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ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

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

DCL @ 100kHz/100mVRMS
 (-40°C - 85°C) 180µH MIN.

INS. LOSS 1MHz TO 150MHz -0.004(fMHz)-0.4 dB MAX

RET. LOSS 1MHz-40MHz -20 dB MIN
 40.1MHz-150MHz -20+15LOG(f/40MHz) dB MIN

CROSSTALK 1MHz - 40MHz -35 dB MIN
 40.1MHz-150MHz -35+15LOG(f/40MHz) dB MIN
 CM TO CM REJ 1MHz - 150MHz -25 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

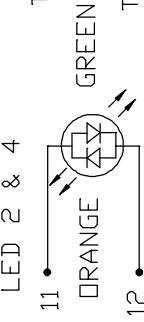
VF (FORWARD VOLTAGE) IF=20mA ORANGE 2.0V TYP.
 GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA ORANGE 605nm TYP.
 GREEN 570nm TYP.

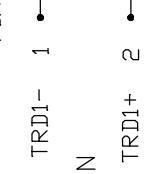
OPERATING TEMPERATURE: -40°C TO +85°C.

LED 2 & 4 POLARITY		LED 1 & 3 POLARITY	
PIN 11	PIN 12	PIN 13	PIN 14
-	+	ORANGE	+
+	-	GREEN	-

LED 2 & 4

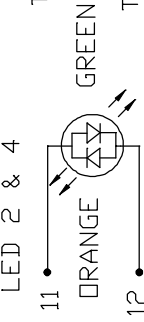


LED 1 & 3

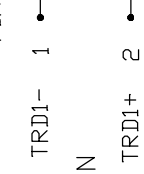


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LED 2 & 4

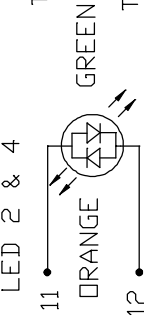


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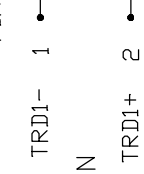


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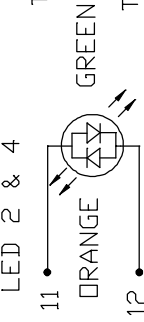


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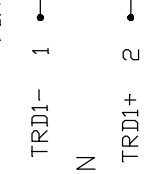


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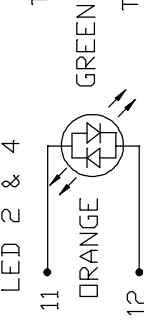


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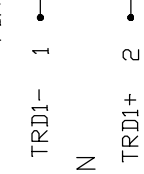


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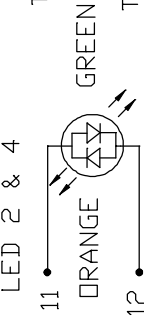


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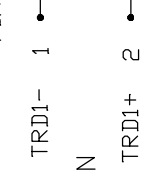


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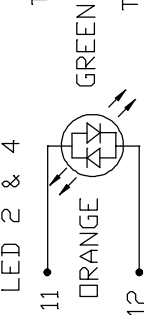


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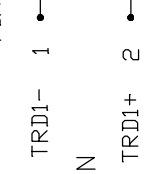


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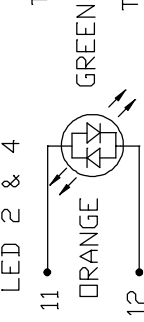


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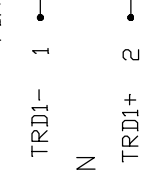


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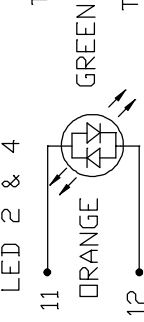


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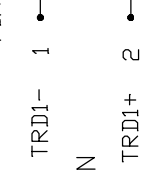


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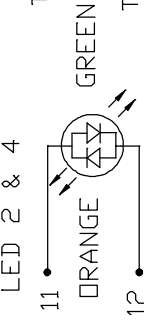


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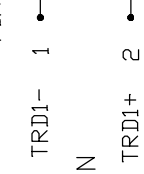


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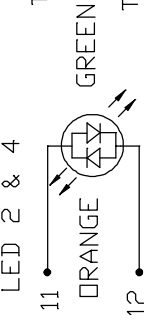


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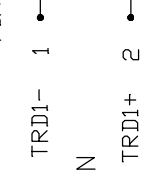


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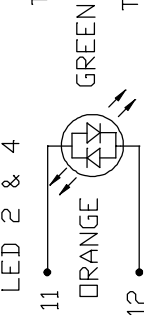


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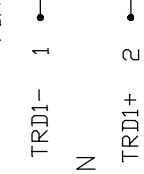


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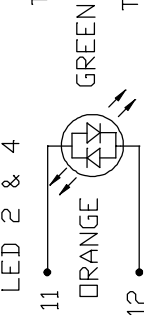


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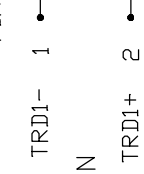


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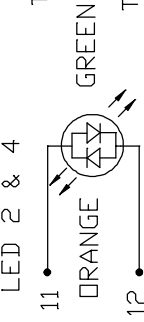


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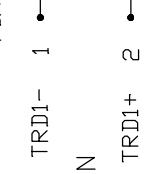


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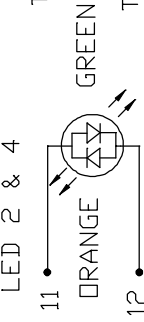


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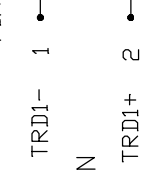


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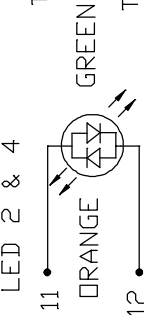


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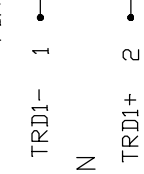


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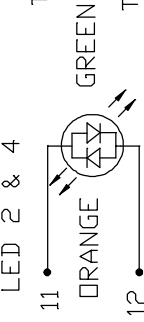


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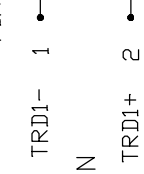


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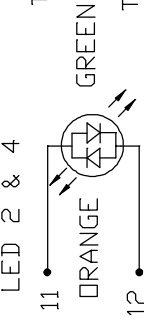


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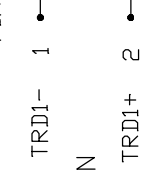


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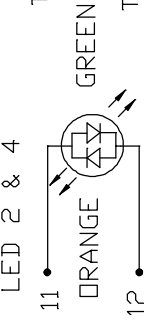


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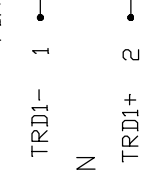


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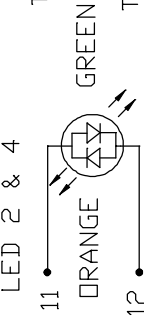


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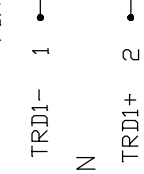


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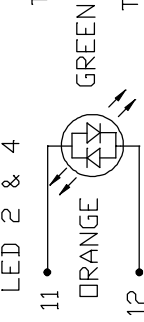


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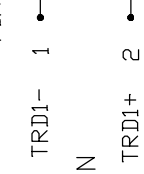


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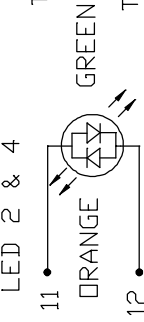


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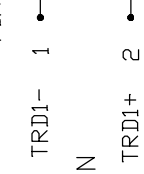


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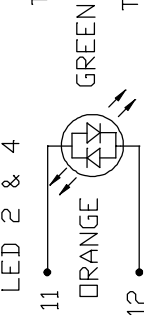


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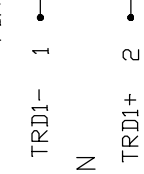


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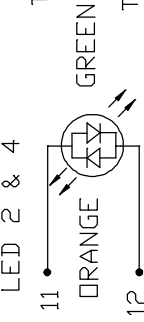


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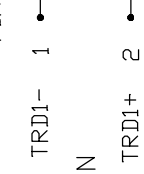


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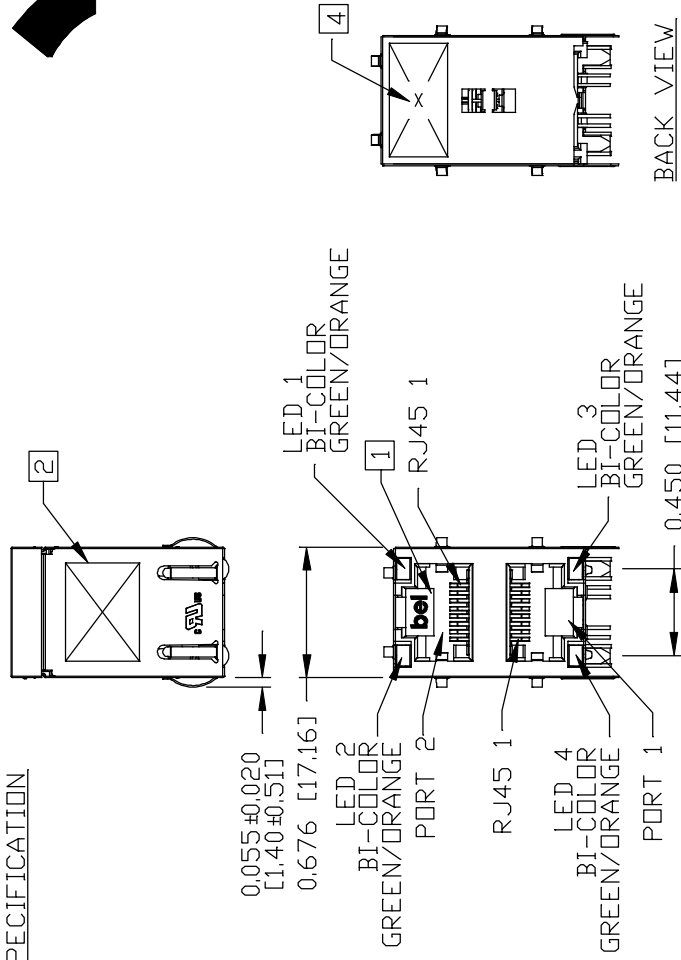
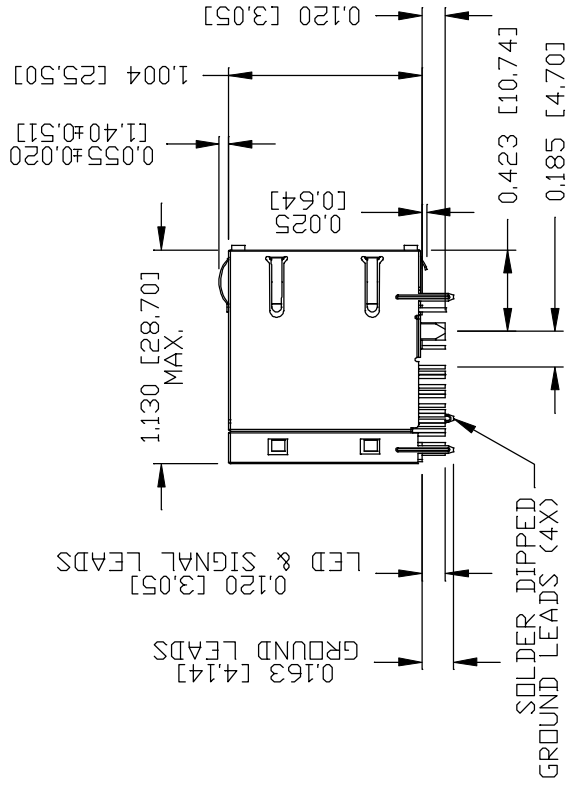


LED 1 & 3



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MECHANICAL SPECIFICATION



NOTES:

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
 2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.
 3. THE PRODUCT IS RoHS COMPLIANT.
 4. MARKING "PATENTED".
 5. THE PRODUCT IS PATENTED, THE PATENT NUMBER ARE U.S. PAT. 6,840,817 AND U.S. PAT. 7,123,117.
 6. THE PART IS RECOMMENDED FOR WAVE SOLDERING, THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

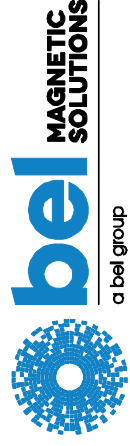
ORIGINATED BY
 ANTON LIAO
 DATE 2022-12-26
 DRAWN BY
 SANDY LIN
 DATE 2022-12-26

TITLE
 2X1 2.5 gigabit MagJack®
 WITH UPPER AND LOWER LED
 (8 Cores, Extended Temp.)
 PATENTED

PART NO. / DRAWING NO.
 0879-2B1R-JE
 FILE NAME
 0879-2B1R-JE_A.DWG

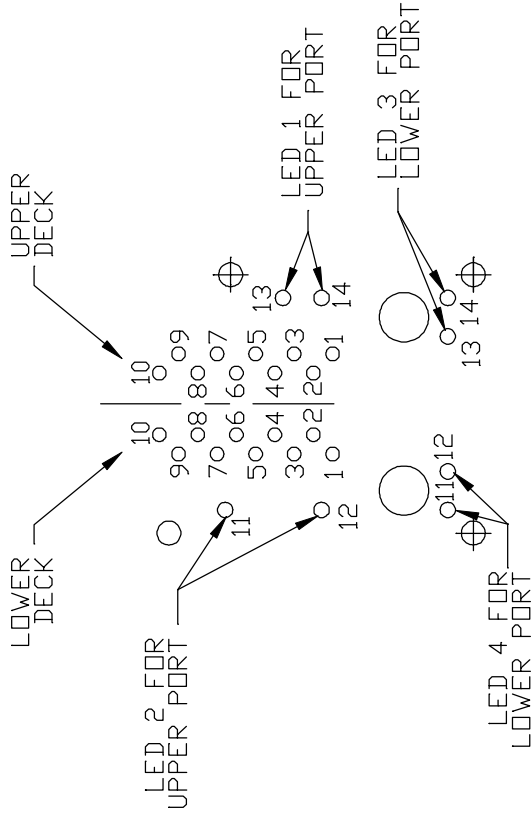
STANDARD DIM.
 TOL. IN INCH
 .X
 .XX
 .XXX
 AS REF.
 UNIT : INCH [mm]
 SCALE : N/A
 SIZE : A4

REV. : A PAGE : 3



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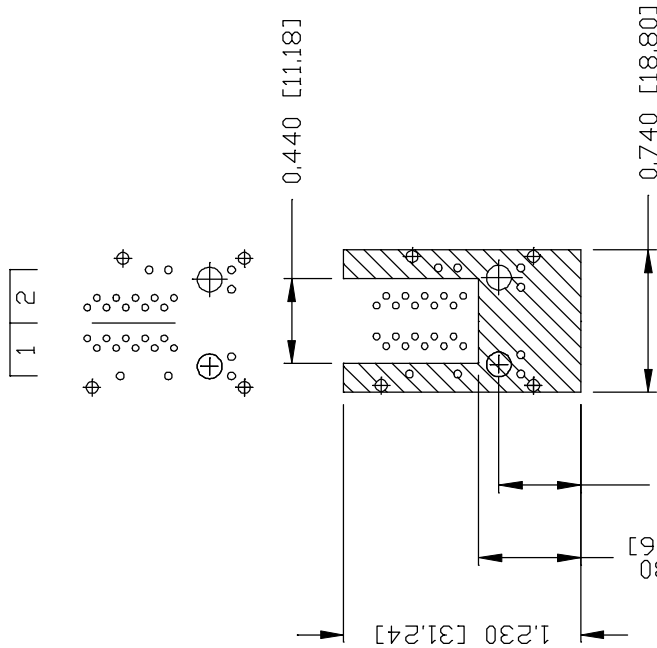
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PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)

10	GND
9	TRCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-
14	GREEN (-) ORANGE (+)
13	GREEN (+) ORANGE (-)
12	GREEN (-) ORANGE (+)
11	GREEN (+) ORANGE (-)

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
ANTON LIAO
DATE 2022-12-26
DRAWN BY
SANDY LIN
DATE 2022-12-26

TITLE
2X1 2.5 gigabit MagJack®
WITH UPPER AND LOWER LED
(8 Cores, Extended Temp.)
PATENTED

PART NO. / DRAWING NO.
0879-2B1R-JE
FILE NAME
0879-2B1R-JE_A.DWG

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

REV. : A PAGE : 4

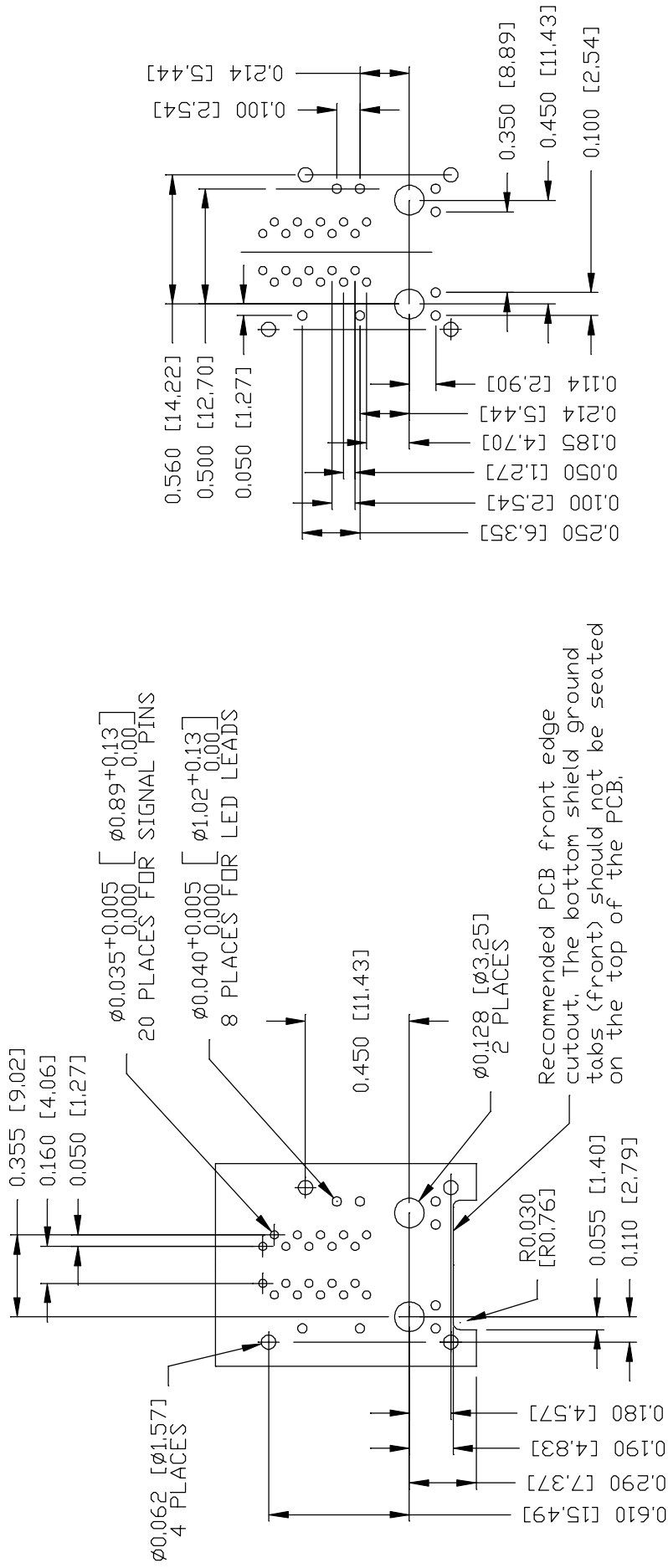


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DC002(2)120214

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RoHS

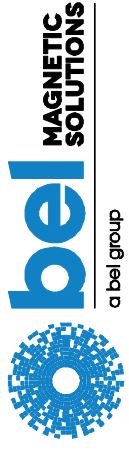


SUGGESTED FOOTPRINT
(COMPONENT SIDE VIEW)

REV. : A		PAGE : 5	
ORIGINATED BY ANTON LIAO DATE 2022-12-26 DRAWN BY SANDY LIN DATE 2022-12-26		TITLE 2X1 2.5 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores, Extended Temp.) PATENTED	
PART NO. / DRAWING NO. 0879-2B1R-JE FILE NAME 0879-2B1R-JE_A.DWG		STANDARD DIM. TOL. IN INCH X .XX .XXX	
UNIT : INCH [mm] SCALE : N/A SIZE : A4		[] METRIC DIM. AS REF.	

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DC002(2)120214



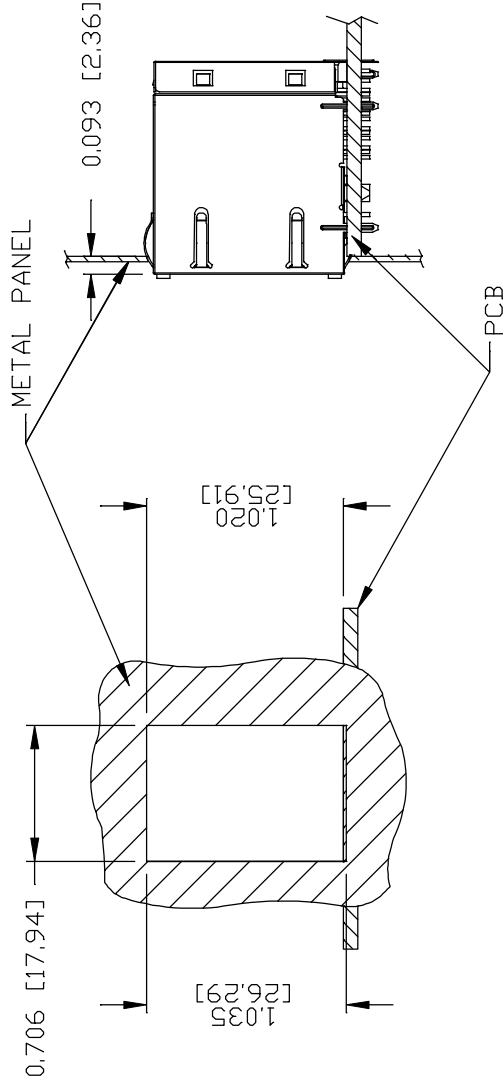
a bel group

MAGNETIC SOLUTIONS

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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-P8 (TOP)
0200-9999-P9 (BOTTOM)

PACKING QUANTITY : 40 PCS FINISHED GOODS PER TRAY
7 TRAYS (280 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 ANTON LIAO DATE 2022-12-26 DRAWN BY SANDY LIN DATE 2022-12-26		TITLE 2X1 2.5 gigabit MagJack® WITH UPPER AND LOWER LED (8 Cores, Extended Temp.) PATENTED	
PART NO. / DRAWING NO. 0879-2B1R-JE FILE NAME 0879-2B1R-JE_A.DWG		STANDARD DIM. TOL. IN INCH .X .XX .XXX ±0.005	
		[] METRIC DIM. AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4	
		 a bel group	

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