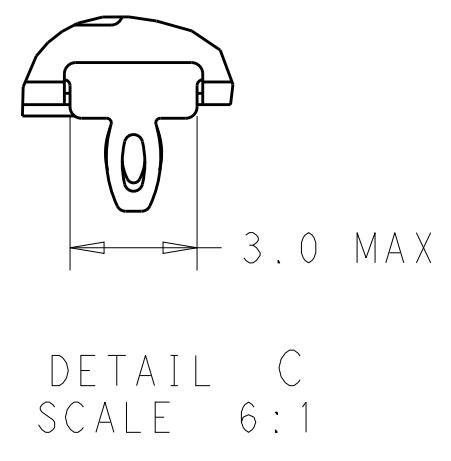
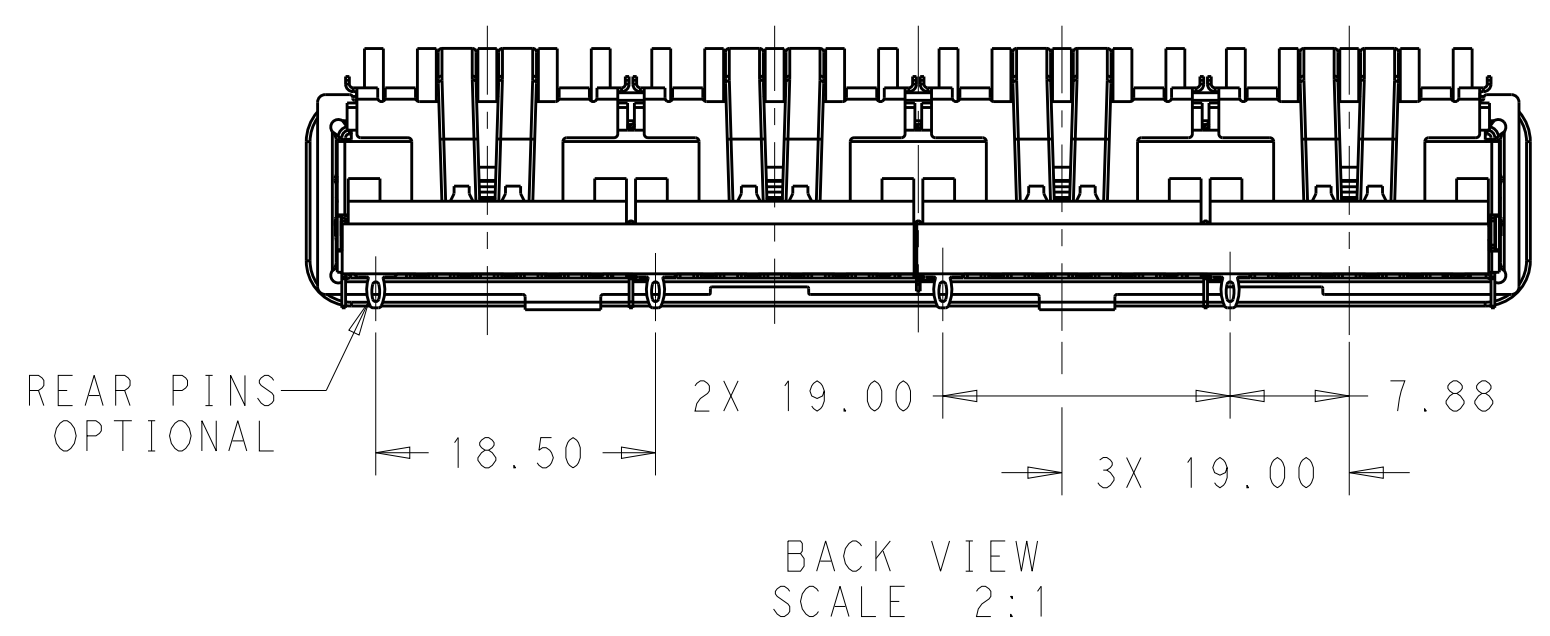
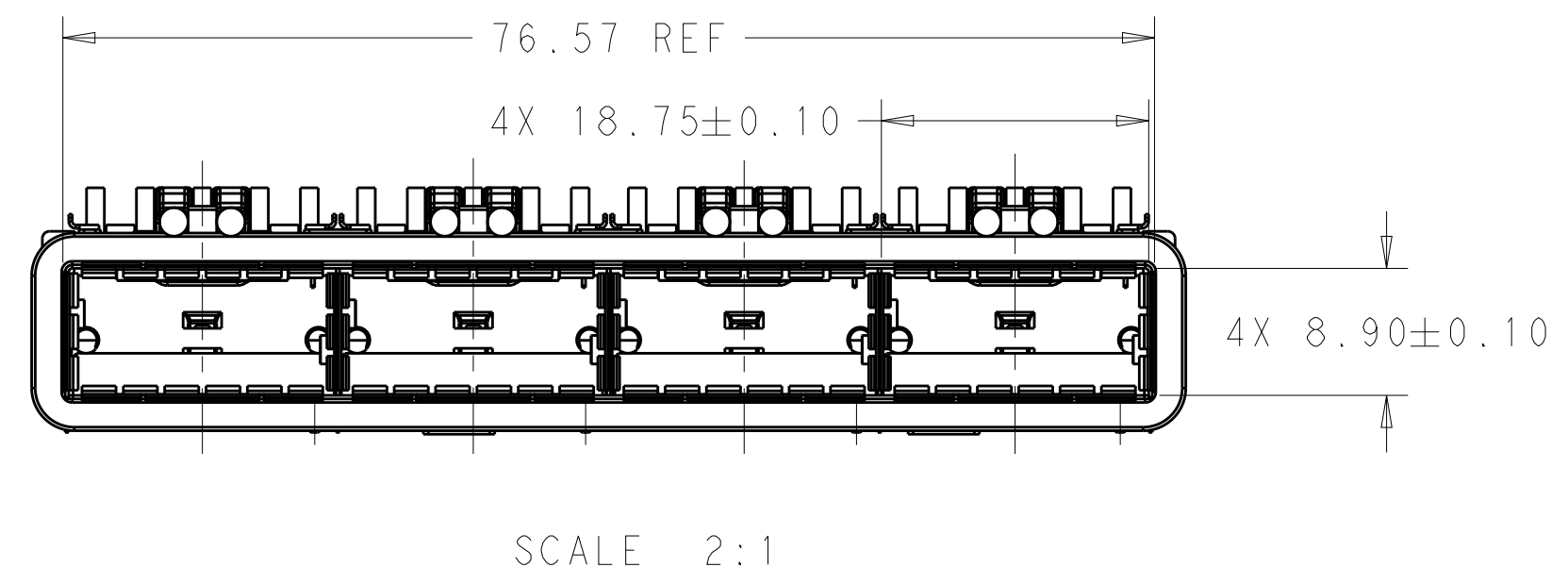
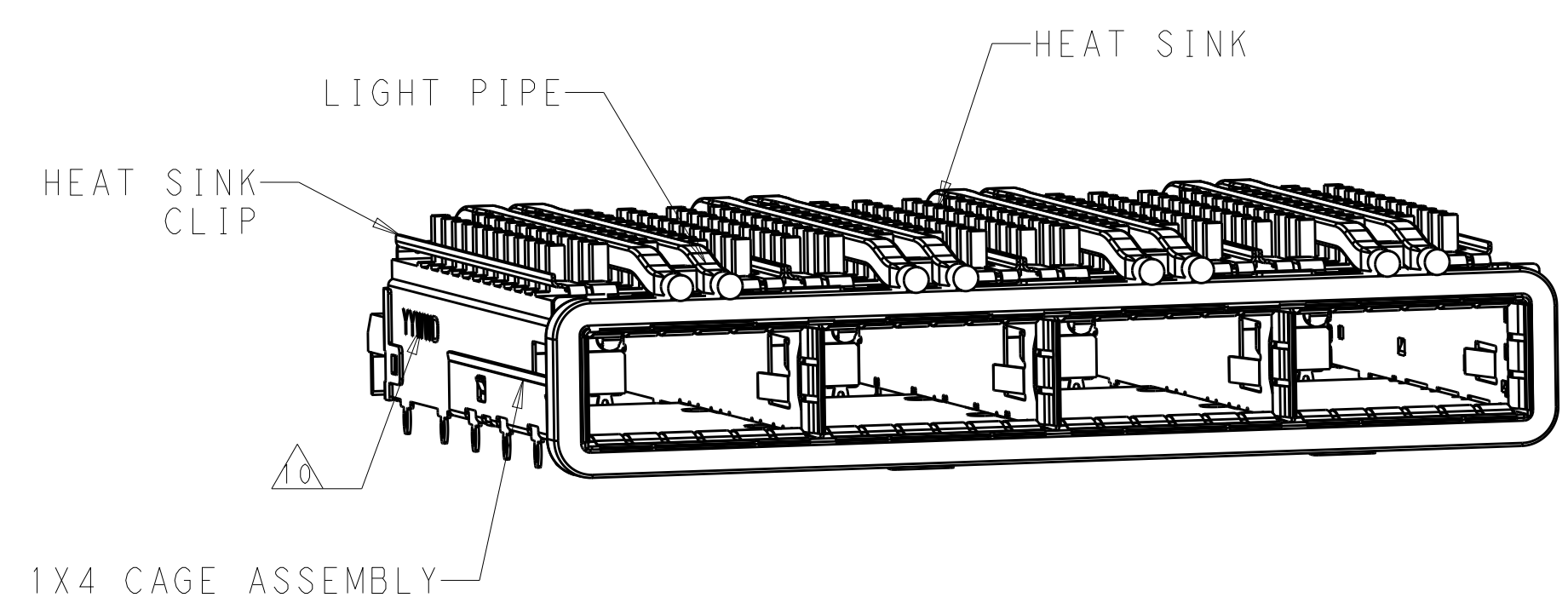


D

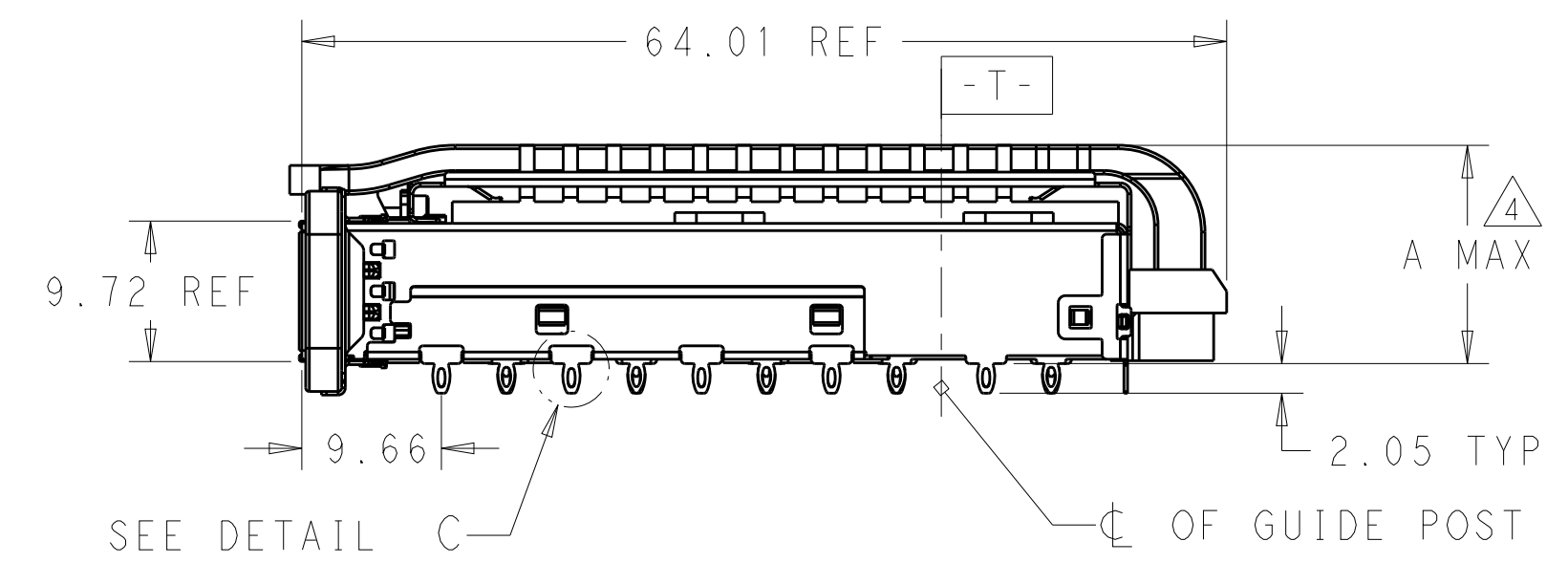
C

B

A



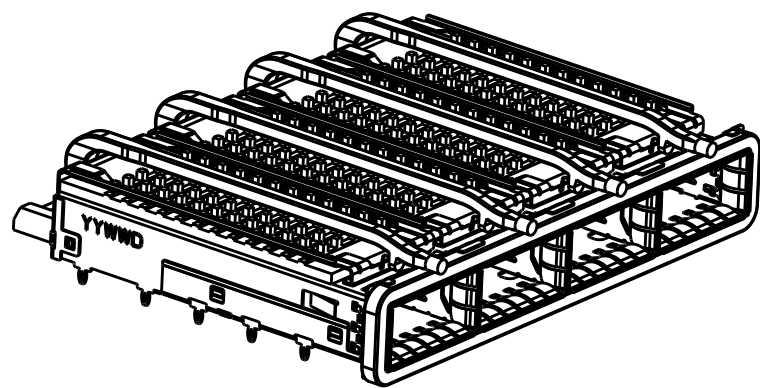
- COMPONENTS  
CAGE ASSEMBLY: NICKEL-SILVER ALLOY  
HEAT SINK: ALUMINUM/BLACK ANODIZE  
HEAT SINK CLIP: STAINLESS STEEL  
EMI SPRING: COPPER ALLOY/NICKEL PLATE  
EMI GASKET: PLATED FILLED SILICONE  
LIGHT PIPE: CLEAR POLYCARBONATE WITH 94 V-0  
ORGANIZER: POLYESTER WITH UL 94 V-0
- REFERENCE APPLICATION SPECIFICATION 114-32023  
FOR RECOMMENDED DRILL HOLE DIAMETER AND  
PLATING THICKNESS
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER
- DIMENSION APPLIES WITH MODULE INSERTED IN CAGE
- HEAT SINKS, HEAT SINK CLIPS AND LIGHT PIPES  
ARE SHIPPED ASSEMBLED ON CAGE
- MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN  
DOUBLE SIDED: 3.00 MIN
- DATUM **-A-** IS TOP SURFACE OF THE HOST BOARD.
- THESE HOLES ARE OPTIONAL WHEN THE REAR PINS ARE REMOVED.
- MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.
- DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN.



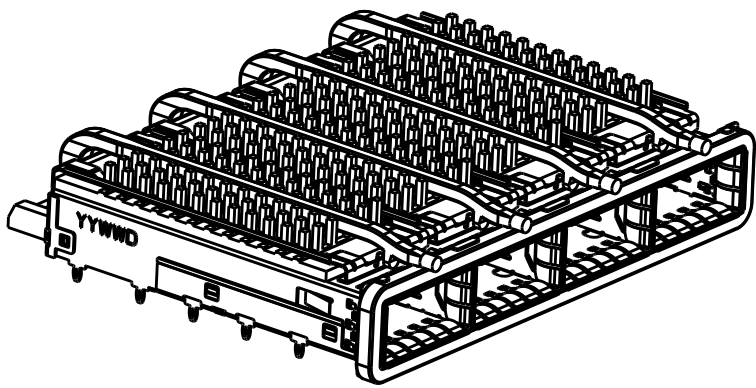
|                                        |                                                                                  |                                                   |                        |                                                                                                         |                        |
|----------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------|------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                  | DWN<br>JASON YANG<br>CHK<br>SEAN HAN<br>APVD<br>- | 20JUN2014<br>01NOV2016 | <b>STE</b> TE Connectivity                                                                              |                        |
| DIMENSIONS:<br>mm                      | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                           | PRODUCT SPEC                                      | 108-19428              | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |                        |
|                                        | 0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±<br>4 PLC ±<br>ANGLES ±<br>FINISH | APPLICATION SPEC                                  | 114-32023              | SIZE<br>A200779                                                                                         | CAGE CODE<br>C-2170785 |
| MATERIAL<br>SEE NOTES                  | SEE NOTES                                                                        | WEIGHT                                            | -                      | DRAWING NO                                                                                              | RESTRICTED TO          |
| CUSTOMER DRAWING                       |                                                                                  | SCALE                                             | 3:1                    | SHEET                                                                                                   | 1 OF 9                 |
|                                        |                                                                                  | REV                                               | A                      |                                                                                                         |                        |

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

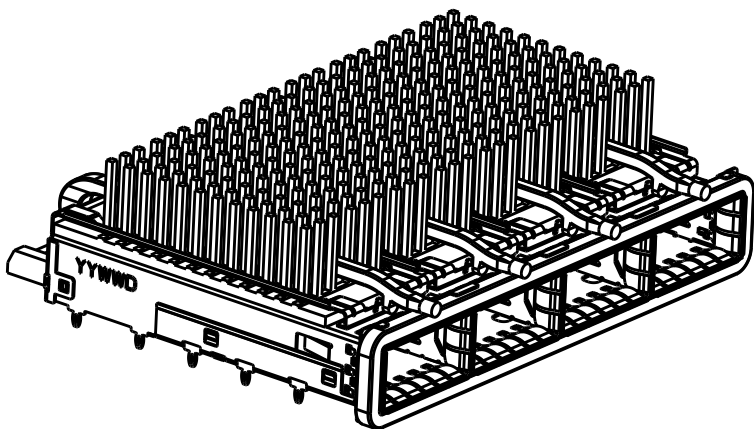
HEAT SINK OPTION



PCI HEAT SINK  
SCALE 1:1

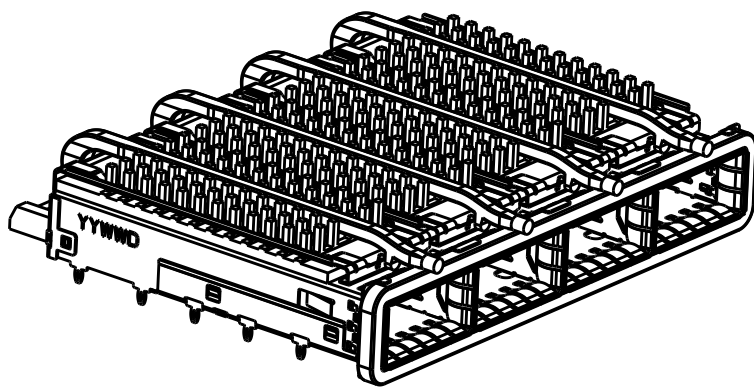


SAN HEAT SINK  
SCALE 1:1

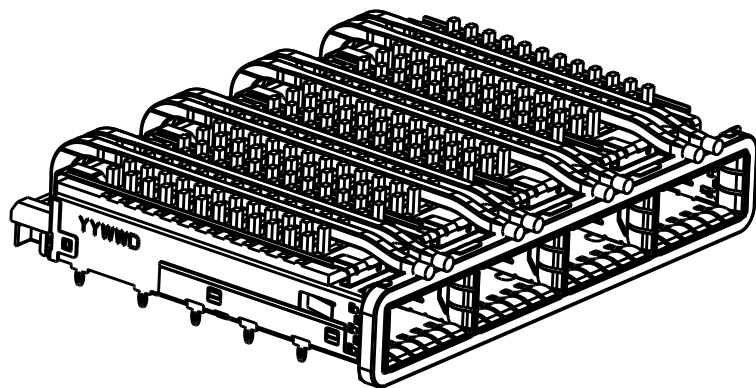


HETWORKING HEAT SINK  
SCALE 1:1

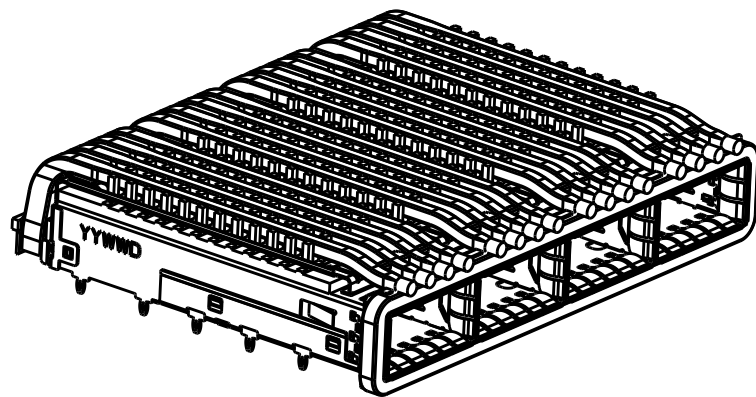
LIGHT PIPE OPTION



SINGLE LOGHT PIPE  
SCALE 1:1

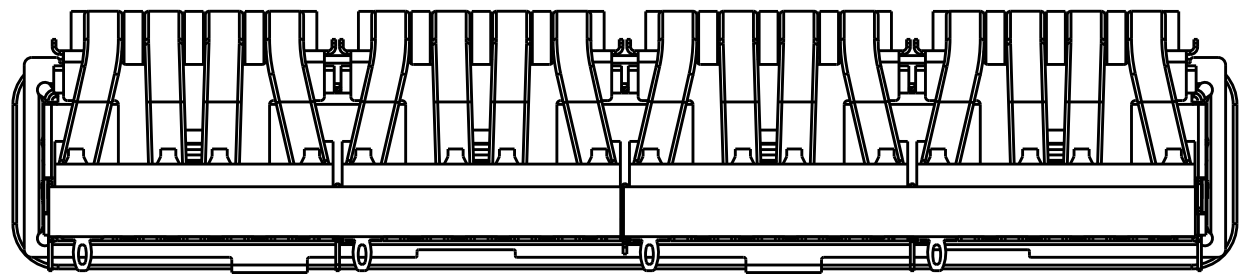


DUAL LIGHT PIPE  
SCALE 1:1

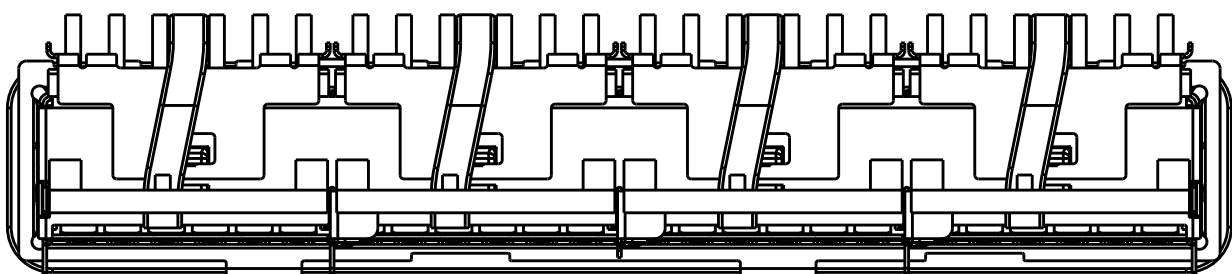


QUAD LIGHT PIPE  
SCALE 1:1

# OF REAR PIN OPTION



1 REAR PIN  
SCALE 2:1



0 REAR PIN  
SCALE 2:1

|                                        |           |                                                                                      |                  |                                                                                                 |               |
|----------------------------------------|-----------|--------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |           | DWN<br>JASON YANG<br>20JUN2014                                                       | TE Connectivity  |                                                                                                 |               |
|                                        |           | CHK<br>SEAN HAN<br>01NOV2016                                                         |                  |                                                                                                 |               |
| DIMENSIONS:<br>mm                      |           | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                               | PRODUCT SPEC     | NAME                                                                                            |               |
|                                        |           | 0 PLC ±-<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±-<br>4 PLC ±-<br>ANGLES ±-<br>FINISH | 108-19428        | RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |               |
|                                        |           |                                                                                      | APPLICATION SPEC | SIZE                                                                                            | CAGE CODE     |
|                                        |           |                                                                                      | 114-32023        | A200779                                                                                         | C-2170785     |
| MATERIAL<br>SEE NOTES                  | SEE NOTES |                                                                                      | WEIGHT           | DRAWING NO                                                                                      | RESTRICTED TO |
| -                                      | -         |                                                                                      | -                | CUSTOMER DRAWING                                                                                | -             |
|                                        |           |                                                                                      | SCALE 3:1        | SHEET 2 OF 9                                                                                    | REV A         |

4

3

2

1

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RELEASED FOR PUBLICATION

20

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REVISIONS

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

|               |       |             |                      |             |
|---------------|-------|-------------|----------------------|-------------|
| 0             | 23.0  | NETWORKING  | QUAD                 | 4-2170785-6 |
| 0             | 16.0  | SAN         | QUAD                 | 4-2170785-5 |
| 0             | 13.7  | PCI         | QUAD                 | 4-2170785-4 |
| 1             | 23.0  | NETWORKING  | QUAD                 | 4-2170785-3 |
| 1             | 16.0  | SAN         | QUAD                 | 4-2170785-2 |
| 1             | 13.7  | PCI         | QUAD                 | 4-2170785-1 |
| 0             | 23.0  | NETWORKING  | DUAL                 | 2-2170785-6 |
| 0             | 16.0  | SAN         | DUAL                 | 2-2170785-5 |
| 0             | 13.7  | PCI         | DUAL                 | 2-2170785-4 |
| 1             | 23.0  | NETWORKING  | DUAL                 | 2-2170785-3 |
| 1             | 16.0  | SAN         | DUAL                 | 2-2170785-2 |
| 1             | 13.7  | PCI         | DUAL                 | 2-2170785-1 |
| 0             | 23.0  | NETWORKING  | SINGLE               | 2170785-6   |
| 0             | 16.0  | SAN         | SINGLE               | 2170785-5   |
| 0             | 13.7  | PCI         | SINGLE               | 2170785-4   |
| 1             | 23.0  | NETWORKING  | SINGLE               | 2170785-3   |
| 1             | 16.0  | SAN         | SINGLE               | 2170785-2   |
| 1             | 13.7  | PCI         | SINGLE               | 2170785-1   |
| # OF REAR PIN | DIM A | APPLICATION | LIGHT PIPE<br>OPTION | 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 ±-

FINISH

MATERIAL

SEE NOTES

-

DWN 20JUN2014

CHK JASON YANG

APVD SEAN HAN

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, 1X4, QSFP28, GASKET

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

SCALE 3:1

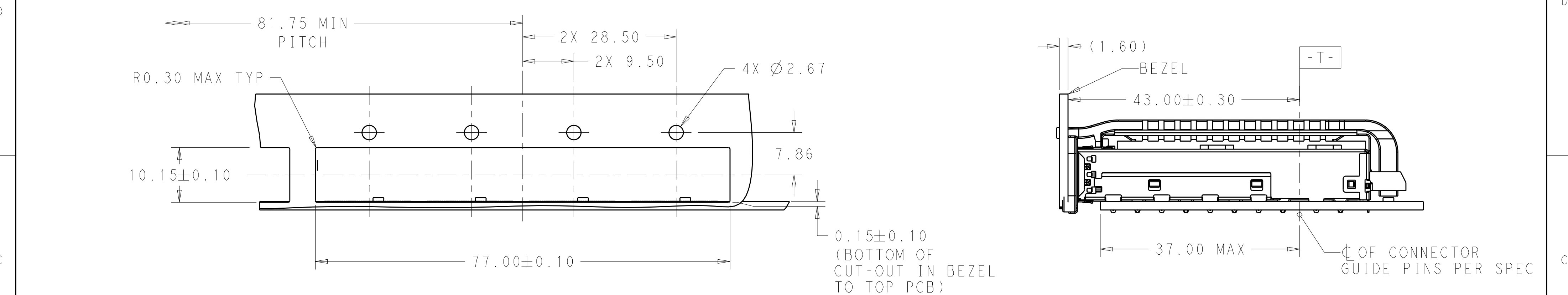
SHEET 3 OF 9

REV A

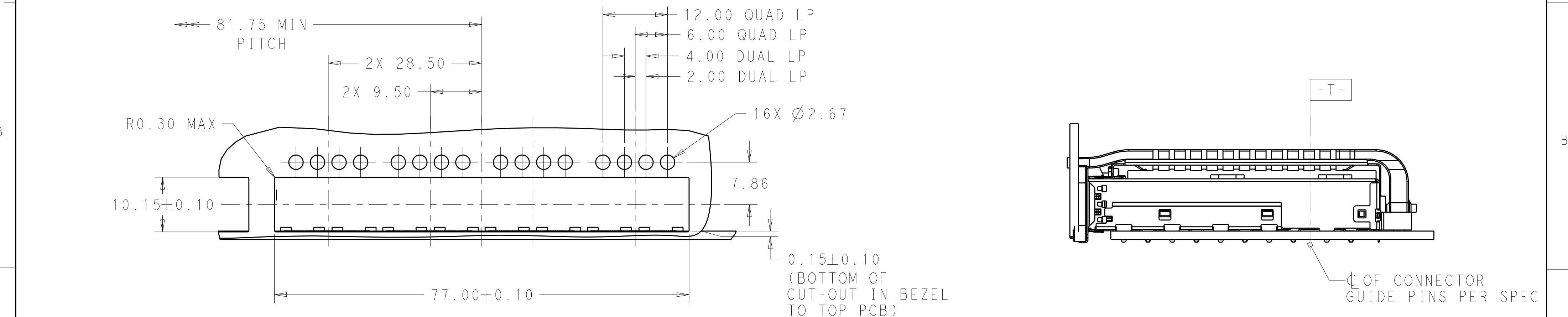
1471-9 (3/13)



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

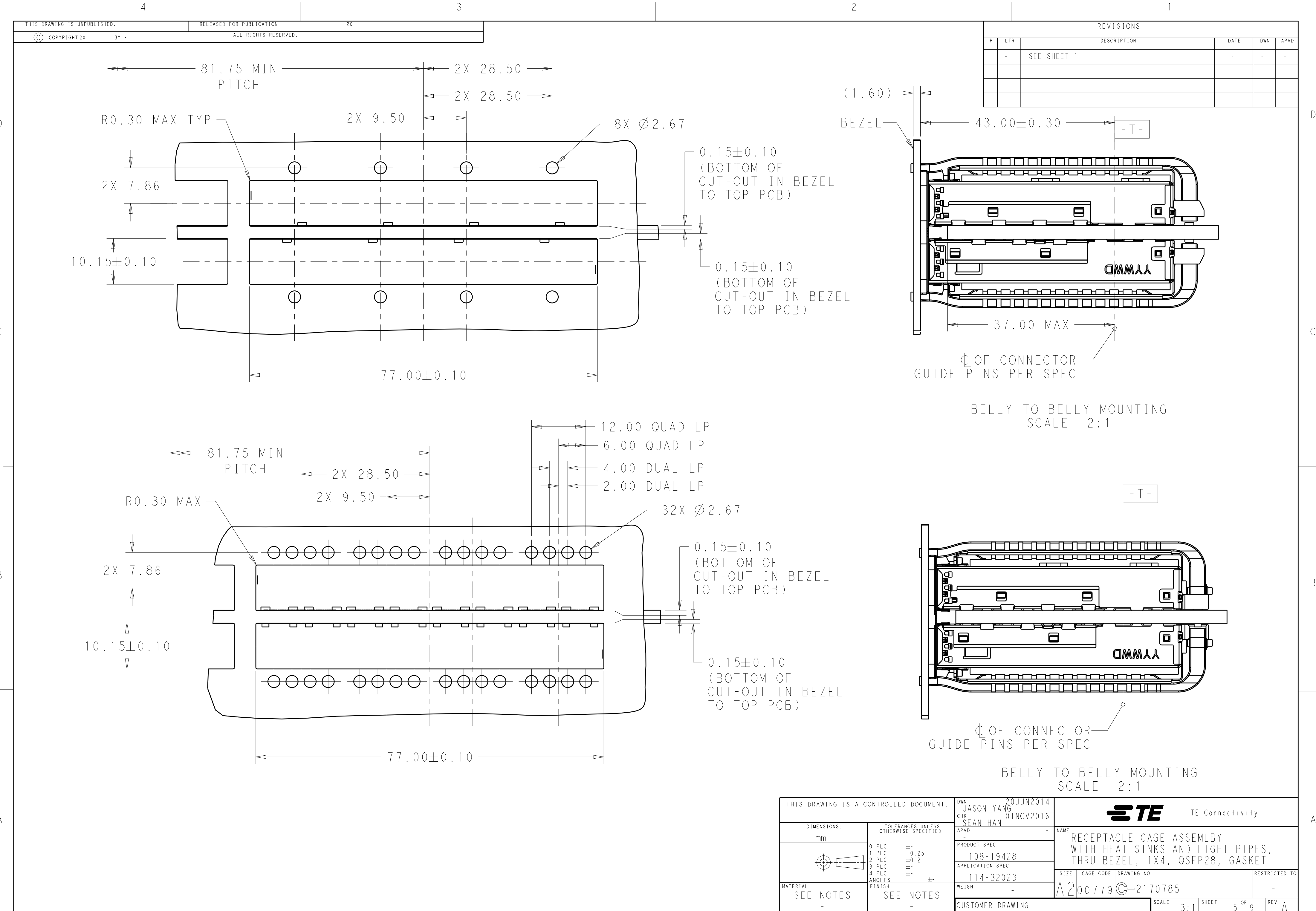


SINGLE SIDE MOUNTING  
SCALE 2:1



SINGLE SIDE MOUNTING  
SCALE 2:1

|                                        |                                        |                             |                 |                                                                                           |            |
|----------------------------------------|----------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------------------------|------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                        | DWN 20JUN2014<br>JASON YANG | TE Connectivity |                                                                                           |            |
| DIMENSIONS:                            |                                        | CHK 01NOV2016<br>SEAN HAN   |                 |                                                                                           |            |
| mm                                     | TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD -                      | PRODUCT SPEC    | NAME                                                                                      |            |
|                                        | 0 PLC ±-                               | APPLICATION SPEC            | 108-19428       | RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, GASKET |            |
|                                        | 1 PLC ±0.25                            | WEIGHT                      | 114-32023       | SIZE                                                                                      | CAGE CODE  |
|                                        | 2 PLC ±0.2                             | CUSTOMER DRAWING            | -               | A200779                                                                                   | DRAWING NO |
|                                        | 3 PLC ±-                               | SCALE                       | 3:1             | 4                                                                                         | OF         |
|                                        | 4 PLC ±-                               | SHEET                       | 9               | REV                                                                                       | A          |
| MATERIAL                               | FINISH                                 |                             |                 |                                                                                           |            |
| SEE NOTES                              | SEE NOTES                              |                             |                 |                                                                                           |            |



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

|                                        |  |                                  |                                                                                                         |  |  |
|----------------------------------------|--|----------------------------------|---------------------------------------------------------------------------------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>JASON YANG<br>20 JUN 2014 |  TE Connectivity   |  |  |
|                                        |  | CHK<br>SEAN HAN<br>01 NOV 2016   |                                                                                                         |  |  |
| DIMENSIONS:                            |  | APVD<br>-                        | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |  |  |
| mm                                     |  | PRODUCT SPEC<br>108-19428        | SIZE<br>A200779                                                                                         |  |  |
|                                        |  | APPLICATION SPEC<br>114-32023    | CAGE CODE<br>C-2170785                                                                                  |  |  |
| MATERIAL<br>SEE NOTES                  |  | WEIGHT<br>-                      | RESTRICTED TO<br>-                                                                                      |  |  |
|                                        |  | CUSTOMER DRAWING                 | SCALE 3:1 SHEET 5 OF 9 REV A                                                                            |  |  |



—THIS AREA DENOTES  
COMPONENTS KEEP-OUT  
(TRACES ALLOWED)

—SEE DETAIL A

12.49 MAX 13.49 MIN

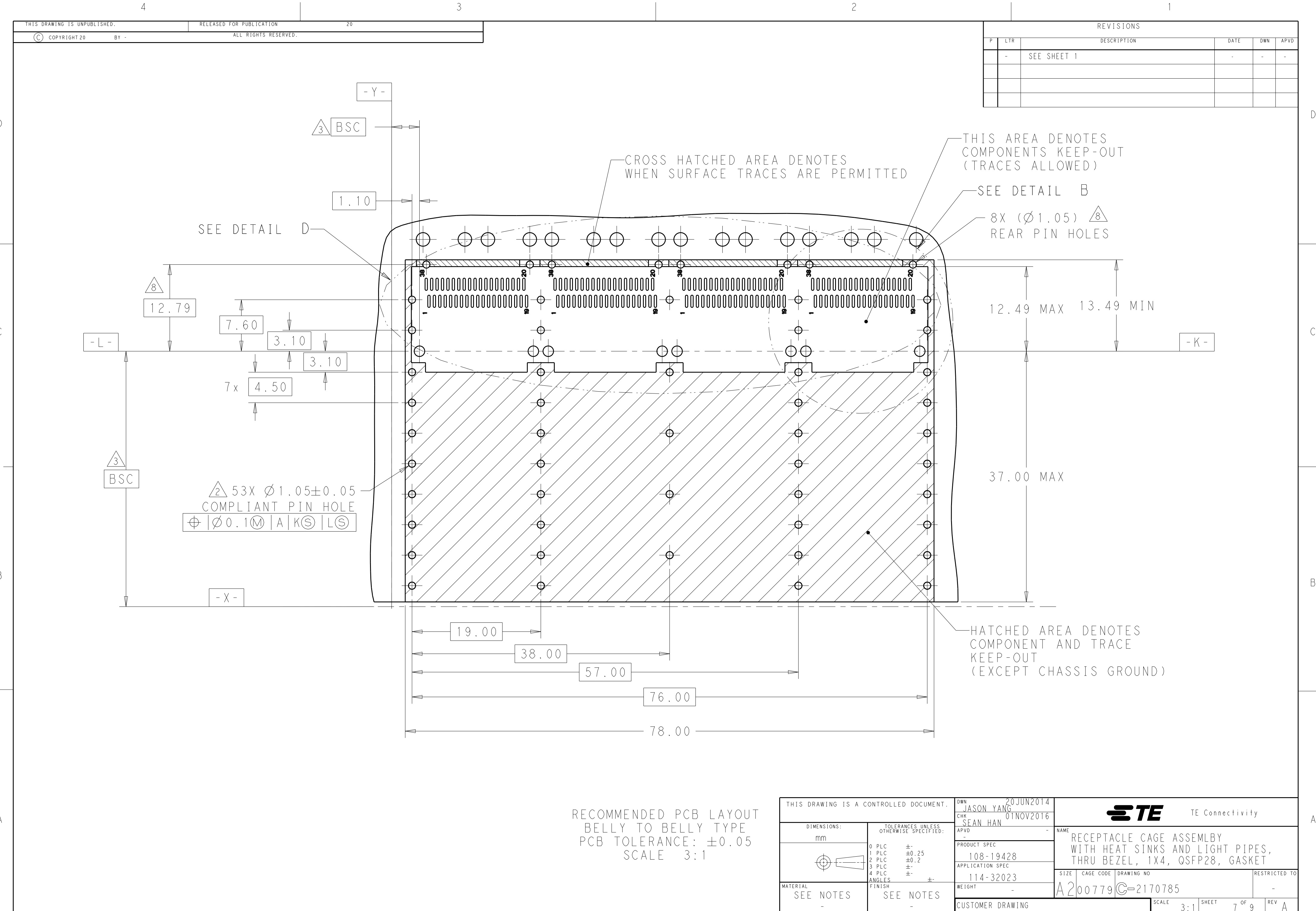
37.00 MAX

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

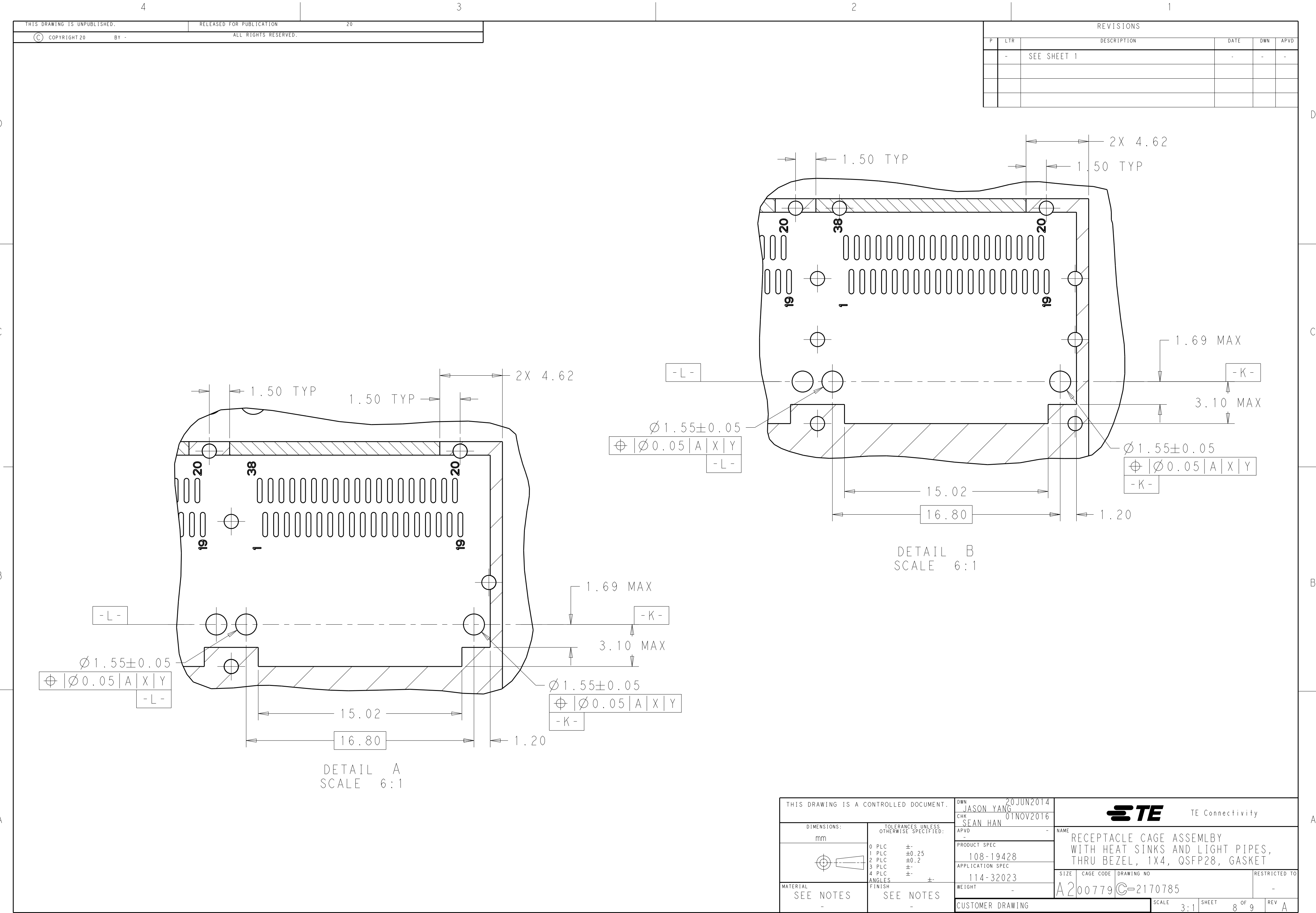
RECOMMENDED PCB LAYOUT  
SINGLE TYPE  
PCB TOLERANCE:  $\pm 0.05$   
SCALE 3:1

|                                                                                       |  |                                                                                                                            |  |                                                                                                         |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN 20JUN2014<br>JASON YANG<br>CHK 01NOV2016<br>SEAN HAN                                                                   |  |  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>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |  |
|  |  | PRODUCT SPEC<br>108-19428                                                                                                  |  | SIZE CAGE CODE DRAWING NO RESTRICTED                                                                    |  |
| MATERIAL<br>SEE NOTES<br>-                                                            |  | APPLICATION SPEC<br>114-32023                                                                                              |  | A2000779C-2170785                                                                                       |  |
| SEE NOTES<br>-                                                                        |  | WEIGHT<br>-                                                                                                                |  | -                                                                                                       |  |
|                                                                                       |  | CUSTOMER DRAWING                                                                                                           |  | SCALE 3:1 SHEET 6 of 9 REV A                                                                            |  |





|                                                                                                                                                      |  |                               |                                                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|---------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                                                               |  | DWN 20 JUN 2014<br>JASON YANG |  TE Connectivity   |  |
|                                                                                                                                                      |  | CHK 01 NOV 2016<br>SEAN HAN   |                                                                                                         |  |
| DIMENSIONS:<br>mm                                                                                                                                    |  | APVD -                        | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC $\pm$<br>1 PLC $\pm 0.25$<br>2 PLC $\pm 0.2$<br>3 PLC $\pm$<br>4 PLC $\pm$<br>ANGLES $\pm$<br>FINISH |  | PRODUCT SPEC<br>108-19428     | SIZE<br>A2                                                                                              |  |
| MATERIAL<br>SEE NOTES                                                                                                                                |  | APPLICATION SPEC<br>114-32023 | CAGE CODE<br>00779                                                                                      |  |
|                                                                                                                                                      |  | WEIGHT<br>-                   | DRAWING NO<br>C-2170785                                                                                 |  |
|                                                                                                                                                      |  | CUSTOMER DRAWING              | RESTRICTED TO<br>-                                                                                      |  |
|                                                                                                                                                      |  | SCALE 3:1                     | SHEET 7 OF 9                                                                                            |  |
|                                                                                                                                                      |  |                               | REV A                                                                                                   |  |



|                                                                                       |  |                                        |                                                                                                       |                                                                                                         |  |                         |  |                    |  |  |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--|-------------------------|--|--------------------|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>JASON YANG<br>20JUN2014         |  TE Connectivity |                                                                                                         |  |                         |  |                    |  |  |  |
|                                                                                       |  | CHK<br>SEAN HAN<br>01NOV2016           |                                                                                                       |                                                                                                         |  |                         |  |                    |  |  |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |                                                                                                       | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |  |                         |  |                    |  |  |  |
|  |  | APVD<br>-                              |                                                                                                       |                                                                                                         |  |                         |  | SIZE<br>A200779    |  |  |  |
|                                                                                       |  | PRODUCT SPEC<br>108-19428              |                                                                                                       |                                                                                                         |  |                         |  |                    |  |  |  |
|                                                                                       |  | APPLICATION SPEC<br>114-32023          |                                                                                                       |                                                                                                         |  |                         |  |                    |  |  |  |
| MATERIAL<br>SEE NOTES                                                                 |  | FINISH<br>SEE NOTES                    |                                                                                                       | CAGE CODE<br>C-2170785                                                                                  |  | DRAWING NO<br>114-32023 |  | RESTRICTED TO<br>- |  |  |  |
|                                                                                       |  |                                        |                                                                                                       | SCALE<br>3:1                                                                                            |  | SHEET<br>8 OF 9         |  | REV<br>A           |  |  |  |



D

D

C

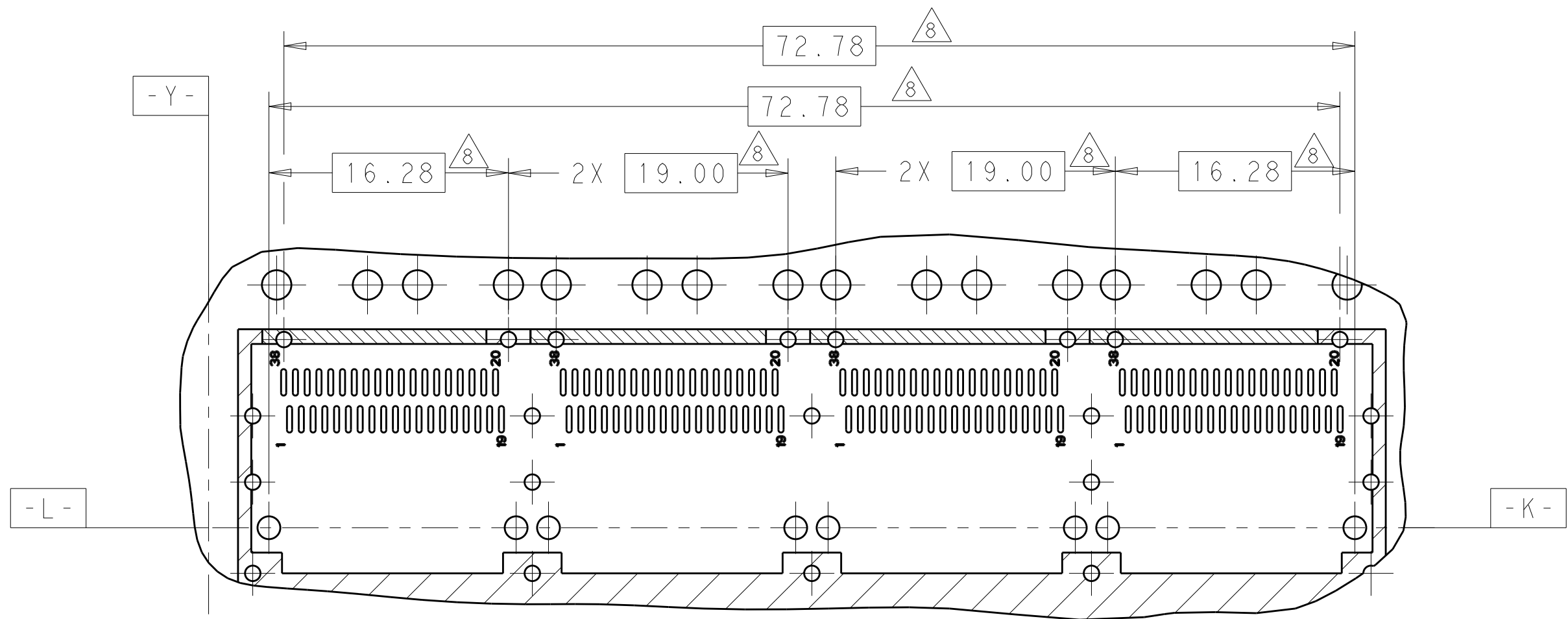
C

B

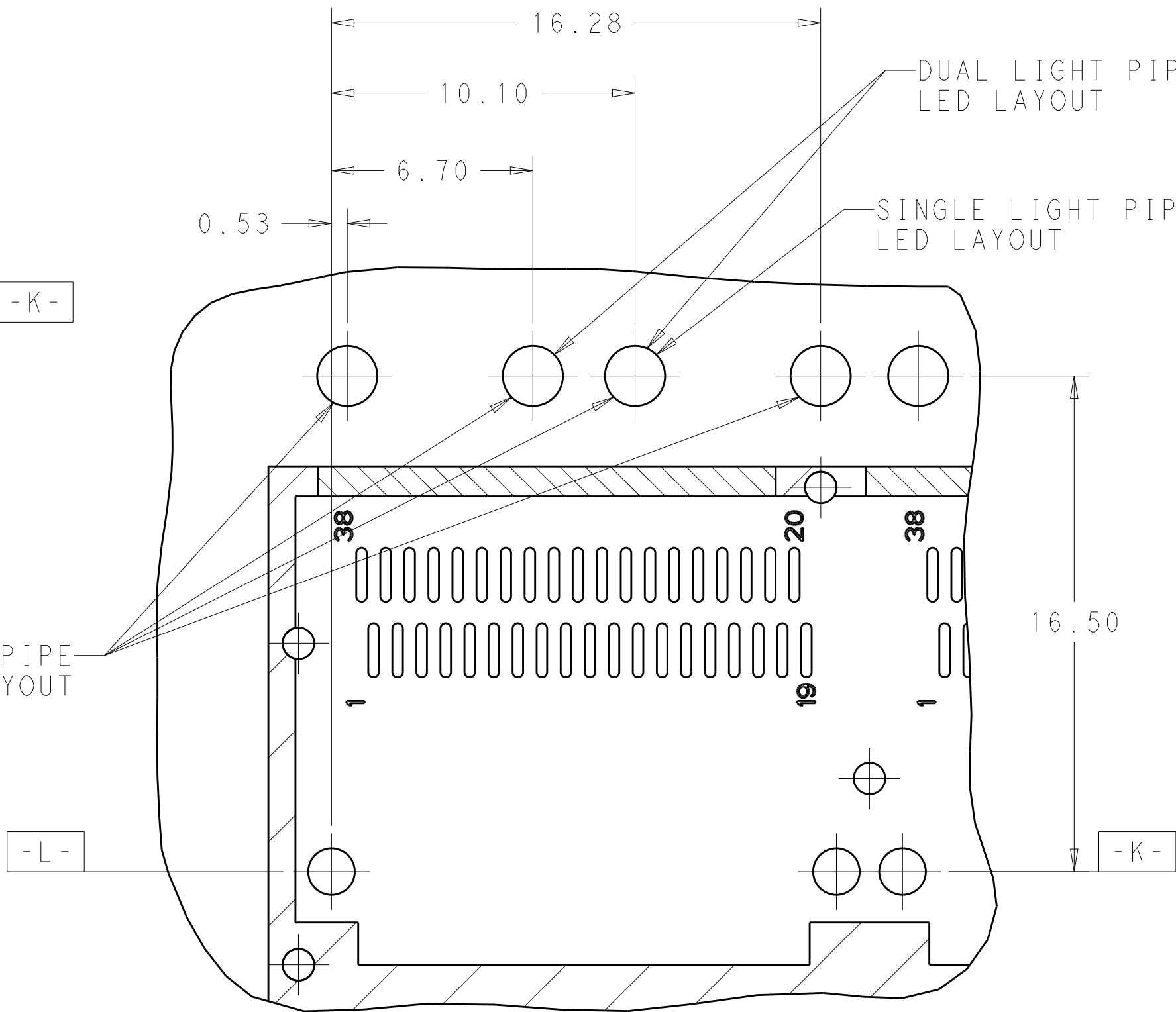
B

A

A



QUAD LIGHT PIPE  
LED LAYOUT



DETAIL E  
SCALE 6:1

|                                        |  |                                        |                                                                                                         |                    |                         |
|----------------------------------------|--|----------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------|-------------------------|
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|                                        |  | CHK<br>01 NOV 2016<br>SEAN HAN         |                                                                                                         |                    |                         |
| DIMENSIONS:                            |  | APVD<br>-                              | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS AND LIGHT PIPES,<br>THRU BEZEL, 1X4, QSFP28, GASKET |                    |                         |
| mm                                     |  | PRODUCT SPEC<br>108-19428              |                                                                                                         |                    |                         |
|                                        |  | APPLICATION SPEC<br>114-32023          | SIZE<br>A2                                                                                              | CAGE CODE<br>00779 | DRAWING NO<br>C-2170785 |
|                                        |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: | RESTRICTED TO<br>-                                                                                      |                    |                         |
| MATERIAL<br>SEE NOTES                  |  | FINISH<br>SEE NOTES                    | SCALE 3:1 SHEET 9 OF 9 REV A                                                                            |                    |                         |
|                                        |  |                                        | CUSTOMER DRAWING                                                                                        |                    |                         |

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