

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.

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C
TURNS RATIO

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

QCL @ 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) @ 100OHMS ±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

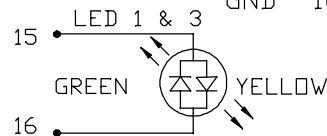
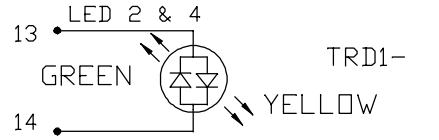
HIPOT (Isolation Voltage): 2250 VDC
100% OF PRODUCTION TESTED TO COMPLY WITH
IEEE 802.3 ISOLATION REQUIREMENTS.

BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS
LED 1 & 2 & 3 & 4 1.2A MAX. FOR 200 MILLISECONDS

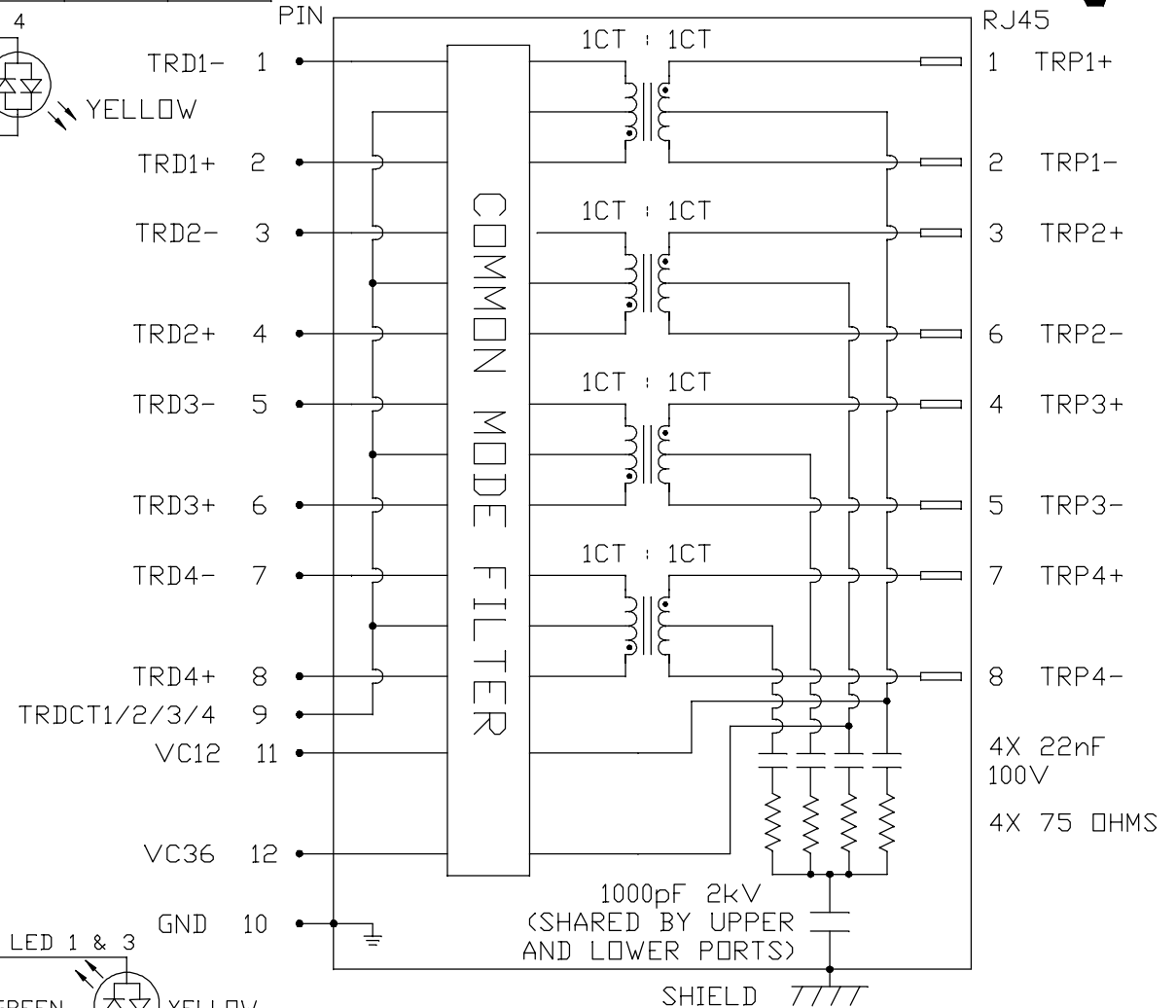
| | | | |
|--------------------------|---------|--------|------------|
| VF (FORWARD VOLTAGE) | IF=20mA | GREEN | 2.2V TYP. |
| | | YELLOW | 2.1V TYP. |
| λD (DOMINANT WAVELENGTH) | IF=20mA | GREEN | 570nm TYP. |
| | | YELLOW | 590nm TYP. |

OPERATING TEMPERATURE -40°C TO +85°C

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



SCHEMATIC



ORIGINATED BY
CHOW WANCHUNG
DATE 2019-10-16
DRAWN BY
XIE YIMING
DATE 2019-10-16

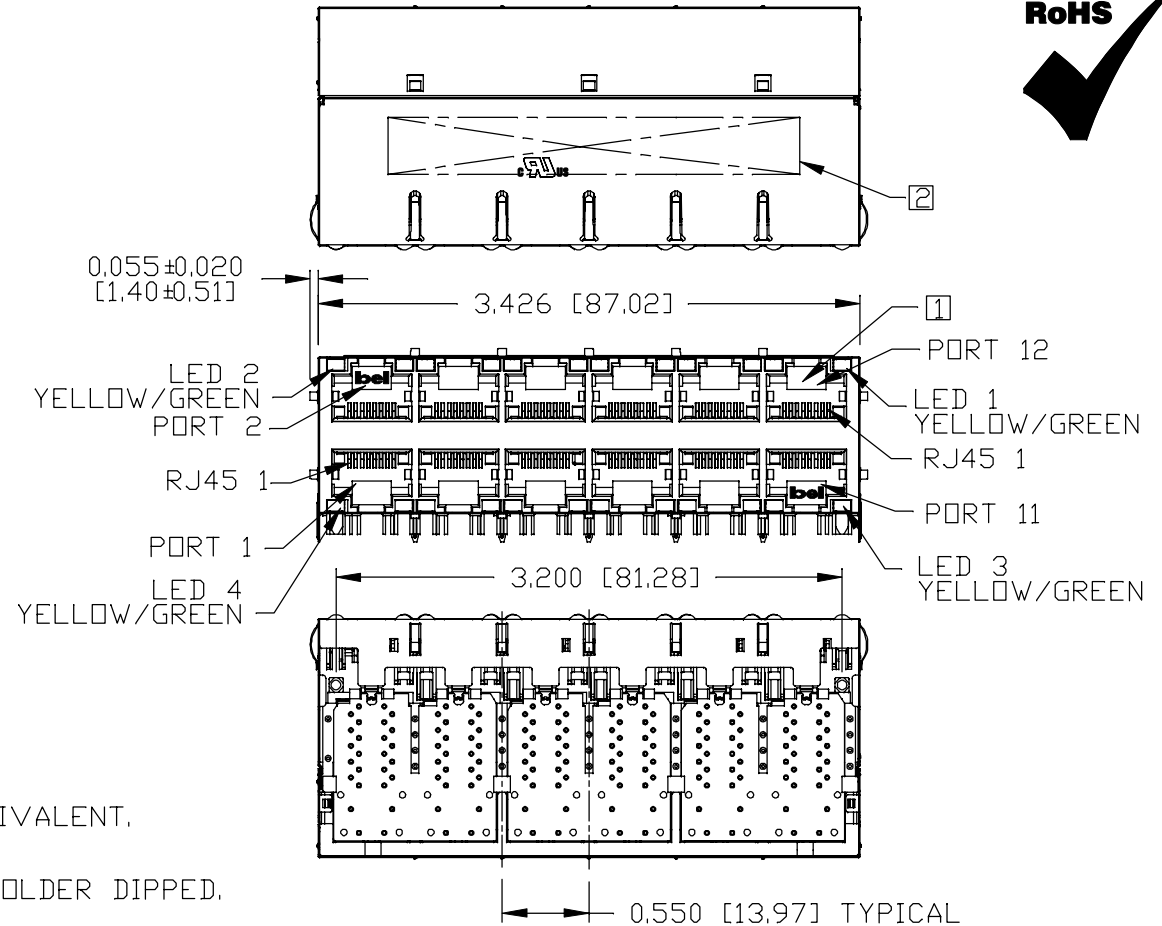
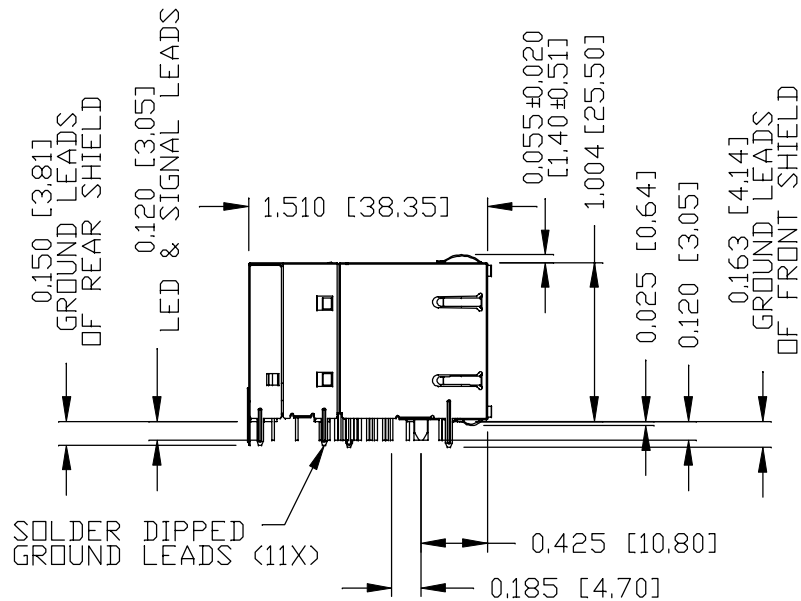
TITLE
2X6 gigabit MagJack®
PoEp
(WITH EXTENDED TEMPERATURE)
PATENTED

PART NO. / DRAWING NO.
0895-2C6R-GK
FILE NAME
0895-2C6R-GK_B.DWG

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

REV. : B PAGE : 2

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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. 6,840,817 AND U.S. PAT. 7,123,117.
- 5. REVERSED POLARITY OF GENERAL 'C' LED.
- 6. THE PART IS RECOMMENDED FOR WAVE SOLDERING. THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

c **UL** **us** UL RECOGNIZED - FILE #E196366 AND E169987.

| | | | | | | | | | | | |
|---|--|---|--|---|--|---|--|--|--|-----------------|-----------------|
| ORIGINATED BY SANDY LIN DATE 2019-10-16 DRAWN BY RUAN WENJUN DATE 2019-10-16 | | TITLE 2X6 gigabit MagJack® PoEp (WITH EXTENDED TEMPERATURE) PATENTED | | PART NO. / DRAWING NO. 0895-2C6R-GK FILE NAME 0895-2C6R-GK_B.DWG | | STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.010 | | [] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4 | | REV. : B | PAGE : 3 |
|---|--|---|--|---|--|---|--|--|--|-----------------|-----------------|

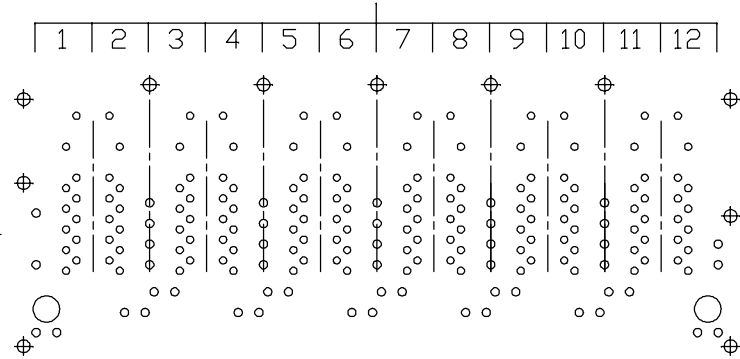
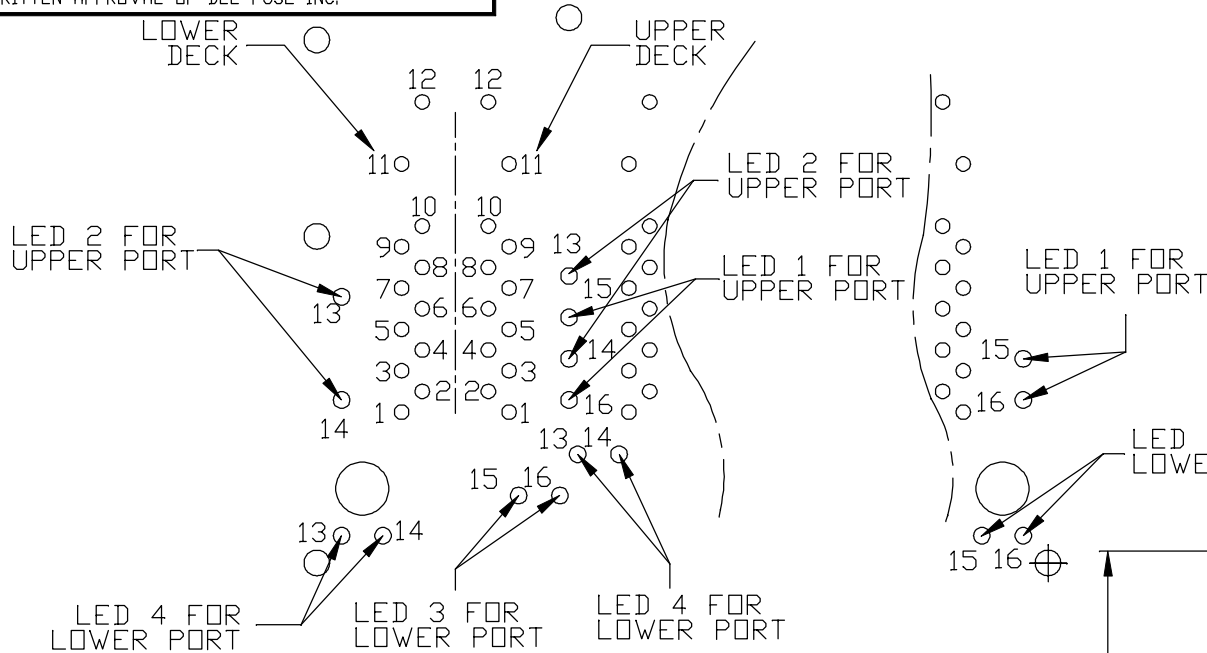


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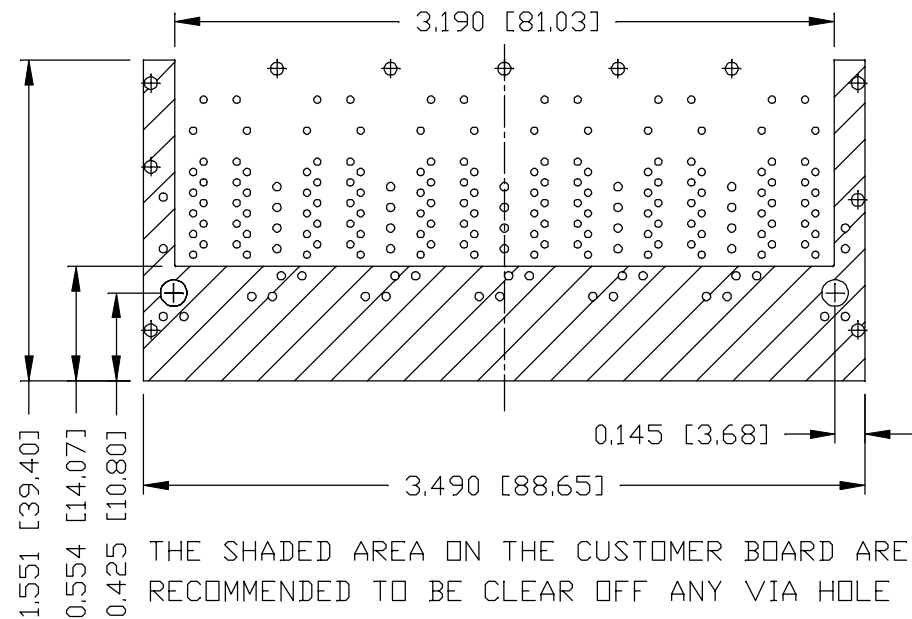


PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

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



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

REV. : B PAGE : 4



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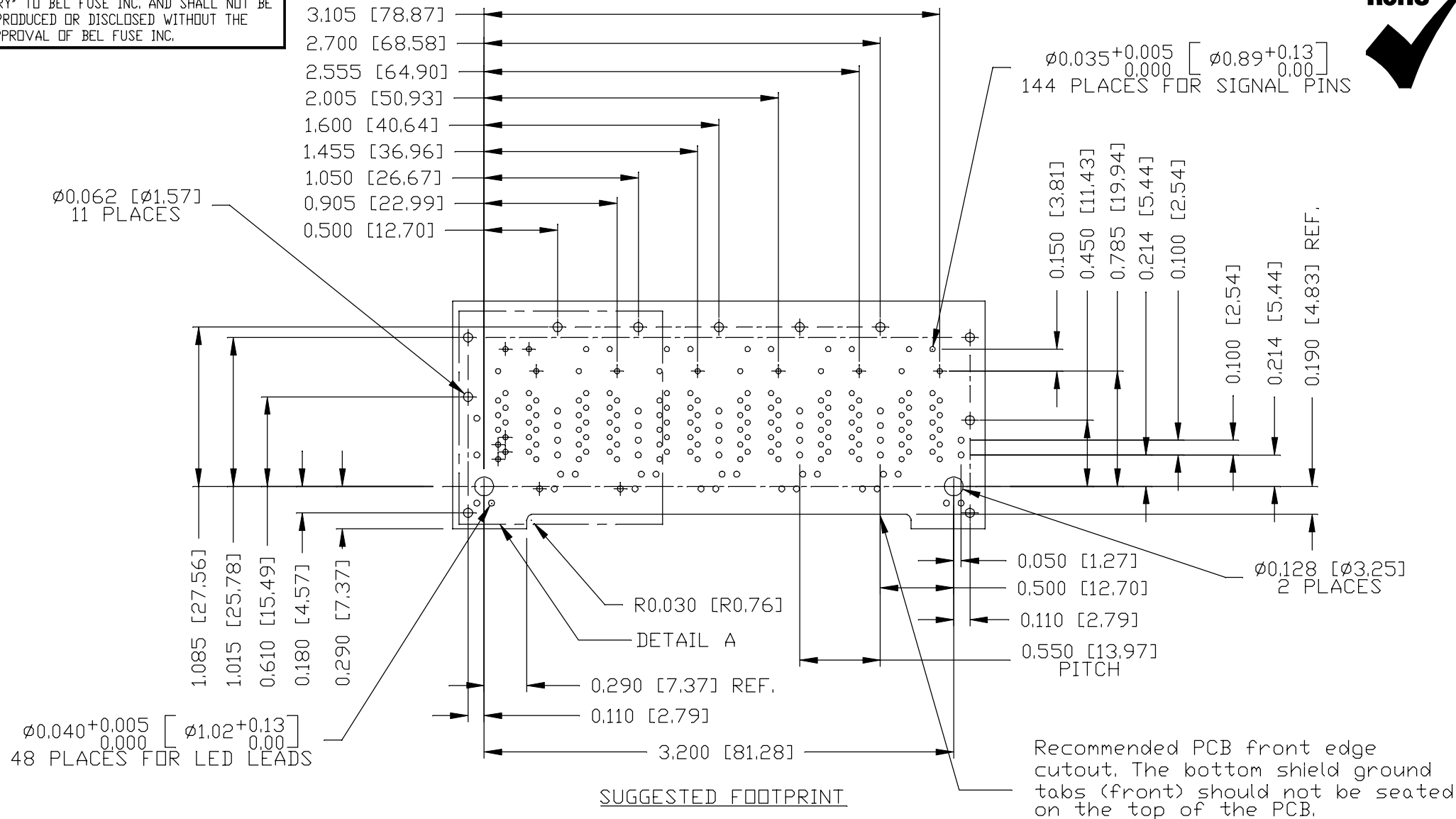
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TOL. IN INCH AS REF.

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.XX SCALE : N/A
.XXX ±0.004 SIZE : A4

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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

REV. : B PAGE : 5

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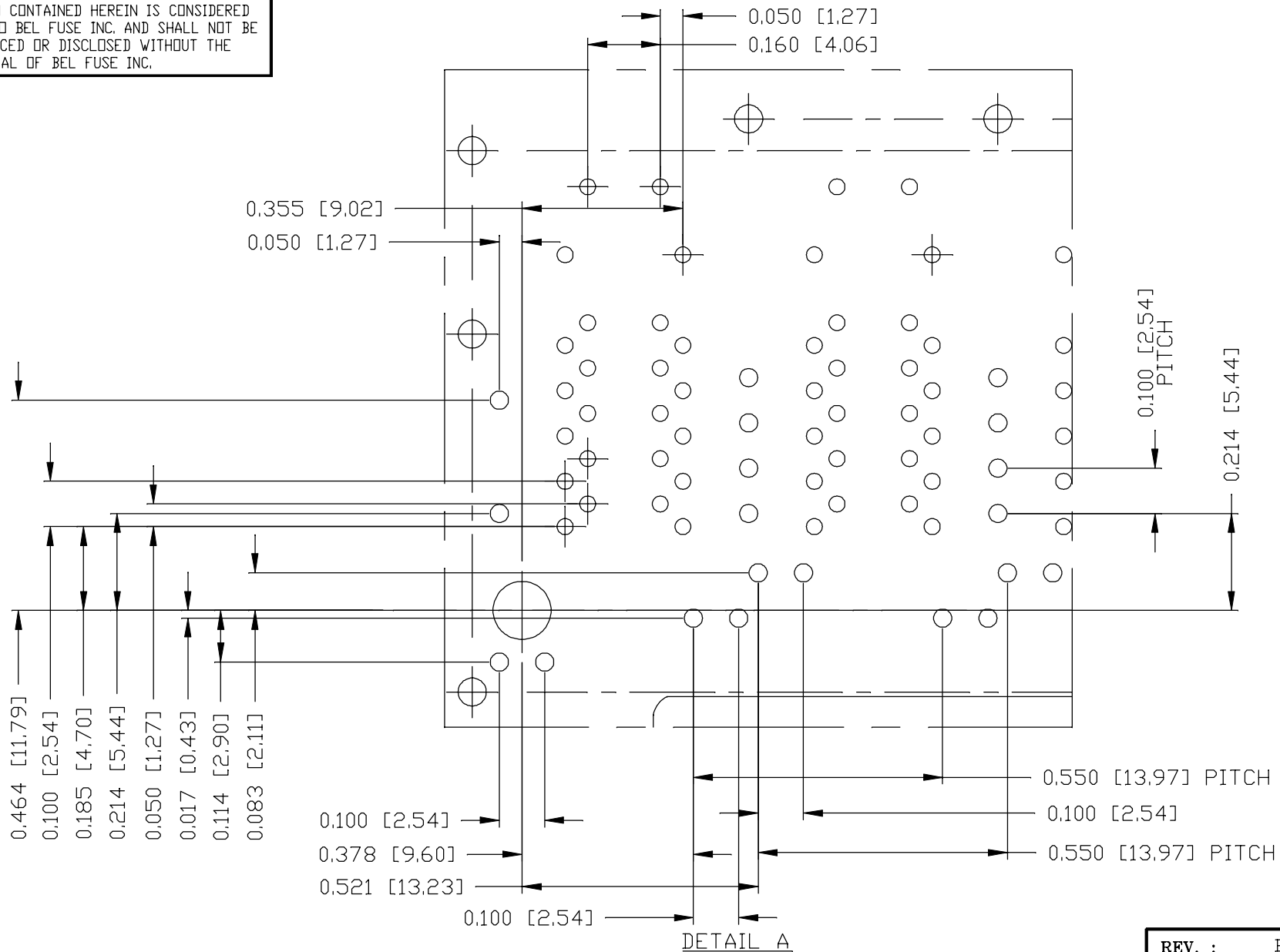
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| | |
|-------------------------------|----------------------------|
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| .X | UNIT : INCH [mm] |
| .XX | SCALE : N/A |
| .XXX | ±0.004 |
| | SIZE : A4 |



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DETAIL A

| | | | |
|--------|---|--------|---|
| REV. : | B | PAGE : | 6 |
|--------|---|--------|---|

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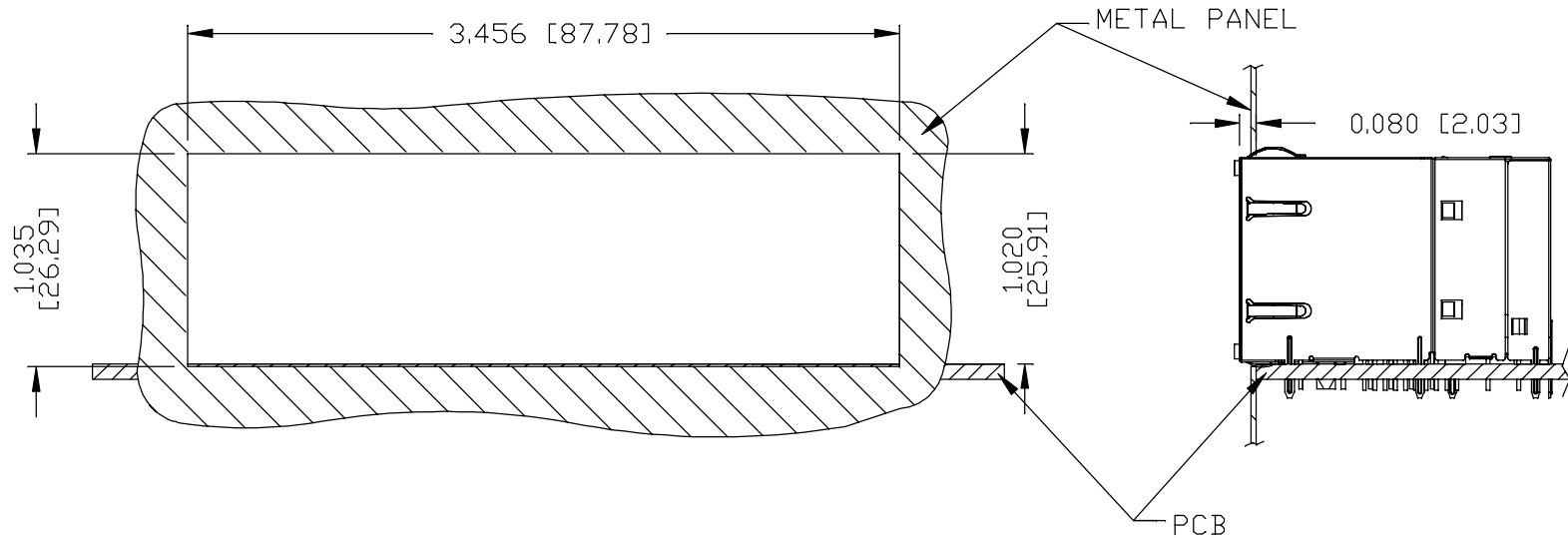


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SUGGESTED PANEL OPENING



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-B7 (TOP)

0200-9999-B8 (BOTTOM)

PACKING QUANTITY : 15 PCS FINISHED GOODS PER TRAY.

5 TRAYS (75 PCS FINISHED GOODS) PER CARTON BOX.

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

| | | | |
|--------|---|--------|---|
| REV. : | B | PAGE : | 7 |
|--------|---|--------|---|

| | | | | | |
|---|--|--|---------------|--------|------------------|
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| | | | .X | | UNIT : INCH [mm] |
| DRAWN BY RUAN WENJUN DATE 2019-10-16 | FILE NAME 0895-2C6R-GK_B.DWG | .XX | SCALE : N/A | | SIZE : A4 |
| | | | .XXX | ±0.005 | |

