SPECIFICATION FOR APPROVAL

DELEC		
MARKETING GROUP	R&D GROUP	QA GROUP
ISSUED BY	CHECKED BY	QA INSPECTION
Ryan	Victor	Liu Ting

CUSTOMER:_____

CUSTOMER PART NO: _____

SAMPLE Q'TY: _____

SAMPLE DATE: _____

CUSTOMER

CUSTOMER APPROVAL:

☐ APPROVAL ☐ CONCESSIONARY ☐ REJECTED

ISSUED BY : _____

CHECKED BY: _____

APPROVED BY: _____

COMMENTS : _____

_____

RoHS COMPLIANT

TITLE: QSFP28 1X2 CAGE				DELEC 东莞多亚电子有限公司 DONGGUAN DUOYA ELECTRONICS CO., LTD			
PART NO. DH10-5N32148-20N				GENERAL TOLERANCE		UNIT:MM	SIZE: A4
DRAW	Ryan	DATE	2026-08-29	.X±0.30	.X±1°	SCALE: 1:1	REV:A
CHECK	Ryan	DATE	2026-08-29	.XX±0.20	.XX±5°	SHEET: 1/8	
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10			

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ISSUE RECORD

REV	DESCRIPTION OF CHANGE	REVIEWED BY	APPROVED BY	ISSUE DATE
A	FIRST ISSUE	Ryan	Victor	2026-08-29

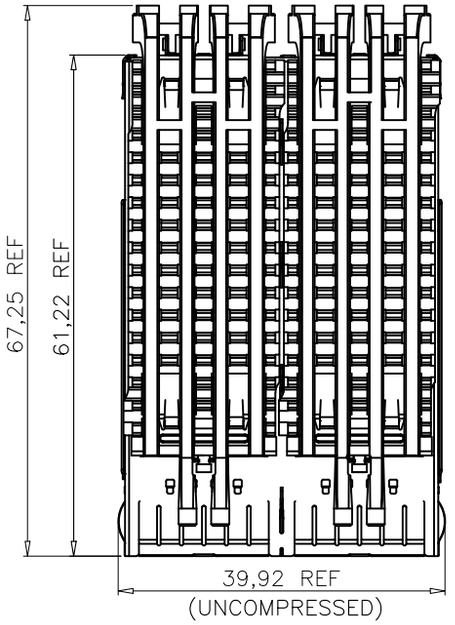
TITLE: QSFP28 1X2 CAGE				DELEC 东莞多亚电子有限公司 DONGGUAN DUOYA ELECTRONICS CO., LTD			
PART NO.: DH10-5N32148-20N				GENERAL TOLERANCE		UNIT:MM	SIZE: A4
DRAW	Ryan	DATE	2026-08-29	.X±0.30	.X±1°	SCALE: 1:1	SHEET: 2/8 REV:A
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APPROVE	Victor	DATE	2026-08-29	.XXX±0.10			

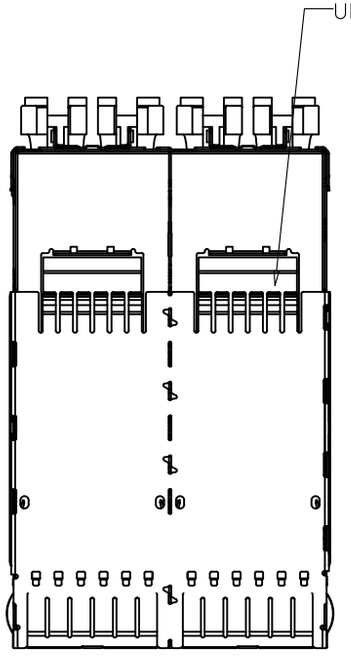
RoHS COMPLIANT

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1. MATERIALS:

   CAGE UP: COPPER ALLOY(C7701), THICKNESS 0.25mm, NICKEL PLATED.
   PARTITION: COPPER ALLOY(C7701), THICKNESS 0.25mm, NICKEL PLATED.
   CAGE DOWN: COPPER ALLOY(C7701), THICKNESS 0.25mm, NICKEL PLATED.
   EMI FINGERS: COPPER ALLOY(C7701), THICKNESS 0.06mm, NICKEL PLATED.

2. SURFACE FINISH:

   BODY CAGE: CLEANING

   EMI SPRING FINISH: CLEANING AND HOLE SEALING

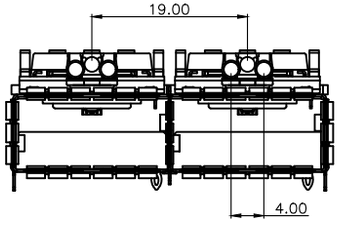
3. MATE WITH QSFP MSA COMPATIBLE TRANSCEIVER.

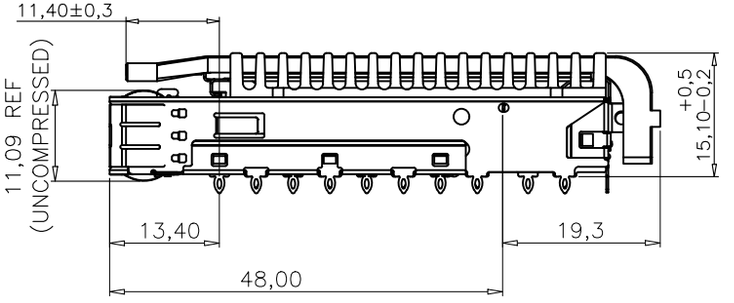
4. INSIDE SURFACE OF CASKET WHEN FULLY COMPRESSED.

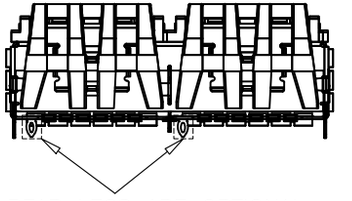
5. REFERENCE DOCUMENTS:

   PRODUCT SPECIFICATION: QSFP MSA

6. THIS PRODUCT COMPLY TO ROHS DIRECTIVE 2011/65/EU.







TITLE: QSFP28 1X2 CAGE				DELEC 东莞多亚电子有限公司 DONGGUAN DUOYA ELECTRONICS CO., LTD				
PART NO.: DH10-5N32148-20N				GENERAL TOLERANCE			UNIT:MM	SIZE: A4
DRAW	Ryan	DATE	2026-08-29	.X±0.30	.X±1°	SCALE: 1:1	SHEET: 3/8	REV:A
CHECK	Ryan	DATE	2026-08-29	.XX±0.20	.XX±5°			
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10				

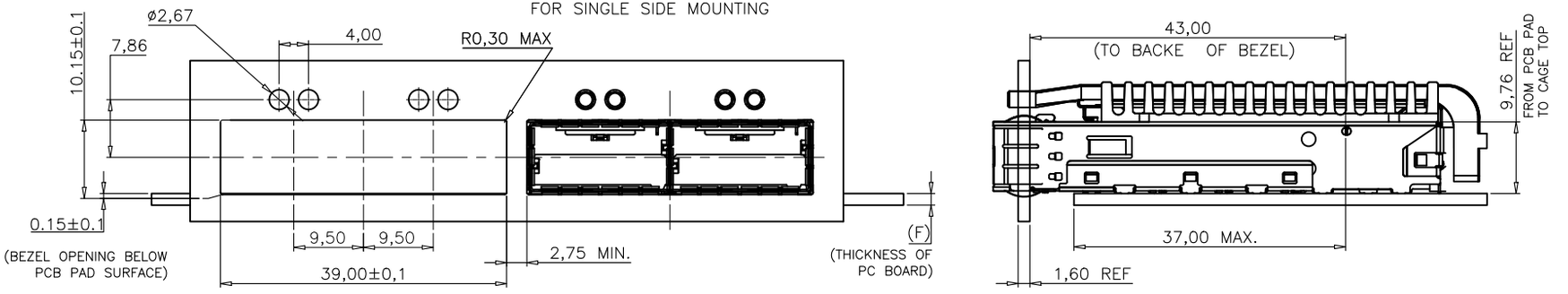
RoHS COMPLIANT

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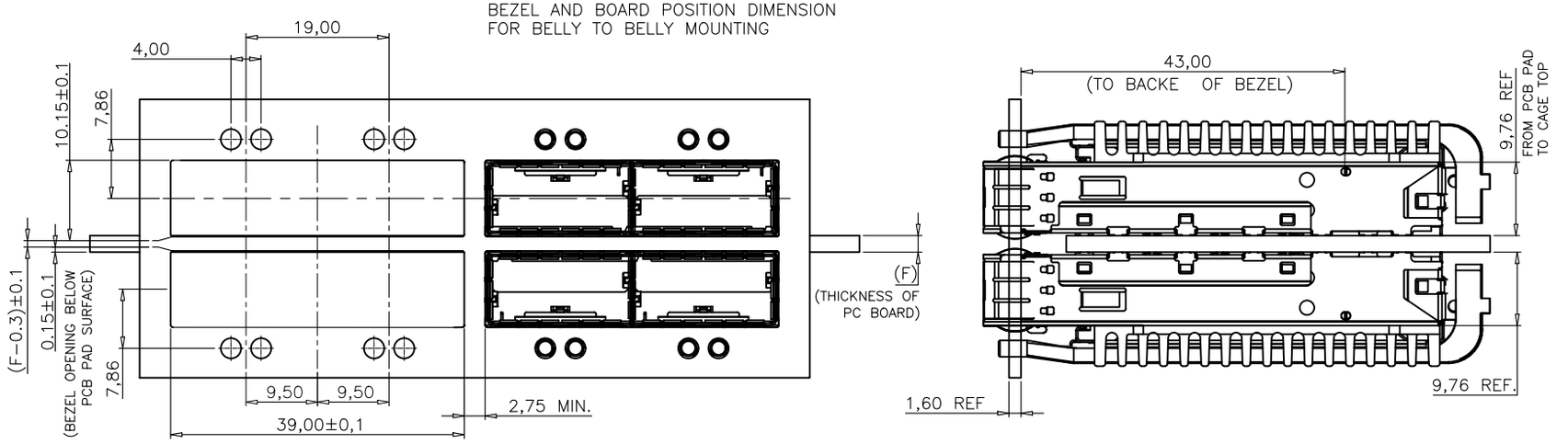
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BEZEL AND BOARD POSITION DIMENSION
FOR SINGLE SIDE MOUNTING



BEZEL AND BOARD POSITION DIMENSION
FOR BELLY TO BELLY MOUNTING



NOTES:

1. THE NORMAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.(DIM. "F")
   SINGLE SIDED PC BOARD THICKNESS: 1.60mm MIN.
   BELLY TO BELLY PC BOARD THICKNESS: 3.0mm MIN.
2. GENERAL TOLERANCE: ±0.05.

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DRAW	Ryan	DATE	2026-08-29	.X±0.30	.X±1°	SCALE: 1:1	SHEET: 4/8 REV:A
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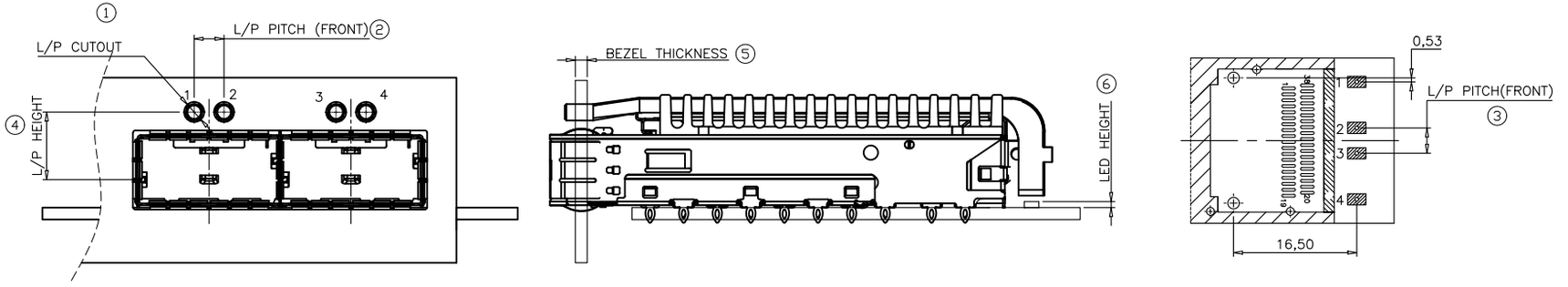
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		THE DIMENSION FOR MATING BEZEL (UNIT: mm)						
CODE	L/P APPEARANCE	L/P CUT-OUT	L/P PITCH (FRONT)	L/P PITCH (REAR)	L/P HEIGHT	BEZEL THICKNESS	LED HEIGHT	REMARK
0	NO L/P							WITHOUT LIGHT PIPE
A	ROUND	ø2.67	4.00(Equal)	1,4=15.75 2,3=3.40	7.86	1.60	0.5~0.8	APPLIES TO QUAD L/P
		①	②	③	④	⑤	⑥	



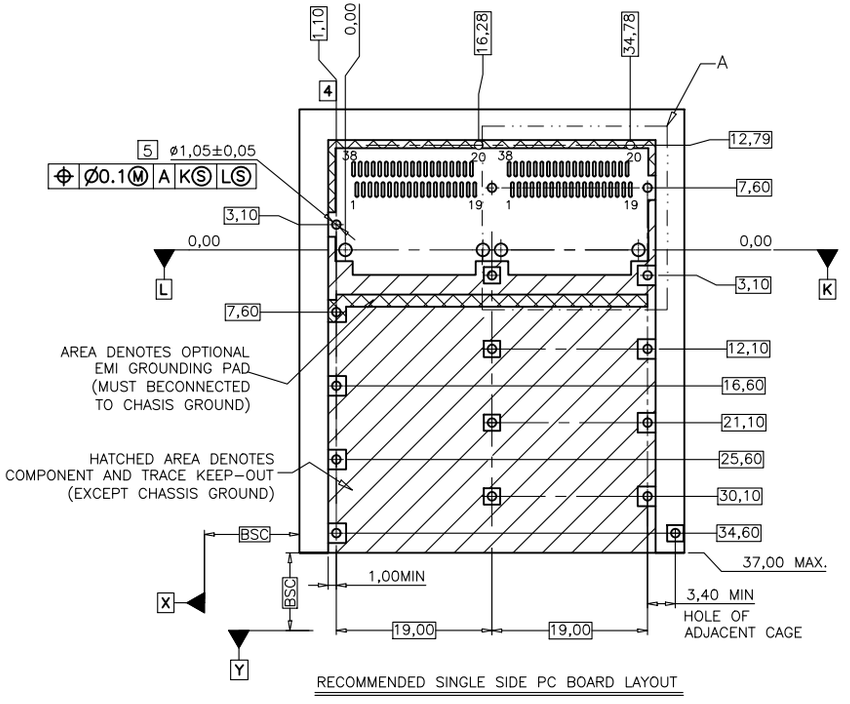
RoHS COMPLIANT

TITLE: QSFP28 1X2 CAGE				DELEC 东莞多亚电子有限公司 DONGGUAN DUOYA ELECTRONICS CO., LTD		
PART NO.: DH10-5N32148-20N				GENERAL TOLERANCE	UNIT:MM	SIZE: A4
DRAW	Ryan	DATE	2026-08-29	.X±0.30 / .X±1°	SCALE: 1:1	REV:A
CHECK	Ryan	DATE	2026-08-29	.XX±0.20 / .XX±5°	SHEET: 5/8	
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10		

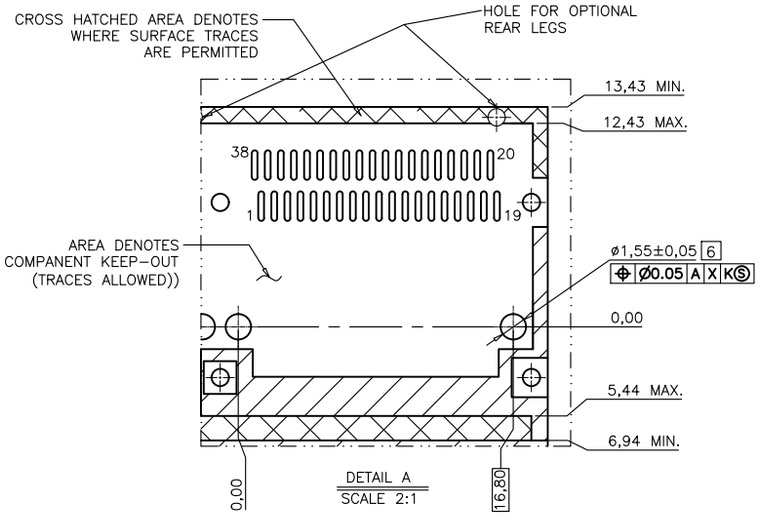
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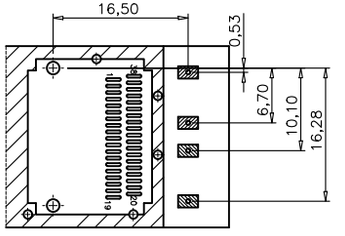
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RECOMMENDED SINGLE SIDE PC BOARD LAYOUT



FOR CAGE ASSEMBLIES WITH LIGHT PIPES



QUAD LIGHT PIPE LED LOCATION

NOTES:

1. DATUM X & Y ARE ESTABLISHED BY THE CUSTOMER'S FIDUCIAL
2. DATUM A IS THE TOP SURFACE OF THE HOST BOARD
3. LOCATION OF THE EDGE OF PCB IS APPLICATION SPECIFIC
4. BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
5. FINISHED HOLE SIZE
6. UNPLATED THRU HOLE.
7. REFER TO SFF8662 FOR CONNECTOR FOOTING DIMENSIONS

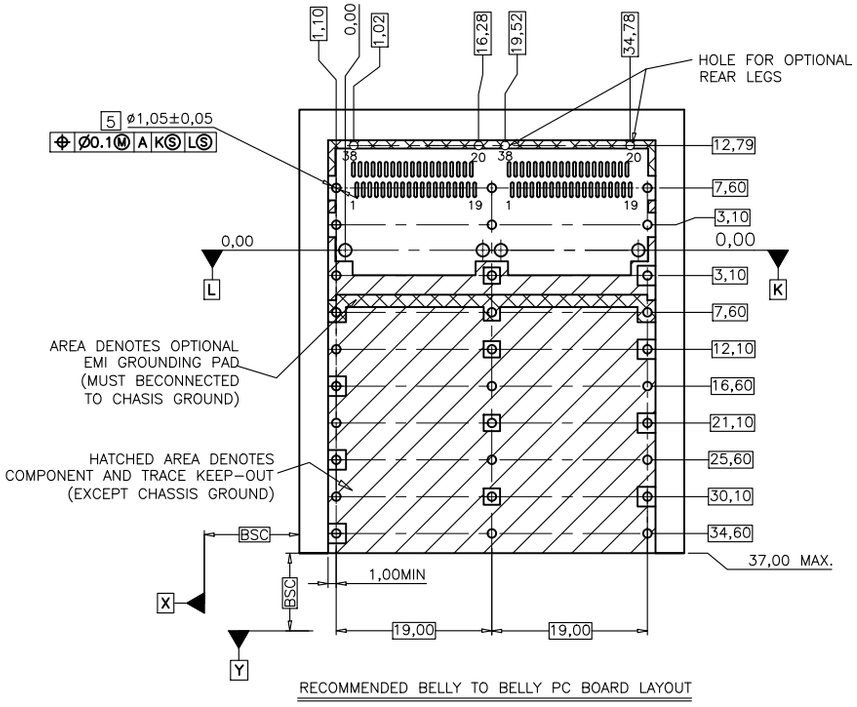
TITLE: QSFP28 1X2 CAGE				DELEC 东莞多亚电子有限公司 DONGGUAN DUOYA ELECTRONICS CO., LTD			
PART NO.: DH10-5N32148-20N				GENERAL TOLERANCE		UNIT:MM	SIZE: A4
DRAW	Ryan	DATE	2026-08-29	.X±0.30	.X±1°	SCALE: 1:1	SHEET: 6/8 REV:A
CHECK	Ryan	DATE	2026-08-29	.XX±0.20	.XX±5°		
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10			

RoHS COMPLIANT

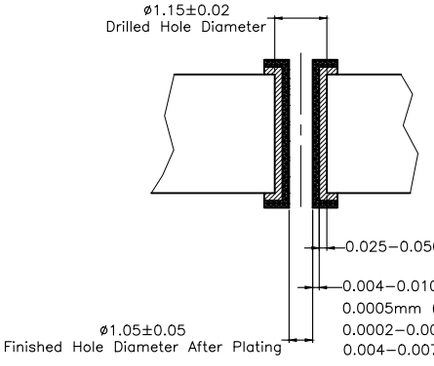
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RECOMMENDED BELLY TO BELLY PC BOARD LAYOUT



FINISHED HOLE SIZE SPECS

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CHECK	Ryan	DATE	2026-08-29	.XX±0.20	.XX±5°	SHEET: 7/8	
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10			

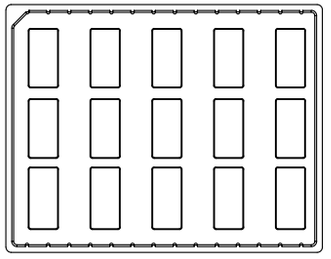
RoHS COMPLIANT

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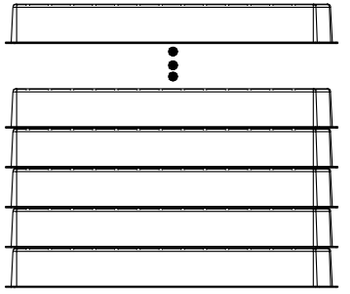
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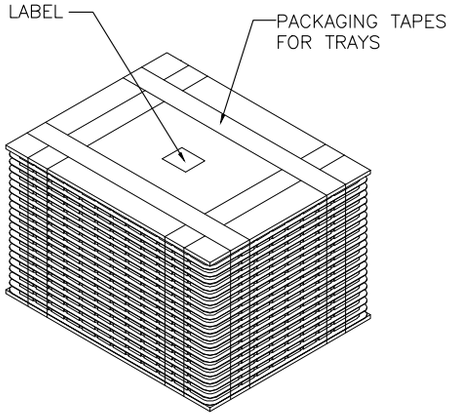
PACKAGE INFORMATION AND LABLE



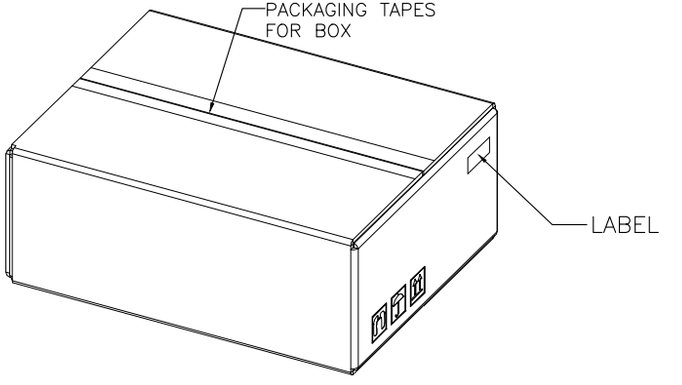
1. 15PCS PRODUCTS IN TRAYS



2. TRAYS OVERLAY:
(THE NEXT TRAY NEED ROTATE 180 DEGREE AND
PUT IT ON PREVIOUS TRAY.)
(相邻两个吸塑间水平方向成180度摆放)



3. LABEL & PACKAGING TAPES FOR TRAYS:



4. LABEL & PACKAGING TAPES FOR BOX

PACKAGING LISTS	
ITEM	Q'TY
PRODUCT	105 PCS
TRAY	7 PCS
BOX(L340*W265*H200MM)	1 PCS
LABLE	2 PCS
PACKAGING TAPES	8 M (ABOUT)

RoHS COMPLIANT

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CHECK	Ryan	DATE	2026-08-29	.XX±0.20	.XX±5°	SHEET: 8/8	
APPROVE	Victor	DATE	2026-08-29	.XXX±0.10			

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