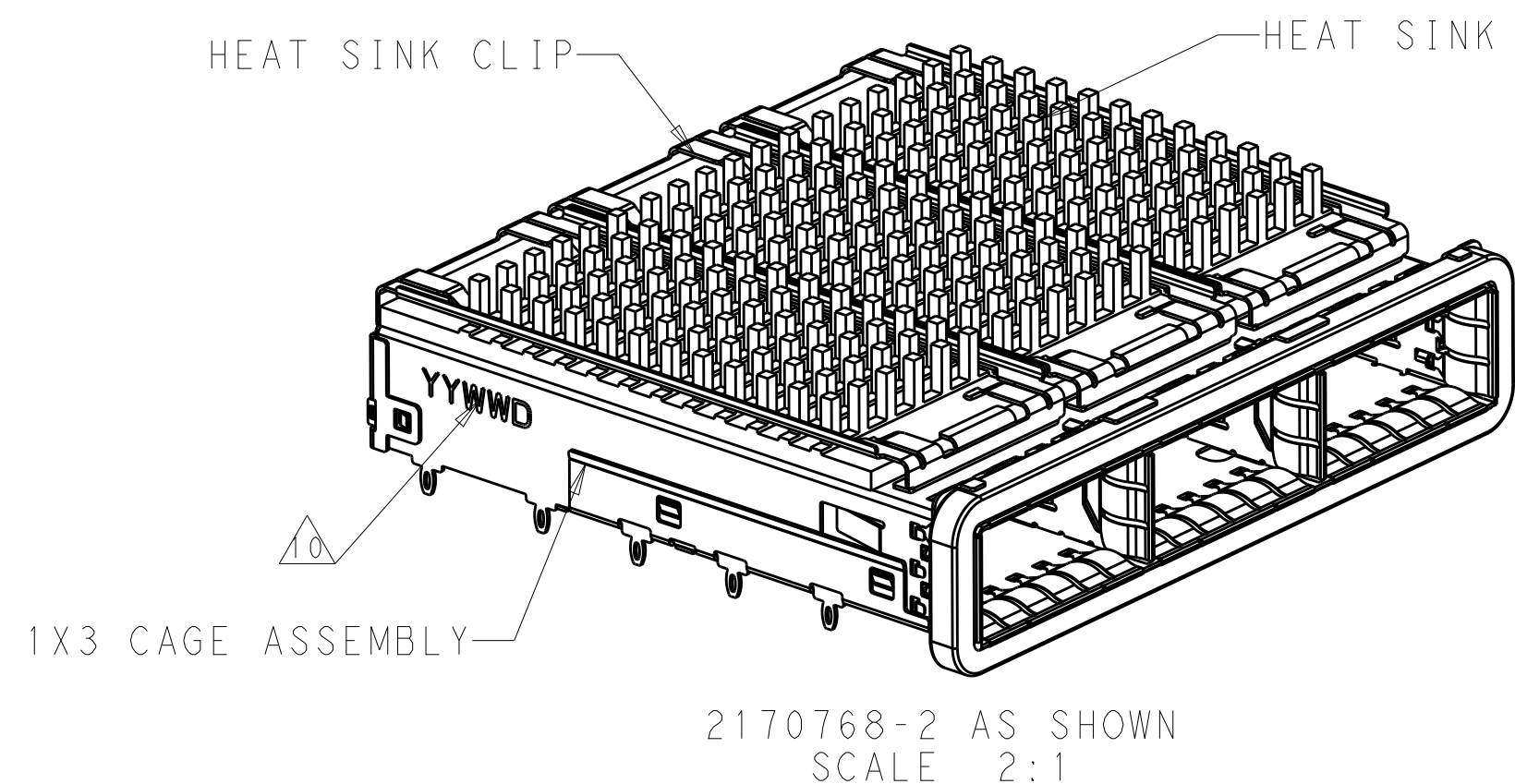
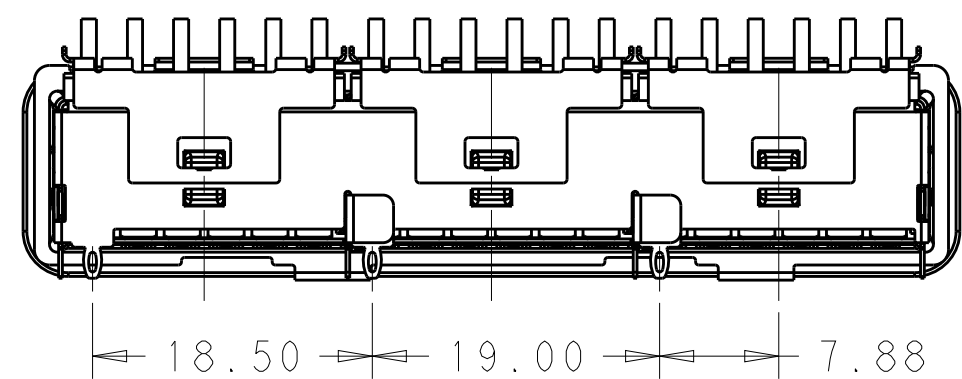
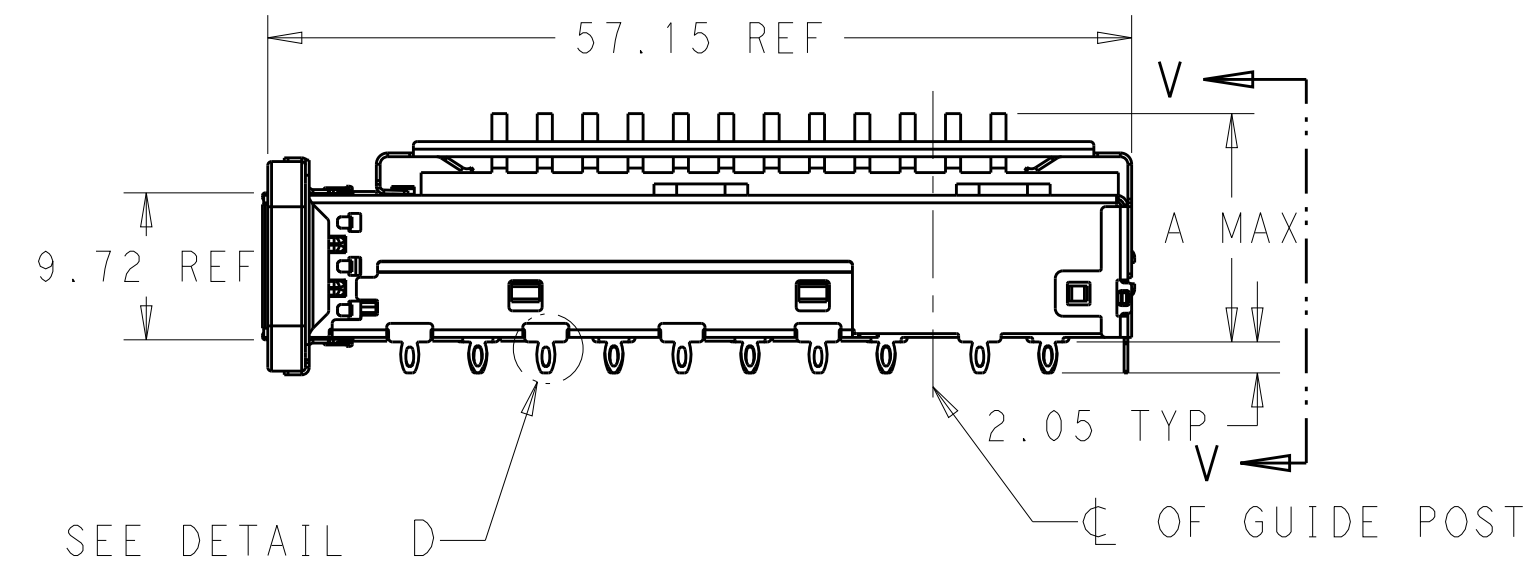
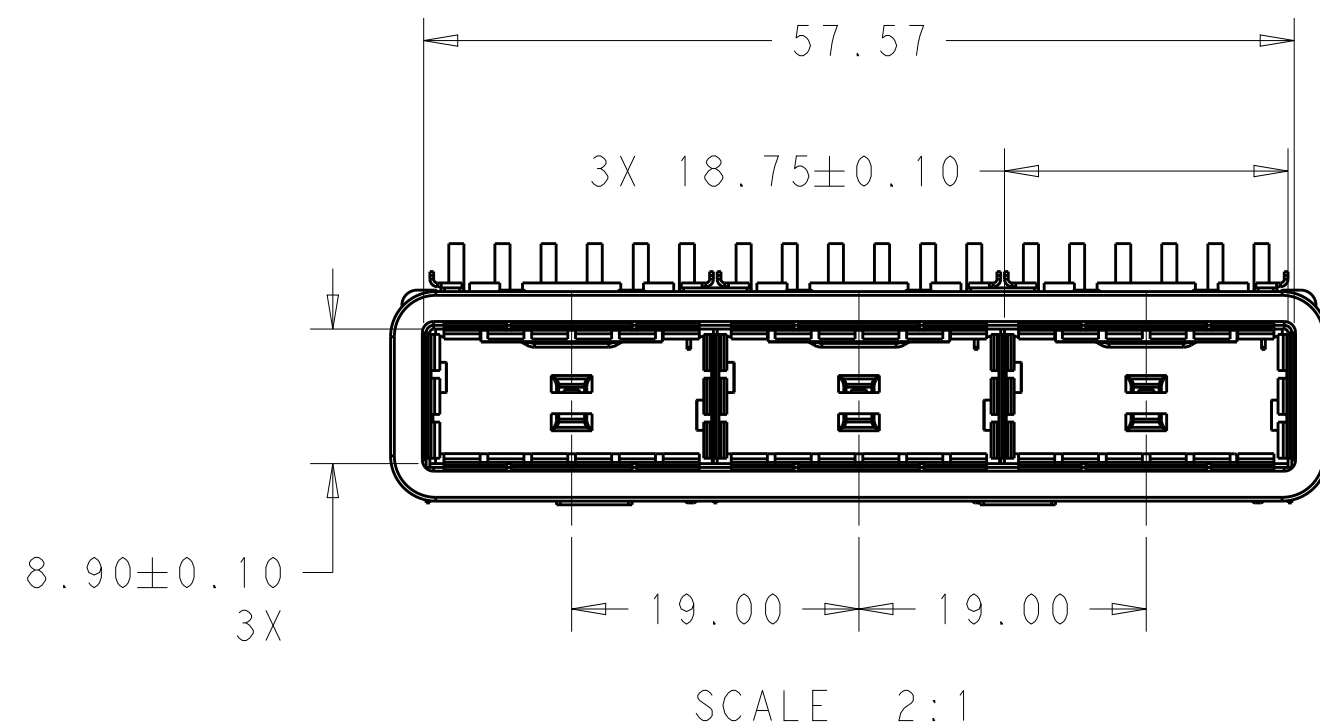


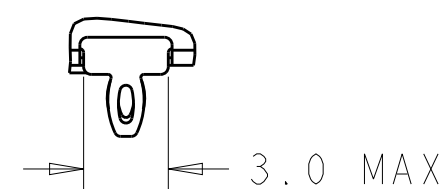
| LOC | DIST | REVISIONS |     |             |           |     |      |
|-----|------|-----------|-----|-------------|-----------|-----|------|
| GP  | 00   | P         | LTR | DESCRIPTION | DATE      | DWN | APVD |
|     |      |           | A   | RELEASE     | 31DEC2015 | JY  | SH   |
|     |      |           |     |             |           |     |      |
|     |      |           |     |             |           |     |      |
|     |      |           |     |             |           |     |      |



- COMPONENTS  
CAGE ASSEMBLY: NICKEL-SILVER ALLOY  
HEAT SINK: ALUMINUM/BLACK ANODIZE  
HEAT SINK CLIP: STAINLESS STEEL  
EMI GASKET: CONDUCTIVE RUBBER
- 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.



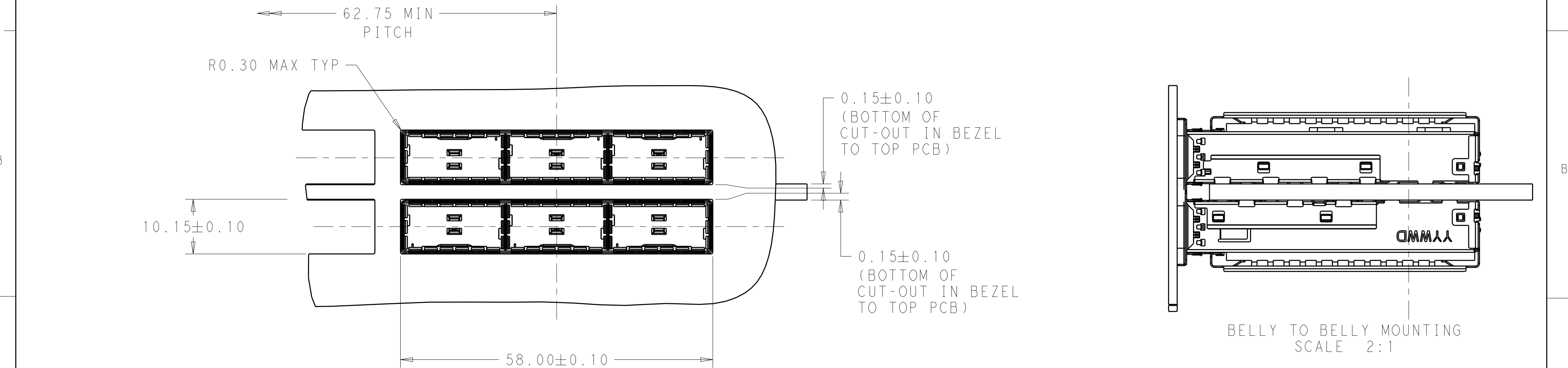
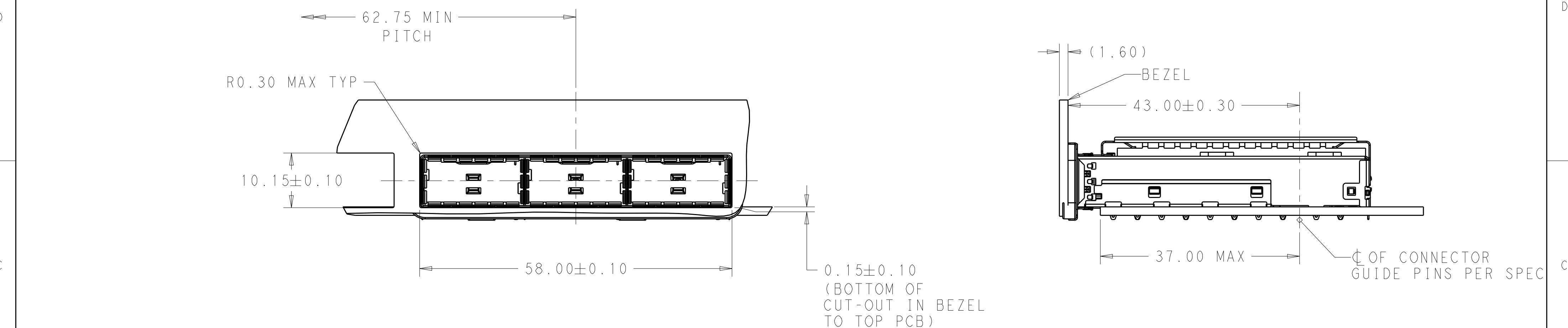
VIEW V-V  
SCALE 2:1



DETAIL D  
SCALE 4:1

|       |                       |             |             |
|-------|-----------------------|-------------|-------------|
| 23.0  | WITHOUT               | NETWORKING  | 2170768-6   |
| 16.0  | WITHOUT               | SAN         | 2170768-5   |
| 13.7  | WITHOUT               | PCI         | 2170768-4   |
| 23.0  | WITH                  | NETWORKING  | 2170768-3   |
| 16.0  | WITH                  | SAN         | 2170768-2   |
| 13.7  | WITH                  | PCI         | 2170768-1   |
| DIM A | REAR PINS<br>OPTIONAL | APPLICATION | PART NUMBER |

|                                                                                       |  |                                                                                  |  |                                                            |  |                                                                                                       |  |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|--|------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>BING LIU<br>CHK<br>JASON YANG<br>APVD<br>SEAN HAN                         |  | 22APR2014<br>22APR2014<br>31DEC2015                        |  |  TE Connectivity |  |
| DIMENSIONS:<br><br>mm                                                                 |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                        |  | NAME                                                       |  | RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS,<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 ±<br>FINISH |  | PRODUCT SPEC<br>108-19428<br>APPLICATION SPEC<br>114-32023 |  | SIZE<br>A200779                                                                                       |  |
| MATERIAL<br><br>SEE NOTES                                                             |  | SEE NOTES                                                                        |  | WEIGHT<br>-                                                |  | DRAWING NO<br>C-2170768                                                                               |  |
| Customer Drawing                                                                      |  |                                                                                  |  | SCALE 1:1                                                  |  | SHEET 1 OF 5                                                                                          |  |
|                                                                                       |  |                                                                                  |  |                                                            |  | REV A                                                                                                 |  |



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  
material\_2

SEE NOTES  
finish\_spec\_2

DWN  
BING LIU  
22APR2014

CHK  
JASON YANG  
22APR2014

APVD  
SEAN HAN  
31DEC2015

PRODUCT SPEC  
108-19428

APPLICATION SPEC  
114-32023

WEIGHT  
-

Customer Drawing

TE Connectivity

NAME  
RECEPTACLE CAGE ASSEMBLY  
WITH HEAT SINKS,  
THRU BEZEL, 1X3, QSFP28

SIZE  
A200779

CAGE CODE  
C-2170768

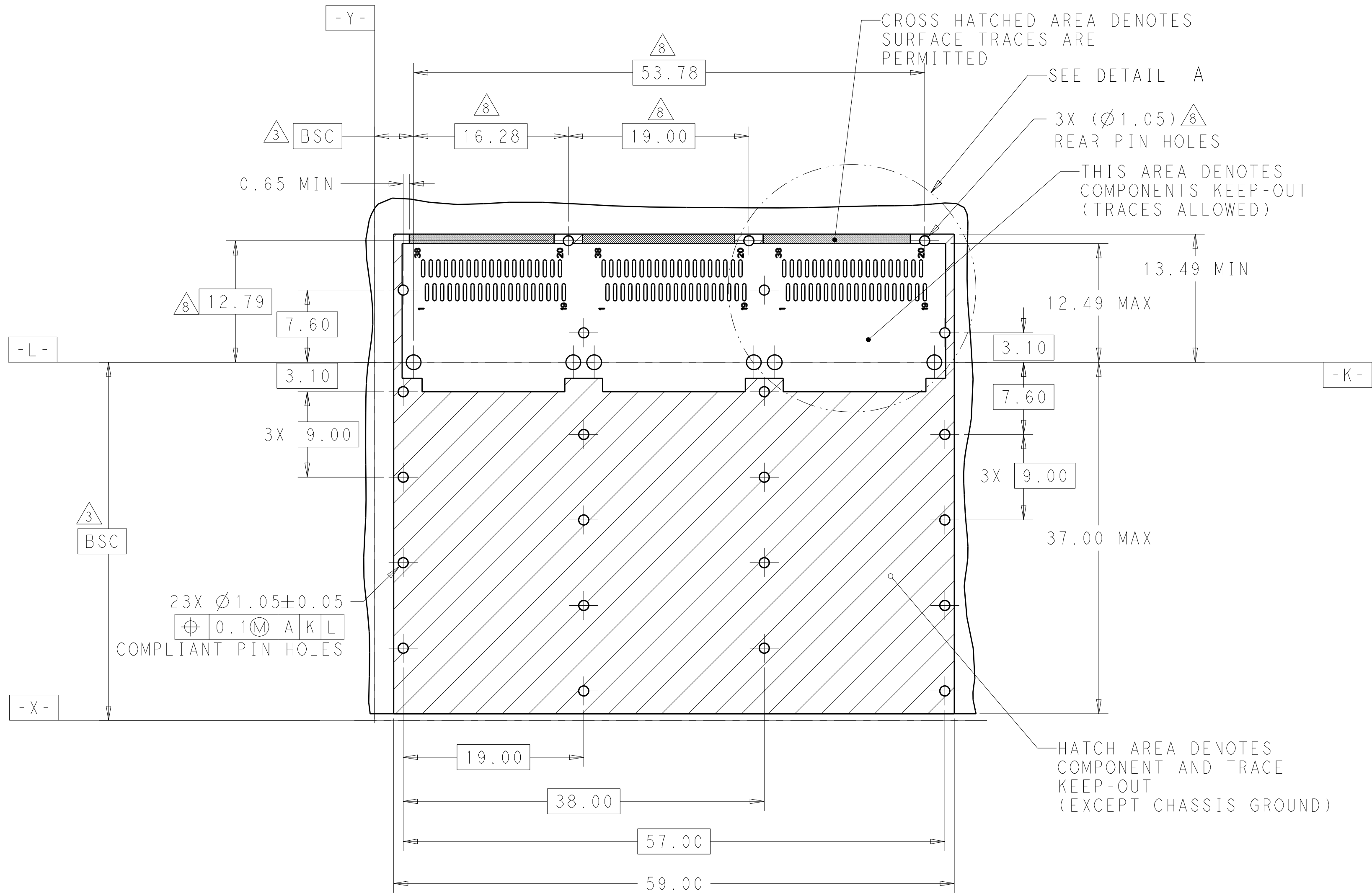
DRAWING NO

RESTRICTED TO  
-

SCALE  
1:1

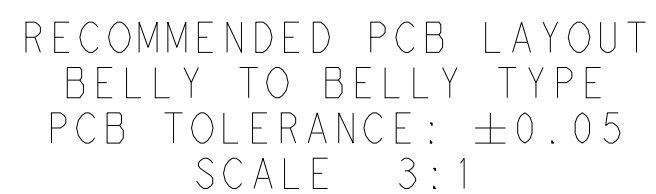
SHEET  
2 OF 5

REV  
A



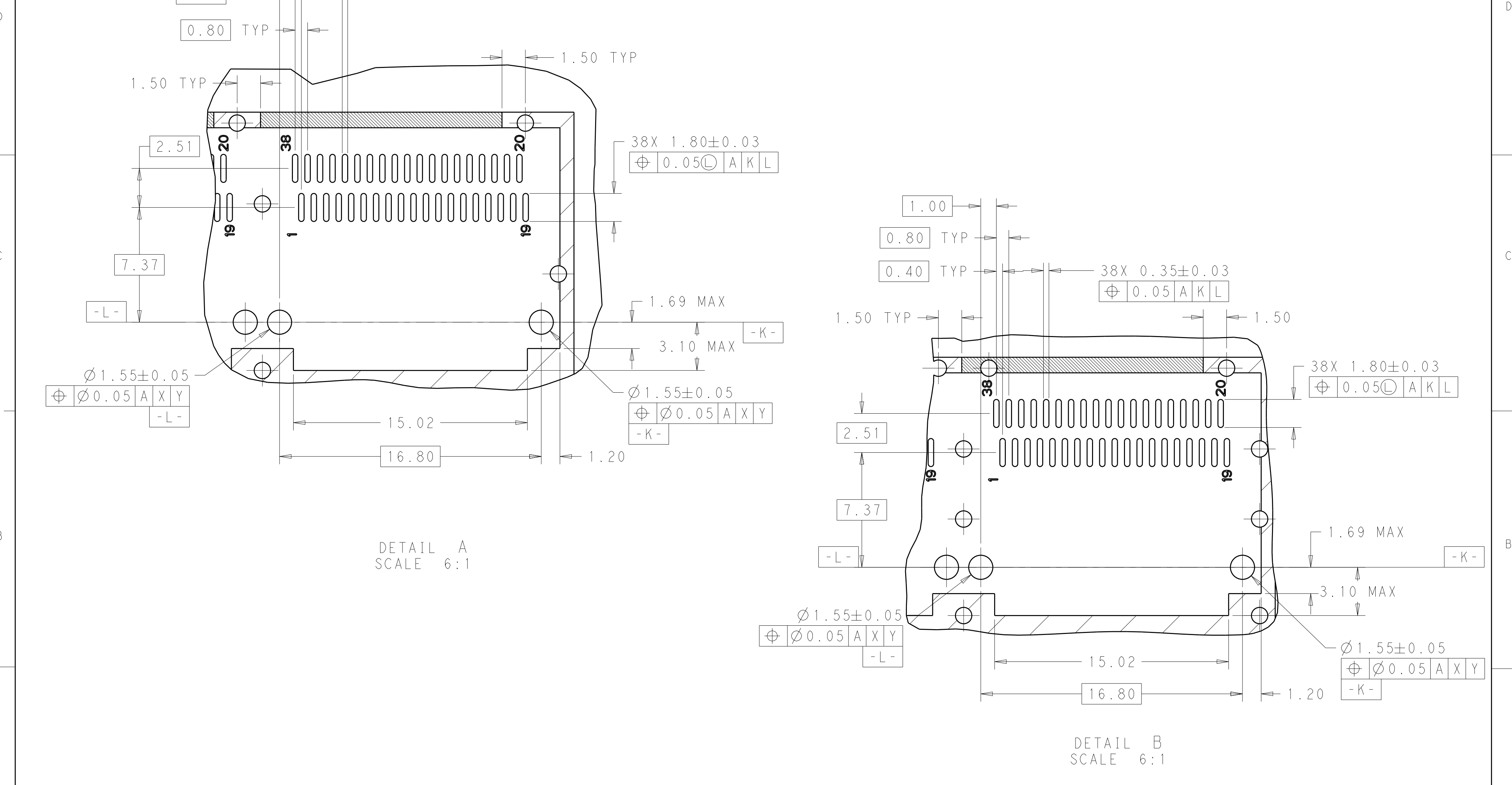
RECOMMENDED PCB LAYOUT  
SINGLE TYPE  
PCB TOLERANCE:  $\pm 0.05$   
SCALE 3:1

|                                        |  |                                |                                                                                 |                 |          |
|----------------------------------------|--|--------------------------------|---------------------------------------------------------------------------------|-----------------|----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>22APR2014   | TE Connectivity                                                                 |                 |          |
| DIMENSIONS:<br>mm                      |  | CHK<br>JASON YANG<br>22APR2014 |                                                                                 |                 |          |
|                                        |  | APVD<br>SEAN HAN<br>31DEC2015  | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS,<br>THRU BEZEL, 1X3, QSFP28 |                 |          |
|                                        |  | PRODUCT SPEC<br>108-19428      | SIZE<br>A200779                                                                 |                 |          |
| MATERIAL<br>SEE NOTES<br>material_2    |  | APPLICATION SPEC<br>114-32023  | DRAWING NO<br>C-2170768                                                         |                 |          |
| FINISH<br>SEE NOTES<br>finish_spec_2   |  | WEIGHT<br>-                    | RESTRICTED TO<br>-                                                              |                 |          |
|                                        |  | Customer Drawing               | SCALE<br>1:1                                                                    | SHEET<br>3 OF 5 | REV<br>A |



|                                                                                       |  |                                                                                                                      |                                                                                                 |                                                                             |                                                                                                       |            |                    |                         |                    |              |       |
|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------|--------------------|-------------------------|--------------------|--------------|-------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  |                                                                                                                      | DWN 22APR2014<br>BY HING LIU<br>CHK 22APR2014<br>BY JASON YANG<br>APVD 31DEC2015<br>BY SEAN HAN |                                                                             |  TE Connectivity |            |                    |                         |                    |              |       |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br><br>0 PLC ±<br>1 PLC ±0.25<br>2 PLC ±0.2<br>3 PLC ±<br>4 PLC ±<br>ANGLES ± |                                                                                                 | NAME RECEPTACLE CAGE ASSEMBLY<br>WITH HEAT SINKS,<br>THRU BEZEL, 1X3, QSP28 |                                                                                                       |            |                    |                         |                    |              |       |
|  |  |                                                                                                                      |                                                                                                 | PRODUCT SPEC<br>108-19428<br>APPLICATION SPEC<br>114-32023<br>WEIGHT -      |                                                                                                       | SIZE<br>A2 | CAGE CODE<br>00779 | DRAWING NO<br>C-2170768 | RESTRICTED TO<br>- |              |       |
| MATERIAL<br>SEE NOTES<br>material_2                                                   |  | FINISH<br>SEE NOTES<br>finish_spec_2                                                                                 |                                                                                                 | Customer Drawing                                                            |                                                                                                       |            |                    |                         | SCALE 1:1          | SHEET 4 OF 5 | REV A |

|  |   |             |   |   |   |
|--|---|-------------|---|---|---|
|  | - | SEE SHEET 1 | - | - | - |
|  |   |             |   |   |   |
|  |   |             |   |   |   |
|  |   |             |   |   |   |



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

BING LIU

22APR2014

CHK

JASON YANG

22APR2014

APVD

SEAN HAN

31DEC2015

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC

±

1 PLC

±0.25

2 PLC

±0.2

3 PLC

±

4 PLC

±

ANGLES

±

FINISH

SEE NOTES

material\_2

finish\_spec\_2

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

Customer Drawing

NAME

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

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170768

RESTRICTED TO

-

SCALE

1:1

SHEET

5

OF

5

REV

A

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