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# SPECIFICATION FOR APPROVAL

|                 |            |               |
|-----------------|------------|---------------|
| <b>DELEC</b>    |            |               |
| 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

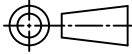
ISSUED BY : \_\_\_\_\_

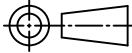
CHECKED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

COMMENTS : \_\_\_\_\_  
\_\_\_\_\_

RoHS COMPLIANT

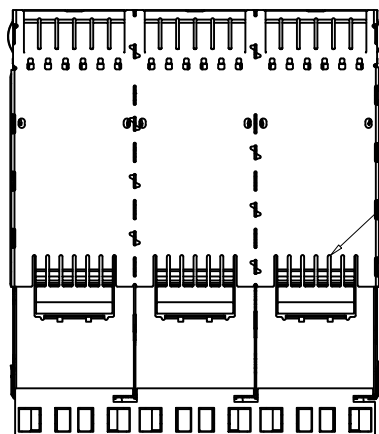
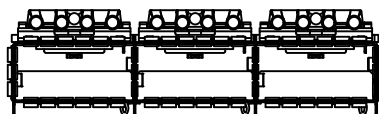
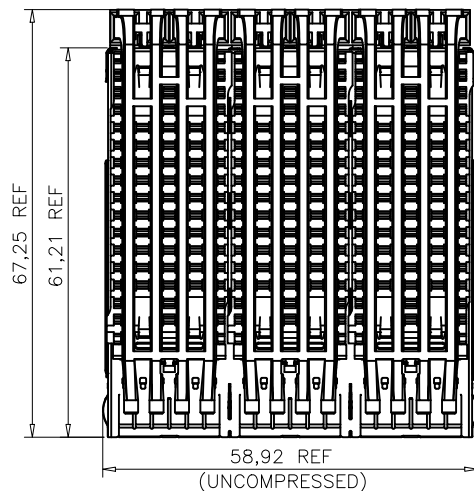
|                              |        |      |            |                                                                |        |                                                                                       |            |          |
|------------------------------|--------|------|------------|----------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|------------|----------|
| TITLE<br>QSFP28 1X3 CAGE     |        |      |            | <b>DELEC</b> 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |        |                                                                                       |            |          |
| PART NO.<br>DH10-5013122-10S |        |      |            | GENERAL TOLERANCE                                              |        |  | UNIT:MM    | SIZE: A4 |
| DRAW                         | Ryan   | DATE | 2026-08-29 | .X±0.30                                                        | .X±1°  | SCALE: 1:1                                                                            | SHEET: 1/8 | REV:A    |
| CHECK                        | Ryan   | DATE | 2026-08-29 | .XX±0.20                                                       | .XX±5° |                                                                                       |            |          |
| APPROVE                      | Victor | DATE | 2026-08-29 | .XXX±0.10                                                      |        |                                                                                       |            |          |

|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
|-----------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|--------|------|-------------|---------------------------------------------------------|------------|---------------------------------------------------------------------------------------|------------|----------|
|                                                                       | 1                       | 2                                                             | 3      | 4    | 5           | 6                                                       | 7          | 8                                                                                     |            |          |
| H                                                                     | <div>ISSUE RECORD</div> |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
|                                                                       | REV                     | DESCRIPTION OF CHANGE                                         |        |      | REVIEWED BY | APPROVED BY                                             | ISSUE DATE |                                                                                       |            |          |
|                                                                       | A                       | FIRST ISSUE                                                   |        |      | Ryan        | Victor                                                  | 2026-08-29 |                                                                                       |            |          |
| G                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
| F                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
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| E                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
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| D                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
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|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
| C                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
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|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
| B                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
|                                                                       |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
| A                                                                     |                         |                                                               |        |      |             |                                                         |            |                                                                                       |            |          |
| RoHS COMPLIANT                                                        |                         | TITLE                                                         |        |      |             | DELEC 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |            |                                                                                       |            |          |
|                                                                       |                         | PART NO.                                                      |        |      |             | 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    |
|                                                                       |                         | CHECK                                                         | Ryan   | DATE | 2026-08-29  | .XX±0.20                                                | .XX±5°     |                                                                                       |            |          |
|                                                                       |                         | APPROVE                                                       | Victor | DATE | 2026-08-29  | .XXX±0.10                                               |            |                                                                                       |            |          |
| THIS DRAWING IS A CONTROLLED DOCUMENT FOR DUOYA CONNECTOR CORPORATION |                         | EMAIL: MAILBOX@DELEC.COM.CN WEB SITE: HTTP://WWW.DELEC.COM.CN |        |      |             |                                                         |            |                                                                                       |            |          |

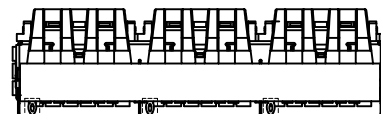
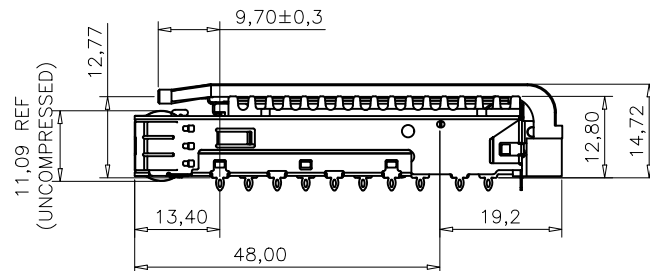
BY DUOYA CONNECTOR CORPORATION

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PRODUCT DRAWING



UNDER BELLY EMI FINGERS



REAR LEGS ARE OPTIONAL  
( SEE PAGE 1 )

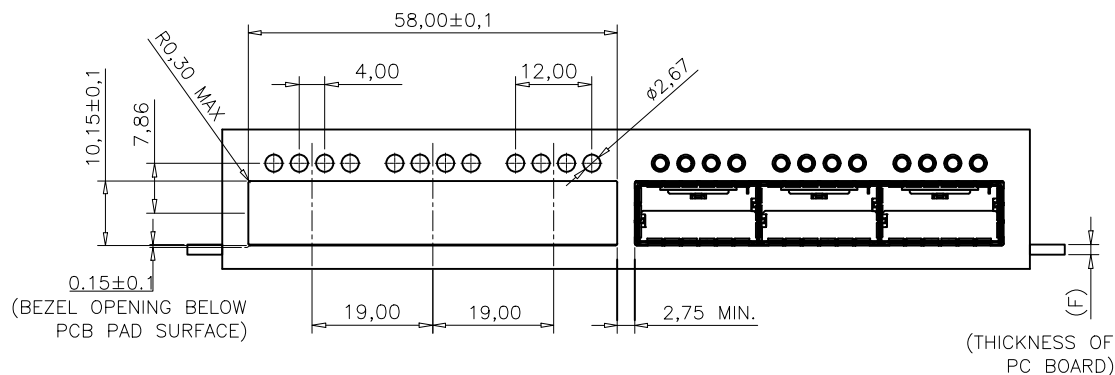
1. MATERIALS:  
CAGE UP: STAINLESS STEEL, 0.25 THICKNESS  
CAGE DOWN: STAINLESS STEEL, 0.25 THICKNESS  
PARTITION: STAINLESS STEEL  
EMI FINGERS: STAINLESS STEEL  
HEATSINK: ALUMINUM  
HEATSINK CLIP: STAINLESS STEEL  
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE  
CAP: HIGH TEMPERATURE THERMOPLASTIC 94V-0,BLACK
2. SURFACE FINISH:  
BODY CAGE: CLEANING  
EMI SPRING FINISH: CLEANING AND HOLE SEALING  
HEATSINK FINISH: BLACK ANODIZED  
HEATSINK CLIP FINISH: CLEANING
3. MATE WITH QSFP MSA COMPATIBLE TRANSCEIVER.
4. INSIDE SURFACE OF CASKET WHEN FULLY COMPRESSED.
5. REFERENCE DOCUMENTS:  
PRODUCT SPECIFICATION: SFF-8663
6. THIS PRODUCT COMPLY TO ROHS DIRECTIVE 2011/65/EU.

DH10-5013 1 2 2 - 1 0 S

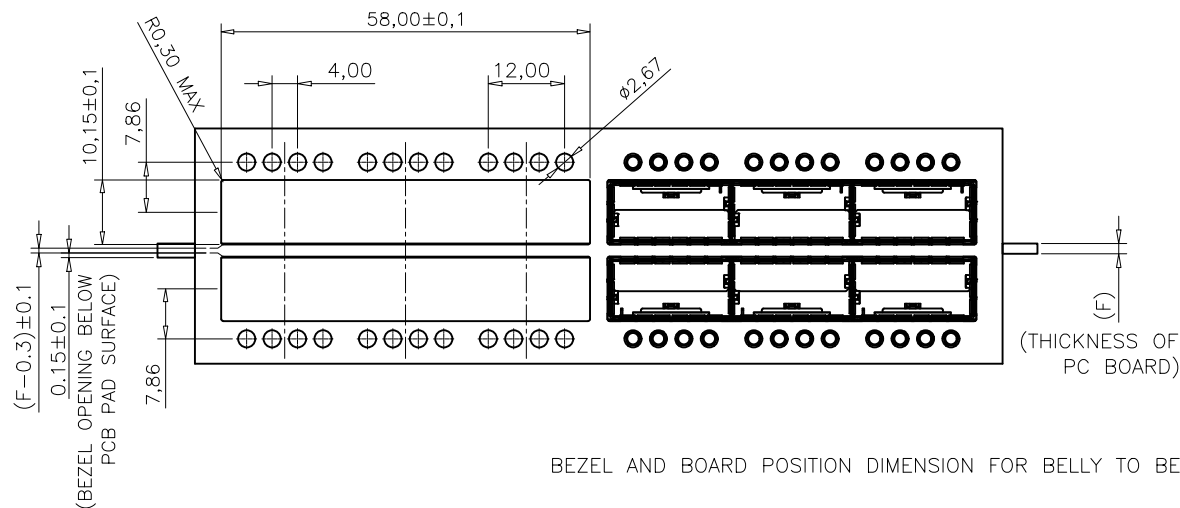
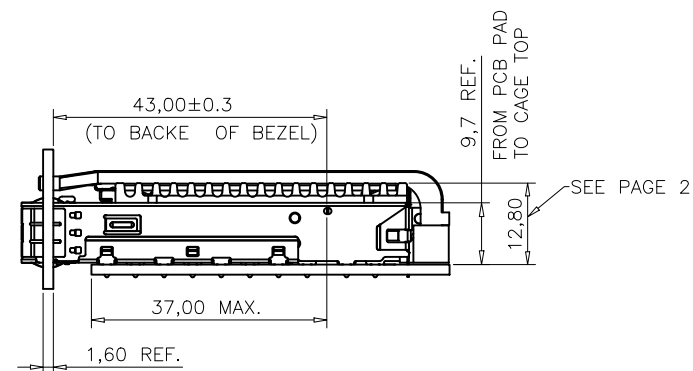
1. REAR LEGS:  
0=W/O REAR LEG  
1=W/ 1 REAR LEG
2. LIGHT PIPE & CAP OPTION:  
0=W/O Light Pipe, W/O CAP  
1=W/ Light Pipe, W/O CAP  
2=W/ Light Pipe, W/ CAP
3. LIGHT PIPE DIM "A" & PLATING OPTION:  
0=W/O Light Pipe  
1=DIM A=10.7mm, W/O Silver Color plating  
2=DIM "A"=9.7mm, W/O Silver Color plating  
3=DIM A=10.7mm, W/Silver Color plating  
4=DIM "A"=9.7mm, W/Silver Color plating
4. PROCESS OPTION:  
0=W/O Heatsink, Open Top  
1=W/PCI(Heatsink 4.2mm)  
2=W/SAN(Heatsink 6.5mm)  
3=W/Networking(Heatsink 13.5mm)

RoHS COMPLIANT

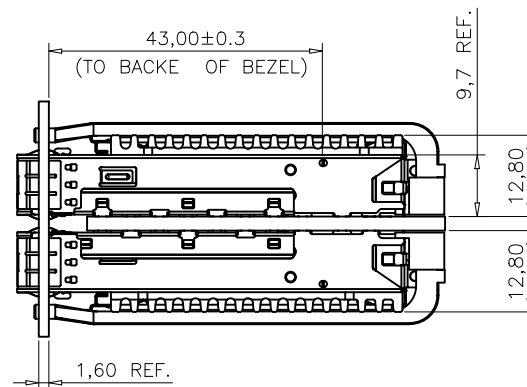
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|----------------------------------|--------|------|------------|-------------------|--------|--|---------------------------------------------------------------------------------------|------------|---------------------------------------------------|--|--|
| TITLE                            |        |      |            | DELEC             |        |  |                                                                                       |            | 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |  |  |
| QSFP28 1X3 CAGE                  |        |      |            |                   |        |  |                                                                                       |            |                                                   |  |  |
| PART NO.<br><br>DH10-5013122-10S |        |      |            | 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         |        |  |                                                                                       |            |                                                   |  |  |



BEZEL AND BOARD POSITION DIMENSION FOR SINGLE SIDE MOUNTING



BEZEL AND BOARD POSITION DIMENSION FOR BELLY TO BELLY MOUNTING



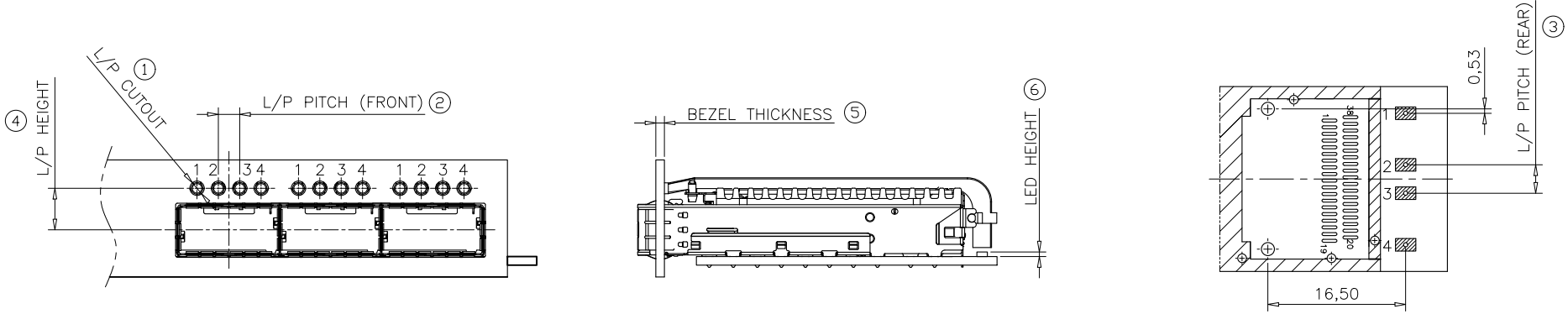
NOTES:

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

|                  |        |      |            |                                                                                       |        |                                                                                       |            |          |
|------------------|--------|------|------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|------------|----------|
| TITLE            |        |      |            | <div>DELEC</div> <div>东莞多亚电子有限公司</div> <div>DONGGUAN DUOYA ELECTRONICS CO., LTD</div> |        |                                                                                       |            |          |
| QSFP28 1X3 CAGE  |        |      |            |                                                                                       |        |                                                                                       |            |          |
| PART NO.         |        |      |            | GENERAL TOLERANCE                                                                     |        |  | UNIT:MM    | SIZE: A4 |
| DH10-5013122-10S |        |      |            |                                                                                       |        | SCALE: 1:1                                                                            | SHEET: 4/8 | REV:A    |
| DRAW             | Ryan   | DATE | 2026-08-29 | .X±0.30                                                                               | .X±1°  |                                                                                       |            |          |
| CHECK            | Ryan   | DATE | 2026-08-29 | .XX±0.20                                                                              | .XX±5° |                                                                                       |            |          |
| APPROVE          | Victor | DATE | 2026-08-29 | .XXX±0.10                                                                             |        |                                                                                       |            |          |

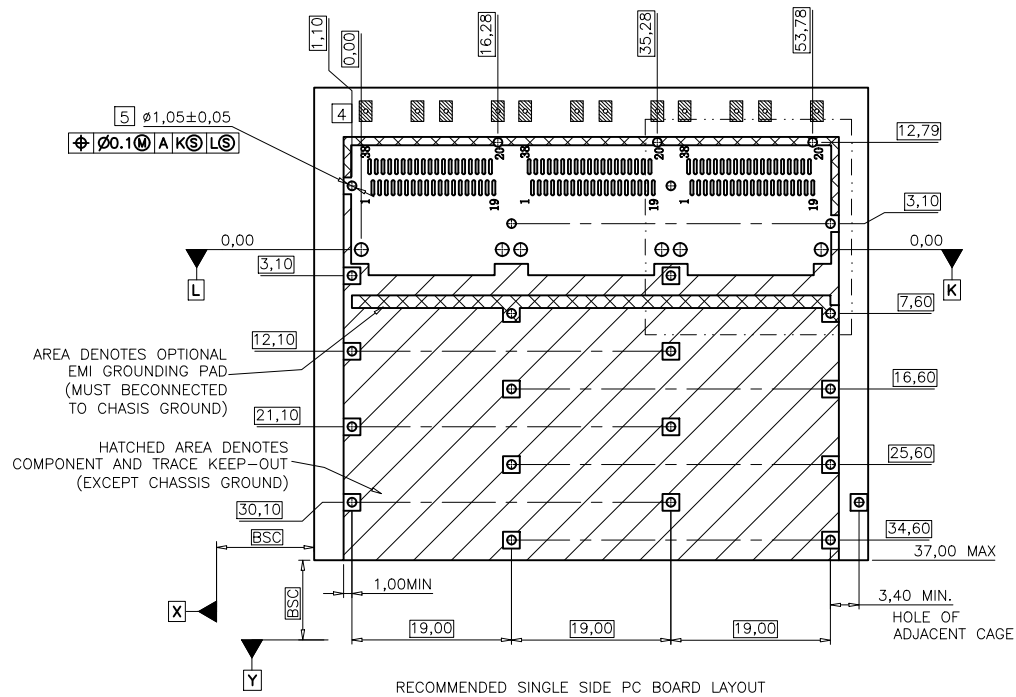
RoHS COMPLIANT

|      |                | 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<br>2,3=3.40 | 7.86       | 1.60            | 0.8~1.1    | APPLIES TO QUAD L/P |
|      |                | ①                                         | ②                 | ③                     | ④          | ⑤               | ⑥          |                     |



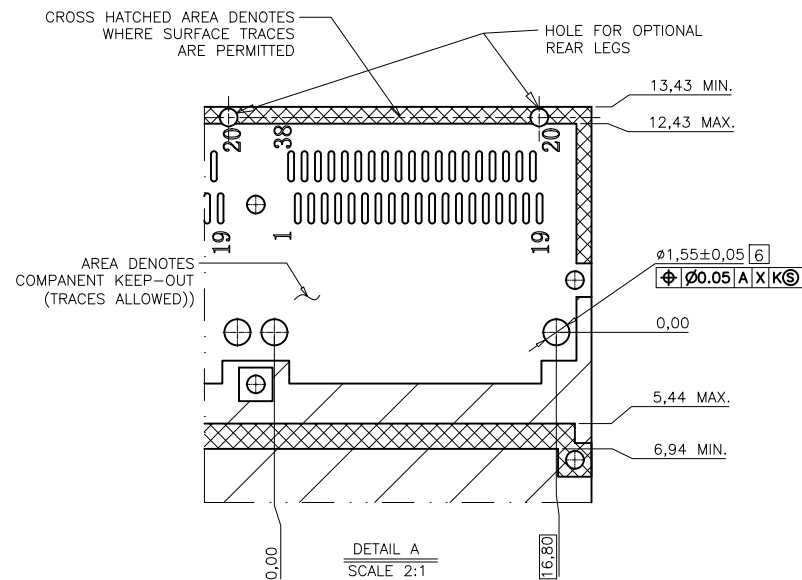
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|------------------------------|--------|------|------------|-------------------|--------|---------------------------------------------------|------------|----------|
| TITLE<br>QSFP28 1X3 CAGE     |        |      |            | <b>DELEC</b>      |        | 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |            |          |
| PART NO.<br>DH10-5013122-10S |        |      |            | GENERAL TOLERANCE |        |                                                   | UNIT:MM    | SIZE: A4 |
| DRAW                         | Ryan   | DATE | 2026-08-29 | .X±0.30           | .X±1°  | SCALE: 1:1                                        | SHEET: 5/8 | REV:A    |
| CHECK                        | Ryan   | DATE | 2026-08-29 | .XX±0.20          | .XX±5° |                                                   |            |          |
| APPROVE                      | Victor | DATE | 2026-08-29 | .XXX±0.10         |        |                                                   |            |          |

RoHS COMPLIANT

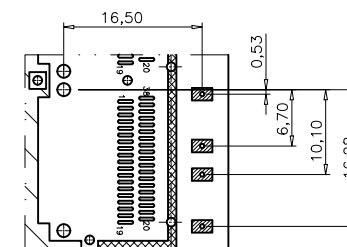


#### NOTES:

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

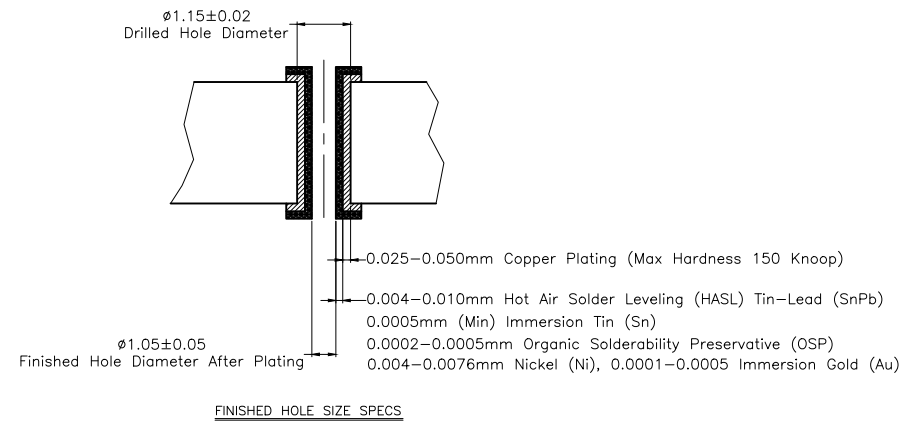
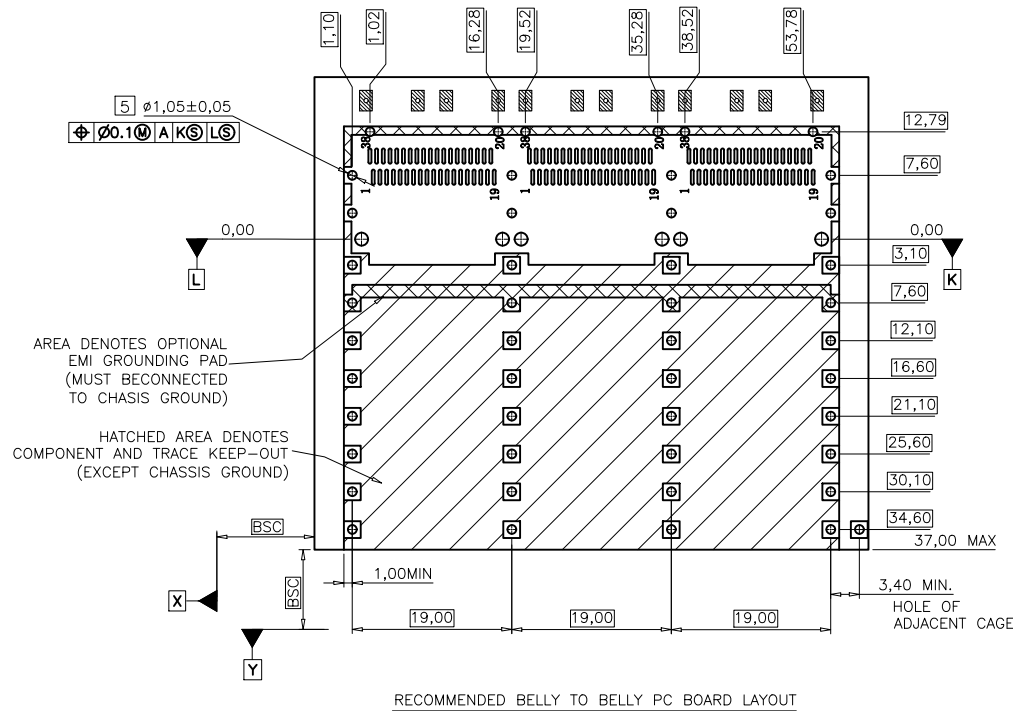


#### FOR CAGE ASSEMBLIES WITH LIGHT PIPES



RoHS COMPLIANT

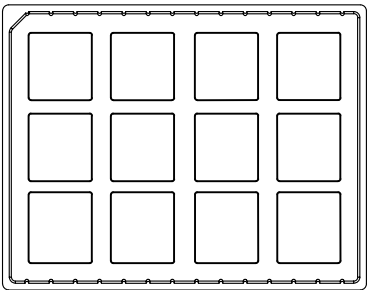
|                  |        |      |            |                                                                                       |        |                                                                                       |            |          |
|------------------|--------|------|------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|------------|----------|
| TITLE            |        |      |            | <div>DELEC</div> <div>东莞多亚电子有限公司</div> <div>DONGGUAN DUOYA ELECTRONICS CO., LTD</div> |        |                                                                                       |            |          |
| QSFP28 1X3 CAGE  |        |      |            |                                                                                       |        |                                                                                       |            |          |
| PART NO.         |        |      |            | GENERAL TOLERANCE                                                                     |        |  | UNIT:MM    | SIZE: A4 |
| DH10-5013122-10S |        |      |            |                                                                                       |        |                                                                                       |            |          |
| 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                                                                             |        |                                                                                       |            |          |



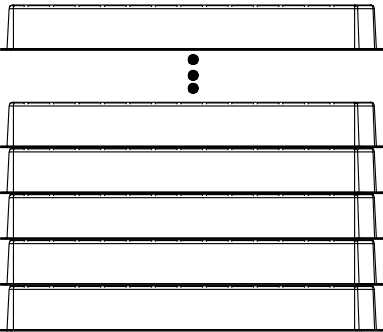
RoHS COMPLIANT

|                              |        |      |            |                                                                |        |            |            |          |
|------------------------------|--------|------|------------|----------------------------------------------------------------|--------|------------|------------|----------|
| TITLE<br>QSFP28 1X3 CAGE     |        |      |            | <b>DELEC</b> 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |        |            |            |          |
| PART NO.<br>DH10-5013122-10S |        |      |            | GENERAL TOLERANCE                                              |        |            | UNIT:MM    | SIZE: A4 |
| DRAW                         | Ryan   | DATE | 2026-08-29 | .X±0.30                                                        | .X±1°  | SCALE: 1:1 | SHEET: 7/8 | REV:A    |
| CHECK                        | Ryan   | DATE | 2026-08-29 | .XX±0.20                                                       | .XX±5° |            |            |          |
| APPROVE                      | Victor | DATE | 2026-08-29 | .XXX±0.10                                                      |        |            |            |          |

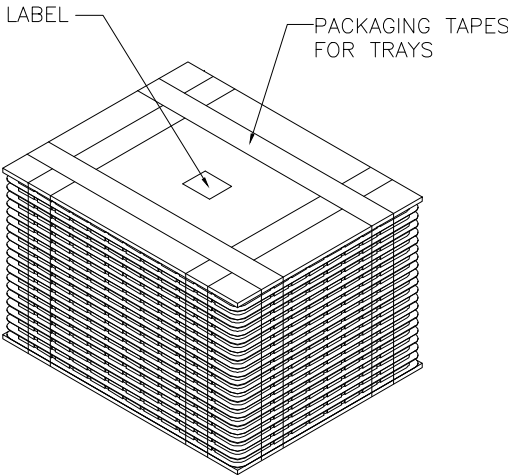
PACKAGE INFORMATION AND LABEL



1. 12PCS PRODUCTS IN TRAYS

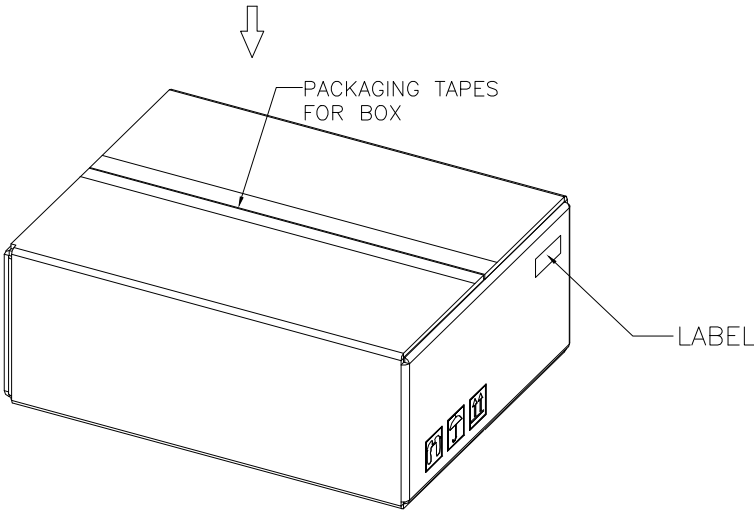


2. TRAYS OVERLAY:  
(THE NEXT TRAY NEED ROTATE 180 DEGREE AND PUT IT ON PREVIOUS TRAY.)  
(相邻两个吸塑间水平方向成180度摆放)



3. LABEL & PACKAGING TAPES FOR TRAYS:

| PACKAGING LISTS       |             |
|-----------------------|-------------|
| ITEM                  | Q'TY        |
| PRODUCT               | 96 PCS      |
| TRAY                  | 8 PCS       |
| BOX(L340*W265*H200MM) | 1 PCS       |
| LABLE                 | 2 PCS       |
| PACKAGING TAPES       | 8 M (ABOUT) |



4. LABEL & PACKAGING TAPES FOR BOX

RoHS COMPLIANT

|                              |        |      |            |                   |        |                                                   |            |          |
|------------------------------|--------|------|------------|-------------------|--------|---------------------------------------------------|------------|----------|
| TITLE<br>QSFP28 1X3 CAGE     |        |      |            | <b>DELEC</b>      |        | 东莞多亚电子有限公司<br>DONGGUAN DUOYA ELECTRONICS CO., LTD |            |          |
| PART NO.<br>DH10-5013122-10S |        |      |            | GENERAL TOLERANCE |        |                                                   | UNIT:MM    | SIZE: A4 |
| DRAW                         | Ryan   | DATE | 2026-08-29 | .X±0.30           | .X±1°  | SCALE: 1:1                                        | SHEET: 8/8 | REV:A    |
| CHECK                        | Ryan   | DATE | 2026-08-29 | .XX±0.20          | .XX±5° |                                                   |            |          |
| APPROVE                      | Victor | DATE | 2026-08-29 | .XXX±0.10         |        |                                                   |            |          |