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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

TURNS RATIO

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

OCL @ 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) @ 100ΩHMS ±15%

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(F/80MHz) dB

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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CM TO DM REJ

100kHz - 100MHz	-35 dB MIN
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HIPOT (Isolation Voltage): 2250 VDC

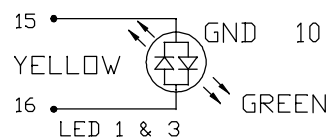
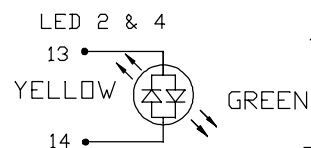
100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.

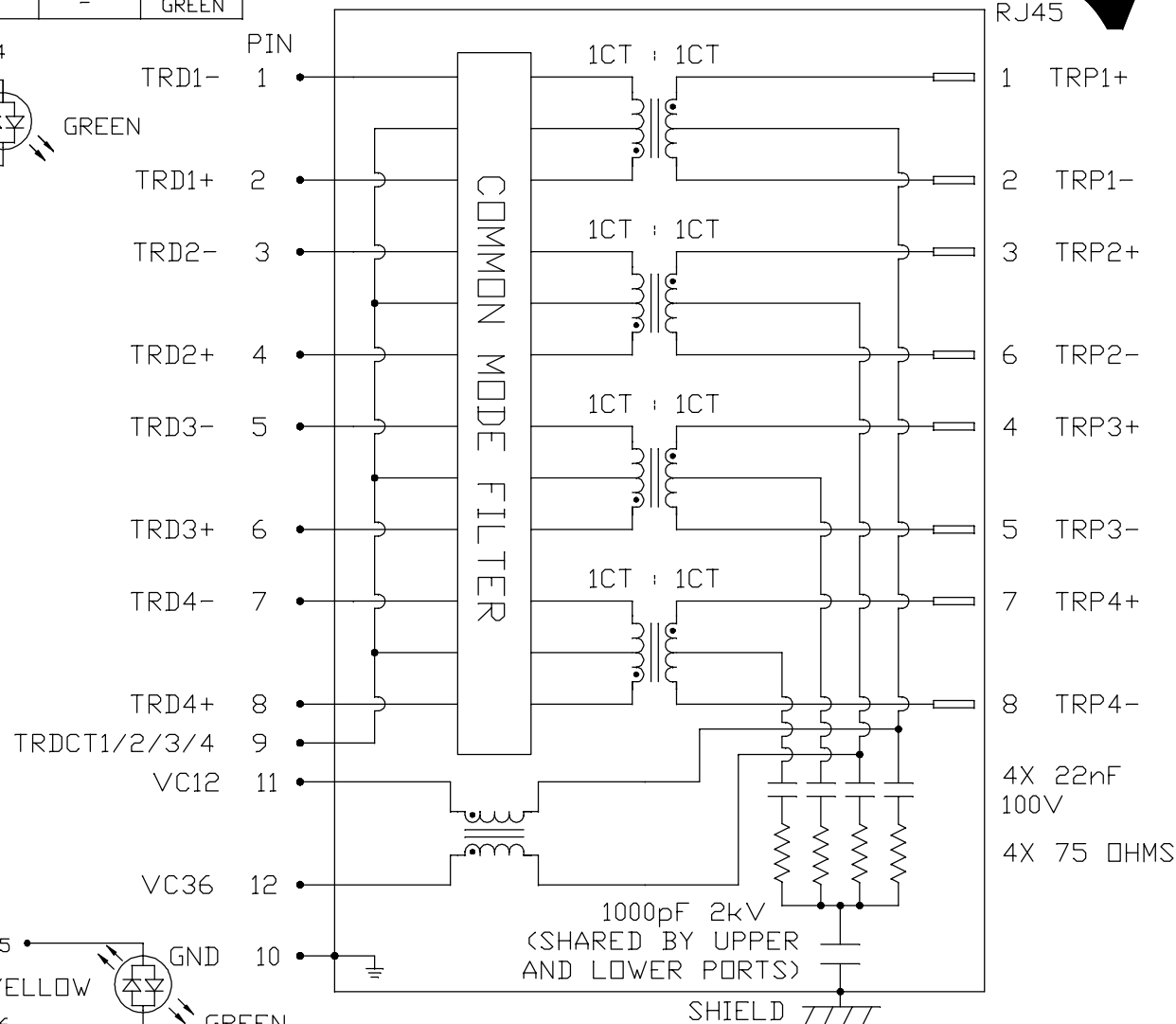
BALANCED DC LINE CURRENT 600mA MAX. CONTINUOUS
1.2A MAX. FOR 200 MILLISECONDS

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



RJ45

1 TRP1+

2 TRP1-

3 TRP2+

6 TRP2-

4 TRP3+

5 TRP3-

7 TRP4+

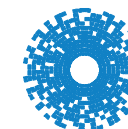
8 TRP4-

4X 22nF
100V

4X 75 ΩHMS

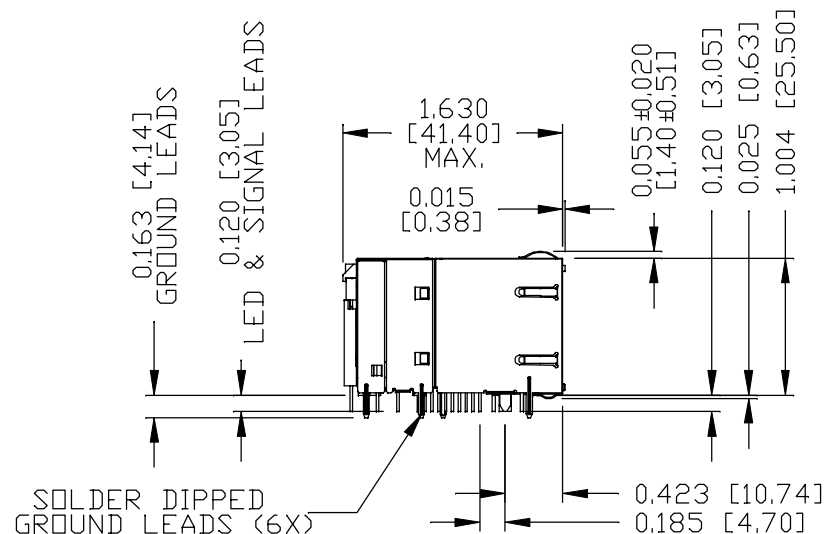
REV. : B

PAGE : 2

ORIGINATED BY
CHOW WANCHUNG
DATE 2019-03-27DRAWN BY
XIE YIMING
DATE 2019-03-27TITLE
2X6 gigabit MagJack®
PoE
(Extended temperature)
08AN-2C6R-GK-C
PATENTEDPART NO. / DRAWING NO.
08AN2C6RGK-CFILE NAME
08AN2C6RGK-C_B.DWGSTANDARD DIM.
TOL. IN INCH.X
.XX
.XXX[] METRIC DIM.
AS REF.UNIT : INCH [mm]
SCALE : N/A
SIZE : A4bel
a bel group
MAGNETIC
SOLUTIONS

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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.

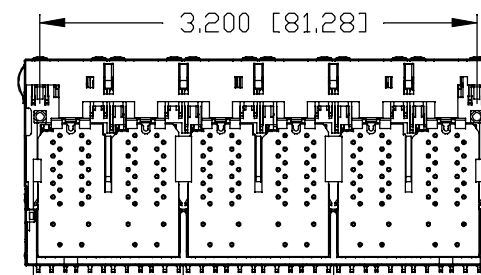
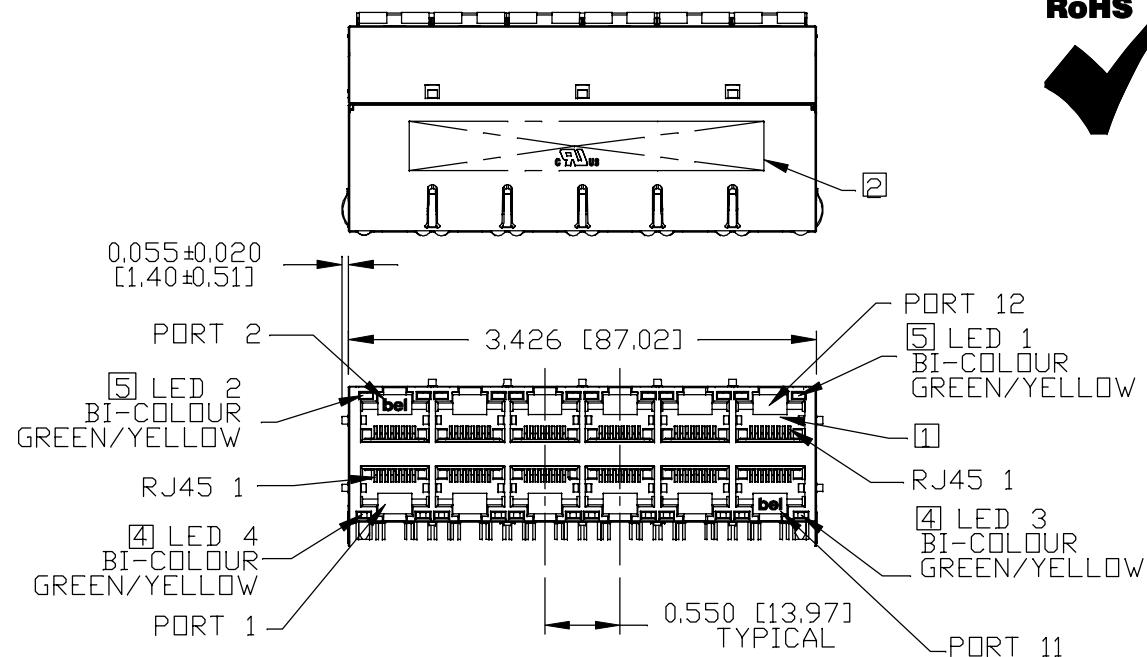
3. THE PRODUCT IS RoHS COMPLIANT.

UL RECOGNIZED - FILE #E196366 AND E169987.

[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.

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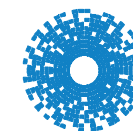
PAGE : 3

ORIGINATED BY
SANDY LIN
DATE 2019-03-27TITLE
2X6 gigabit MagJack®
PoEp
(Extended temperature)
08AN-2C6R-GK-C
PATENTEDPART NO. / DRAWING NO.
08AN2C6RGK-CFILE NAME
08AN2C6RGK-C_B.DWGSTANDARD DIM.
TOL. IN INCH.X
.XX
.XXX ±0.010[] METRIC DIM.
AS REF.

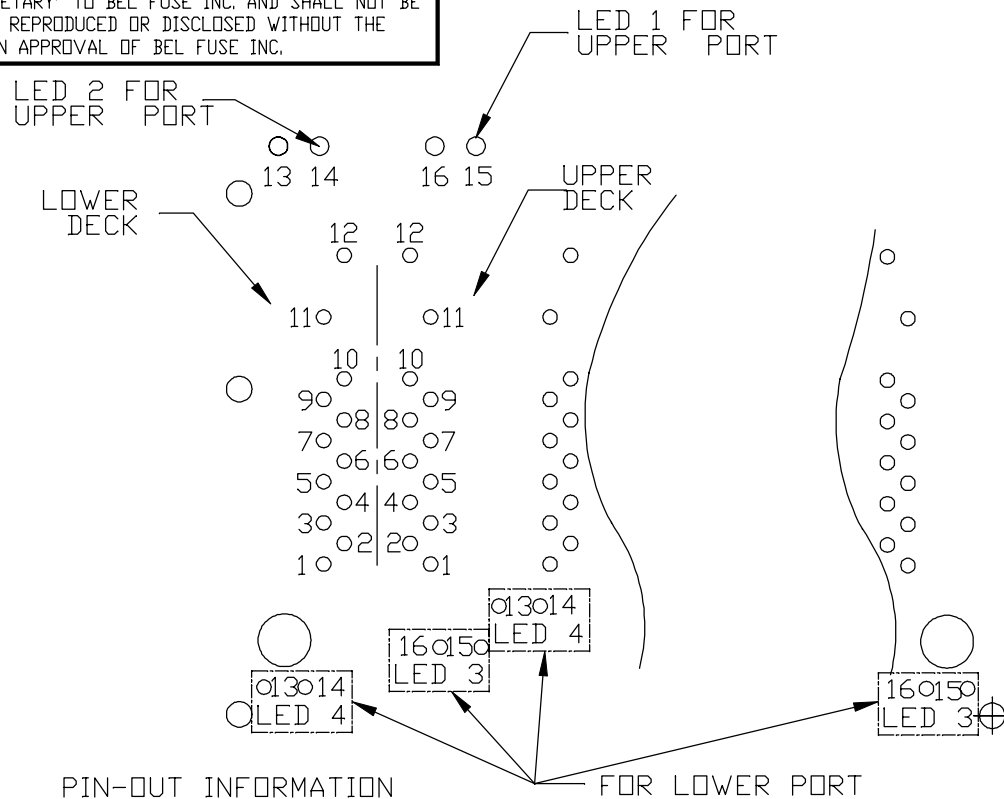
UNIT : INCH [mm]

SCALE : N/A

SIZE : A4

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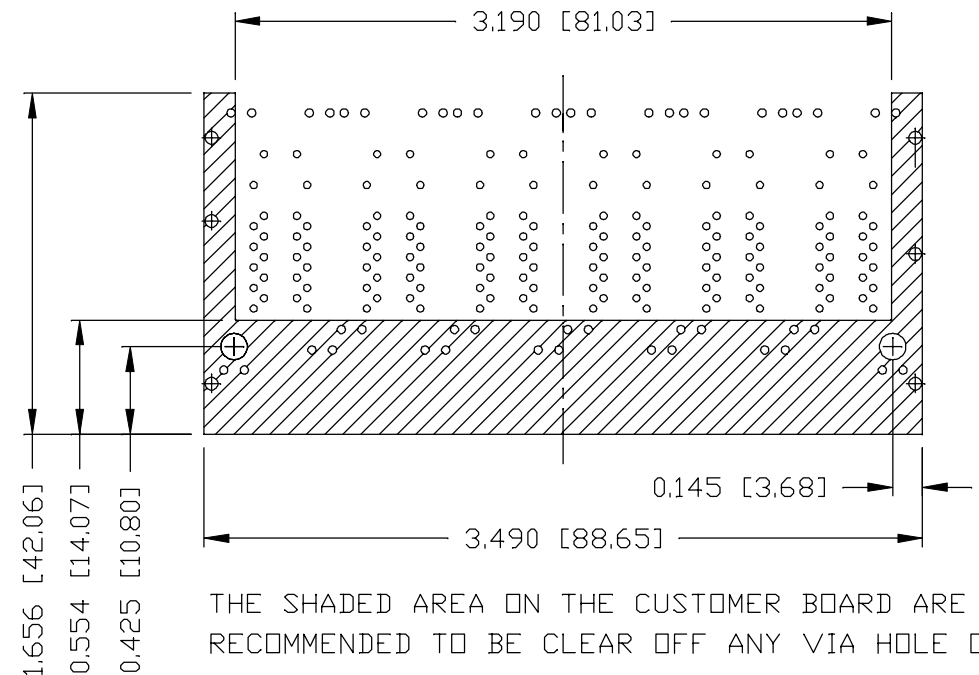
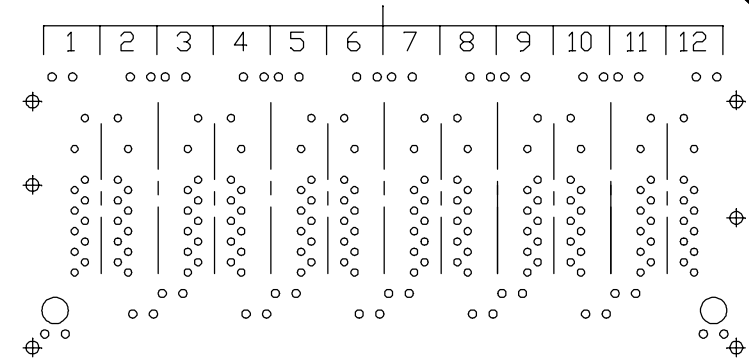
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PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

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 (+)

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
SANDY LIN
DATE 2019-03-27

DRAWN BY
OLIVER ZHANG
DATE 2019-03-27

TITLE
2X6 gigabit MagJack®
PoEp
(Extended temperature)
08AN-2C6R-GK-C
PATENTED

PART NO. / DRAWING NO.
08AN2C6RGK-C

FILE NAME
08AN2C6RGK-C_B.DWG

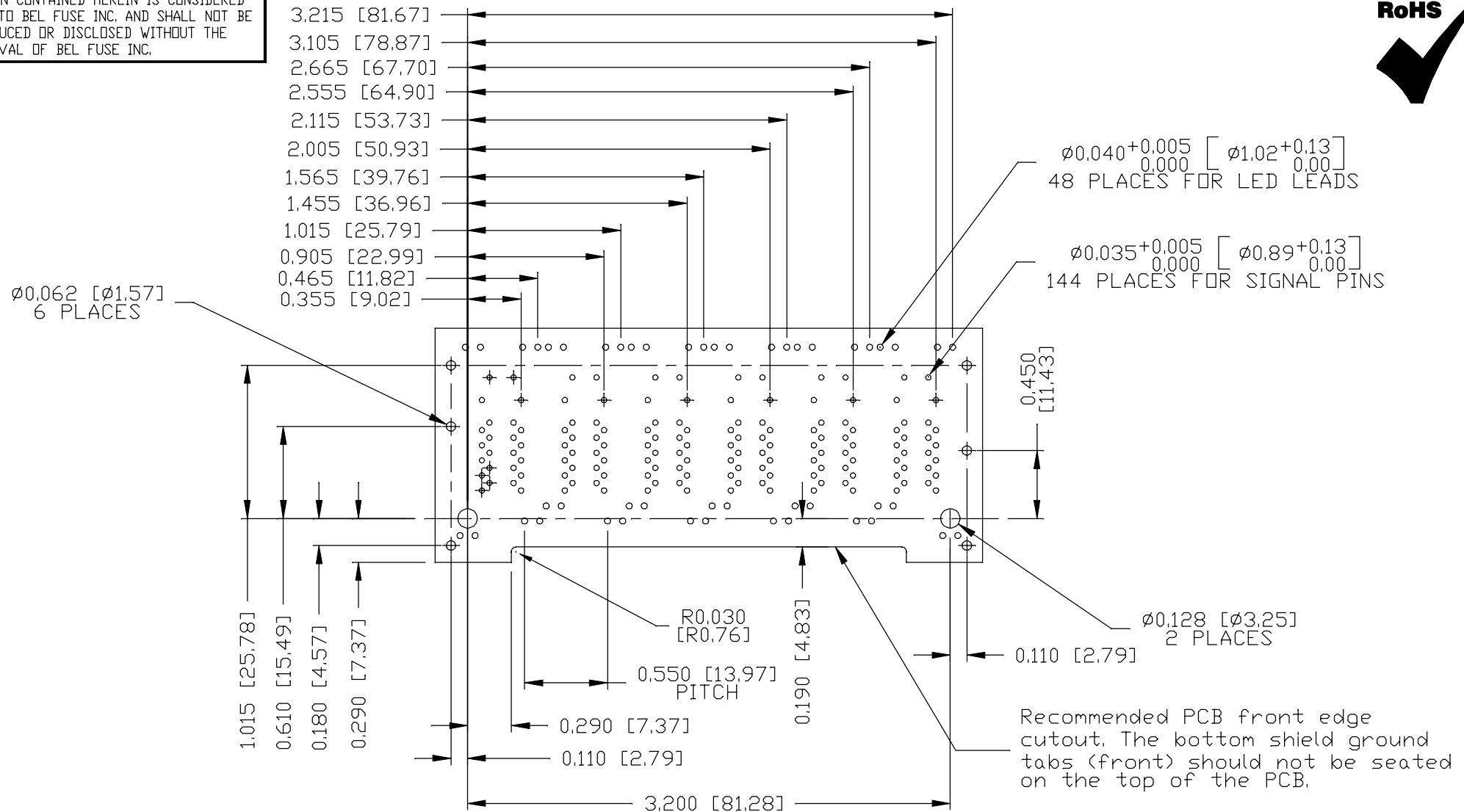
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.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4

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SUGGESTED FOOTPRINT

(COMPONENT SIDE VIEW)

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DATE 2019-03-27

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PATENTED

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FILE NAME
08AN2C6RGK-C_B.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

UNIT : INCH [mm]
SCALE : N/A
SIZE : A4

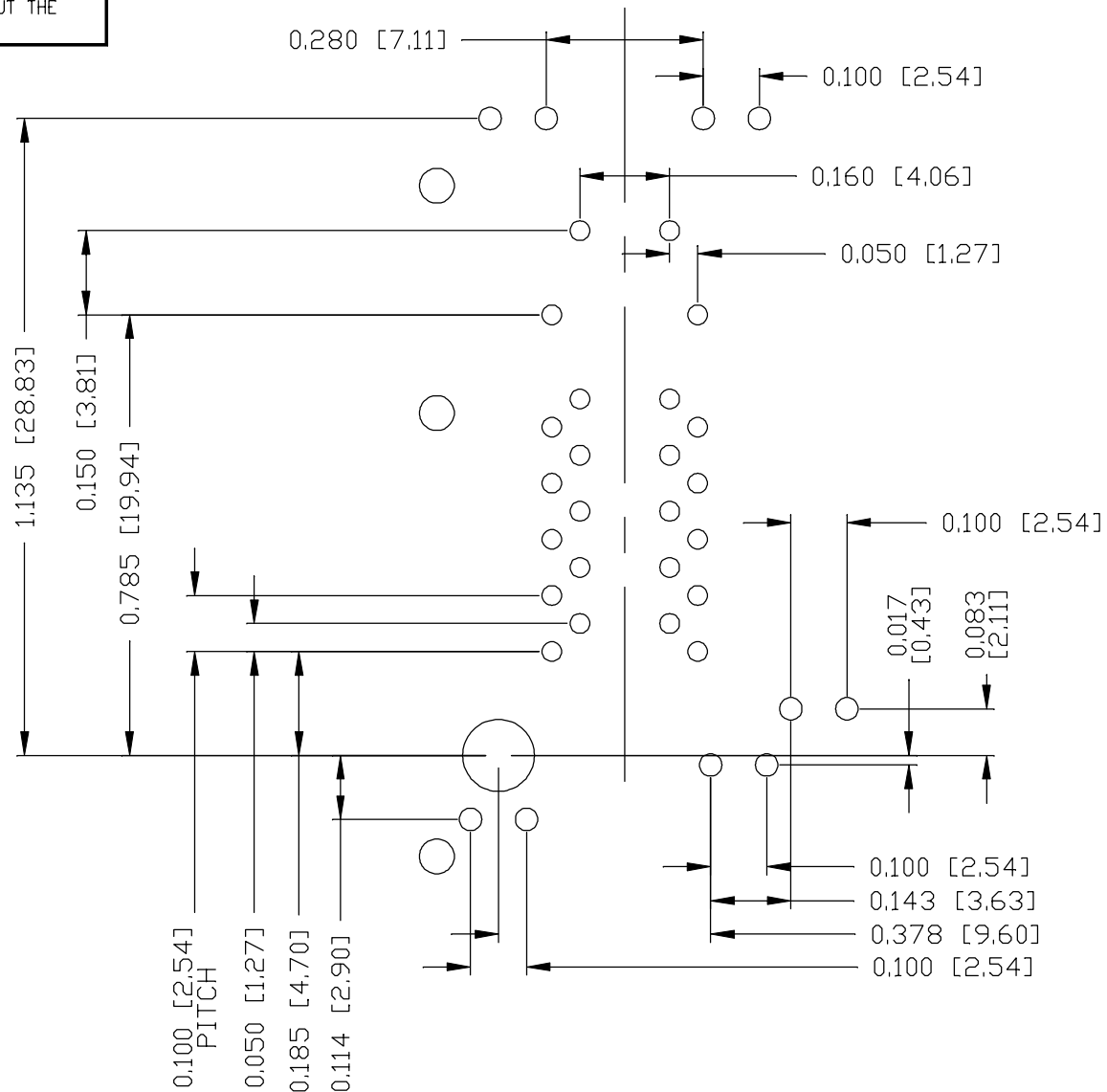
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PAGE : 5



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DATE 2019-03-27

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TITLE
2X6 gigabit MagJack®
PoEp
(Extended temperature)
08AN-2C6R-GK-C
PATENTED

PART NO. / DRAWING NO.
08AN2C6RGK-C

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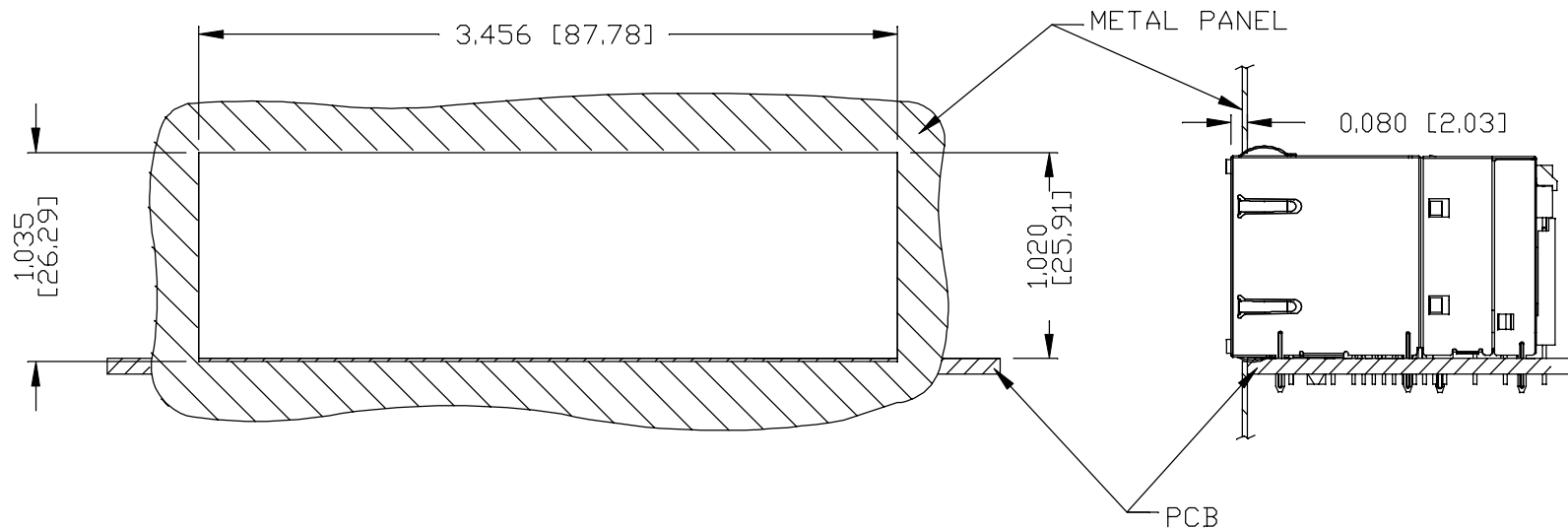
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.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	±0.004	SIZE : A4

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SUGGESTED PANEL OPENINGNOTE:

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
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ORIGINATED BY SANDY LIN DATE 2019-03-27	TITLE 2X6 glgabit MagJack® PoEp (Extended temperature) 08AN-2C6R-GK-C PATENTED	PART NO. / DRAWING NO. 08AN2C6RGK-C	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.		
		FILE NAME 08AN2C6RGK-C_B.DWG	.X		UNIT : INCH [mm]		
			.XX		SCALE : N/A		
DRAWN BY OLIVER ZHANG DATE 2019-03-27					.XXX	±0.005	

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