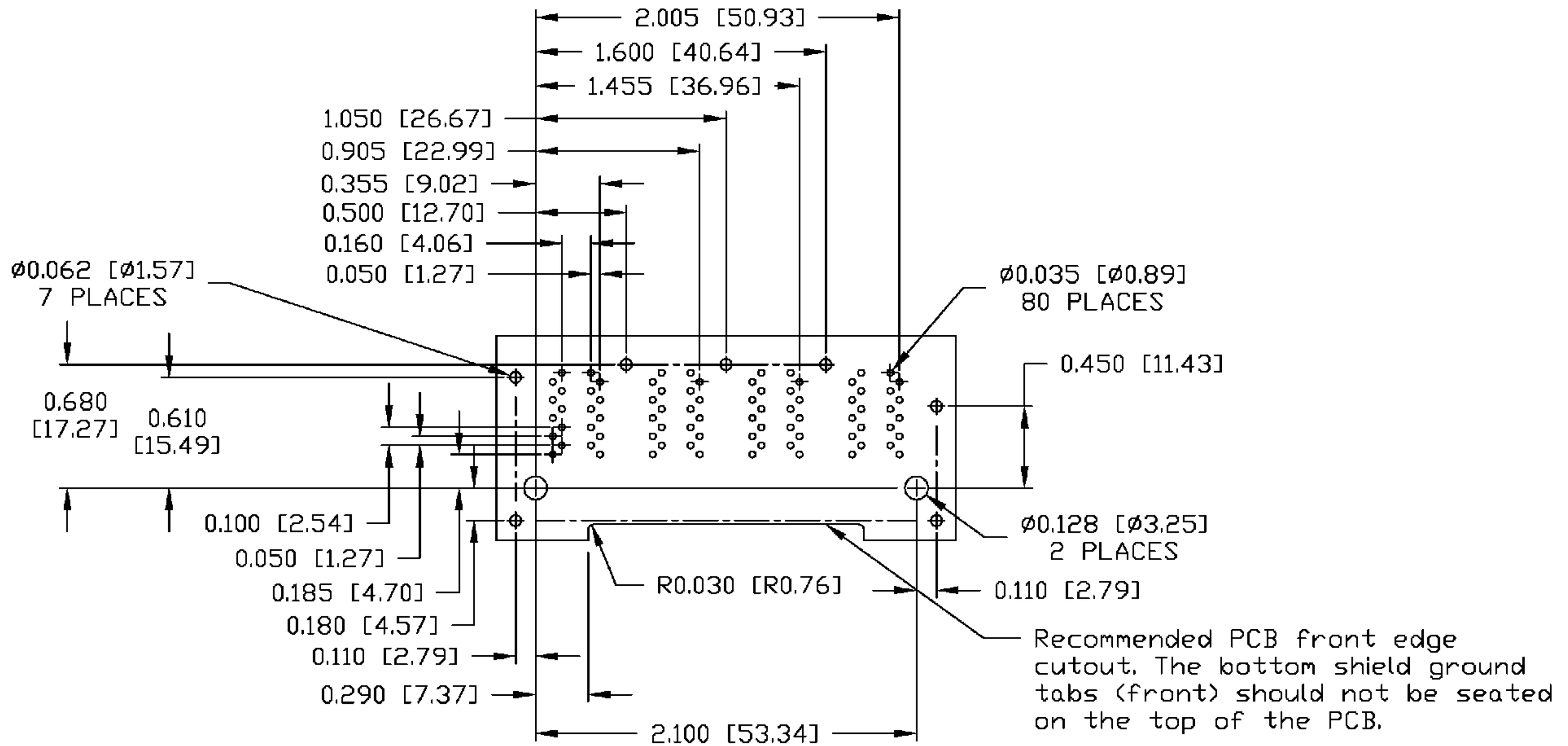


THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

| | | | | | | |
|-----------------------------|------------------|--|--|-------------------------------------|--|-----------|
| ORIGINATED BY BILL/KEUNG | DATE 03-21-06 | TITLE 2X4 gigabit MagJack® (8 Cores) | PART NO. / DRAWING NO. 08332X4R54-F | STANDARD DIM. TOL. IN INCH .X | [] METRIC DIM. AS REFERENCE UNIT : INCH [mm] | REV. : B |
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| | | | | .XXX ±0.004 | | PAGE : 4 |



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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

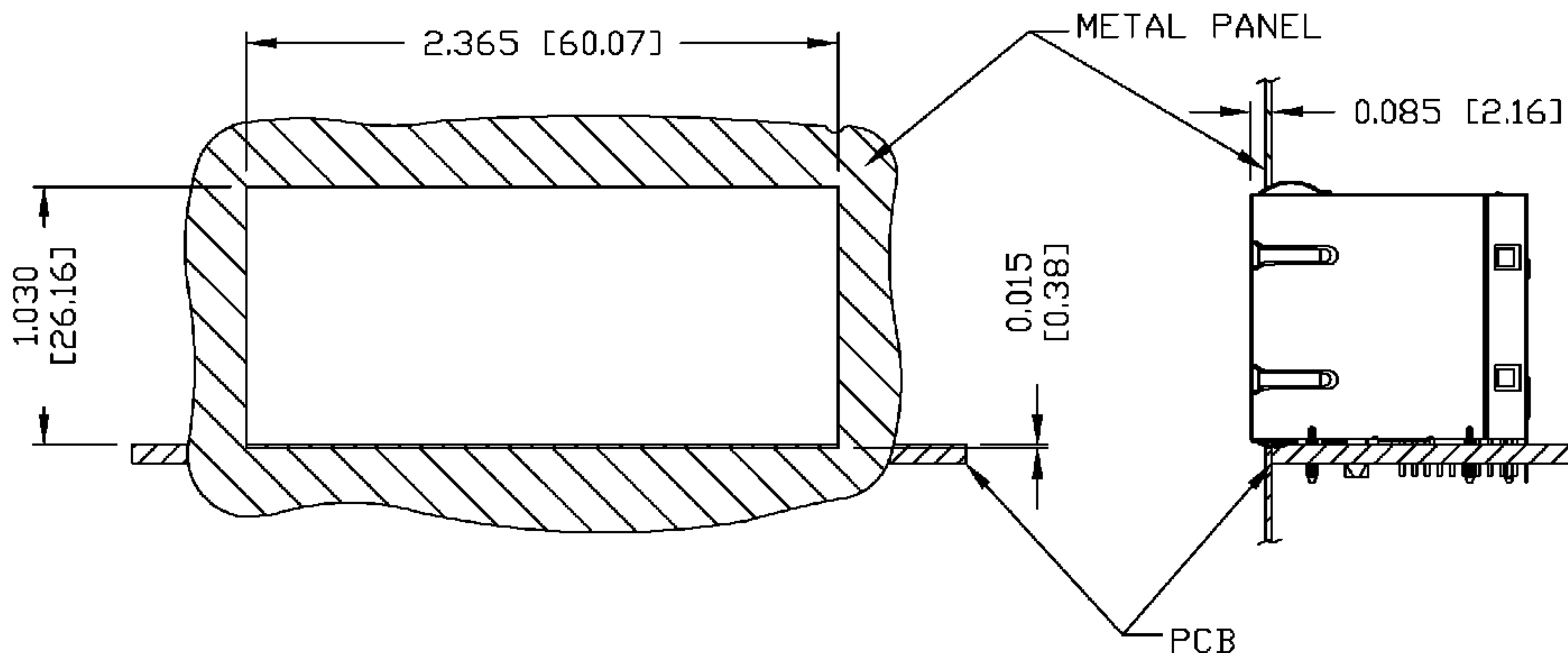
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| DRAWN BY | DATE | | FILE NAME | .X | SCALE : N/A | SIZE : A4 |
| LING | 03-21-06 | 0833-2X4R-54-F | 08332X4R54-FB.DWG | .XX | | PAGE : 5 |
| | | | | .XXX ±0.004 | | |



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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 : 0200-0148-46 (TOP)

0200-0148-47 (BOTTOM)

PACKING QUANTITY : 20 PCS FINISHED GOODS PER TRAY.

7 TRAYS (140 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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| | | | | .XX | | | PAGE : 6 | |
| | | | | .XXX | ±0.004 | | | |

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