

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.

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

RoHS



ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

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

□CL @ 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) @ 100□HMS ±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.

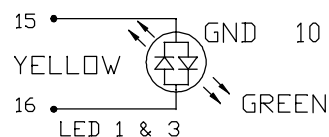
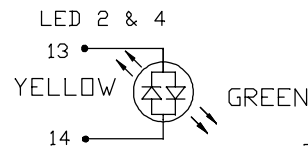
BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS
1.2A MAX. FOR 200 MILLISECONDS

OPERATING TEMPERATURE -40°C TO +85°C

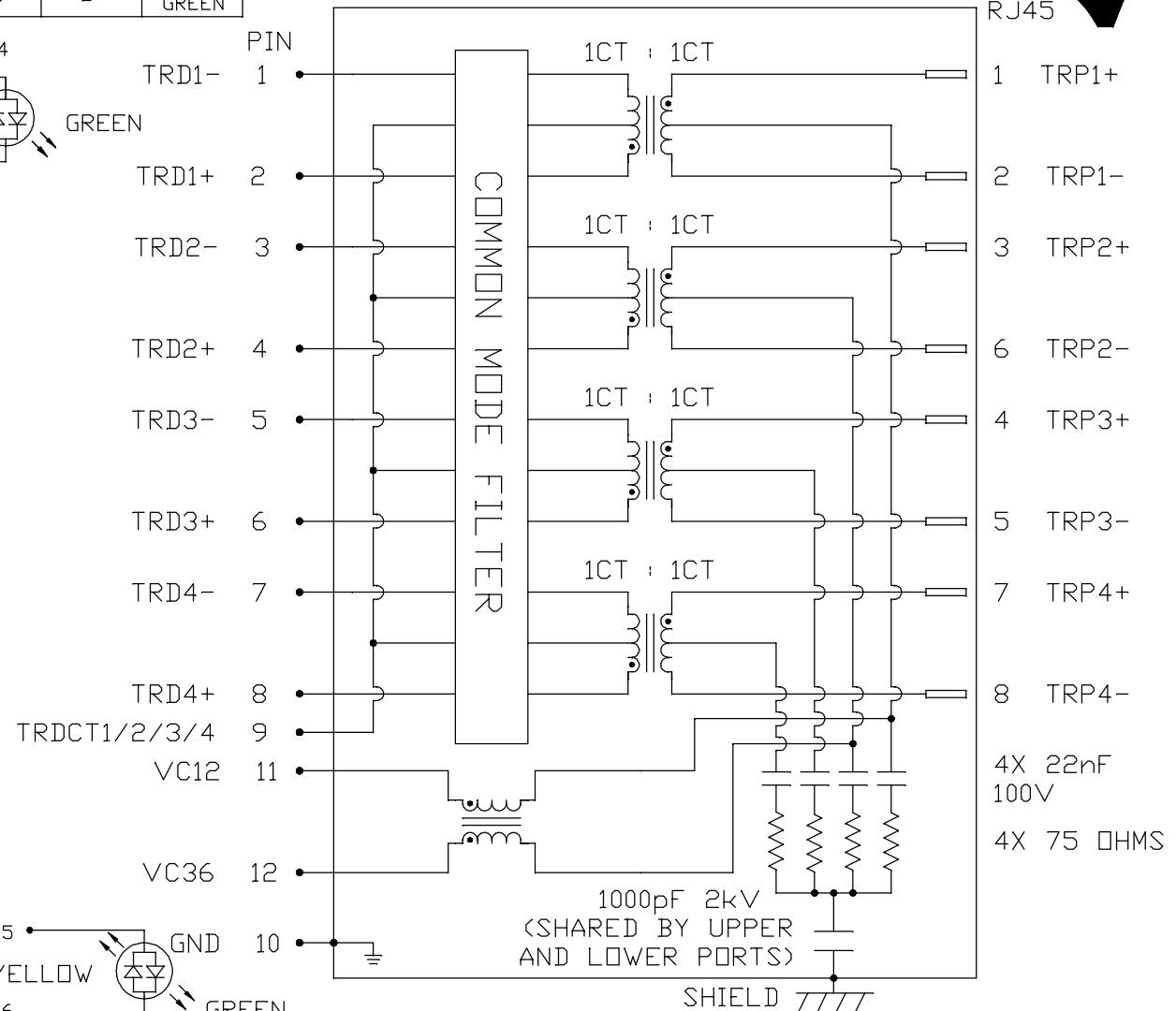
LEDS 1, 2, 3 AND 4

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.
IF=20mA YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP. YELLOW
IF=20mA YELLOW 590nm TYP.



SCHEMATIC



ORIGINATED BY CHOW WANCHUNG	TITLE 2X6 gigabit MagJack® PoEp (Extended temperature)
DATE 2019-03-27	
DRAWN BY XIE YIMING	08AN-2C6R-GK-C PATENTED
DATE 2019-03-27	

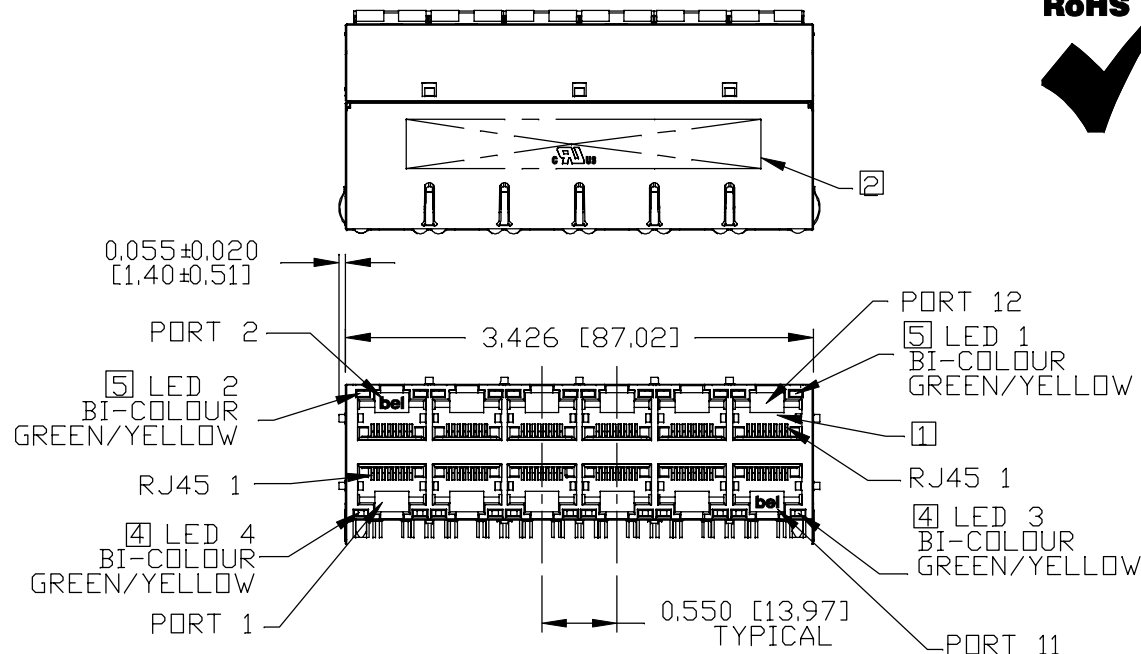
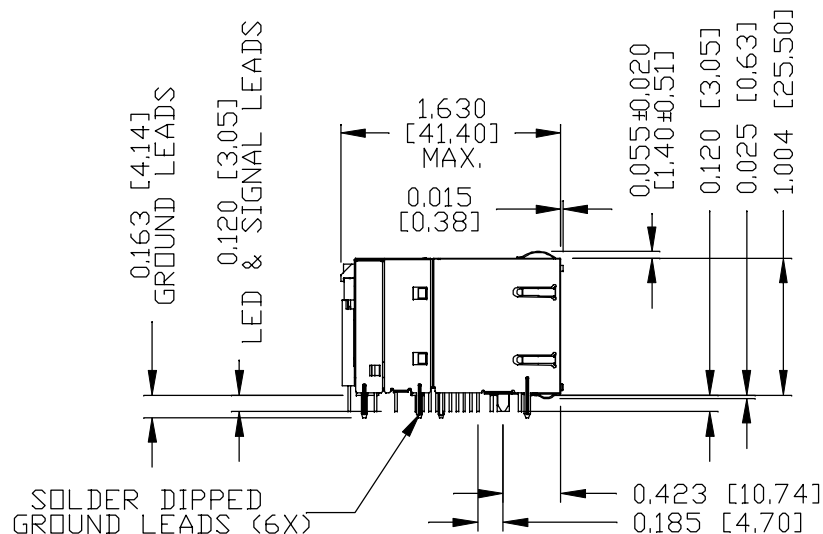
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FILE NAME 08AN2C6RGK-C_B.DWG	.X	UNIT : INCH [mm]
	.XX	SCALE : N/A
	.XXX	SIZE : A4

REV. : B	PAGE : 2
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NOTE:

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;
 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. SPECIAL LED 3 & 4 CONFIGURATION: TWO STEP LED HEAD, LOW INTENSITY LIGHT.
- 5. SPECIAL LED 1 & 2 CONFIGURATION: SUPER INTENSITY LIGHT.
- 6. THE AXIAL RETENTION FORCE OF RJ PORT IS 15LB MIN..

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

ORIGINATED BY
SANDY LIN
DATE 2019-03-27
DRAWN BY
OLIVER ZHANG
DATE 2019-03-27

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PoEp
(Extended temperature)
08AN-2C6R-GK-C
PATENTED

PART NO. / DRAWING NO.
08AN2C6RGK-C
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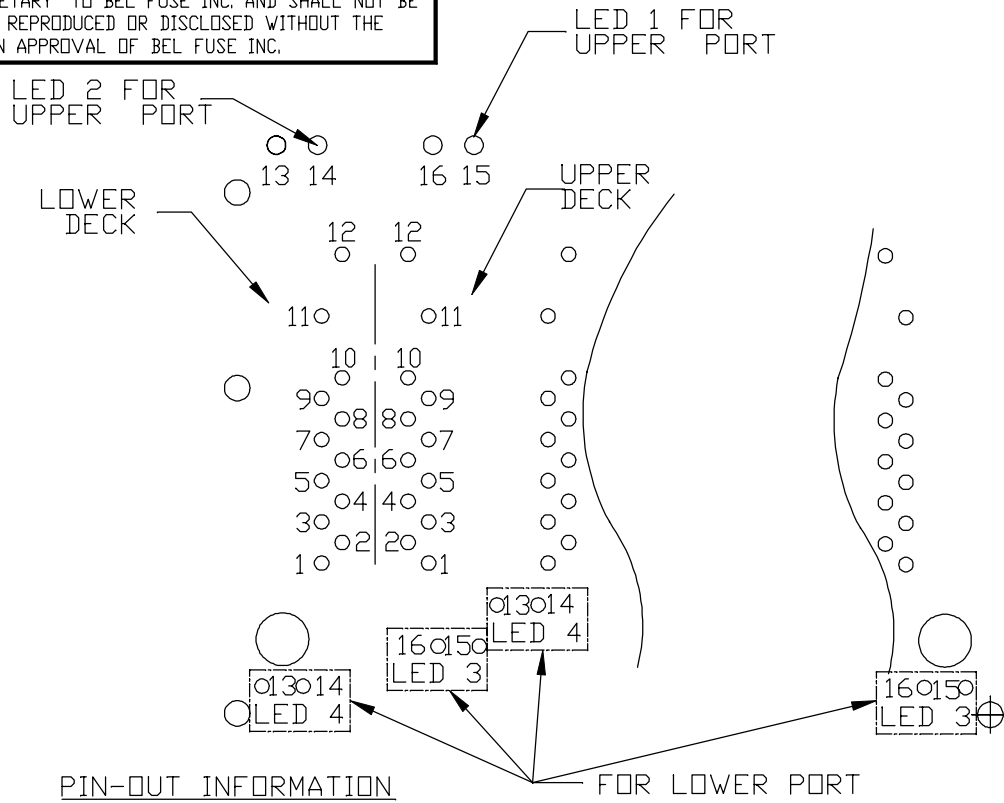
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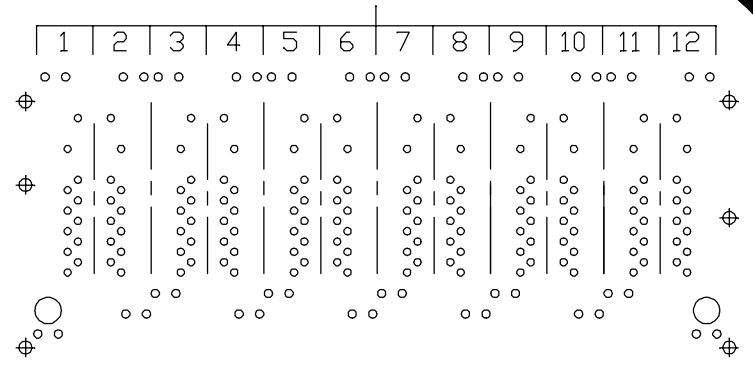


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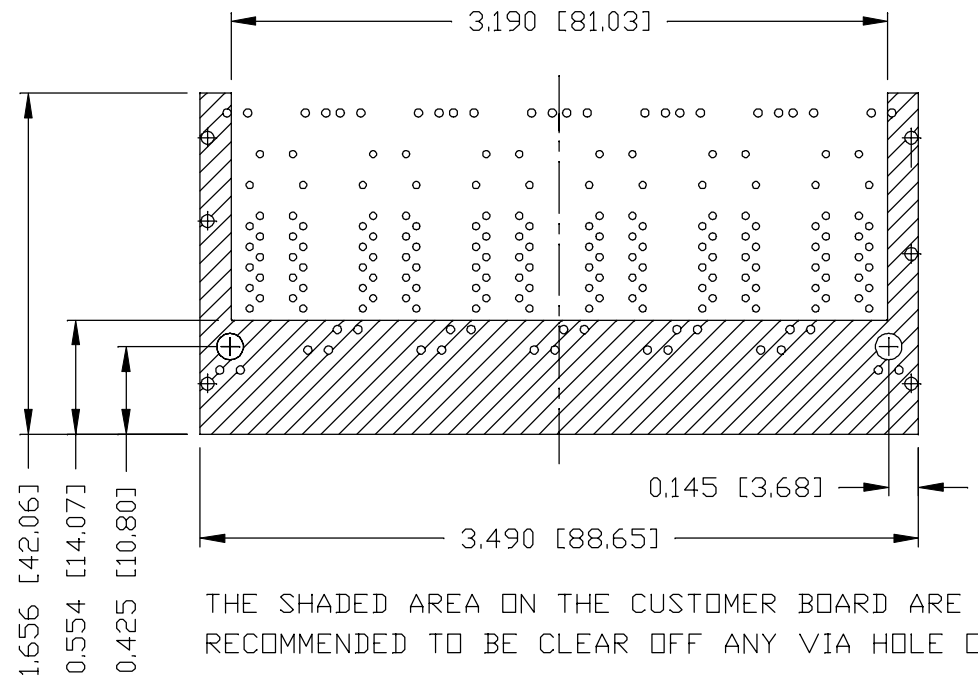


PORT ASSIGNMENT
(COMPONENT SIDE VIEW)



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	YELLOW (+)/GREEN (-)
3	TRD 2-	15	YELLOW (-)/GREEN (+)
2	TRD 1+	14	YELLOW (+)/GREEN (-)
1	TRD 1-	13	YELLOW (-)/GREEN (+)



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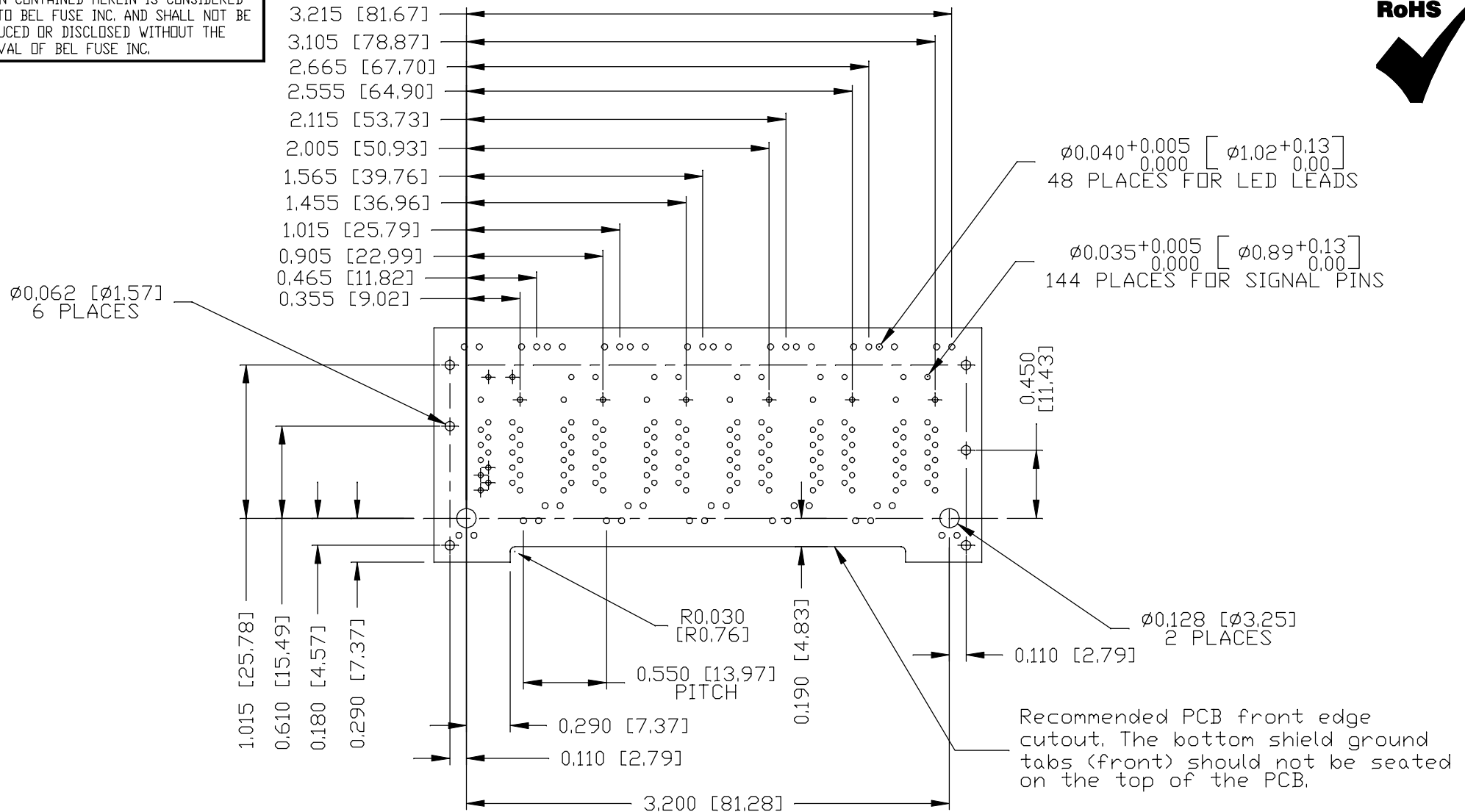
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.XXX ±0.004	SIZE : A4

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SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

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DATE 2019-03-27
DRAWN BY
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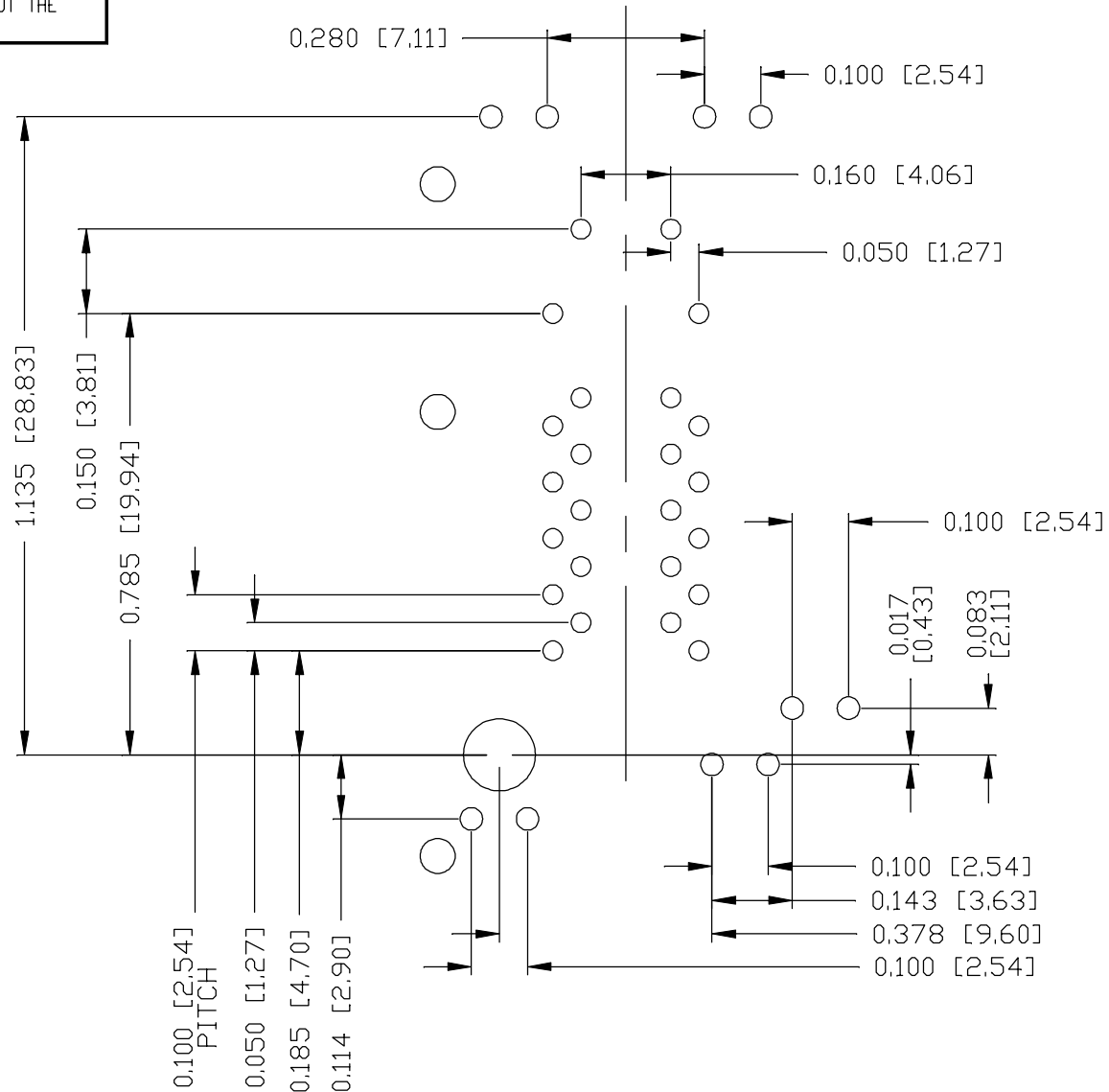
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FILE NAME
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REV. :	B	PAGE :	6
		STANDARD DIM. [] METRIC DIM.	
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.XXX	±0.004	⊕	SIZE : A4

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DATE 2019-03-27

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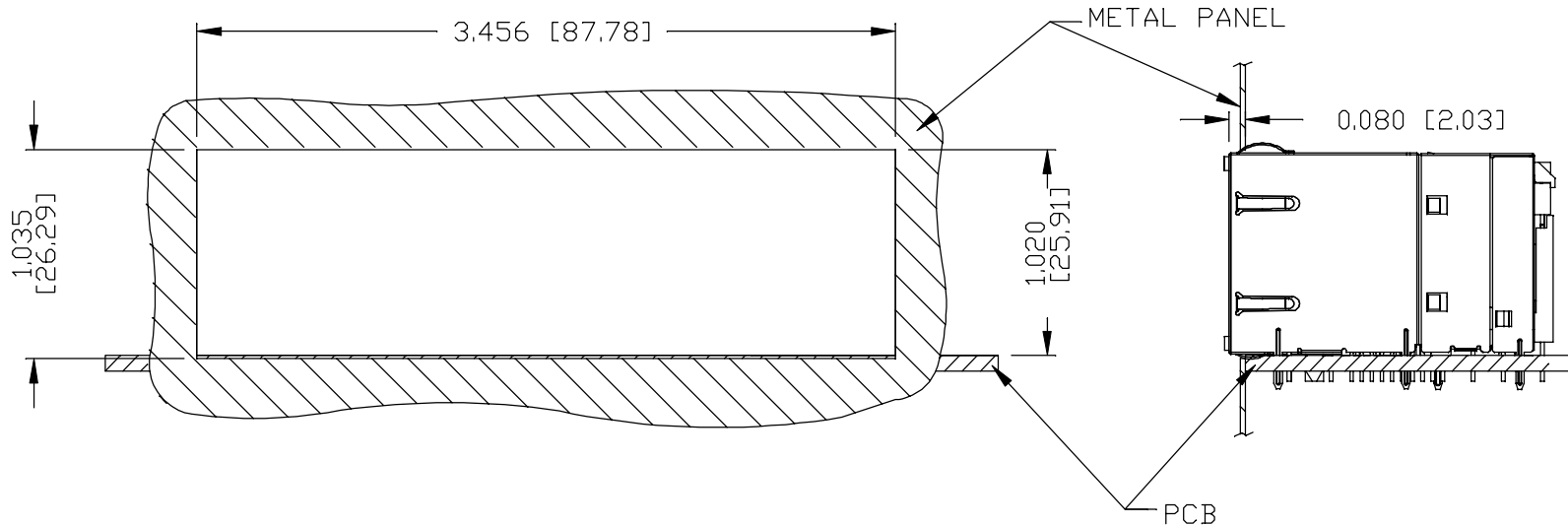
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SUGGESTED PANEL OPENING



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-G6 (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

ORIGINATED BY SANDY LIN DATE 2019-03-27	TITLE 2X6 glgablt MagJack® PoEp (Extended temperature) 08AN-2C6R-GK-C PATENTED	PART NO. / DRAWING NO. 08AN2C6RGK-C	STANDARD DIM.		[] METRIC DIM.
			TOL. IN INCH		AS REF.
			.X		UNIT : INCH [mm]
DRAWN BY OLIVER ZHANG DATE 2019-03-27		FILE NAME 08AN2C6RGK-C_B.DWG	.XX		SCALE : N/A
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