

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

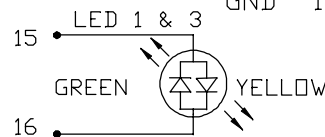
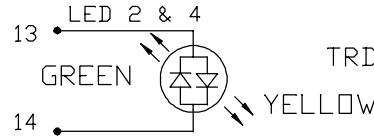
HIPOT (Isolation Voltage): 2250 VDC
100% OF PRODUCTION TESTED TO COMPLY WITH
IEEE 802.3 ISOLATION REQUIREMENTS.

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

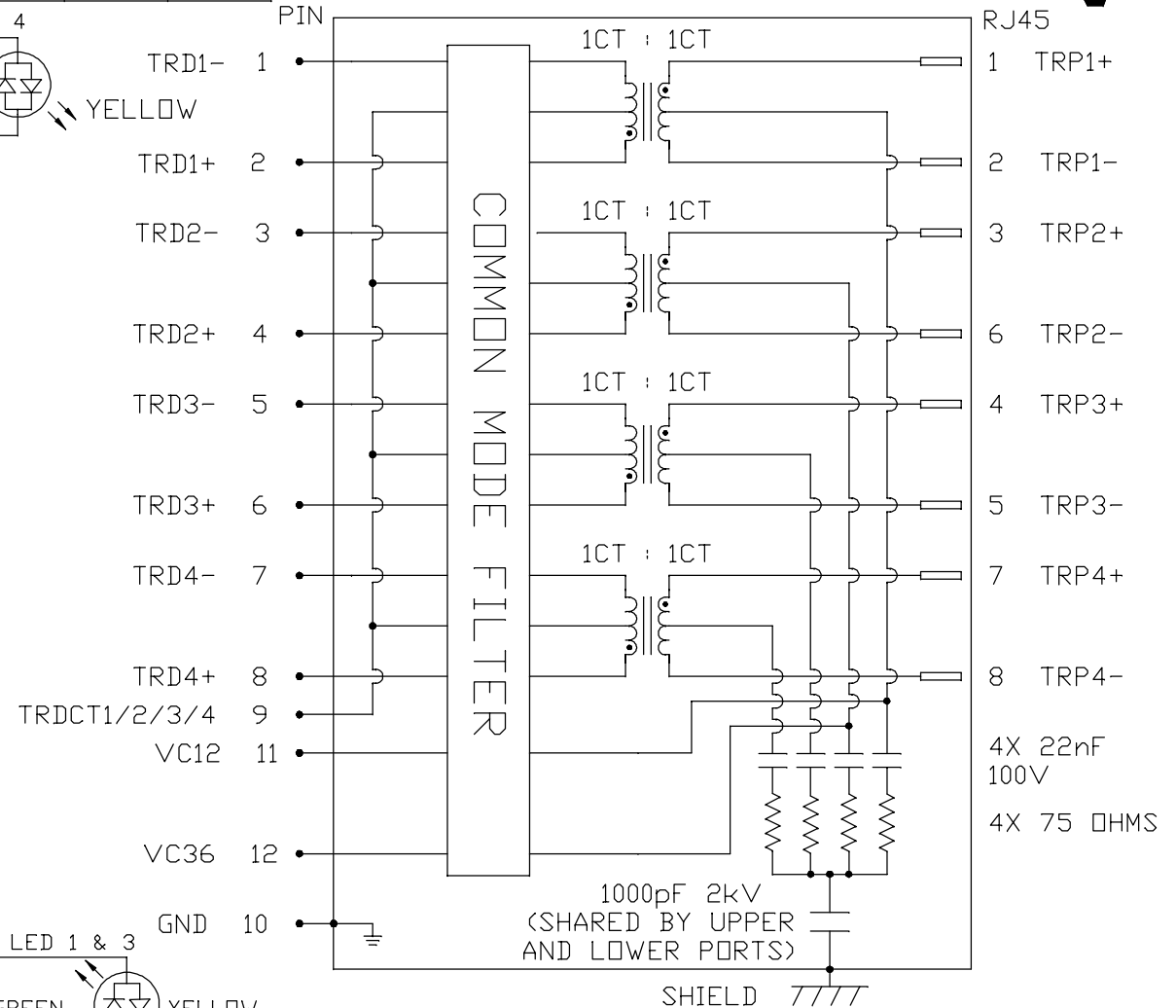
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
		YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	570nm TYP.
		YELLOW	590nm TYP.

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

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

PART NO. / DRAWING NO.
0895-2C6R-GK

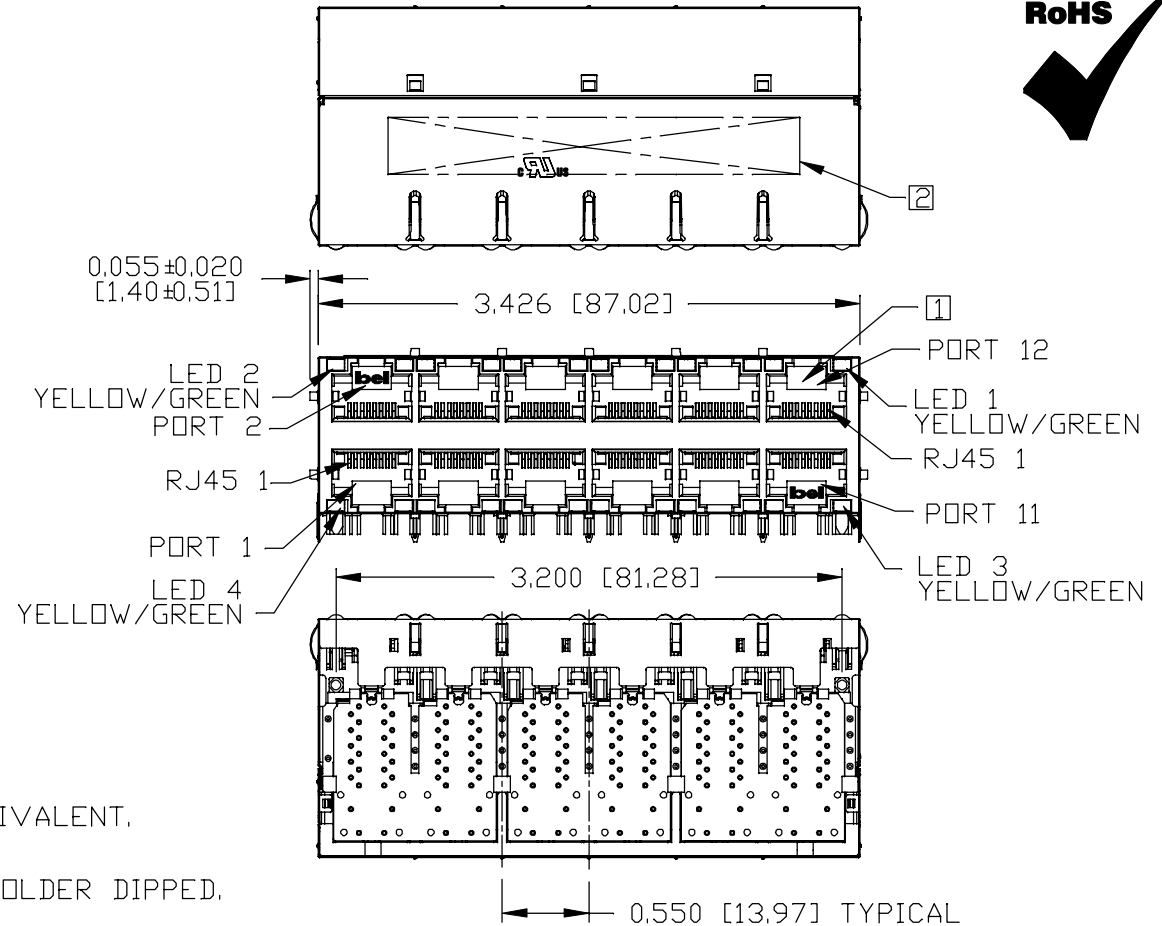
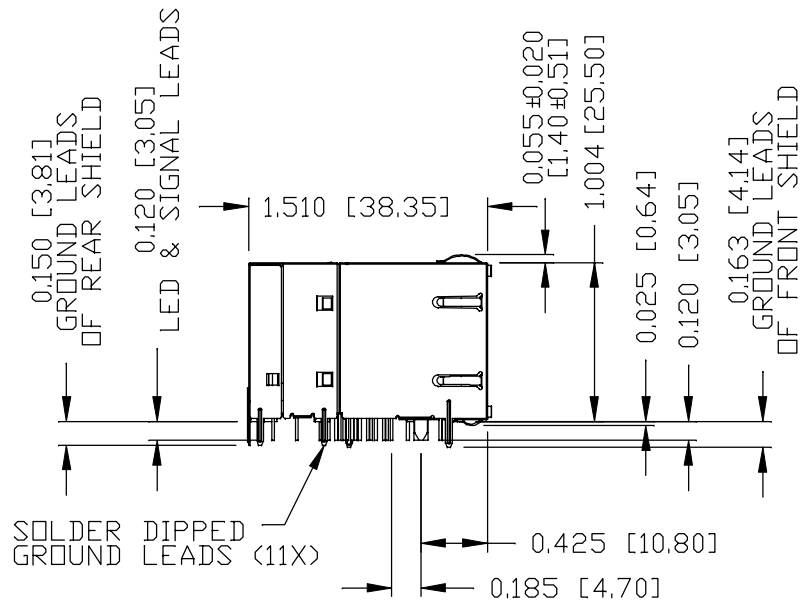
FILE NAME
0895-2C6R-GK_B.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. 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.

UL UL RECOGNIZED - FILE #E196366 AND E169987.

REV. : B PAGE : 3

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

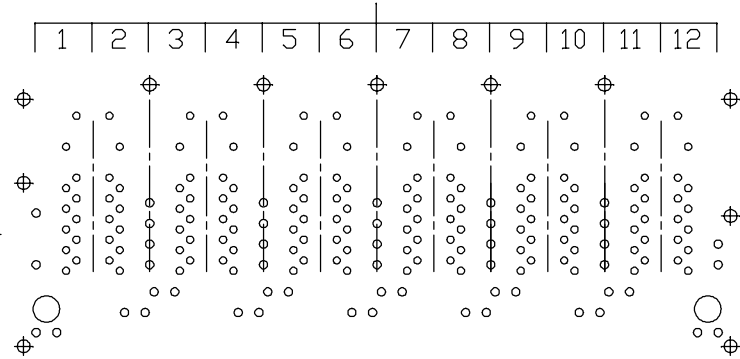
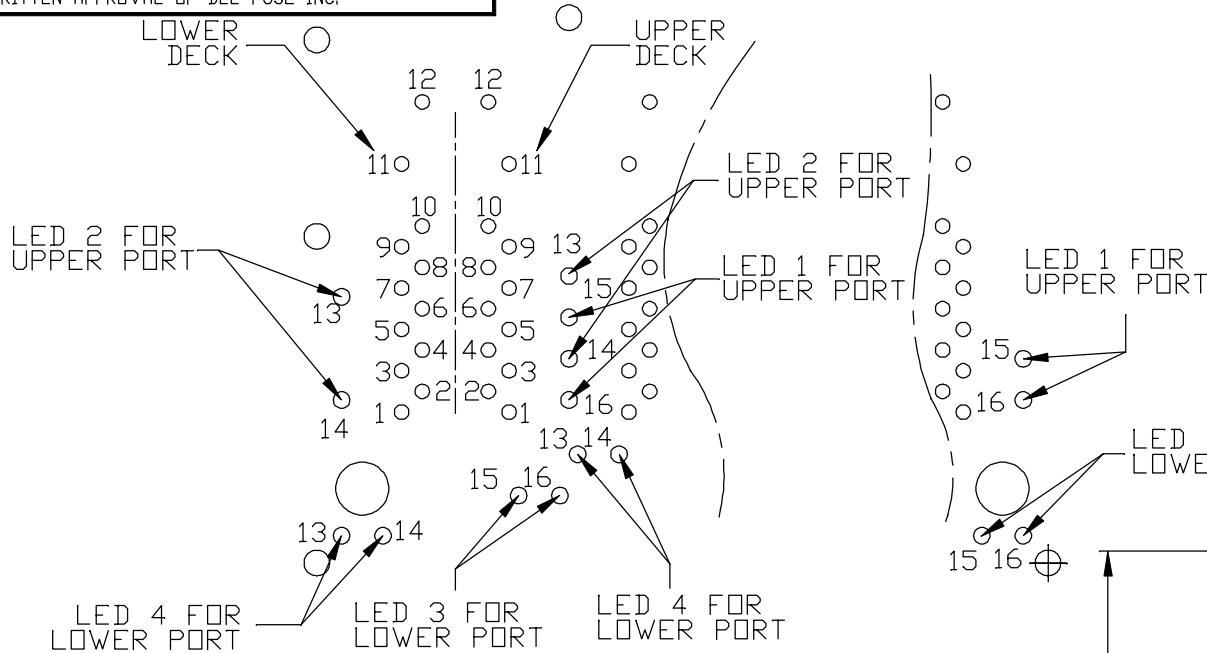


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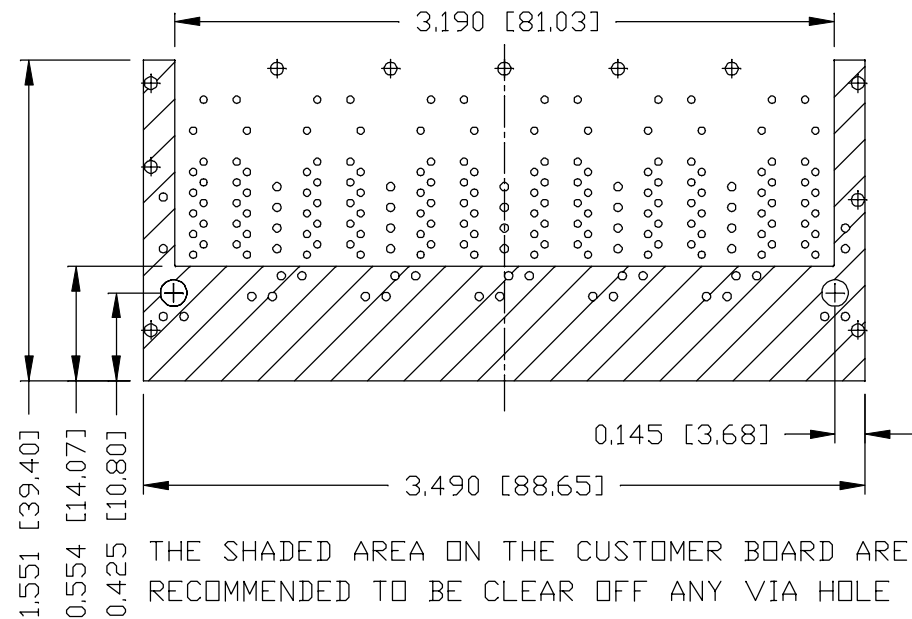


PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



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.

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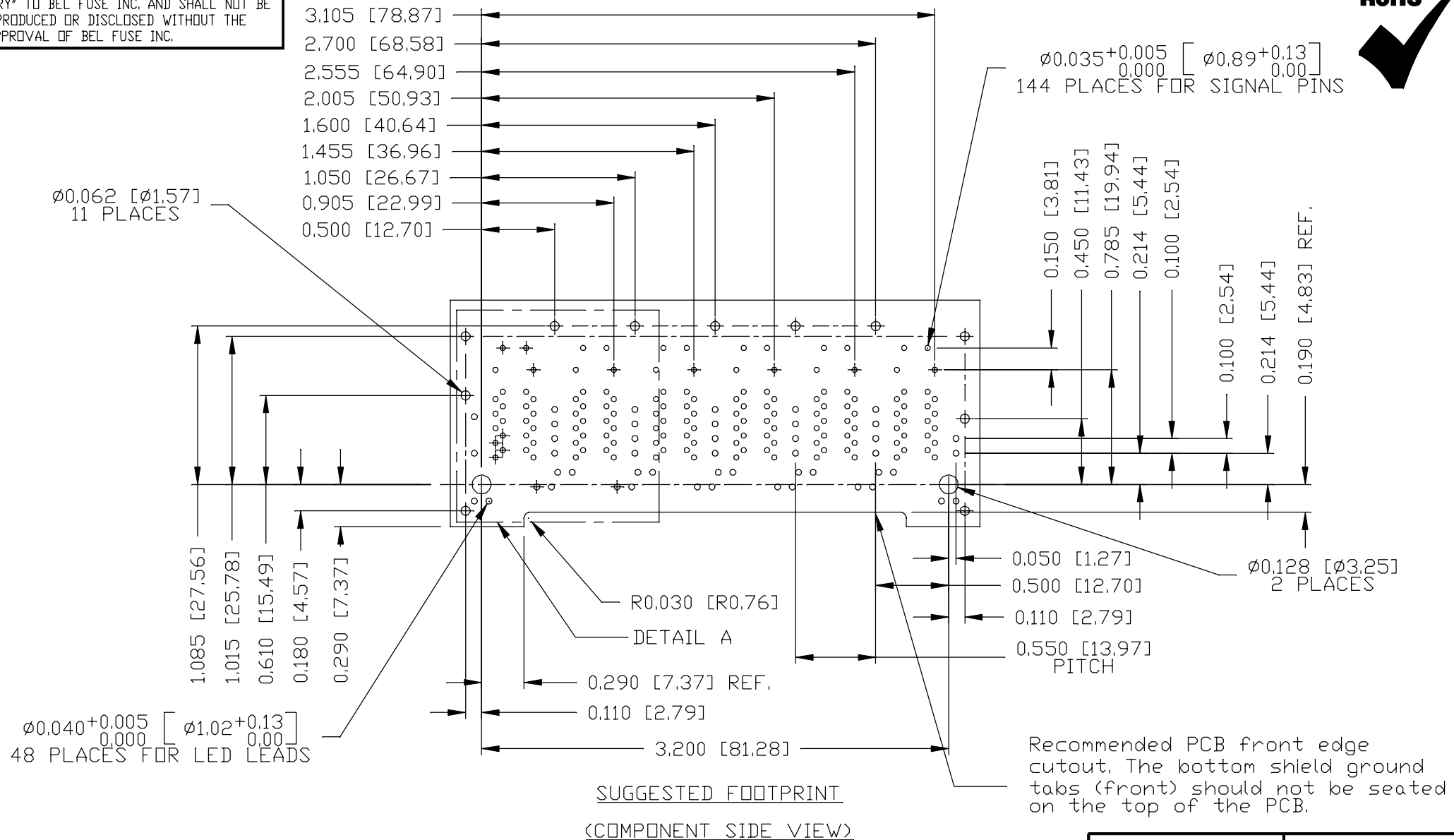
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.XXX ±0.004 SIZE : A4



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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

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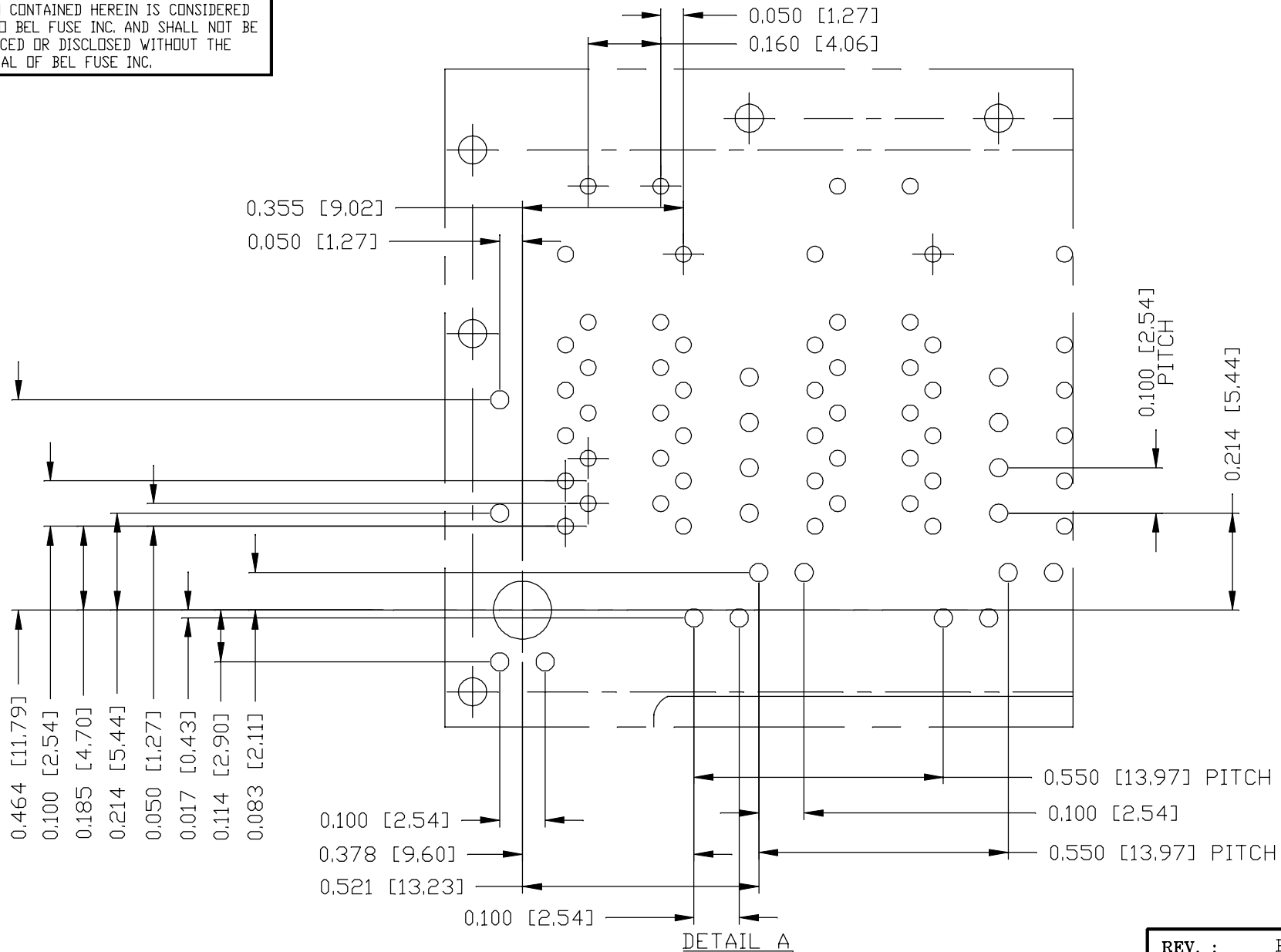
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DETAIL A

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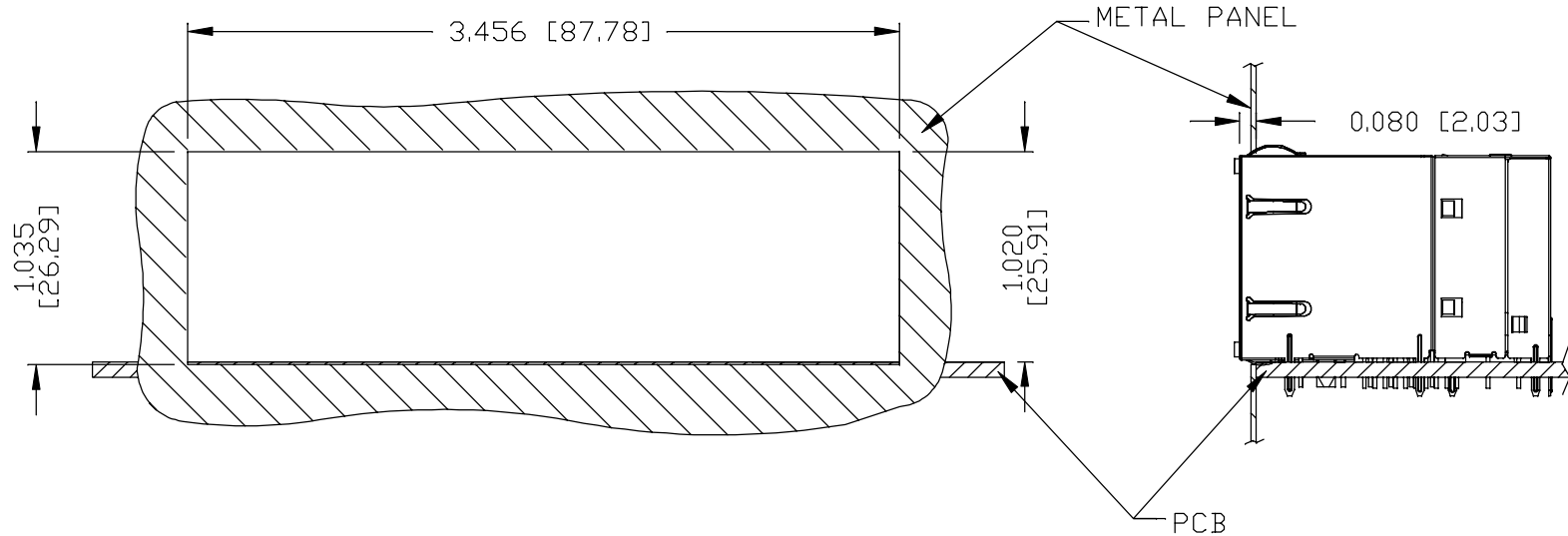


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SUGGESTED PANEL OPENING



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)

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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	[] METRIC DIM. AS REF.
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