

THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

| IFD 2 & 4 PIN ARITY | | | IFD 1 & 3 PIN ARITY | | |
|---------------------|--------|--------|---------------------|--------|--------|
| PIN 11 | PIN 12 | COLOR | PIN 13 | PIN 14 | COLOR |
| - | + | ORANGE | - | + | ORANGE |
| + | - | GREEN | + | - | GREEN |

PRELIMINARY



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

QCL @ 100kHz/100mVRMS

(-40°C - 85°C) 180 µH MIN.

RET. LOSS (MIN)

1MHz-40MHz -18 dB MIN
40MHz-250MHz -18+10LOG10(f/40MHz) dB MIN

CM TO CM REJ

100kHz - 100MHz -30 dB MIN

CM TO DM REJ

100kHz - 100MHz -35 dB MIN

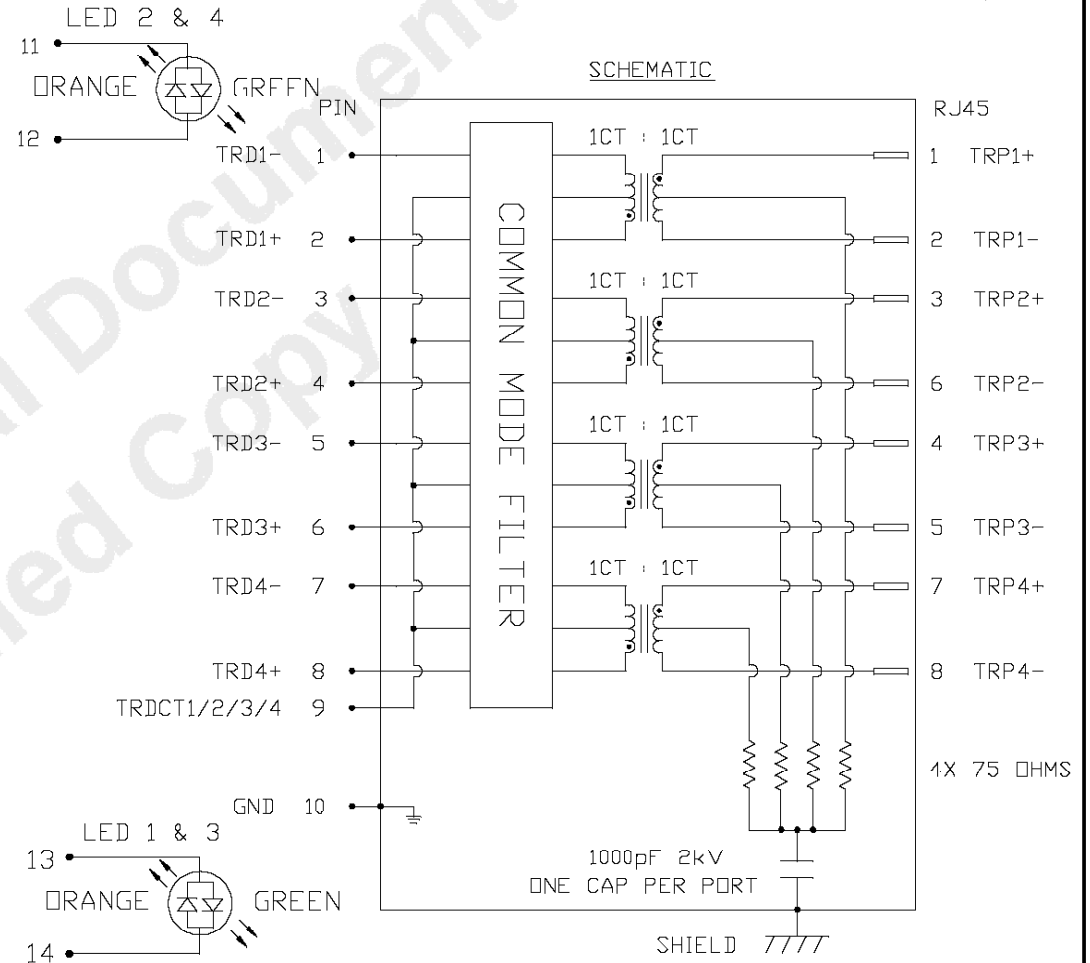
HIPOT (Isolation Voltage): 2250 VDC
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

NOTE: PORT-TO-PORT ISOLATION NOT INCLUDED.

LEDS 1, 2, 3 AND 4

| | | | |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE) | IF=20mA | ORANGE | 2.0V TYP. |
| | | GREEN | 2.2V TYP. |
| λD (DOMINANT WAVELENGTH) | IF=20mA | ORANGE | 605nm TYP. |
| | | GREEN | 570nm TYP. |

OPERATING TEMPERATURE: -40°C TO +85°C.



REV. : 3 PAGE : 2

ORIGINATED BY
CHOW WANCHUNG
DATE 2021-05-05
DRAWN BY
TANG YUAN
DATE 2021-05-05

TITLE
2X4 5 Gigabit MagJack®
WITH UPPER AND LOWER LED
(8 Cores, Extended Temp.)
PATENTED

PART NO. / DRAWING NO.
0879-2B4J-JY
FILE NAME
0879-2B4J-JY 3.DWG

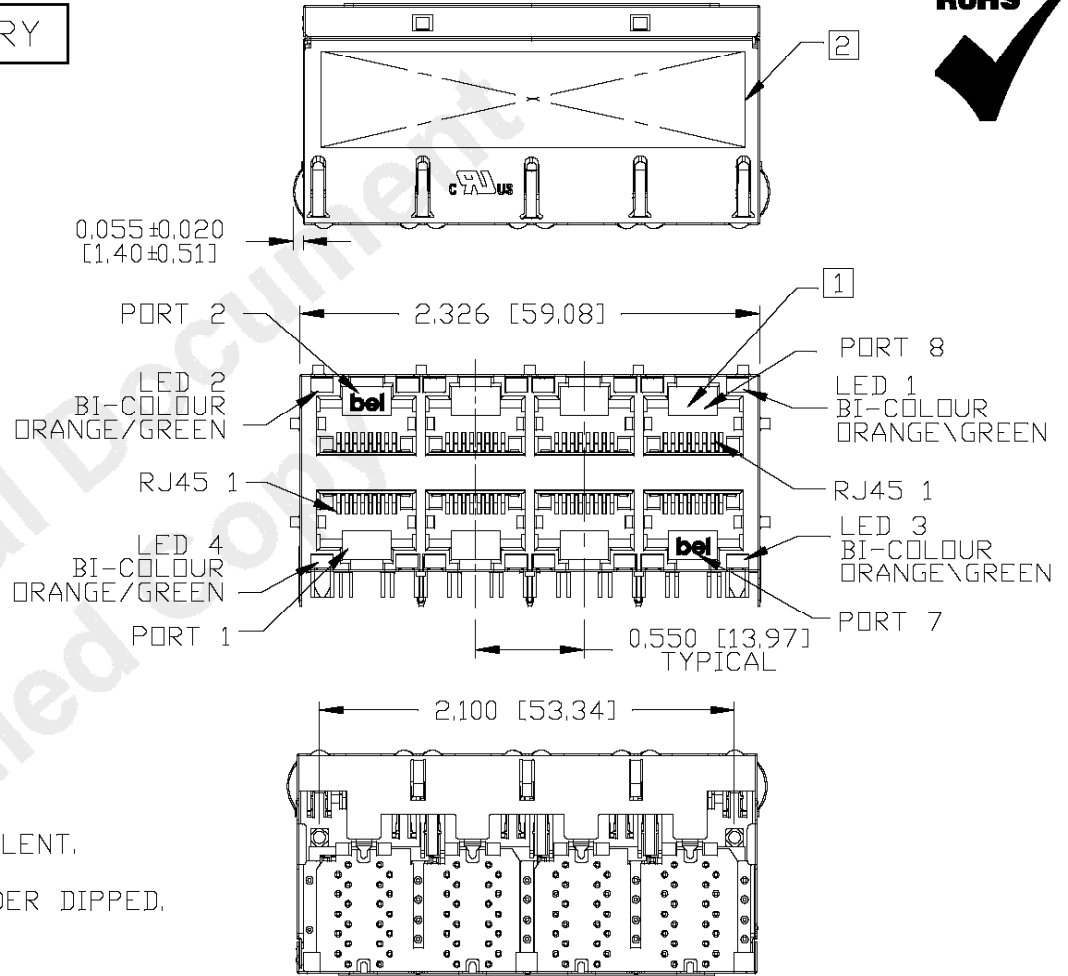
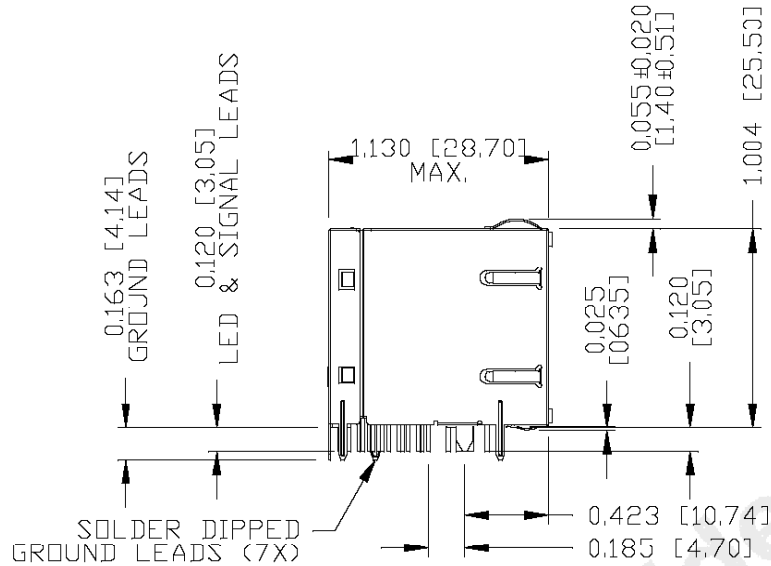
STANDARD DIM. [] METRIC DIM.
TOL. IN INCH AS REF.
.X UNIT : INCH [mm]
.XX SCALE : N/A
.XXX SIZE : A4



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PRELIMINARY

RoHS



NOTES:

- PLASTIC HOUSING: THERMOPLASTIC PBT, BLACK
 FLAMMABILITY RATING UL 94V-0
- CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.
- OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH,
 100 MICRO-INCH MIN MATTE TIN, PINS ARE SOLDER DIPPED.
- 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 AND PATENTED.
- 3. THE PRODUCT IS RoHS COMPLIANT.

- 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 7,123,117 AND U.S.PAT. 6,840,817.
- 5. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

UL RECOGNIZED - FILE #E196366 AND E169987.

REV. : 3 PAGE : 3

ORIGINATED BY
 LI QUANKUN
 DATE 2021-05-05
 DRAWN BY
 OLIVER ZHANG
 DATE 2021-05-05

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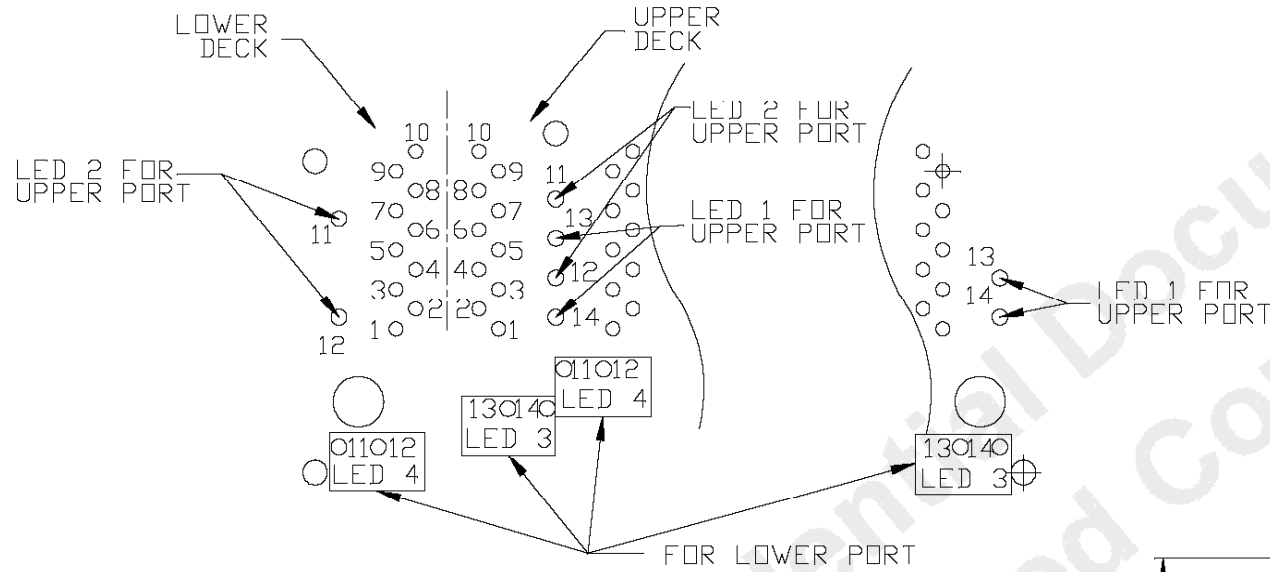
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 FILE NAME
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STANDARD DIM. [] METRIC DIM.
 TOL. IN INCH AS REF.
 .X
 .XX
 .XXX ±0.010
 UNIT : INCH [mm]
 SCALE : N/A
 SIZE : A4

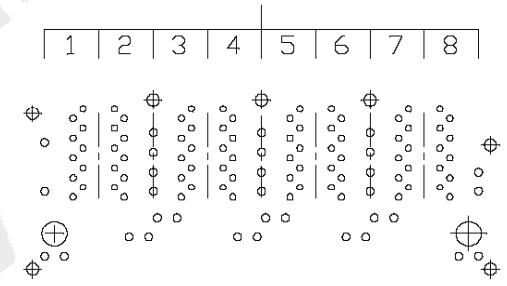


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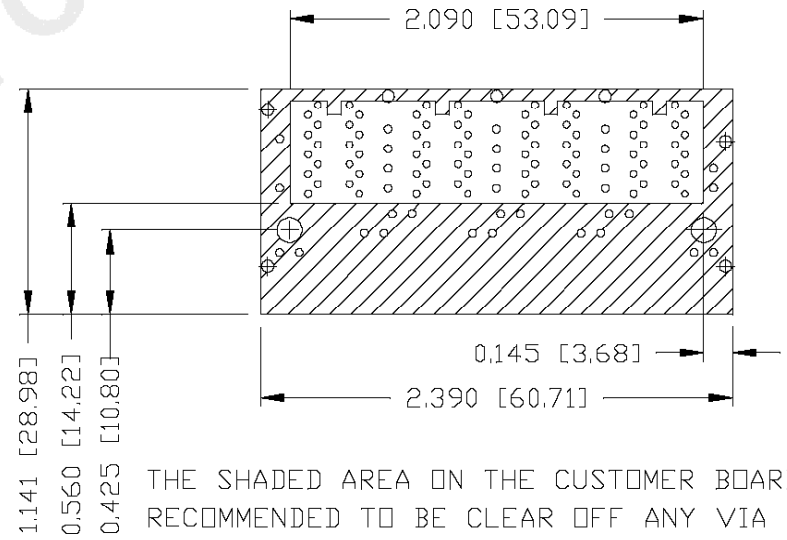


PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



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+ | 14 | ORANGE (+)/GREEN (-) |
| 3 | TRD 2- | 13 | ORANGE (-)/GREEN (+) |
| 2 | TRD 1+ | 12 | ORANGE (+)/GREEN (-) |
| 1 | TRD 1- | 11 | ORANGE (-)/GREEN (+) |



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

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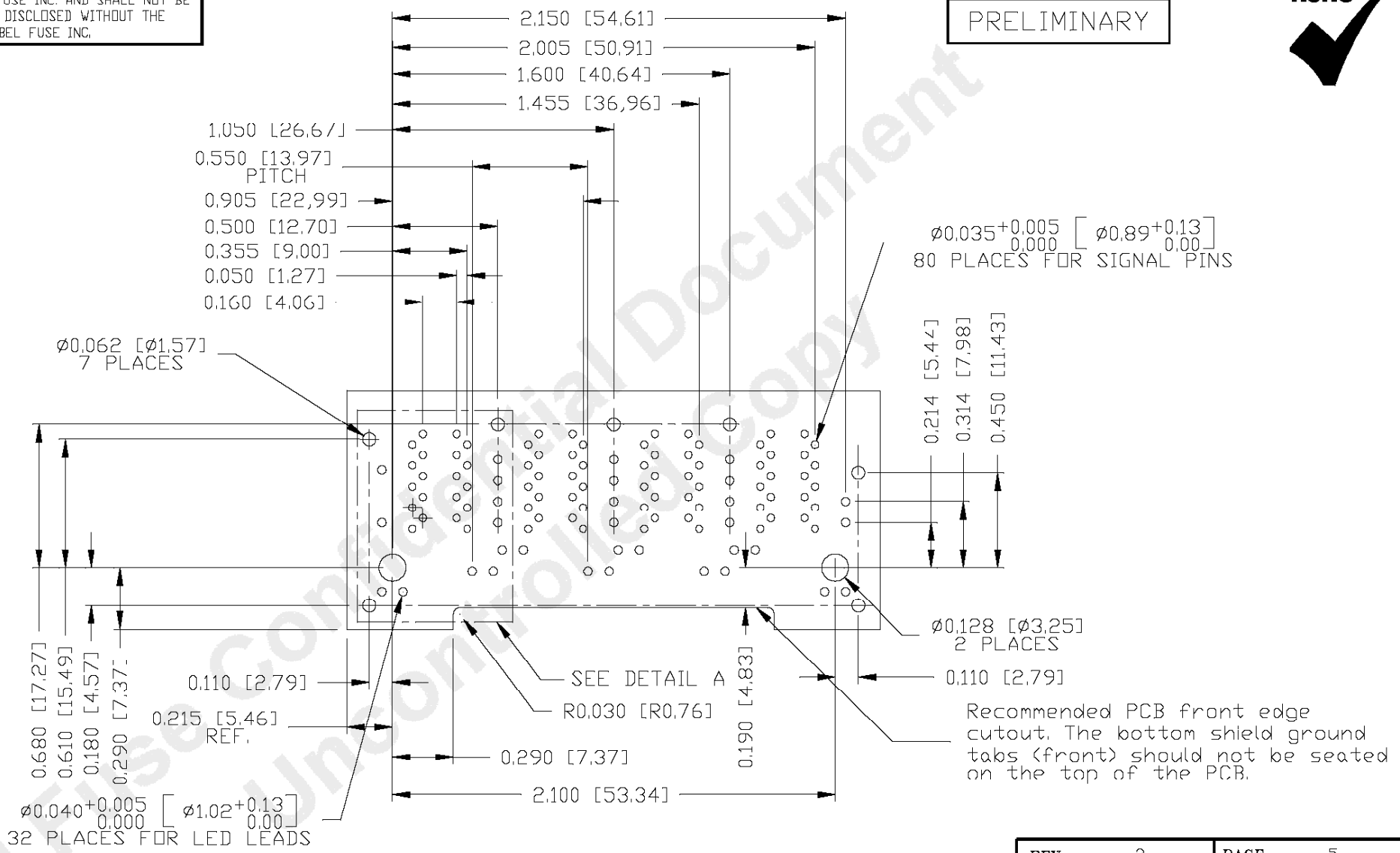
STANDARD DIM. TOL. IN INCH
[] METRIC DIM. AS REF.
.X
.XX
.XXX ±0.004
UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

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DATE 2021 05 05

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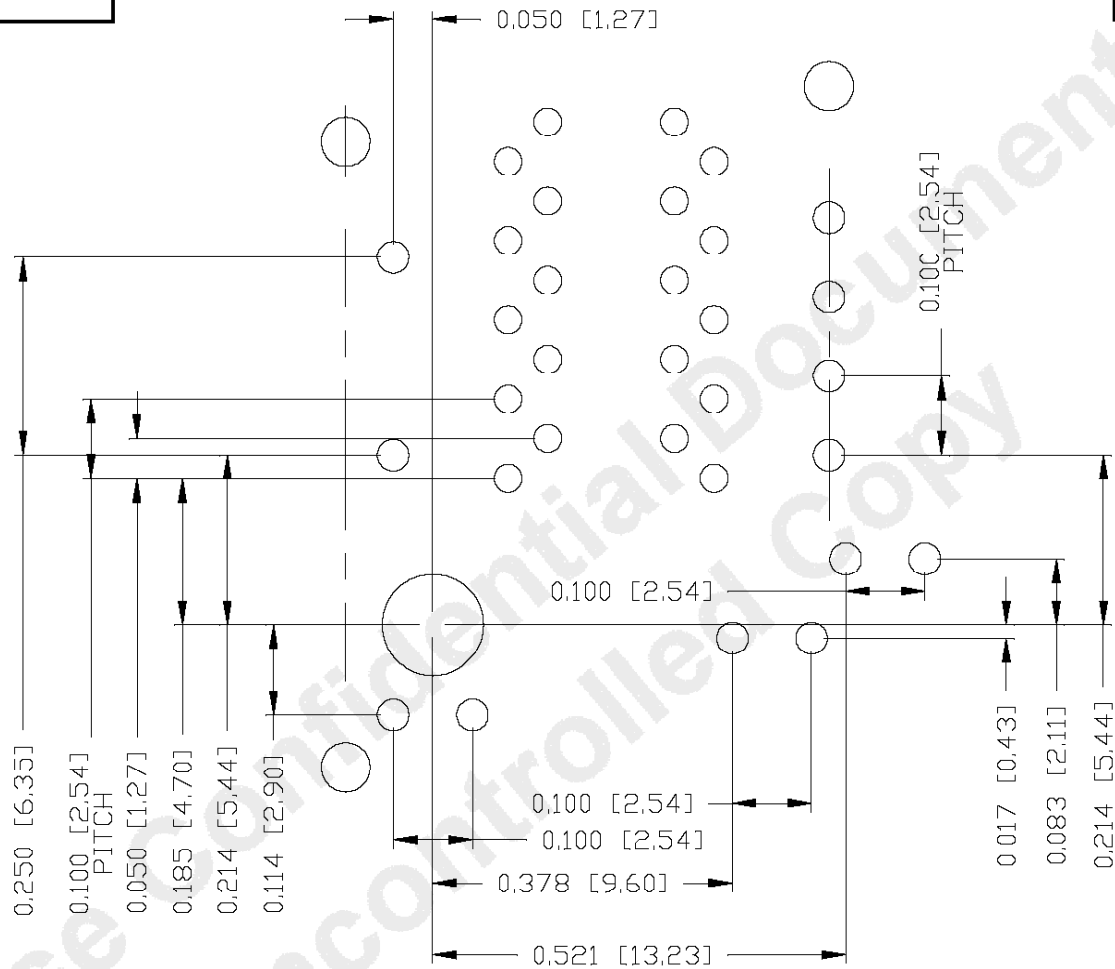
STANDARD DIM. [] METRIC DIM.
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.X UNIT : INCH [mm]
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.XXX ±0.004 SIZE : A4

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PRELIMINARY



DETAIL A

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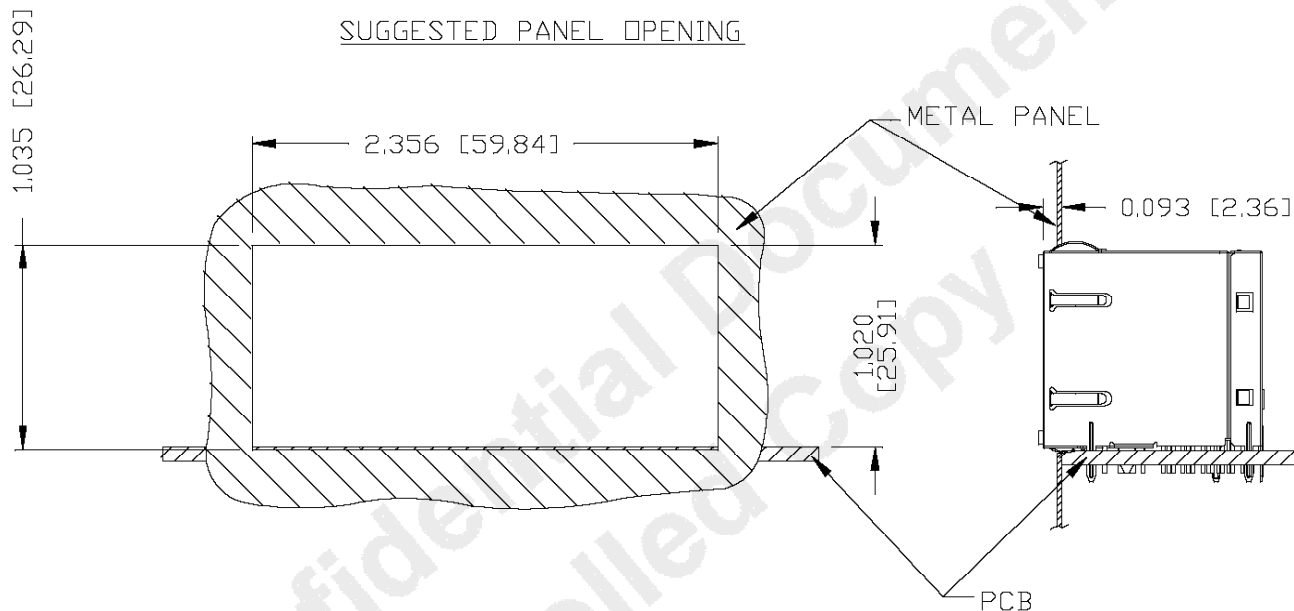
PART NO. / DRAWING NO.
0879-2B4J-JY
FILE NAME
0879-2B4J-JY_3.DWG

| STANDARD DIM. TOL. IN INCH | | [] METRIC DIM. AS REF. |
|----------------------------|--------|-------------------------|
| .X | | UNIT : INCH [mm] |
| .XX | | SCALE : N/A |
| .XXX | ±0.004 | SIZE : A4 |



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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-Q1 (TOP)
0200-9999-Q2 (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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|-------------------------------|--------|----------------------------|
| .X | | UNIT : INCH [mm] |
| .XX | | SCALE : N/A |
| .XXX | ±0.005 | SIZE : A4 |

