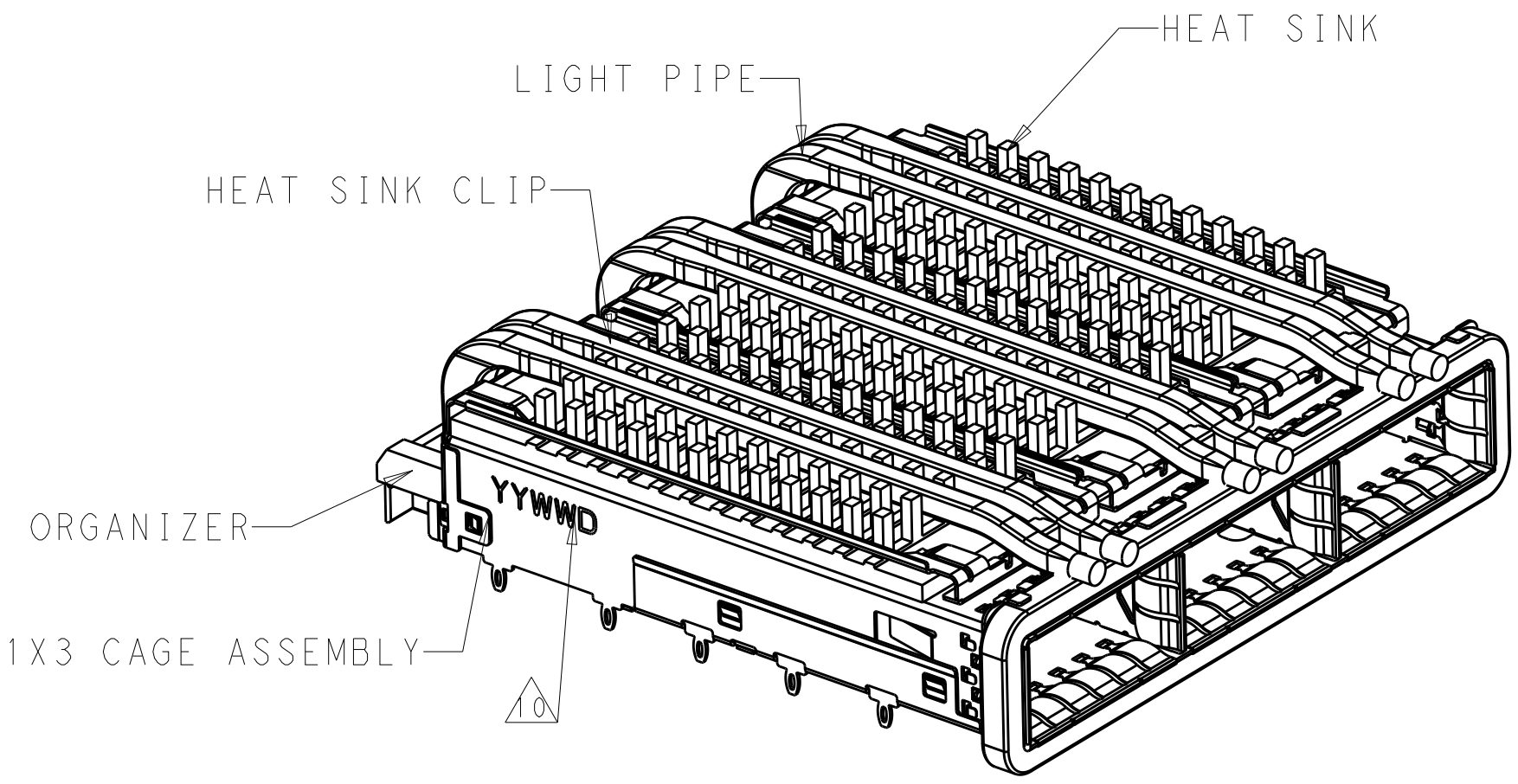
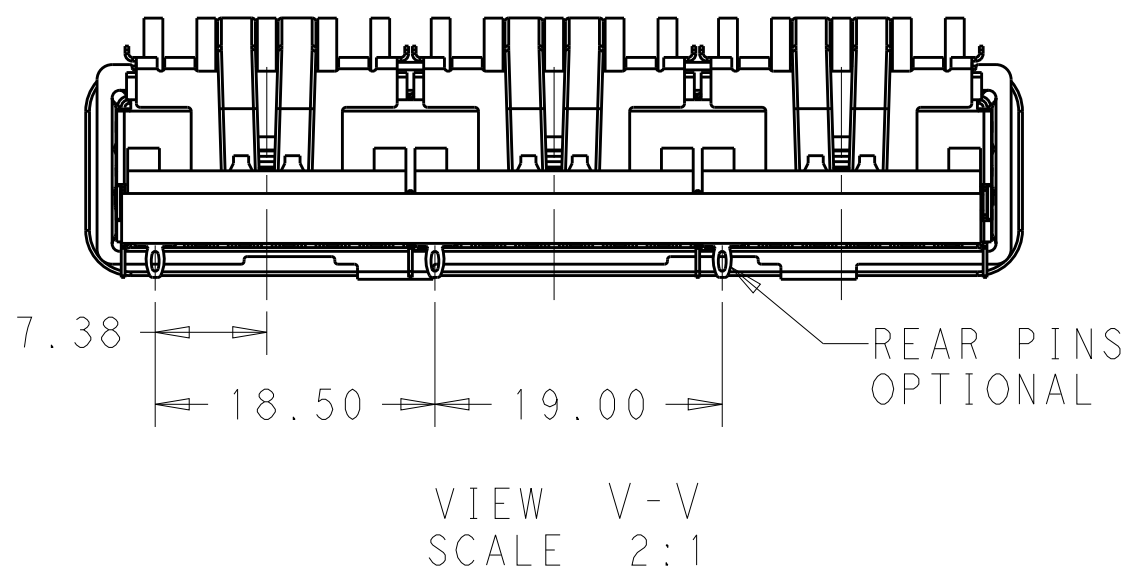
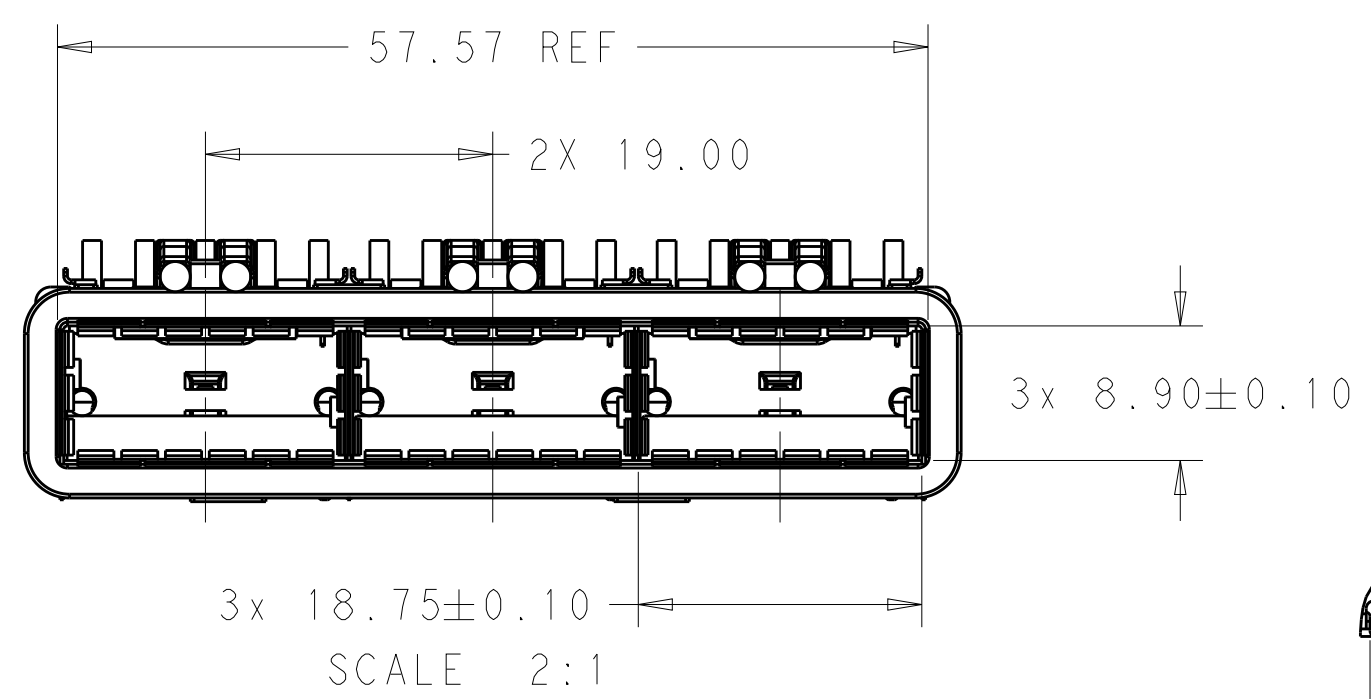


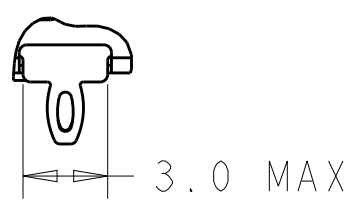
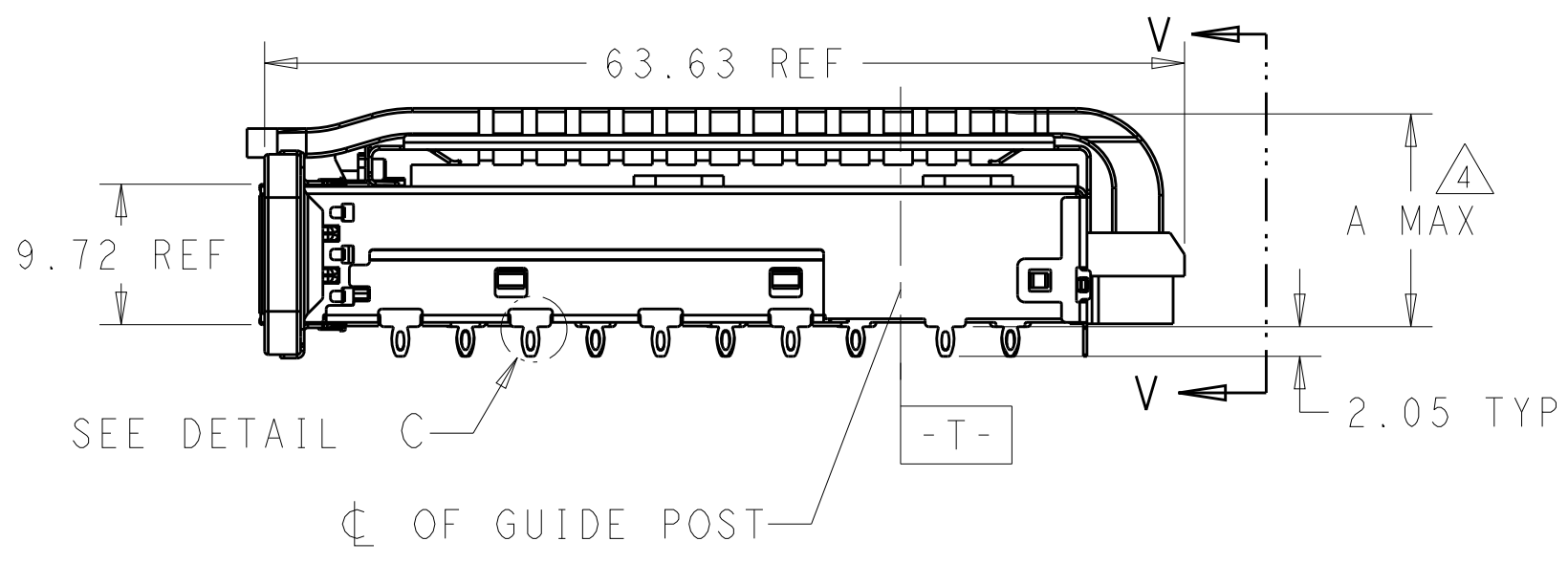
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|     |      | P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
| GP  | 00   |           | A   | RELEASE                   | 31DEC2015 | JY  | SH   |
|     |      |           | A1  | REVISED PER ECO-19-016043 | 21OCT2019 | SH  | SH   |
|     |      |           |     |                           |           |     |      |
|     |      |           |     |                           |           |     |      |
|     |      |           |     |                           |           |     |      |



2-2170769-2 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  
ORGANIZER: POLYESTER
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: 3.00 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.

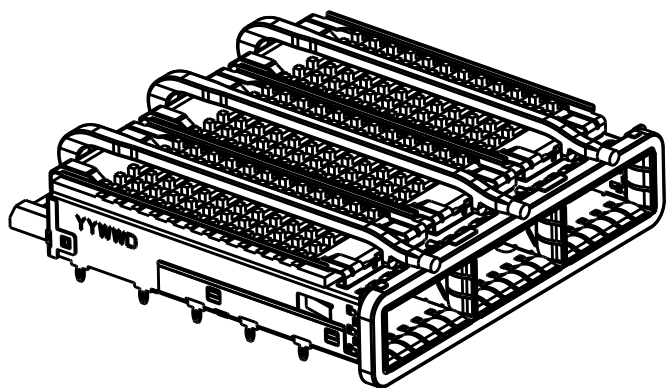


DETAIL C  
SCALE 4:1

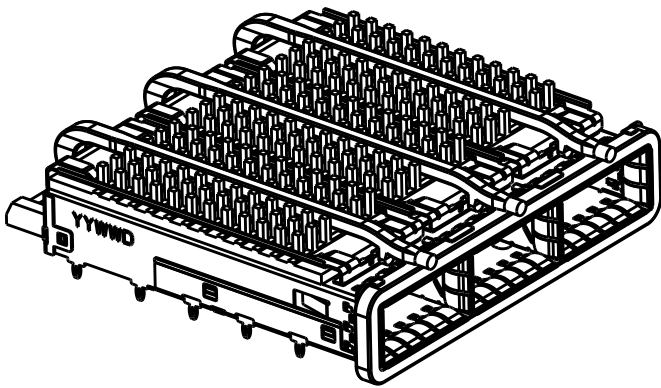
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| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>23APR2014                                                     | TE Connectivity                                                                                 |                  |                        |                    |
|                                        |  | CHK<br>JASON YANG<br>23APR2014                                                   |                                                                                                 |                  |                        |                    |
|                                        |  | APVD<br>SEAN HAN<br>31DEC2015                                                    | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X3, QSFP28 |                  |                        |                    |
| DIMENSIONS:<br>mm                      |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                        | PRODUCT SPEC<br>108-19428                                                                       | SIZE<br>A200779  | CAGE CODE<br>C-2170769 | RESTRICTED TO<br>- |
|                                        |  | 0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±<br>4 PLC ±<br>ANGLES ±<br>FINISH | APPLICATION SPEC<br>114-32023                                                                   | DRAWING NO       | SCALE 3:1              | SHEET 1 OF 9       |
| MATERIAL<br>SEE NOTES                  |  | SEE NOTES                                                                        | WEIGHT<br>-                                                                                     | CUSTOMER DRAWING |                        |                    |
|                                        |  |                                                                                  |                                                                                                 |                  |                        | REV A1             |

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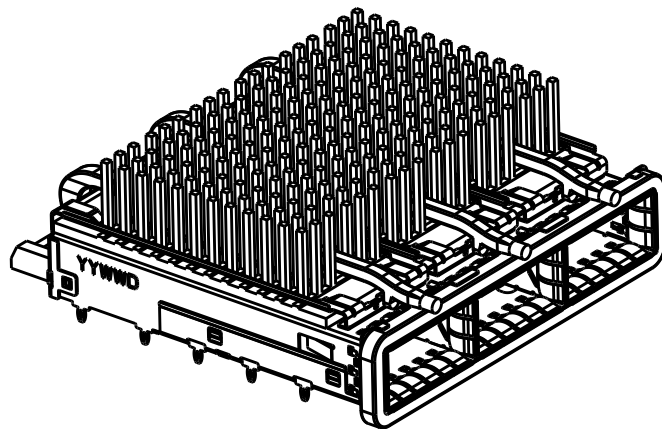
HEAT SINK OPTION



SCALE 1:1

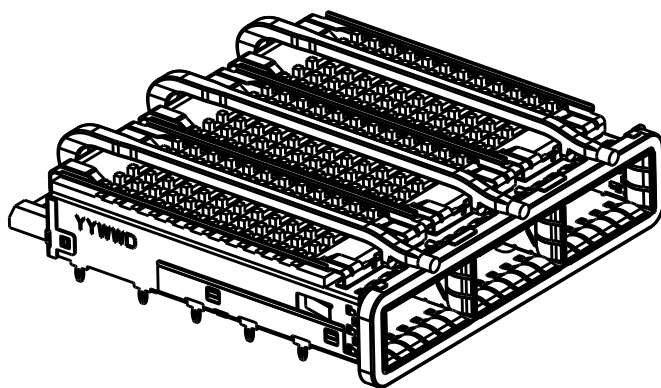


SCALE 1:1

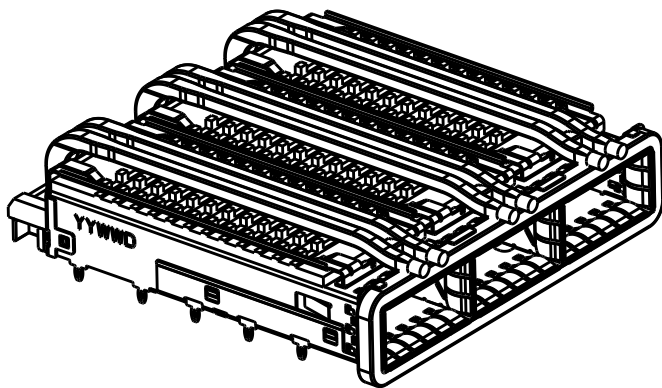


SCALE 1:1

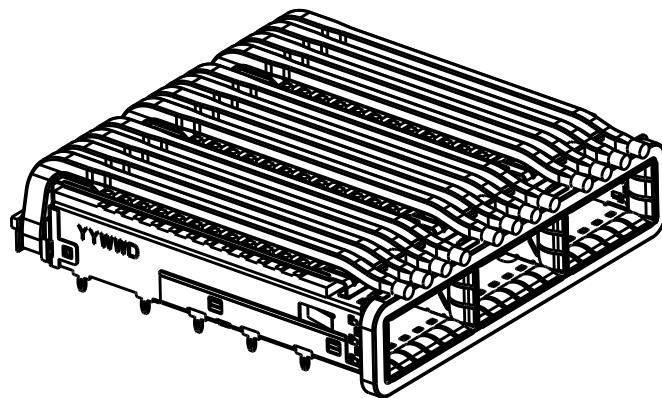
LIGHT PIPE OPTION



SCALE 1:1

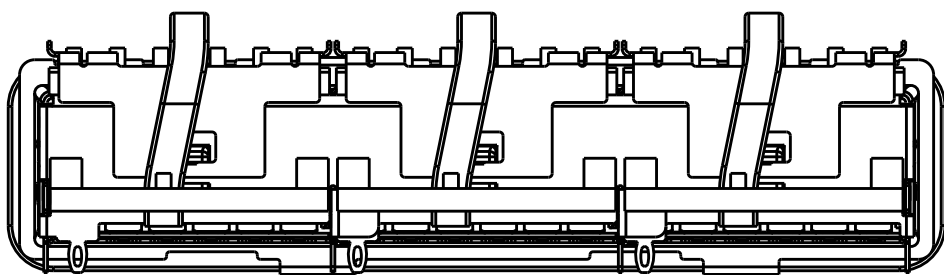


SCALE 1:1

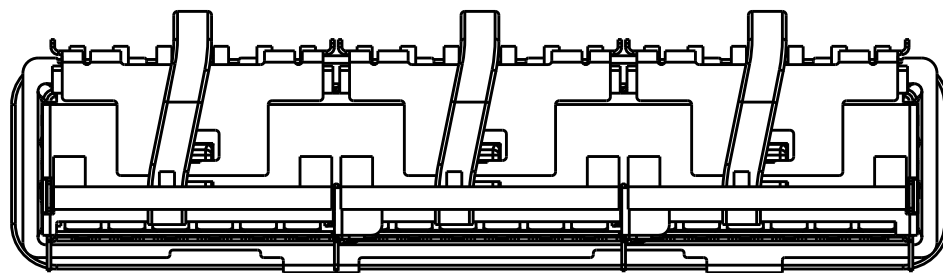


SCALE 1:1

# OF REAR PIN OPTION



1 REAR PIN  
SCALE 2:1



0 REAR PIN  
SCALE 2:1

|                                        |  |                                                                                                                  |                                                                                                 |            |                         |           |
|----------------------------------------|--|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------|-------------------------|-----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>23APR2014                                                                                     | TE Connectivity                                                                                 |            |                         |           |
|                                        |  | CHK<br>JASON YANG<br>23APR2014                                                                                   |                                                                                                 |            |                         |           |
|                                        |  | APVD<br>SEAN HAN<br>31DEC2015                                                                                    | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X3, QSFP28 |            |                         |           |
| 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 ± | PRODUCT SPEC<br>108-19428                                                                       |            | SIZE<br>A2              |           |
| MATERIAL<br>SEE NOTES<br>material_2    |  | FINISH<br>SEE NOTES<br>finish_spec_2                                                                             | APPLICATION SPEC<br>114-32023                                                                   |            | CAGE CODE<br>00779      |           |
|                                        |  |                                                                                                                  | WEIGHT<br>-                                                                                     |            | DRAWING NO<br>C-2170769 |           |
|                                        |  |                                                                                                                  | CUSTOMER DRAWING                                                                                |            | RESTRICTED TO<br>-      |           |
|                                        |  |                                                                                                                  | SCALE<br>3:1                                                                                    | SHEET<br>1 | OF<br>9                 | REV<br>A1 |

4

3

2

1

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LOC

DIST

REVISIONS

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

|               |       |                   |             |             |
|---------------|-------|-------------------|-------------|-------------|
| 0             | 23.0  | QUAD              | NETWORKING  | 4-2170769-6 |
| 0             | 16.0  | QUAD              | SAN         | 4-2170769-5 |
| 0             | 13.7  | QUAD              | PCI         | 4-2170769-4 |
| 1             | 23.0  | QUAD              | NETWORKING  | 4-2170769-3 |
| 1             | 16.0  | QUAD              | SAN         | 4-2170769-2 |
| 1             | 13.7  | QUAD              | PCI         | 4-2170769-1 |
| 0             | 23.0  | DUAL              | NETWORKING  | 2-2170769-6 |
| 0             | 16.0  | DUAL              | SAN         | 2-2170769-5 |
| 0             | 13.7  | DUAL              | PCI         | 2-2170769-4 |
| 1             | 23.0  | DUAL              | NETWORKING  | 2-2170769-3 |
| 1             | 16.0  | DUAL              | SAN         | 2-2170769-2 |
| 1             | 13.7  | DUAL              | PCI         | 2-2170769-1 |
| 0             | 16.0  | SINGLE            | W/O HS      | 2170769-7   |
| 0             | 23.0  | SINGLE            | NETWORKING  | 2170769-6   |
| 0             | 16.0  | SINGLE            | SAN         | 2170769-5   |
| 0             | 13.7  | SINGLE            | PCI         | 2170769-4   |
| 1             | 23.0  | SINGLE            | NETWORKING  | 2170769-3   |
| 1             | 16.0  | SINGLE            | SAN         | 2170769-2   |
| 1             | 13.7  | SINGLE            | PCI         | 2170769-1   |
| # OF REAR PIN | DIM A | LIGHT PIPE OPTION | APPLICATION | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±-

1 PLC ±0.25

2 PLC ±0.2

3 PLC ±-

4 PLC ±-

ANGLES ±-

MATERIAL

SEE NOTES

material\_2

FINISH

SEE NOTES

finish\_spec\_2

DWN 23APR2014

CHK 23APR2014

APVD 31DEC2015

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

TE Connectivity

NAME

RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X3, QSFP28

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A2

00779

2170769

-

SCALE

3:1

SHEET

1

OF

9

REV

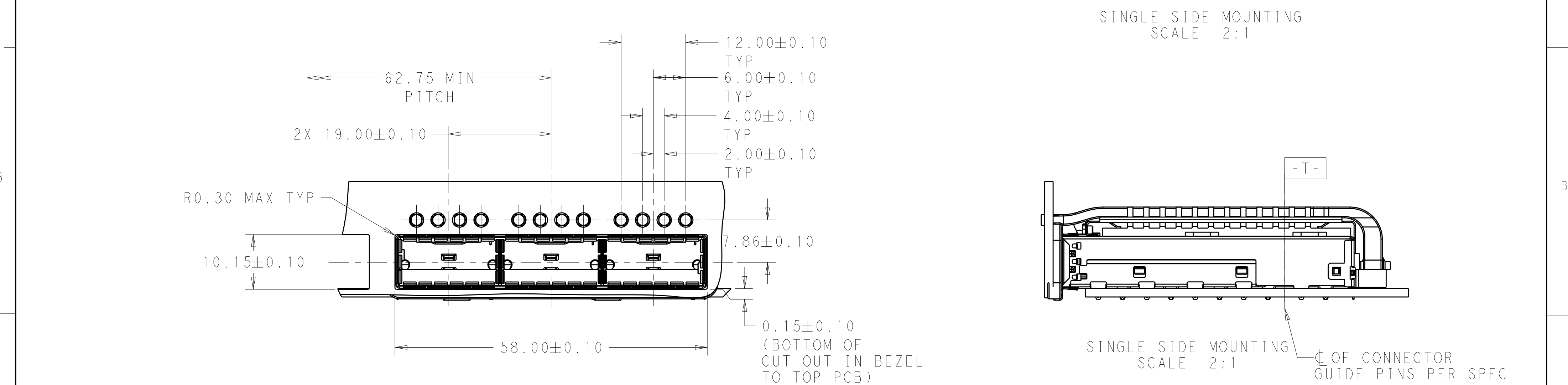
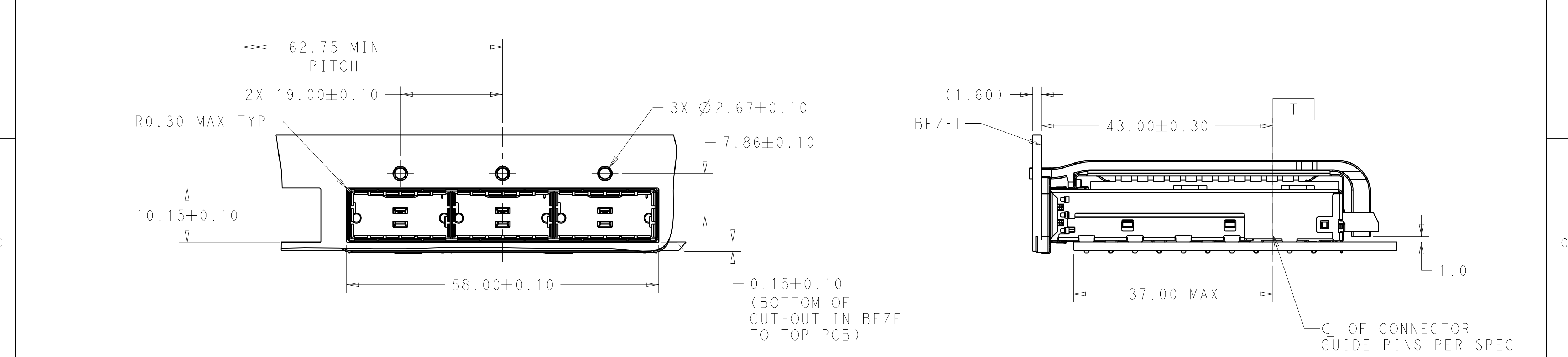
A1

1471-9 (3/11)

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

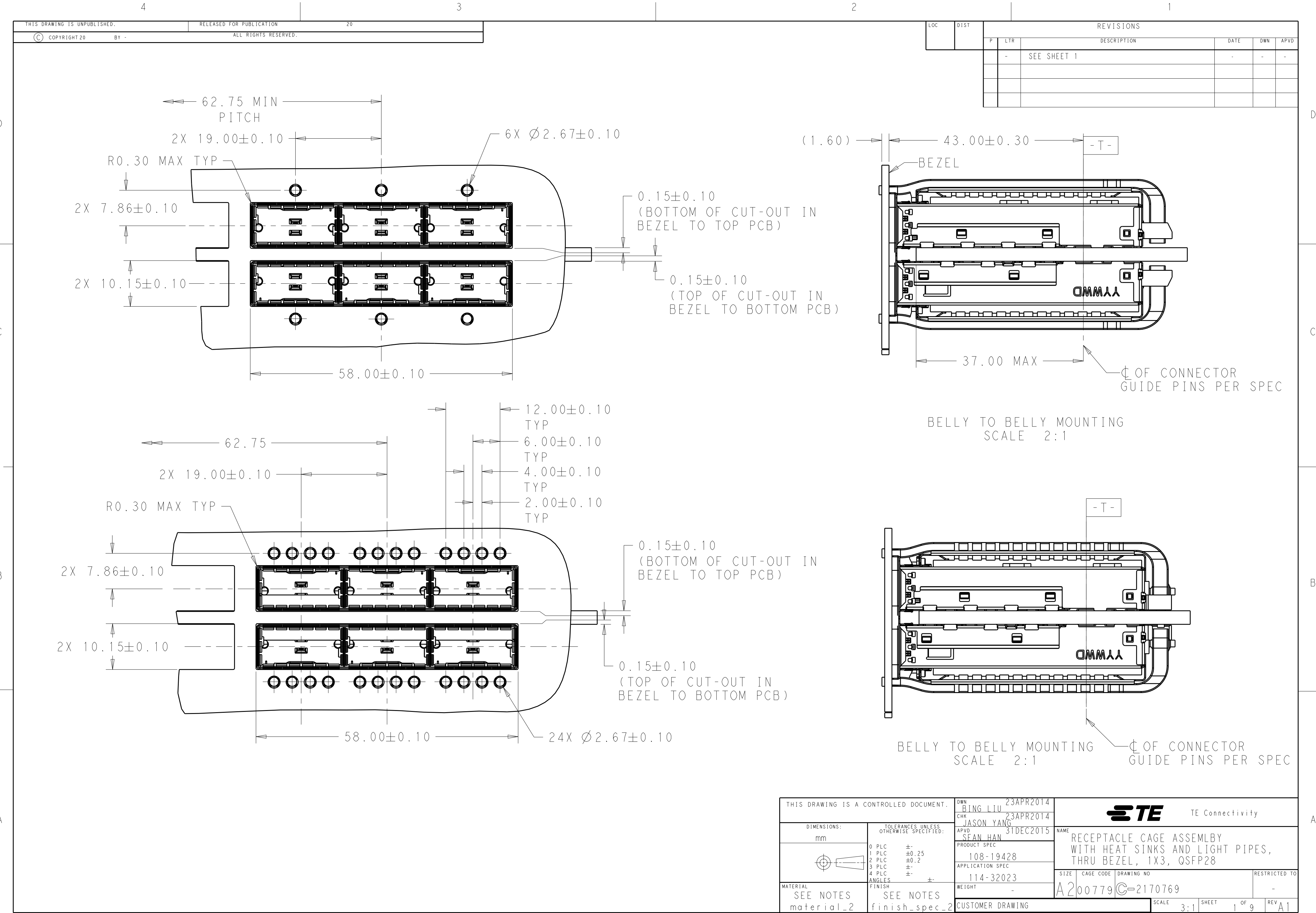
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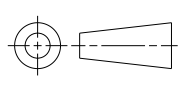


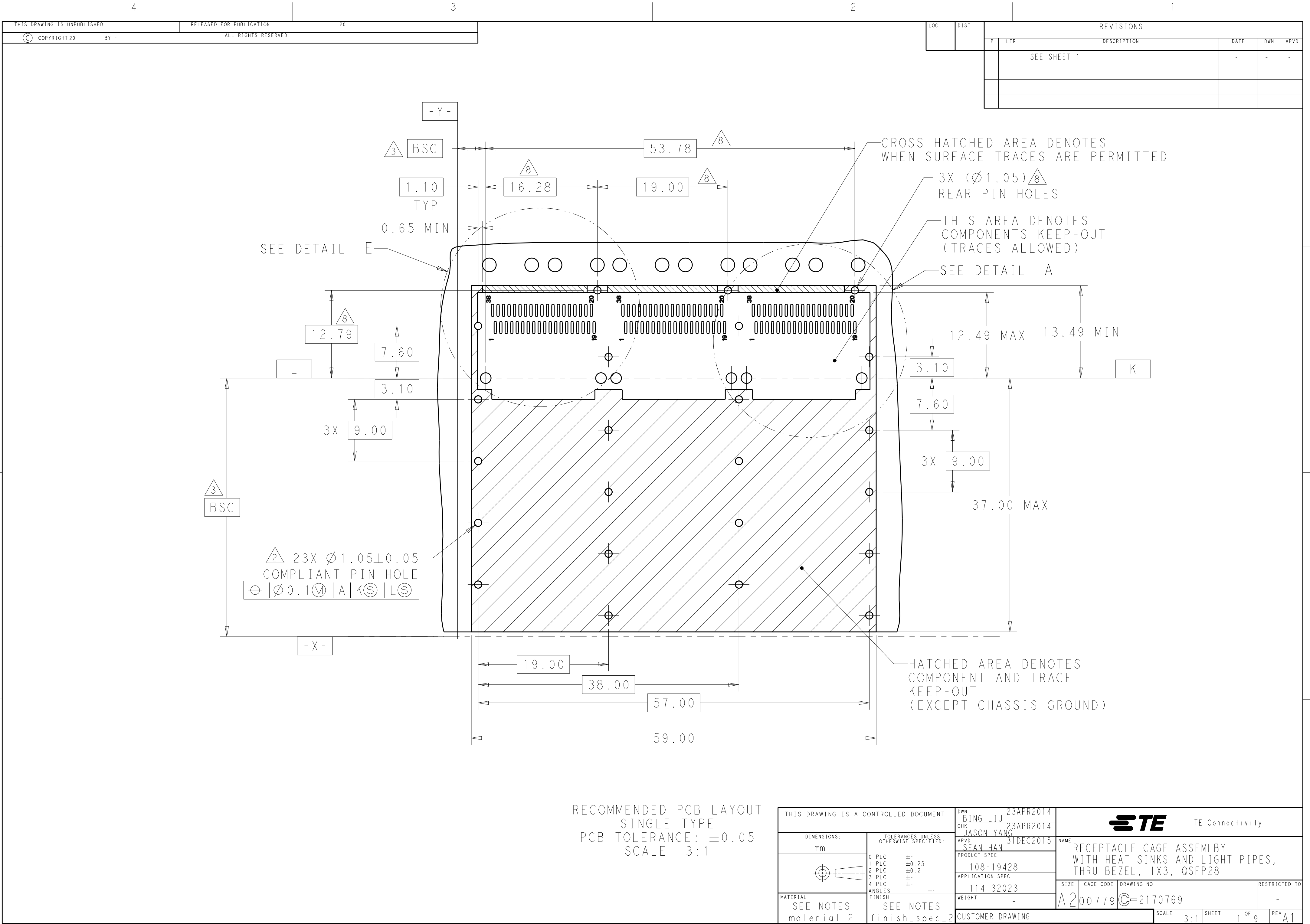
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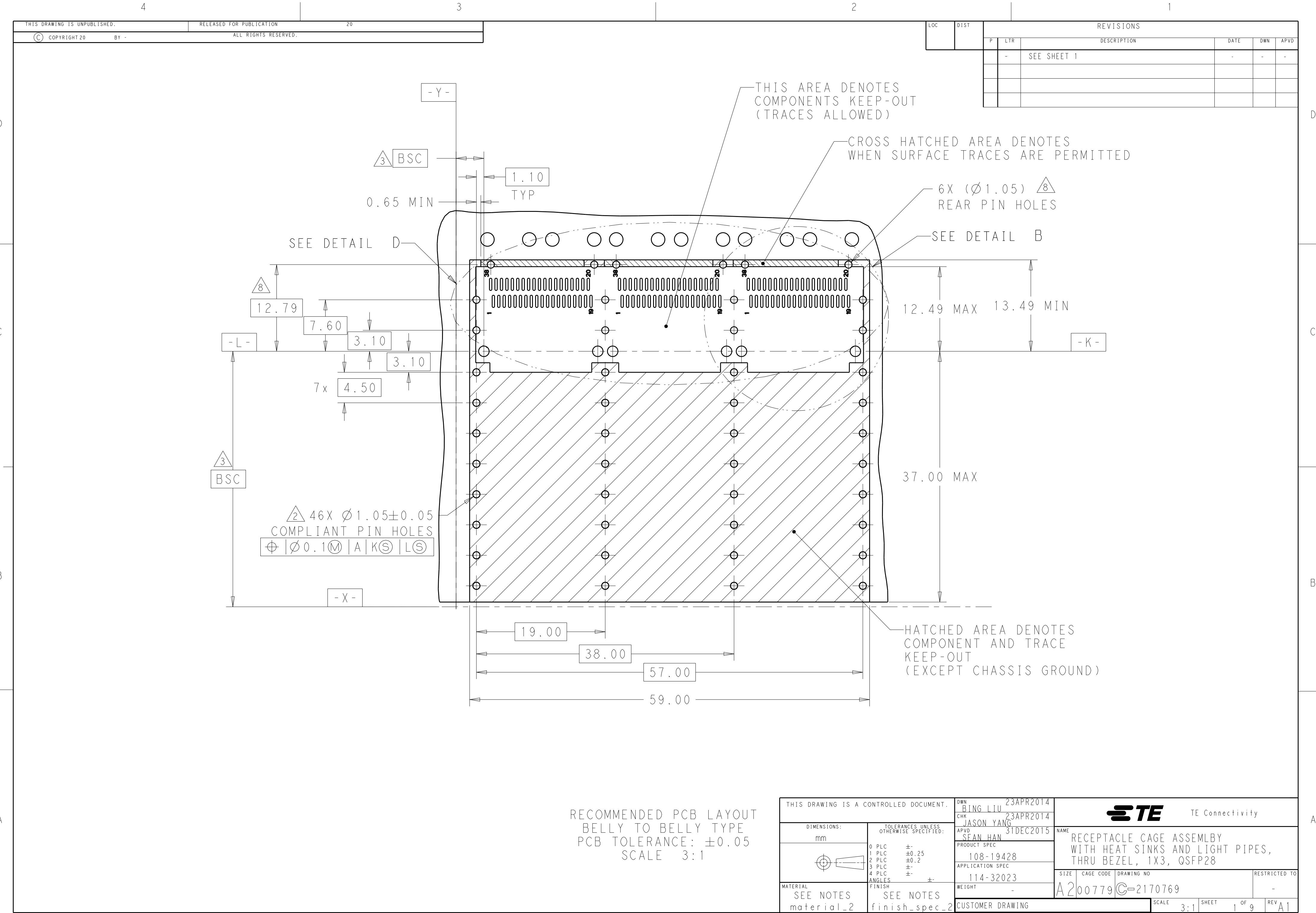
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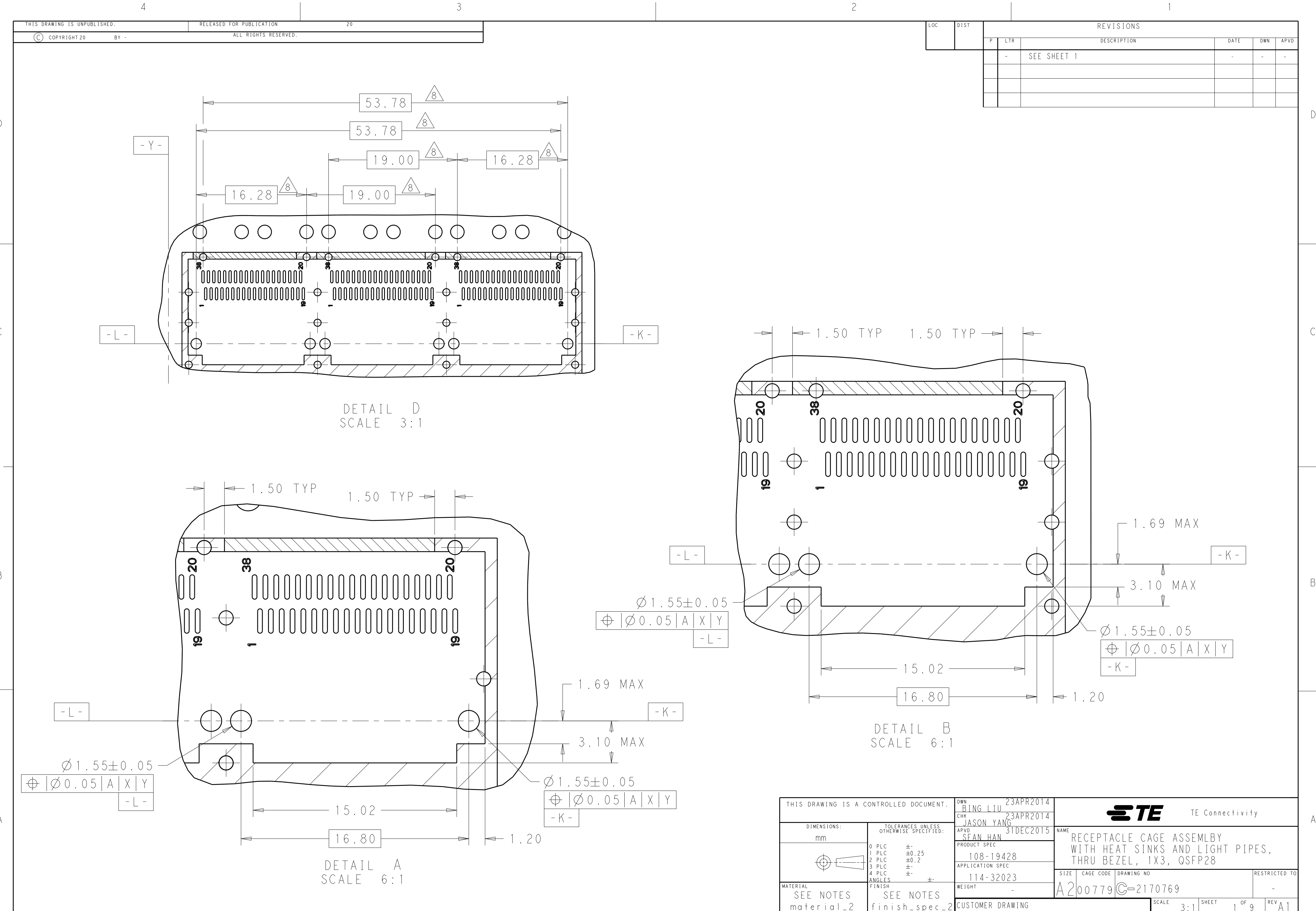
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| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>23APR2014         | TE Connectivity                                                                                 |  |
| DIMENSIONS:<br>mm                      |  | CHK<br>JASON YANG<br>23APR2014       |                                                                                                 |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | APVD<br>SEAN HAN<br>31DEC2015        | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X3, QSFP28 |  |
| 0 PLC ±-                               |  | PRODUCT SPEC                         | SIZE<br>A200779                                                                                 |  |
| 1 PLC ±0.25                            |  | 108-19428                            | CAGE CODE<br>C-2170769                                                                          |  |
| 2 PLC ±0.2                             |  | APPLICATION SPEC                     | DRAWING NO<br>114-32023                                                                         |  |
| 3 PLC ±-                               |  | 114-32023                            | RESTRICTED TO<br>-                                                                              |  |
| 4 PLC ±-                               |  | WEIGHT<br>-                          | SCALE<br>3:1                                                                                    |  |
| ANGLES ±-                              |  | CUSTOMER DRAWING                     | SHEET<br>1 OF 9                                                                                 |  |
| FINISH<br>SEE NOTES<br>material_2      |  | FINISH<br>SEE NOTES<br>finish_spec_2 | REV<br>A1                                                                                       |  |



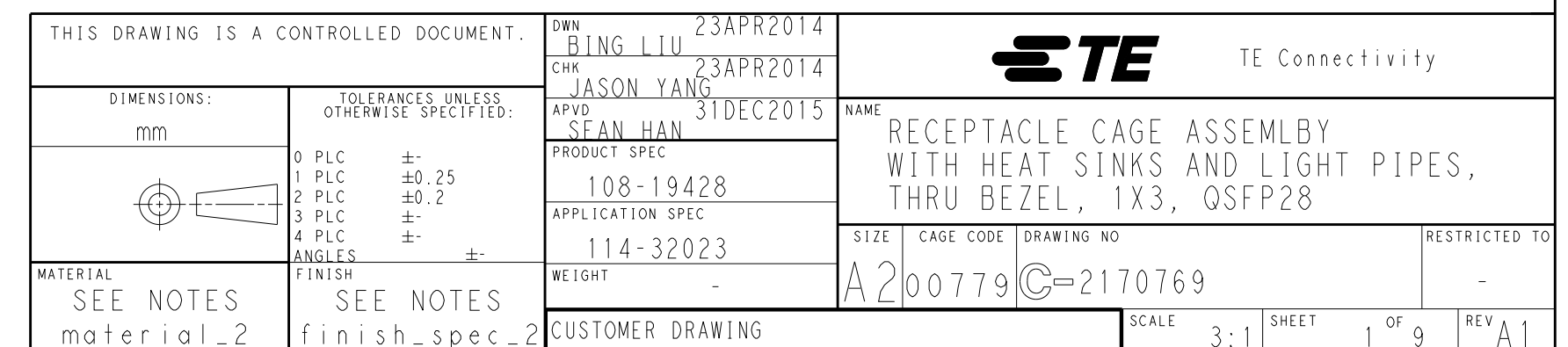
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|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------|------------|-------------------------|-----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |                                                                        | DWN<br>BING LIU<br>23APR2014   |  TE Connectivity |            |                         |           |
| DIMENSIONS:                                                                           |                                                                        | CHK<br>JASON YANG<br>23APR2014 |                                                                                                       |            |                         |           |
| mm                                                                                    | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                 | APVD<br>SEAN HAN<br>31DEC2015  | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X3, QSFP28       |            |                         |           |
|  | 0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±<br>4 PLC ±<br>ANGLES ± | PRODUCT SPEC<br>108-19428      | SIZE<br>A200779                                                                                       |            | DRAWING NO<br>C-2170769 |           |
| MATERIAL<br>SEE NOTES<br>material_2                                                   | FINISH<br>SEE NOTES<br>finish_spec_2                                   | APPLICATION SPEC<br>114-32023  | WEIGHT<br>-                                                                                           |            | RESTRICTED TO<br>-      |           |
| CUSTOMER DRAWING                                                                      |                                                                        |                                | SCALE<br>3:1                                                                                          | SHEET<br>1 | OF<br>9                 | REV<br>A1 |







| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
|     |      | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      |           | -   | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |



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