

| P | LTR | DESCRIPTION            | DATE      | DWN | APVD |
|---|-----|------------------------|-----------|-----|------|
|   | A   | RELEASE                | 31OCT2016 | JY  | SH   |
|   | B   | ADD NEW PN 4-2170808-7 | 21MAY2019 | JY  | SH   |
|   |     |                        |           |     |      |
|   |     |                        |           |     |      |

HEAT SINK CLIP

HEAT SINK

LIGHT PIPE

1x2 CAGE ASSEMBLY

2-2170808-1 AS SHOWN  
SCALE 2:1

1. COMPONENTS  
CAGE ASSEMBLY: NICKEL-SILVER ALLOY  
HEAT SINK: ALUMINUM/BLACK ANODIZE  
HEAT SINK CLIP: STAINLESS STEEL  
EMI SPRING: COPPER ALLOY/NICKEL PLATE  
LIGHT PIPE: CLEAR POLYCARBONATE

2. REFERENCE APPLICATION SPECIFICATION 114-32023  
FOR RECOMMENDED DRILL HOLE DIAMETER AND  
PLATING THICKNESS

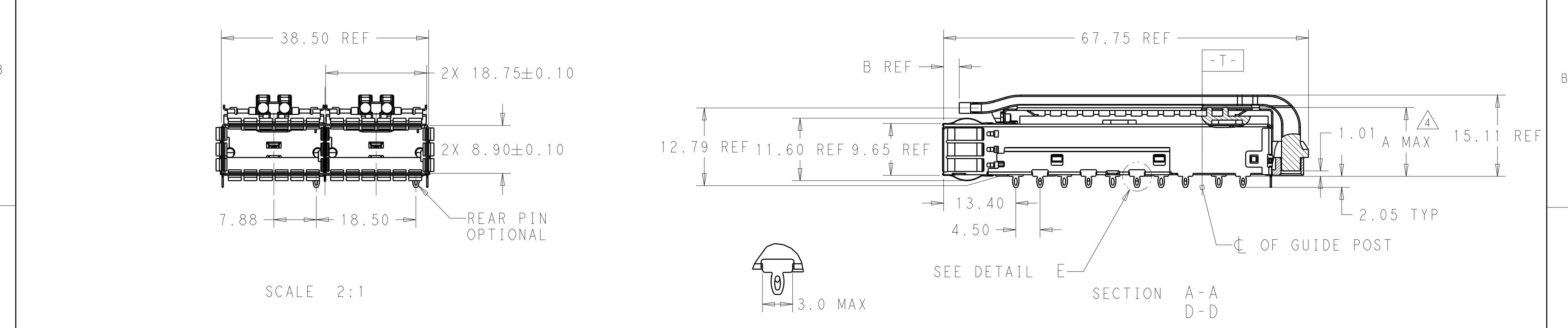
3. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER

4. DIMENSION APPLIES WITH MODULE INSERTED IN CAGE

5. HEAT SINKS, HEAT SINK CLIPS AND LIGHT PIPES  
ARE SHIPPED ASSEMBLED ON CAGE

6. MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN  
DOUBLE SIDED: 2.20 MIN

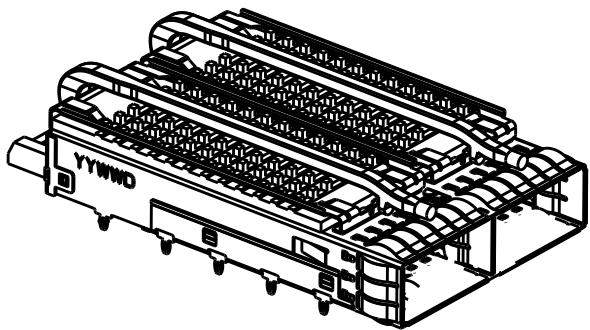
7. DATUM -A- IS TOP SURFACE OF THE HOST BOARD.
8. THESE HOLES ARE OPTIONAL WHEN THE REAR PINS ARE REMOVED.
9. MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.
10. DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN.
11. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLY WITH LIGHT PIPE.
12. PRELIMINARY PART - NOT RELEASED FOR PRODUCTION.



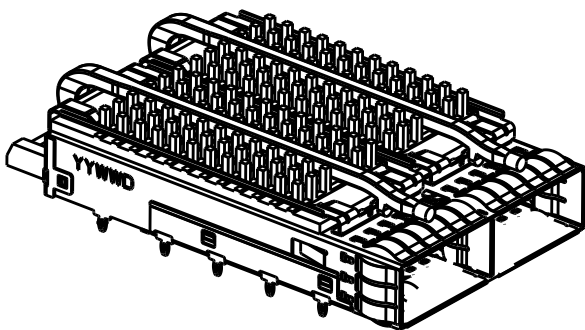
|                                        |  |                                |                                                                                                        |                    |  |  |
|----------------------------------------|--|--------------------------------|--------------------------------------------------------------------------------------------------------|--------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>16SEP2014   | <div>TE Connectivity</div>                                                                             |                    |  |  |
| DIMENSIONS:                            |  | CHK<br>JASON YANG<br>16SEP2014 |                                                                                                        |                    |  |  |
| mm                                     |  | APVD<br>-                      | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |                    |  |  |
|                                        |  | PRODUCT SPEC<br>108-19428      | SIZE<br>A2                                                                                             |                    |  |  |
|                                        |  | APPLICATION SPEC<br>114-32023  | CAGE CODE<br>00779                                                                                     |                    |  |  |
| MATERIAL<br>SEE NOTES                  |  | WEIGHT<br>-                    | DRAWING NO<br>C-2170808                                                                                |                    |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | CUSTOMER DRAWING               |                                                                                                        | RESTRICTED TO<br>- |  |  |
| 0 PLC ±-                               |  | SCALE 1:1                      |                                                                                                        | SHEET 1 OF 9       |  |  |
| 1 PLC ±0.25                            |  |                                |                                                                                                        | REV B              |  |  |
| 2 PLC ±0.2                             |  |                                |                                                                                                        |                    |  |  |
| 3 PLC ±-                               |  |                                |                                                                                                        |                    |  |  |
| 4 PLC ±-                               |  |                                |                                                                                                        |                    |  |  |
| ANGLES ±-                              |  |                                |                                                                                                        |                    |  |  |
| FINISH                                 |  |                                |                                                                                                        |                    |  |  |
| SEE NOTES                              |  |                                |                                                                                                        |                    |  |  |
|                                        |  |                                |                                                                                                        |                    |  |  |

| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|           | -   | SEE SHEET 1 | -    | -   | -    |
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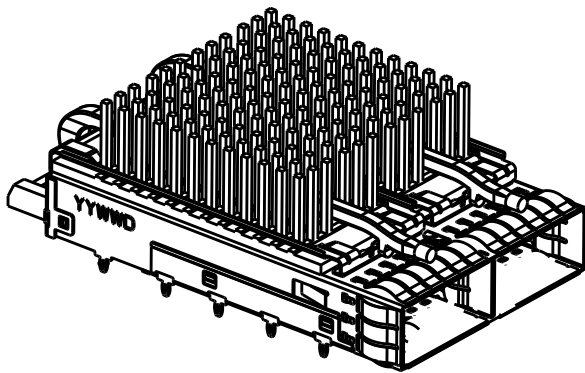
HEAT SINK OPTION



PCI HEAT SINK HEIGHT  
SCALE 1:1

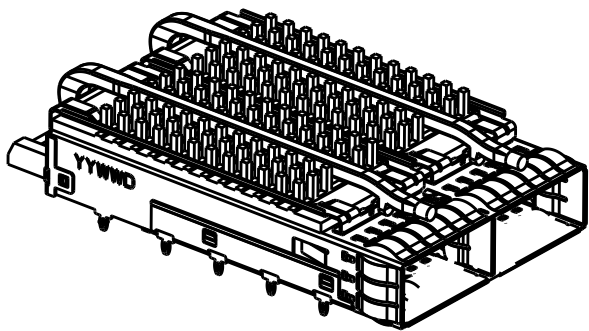


SAN HEAT SINK HEIGHT  
SCALE 1:1

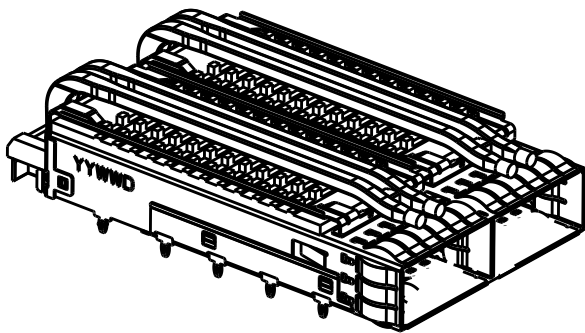


NETWORKING HEAT SINK HEIGHT  
SCALE 1:1

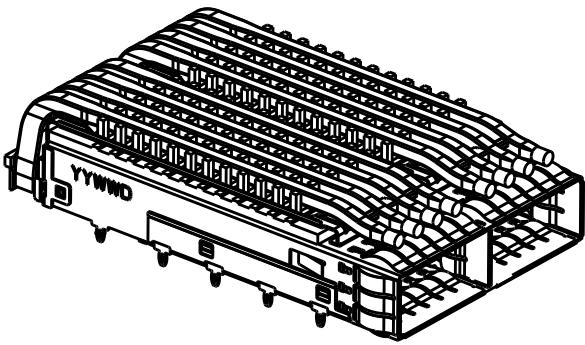
LIGHT PIPE OPTION



SINGLE LIGHT PIPE  
SCALE 1:1

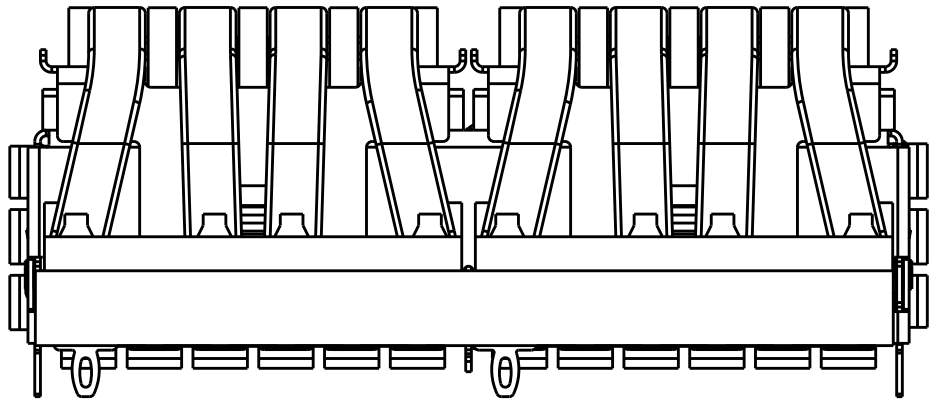


DUAL LIGHT PIPE  
SCALE 1:1

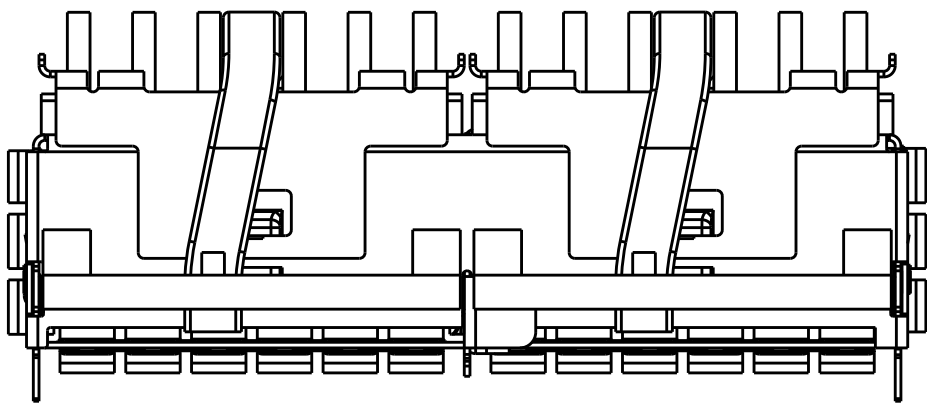


QUAD LIGHT PIPE  
SCALE 1:1

# OF REAR PIN OPTION



1 REAR PIN  
SCALE 3:1

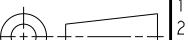


0 REAR PIN  
SCALE 3:1

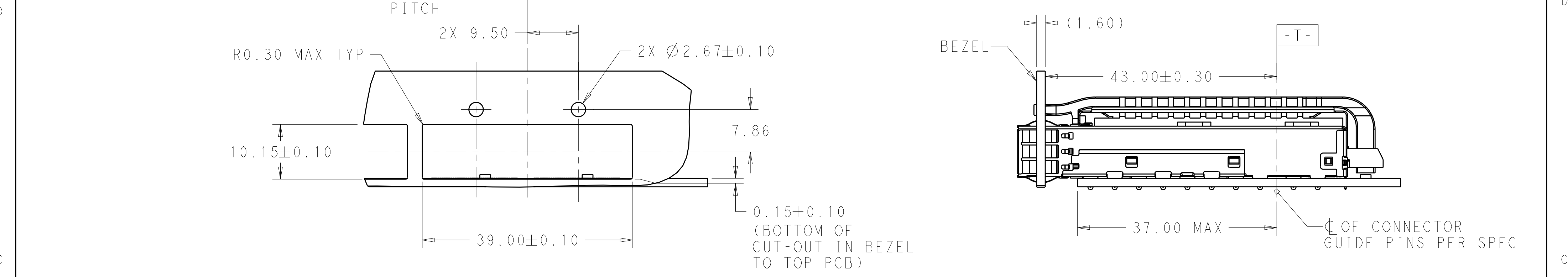
|                                        |  |                                                                                                                                |                             |                                                                                                        |                        |
|----------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>CHK<br>JASON YANG<br>APVD<br>-                                                                              | 16SEP2014<br>16SEP2014<br>- | TE Connectivity                                                                                        |                        |
| DIMENSIONS:<br>mm                      |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±-<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±-<br>4 PLC ±-<br>ANGLES ±-<br>FINISH |                             | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |                        |
| MATERIAL<br>SEE NOTES                  |  | PRODUCT SPEC<br>108-19428<br>APPLICATION SPEC<br>114-32023<br>WEIGHT<br>-                                                      |                             | SIZE<br>A200779                                                                                        | CAGE CODE<br>C-2170808 |
|                                        |  | CUSTOMER DRAWING                                                                                                               |                             | SCALE<br>1:1                                                                                           | SHEET<br>2 OF 9        |
|                                        |  |                                                                                                                                |                             | REV<br>B                                                                                               |                        |

| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|           | -   | SEE SHEET 1 | -    | -   | -    |
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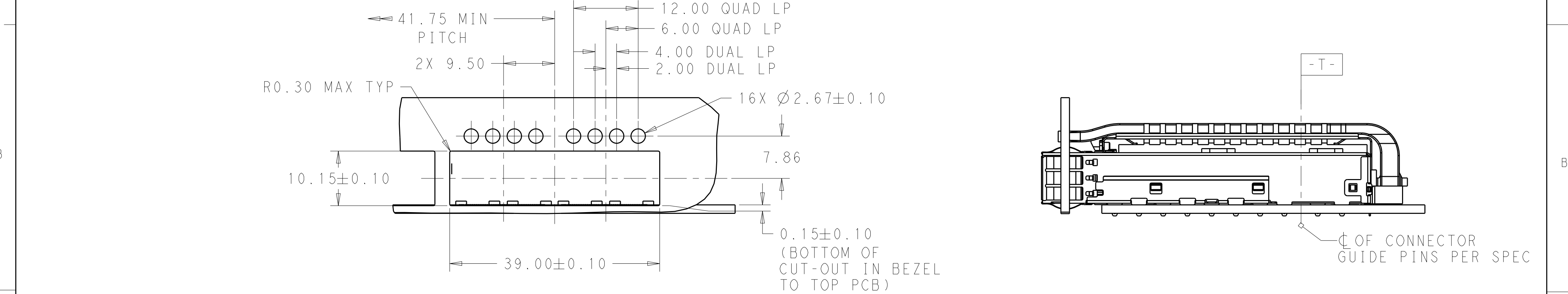
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| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN 16SEP2014<br>CHK BING LIU<br>16SEP2014<br>JASON YANG                             |  |  TE Connectivity |  |                    |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                            |  | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |  |                    |  |
|  |  | 0 PLC ±.<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±.<br>4 PLC ±.<br>ANGLES ±.<br>FINISH |  | PRODUCT SPEC<br>108-19428<br>APPLICATION SPEC<br>114-32023                                            |  | SIZE<br>A2         |  |
| MATERIAL<br>SEE NOTES<br>-                                                            |  | SEE NOTES<br>-                                                                       |  | WEIGHT<br>-                                                                                           |  | CAGE CODE<br>00779 |  |
|                                                                                       |  |                                                                                      |  | DRAWING NO<br>C-2170808                                                                               |  | RESTRICTED TO<br>- |  |
| CUSTOMER DRAWING                                                                      |  |                                                                                      |  | SCALE 1:1                                                                                             |  | SHEET 3 of 9       |  |
|                                                                                       |  |                                                                                      |  |                                                                                                       |  | REV B              |  |

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
|   |     |             |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING  
SCALE 2:1



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING  
SCALE 2:1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

20

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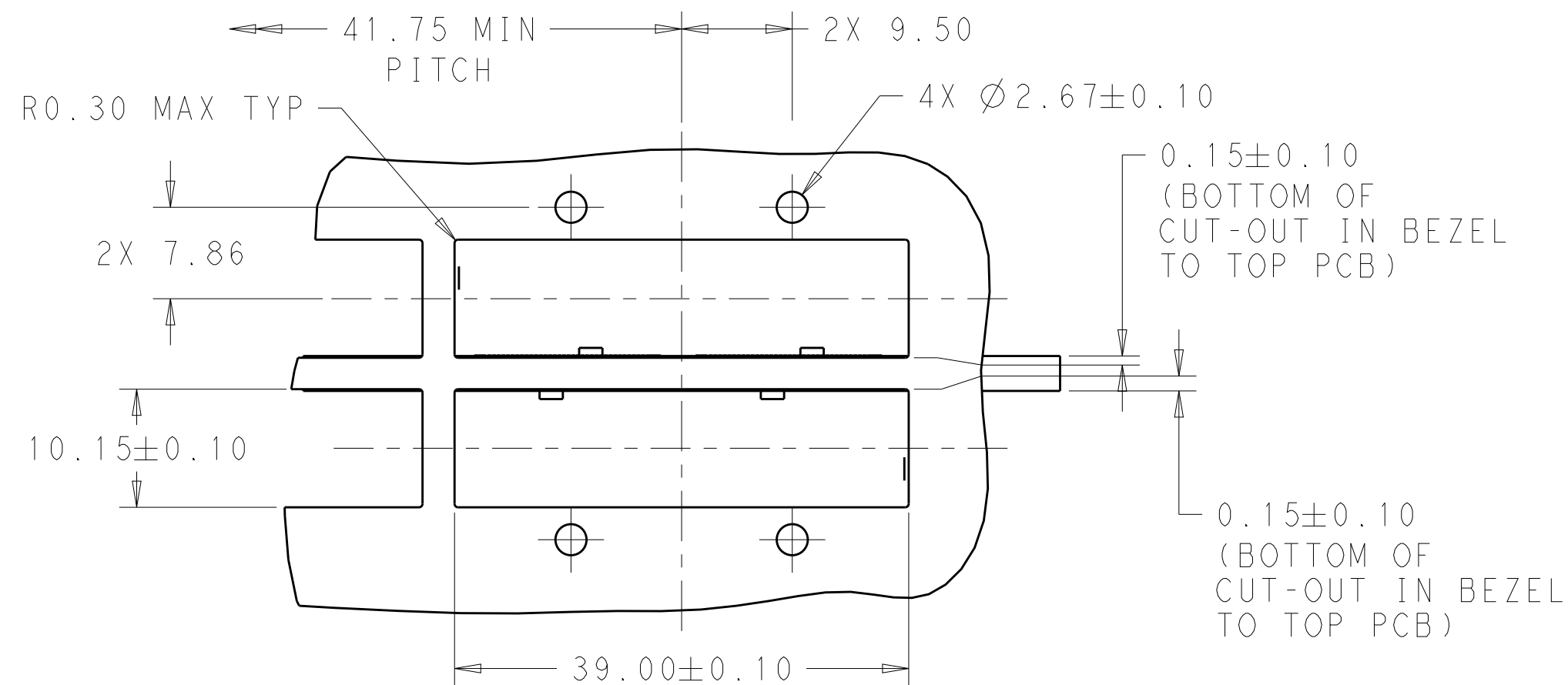
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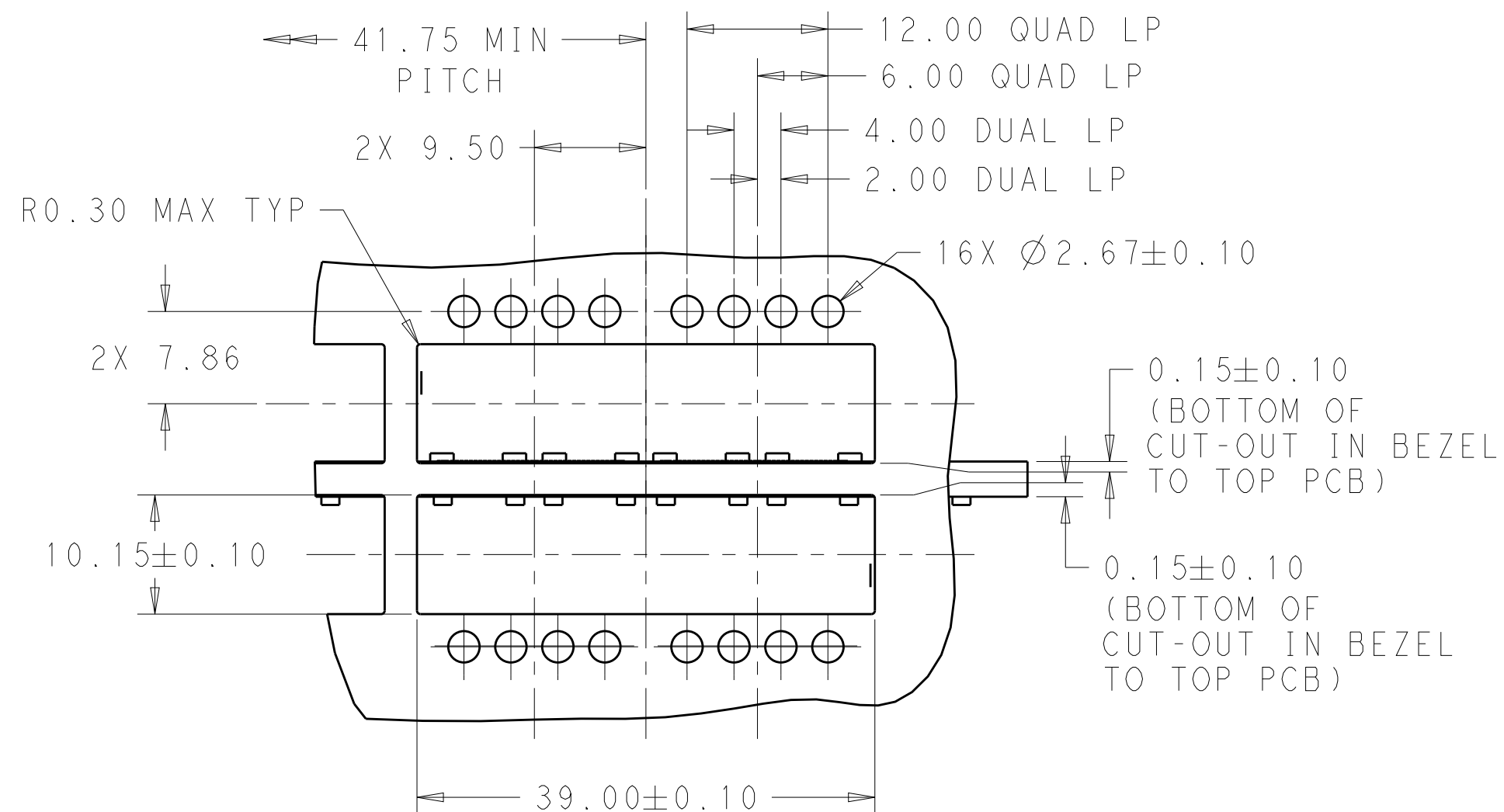
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## REVISIONS

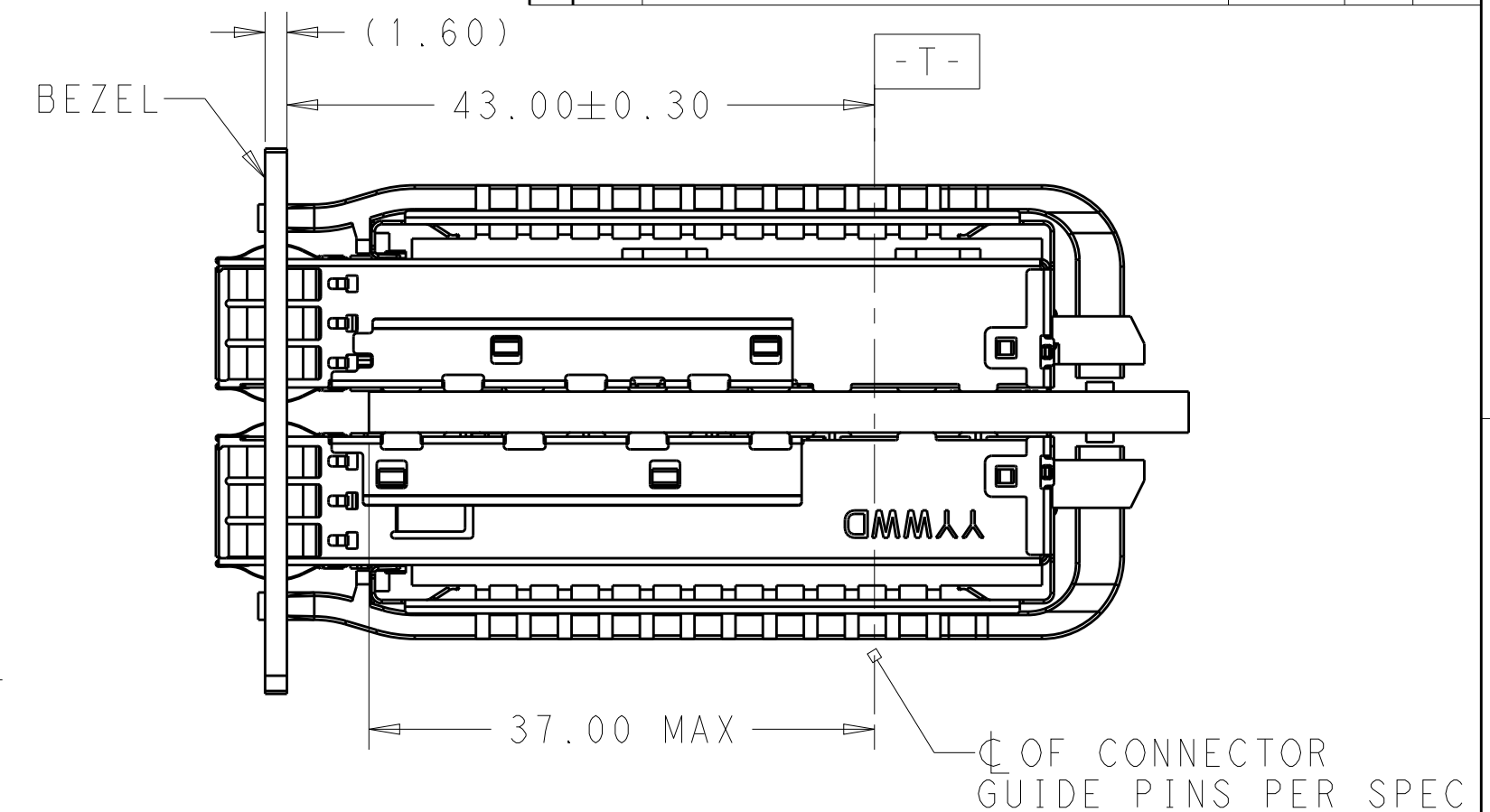
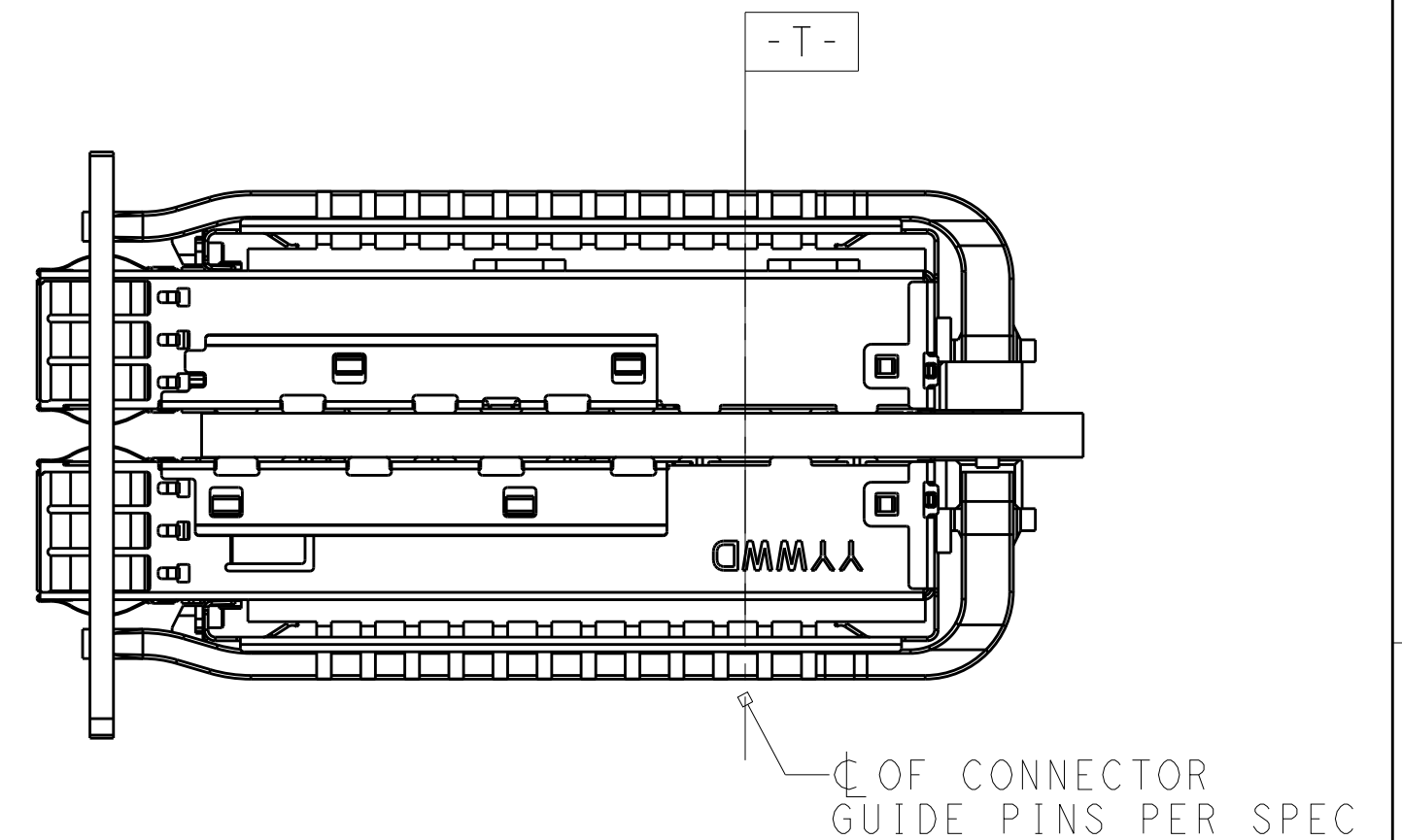
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
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CAGE ASSEMBLY IS OMITED



CAGE ASSEMBLY IS OMITED

BELLY TO BELLY MOUNTING  
SCALE 2:1BELLY TO BELLY MOUNTING  
SCALE 2:1

|                                        |  |                                |                                                                                                        |  |  |  |
|----------------------------------------|--|--------------------------------|--------------------------------------------------------------------------------------------------------|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>16SEP2014   | TE Connectivity                                                                                        |  |  |  |
|                                        |  | CHK<br>JASON YANG<br>16SEP2014 |                                                                                                        |  |  |  |
| DIMENSIONS:                            |  | APVD<br>-                      | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |  |  |  |
| mm                                     |  | PRODUCT SPEC<br>108-19428      | SIZE<br>A200779                                                                                        |  |  |  |
|                                        |  | APPLICATION SPEC<br>114-32023  | CAGE CODE<br>C-2170808                                                                                 |  |  |  |
| MATERIAL<br>SEE NOTES                  |  | WEIGHT<br>-                    | DRAWING NO<br>-                                                                                        |  |  |  |
|                                        |  | CUSTOMER DRAWING               | RESTRICTED TO<br>-                                                                                     |  |  |  |
|                                        |  |                                | SCALE 1:1 SHEET 5 OF 9 REV B                                                                           |  |  |  |



—CROSS HATCHED AREA DENOTES  
WHEN SURFACE TRACES ARE PERMITTED

- 2X (Ø 1.05)   
REAR PIN HOLES

—SEE DETAIL A

12.49 MAX 13.49 MIN

37.00 MAX

2 17X Ø 1.05±0.05  
COMPLIANT PIN HOLE

—HATCHED AREA DENOTES  
COMPONENT AND TRACE  
KEEP-OUT  
(EXCEPT CHASSIS GROUND)

THIS DRAWING IS A CONTROLLED DOCUMENT.

|            |           |
|------------|-----------|
| DWN        | 16SEP2014 |
| BING LIU   |           |
| CHK        | 16SEP2014 |
| JASON YANG |           |

## TE Connectivity

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| NAME | RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |
|------|------------------------------------------------------------------------------------------------|

|      |           |            |
|------|-----------|------------|
| SIZE | CAGE CODE | DRAWING NO |
| A2   | 00779     | C-2170808  |

|       |       |       |        |     |   |
|-------|-------|-------|--------|-----|---|
| SCALE | 1 : 1 | SHEET | 6 OF 9 | REV | B |
|-------|-------|-------|--------|-----|---|

|              |
|--------------|
| PRODUCT SPEC |
| 108-19428    |

APPLICATION SPEC  
114-32023

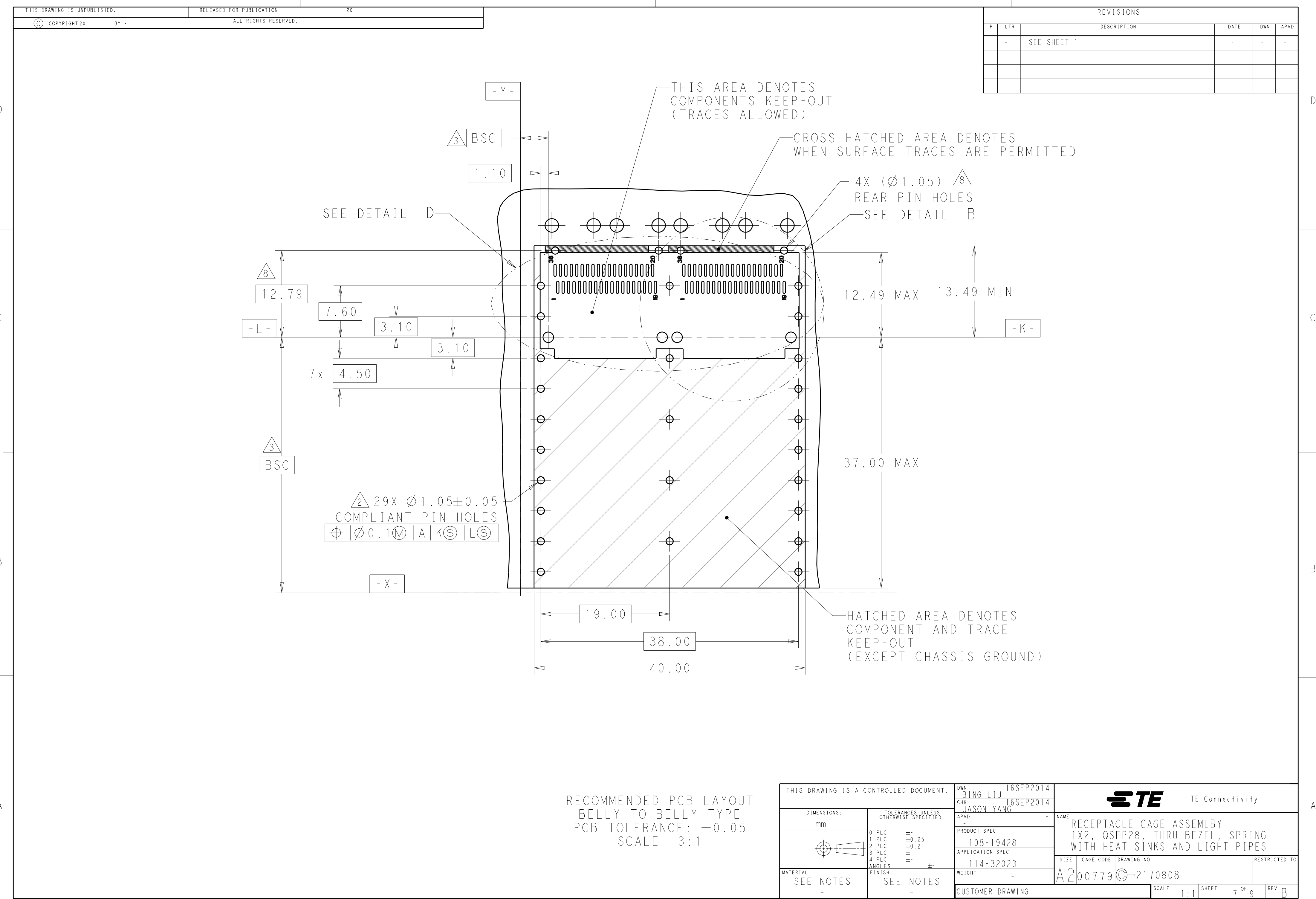
|        |  |
|--------|--|
| WEIGHT |  |
|--------|--|

CUSTOMER DRAWING

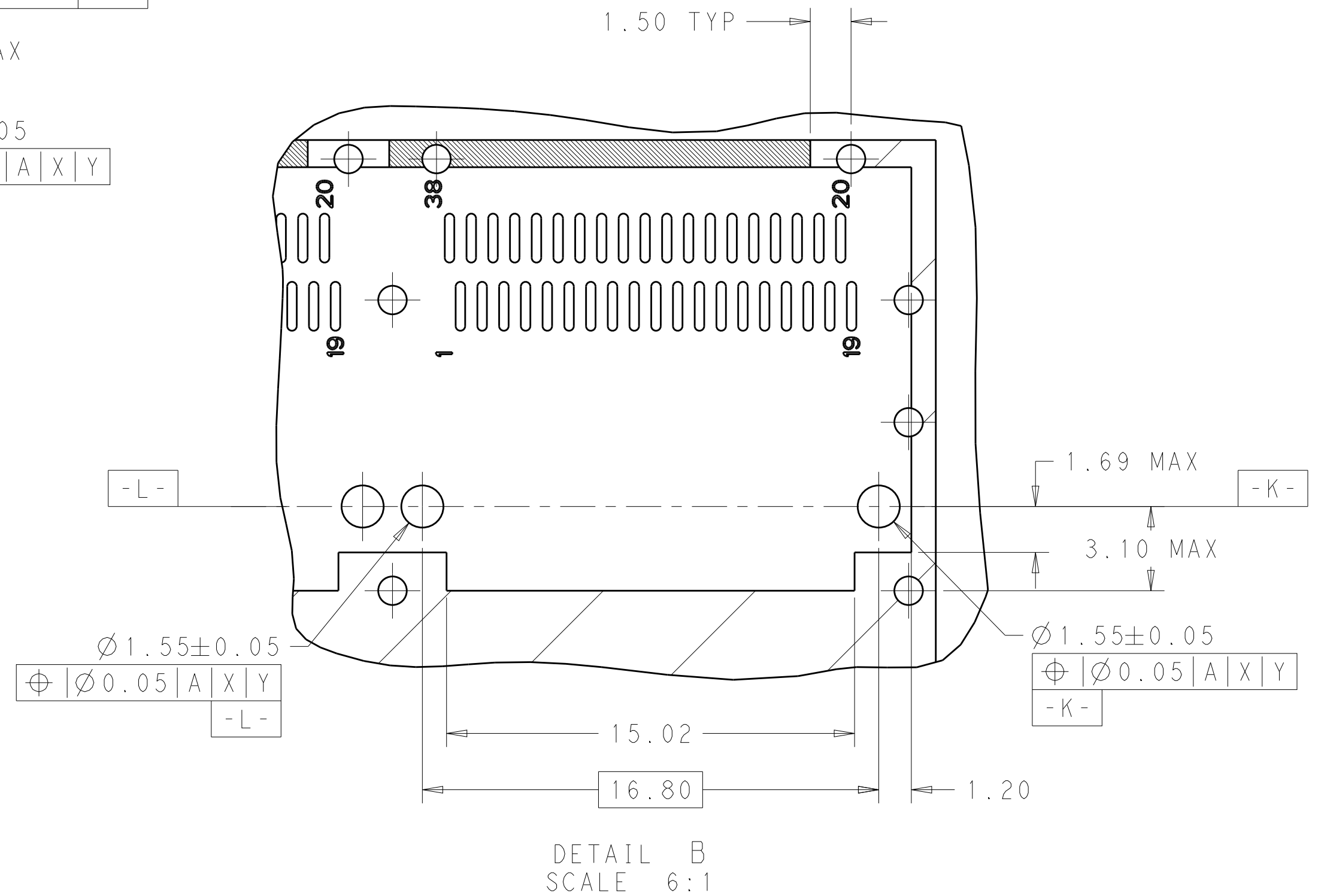
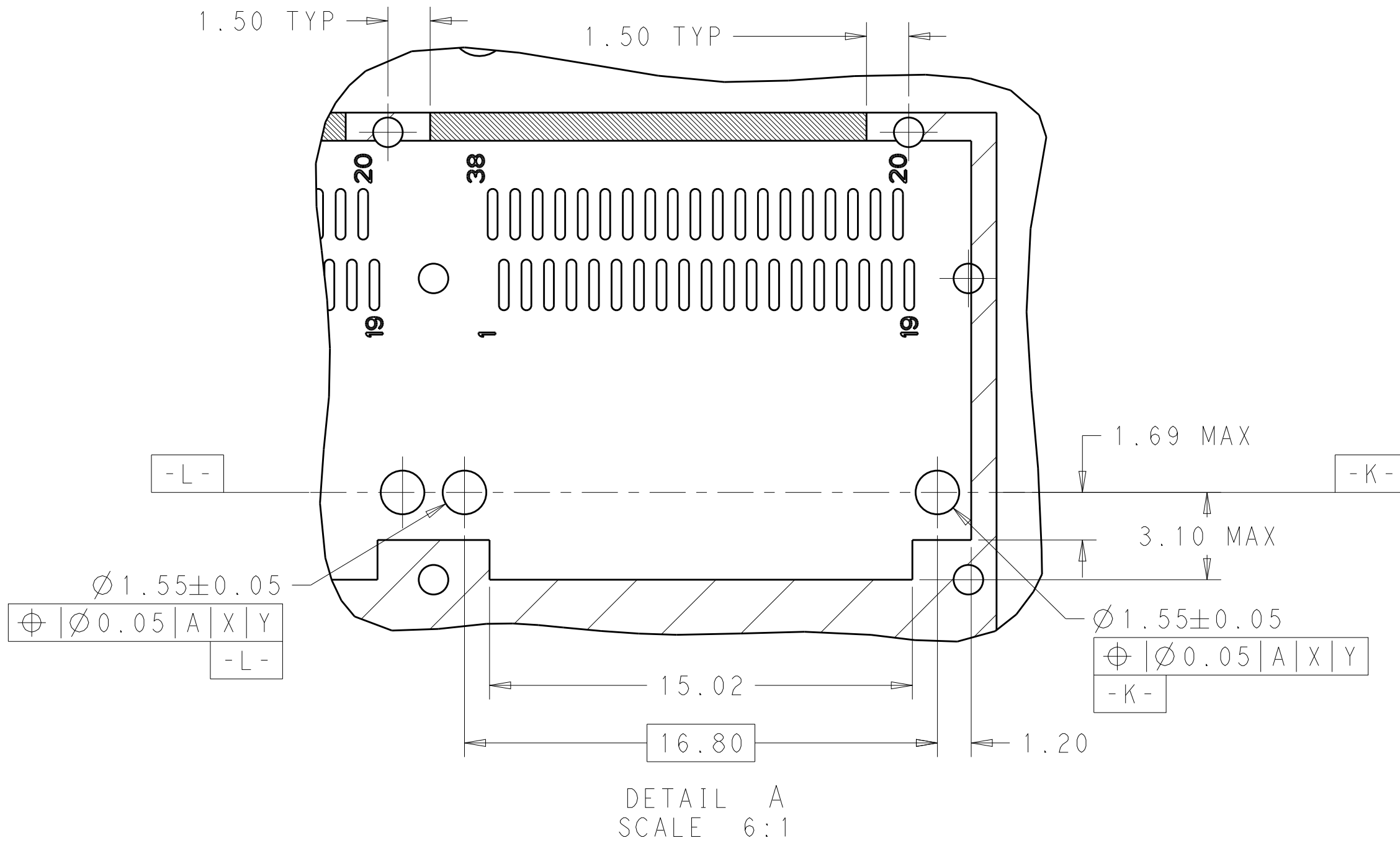
|       |       |
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| SCALE | 1 : 1 |
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SHEET 6 OF 6

|   |       |
|---|-------|
| 9 | REV B |
|---|-------|

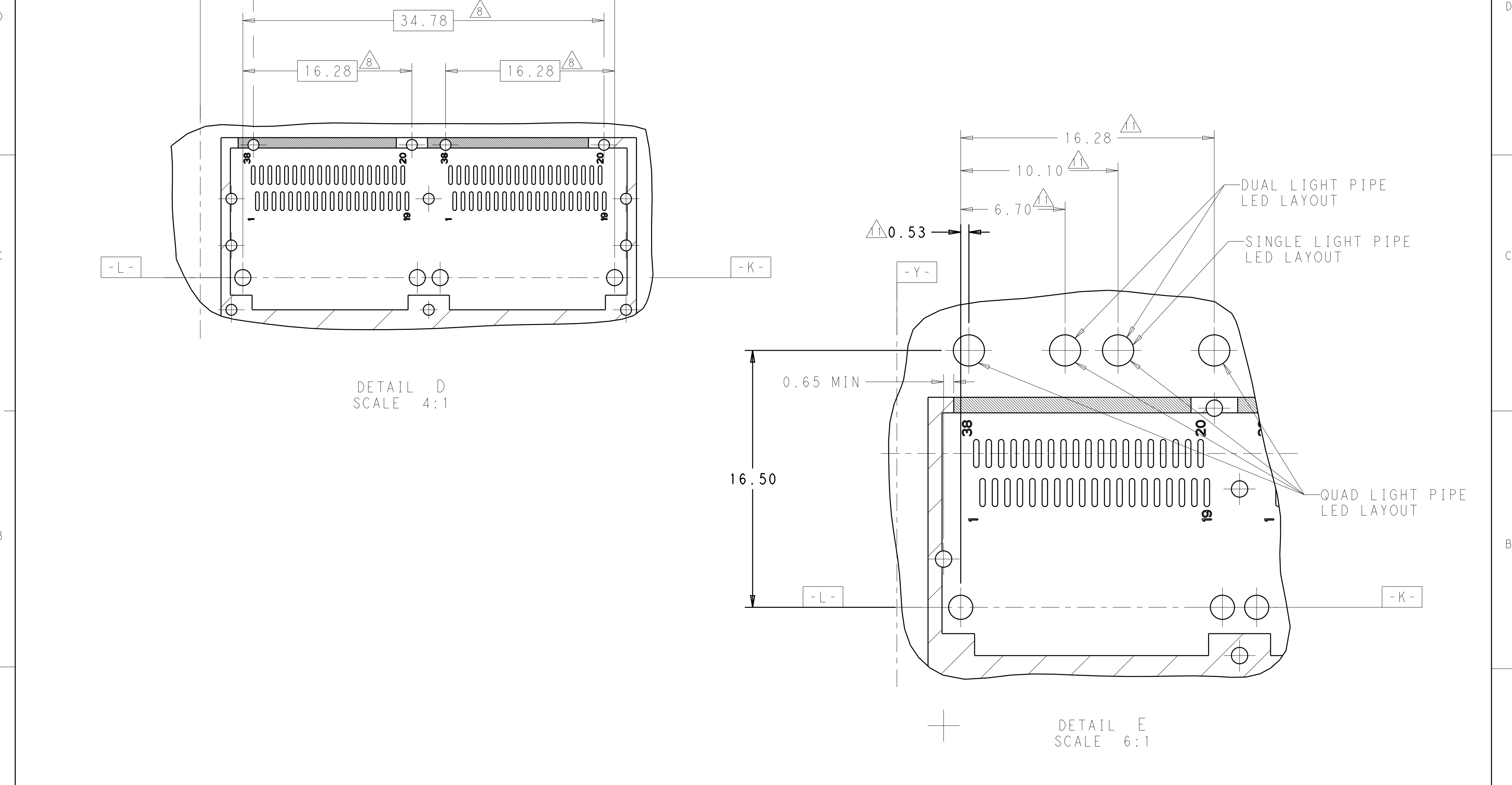


| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
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|                                                                                       |  |                                        |  |                                                                                                        |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------|--|--------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN 16SEP2014<br>BING LIU              |  |  TE Connectivity  |  |
|                                                                                       |  | CHR 16SEP2014<br>JASON YANG            |  |                                                                                                        |  |
| DIMENSIONS:                                                                           |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |  |
| mm                                                                                    |  | APVD -                                 |  |                                                                                                        |  |
|  |  | PRODUCT SPEC<br>108-19428              |  |                                                                                                        |  |
| 0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±<br>4 PLC ±<br>ANGLES ±±               |  | APPLICATION SPEC<br>114-32023          |  |                                                                                                        |  |
| MATERIAL                                                                              |  | FINISH                                 |  | SIZE CAGE CODE DRAWING NO<br>A200779 C-2170808                                                         |  |
| SEE NOTES                                                                             |  | SEE NOTES                              |  | RESTRICTED TO                                                                                          |  |
| -                                                                                     |  | -                                      |  | -                                                                                                      |  |
| CUSTOMER DRAWING                                                                      |  |                                        |  | SCALE 1:1 SHEET 8 of 9 REV B                                                                           |  |

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
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|   |     |             |      |     |      |



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DWN  
BING LIU  
16SEP2014

CHK  
JASON YANG  
16SEP2014

APVD  
-

DIMENSIONS:  
mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±  
1 PLC ±0.25  
2 PLC ±0.2  
3 PLC ±  
4 PLC ±  
ANGLES ±  
FINISH

MATERIAL  
SEE NOTES

SEE NOTES

PRODUCT SPEC  
108-19428

APPLICATION SPEC  
114-32023

WEIGHT  
-

CUSTOMER DRAWING

NAME  
RECEPTACLE CAGE ASSEMBLY  
1X2, QSFP28, THRU BEZEL, SPRING  
WITH HEAT SINKS AND LIGHT PIPES

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C-2170808

RESTRICTED TO  
-

SCALE  
1:1

SHEET  
9 OF 9

REV  
B

# Mouser Electronics

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