

HEAT SINK CLIP

HEAT SINK

LIGHT PIPE

1x2 CAGE ASSEMBLY

2-2170808-1 AS SHOWN

SCALE 2:1

10

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

| P | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|---|-----|---------------------------|-----------|-----|------|
|   | A   | RELEASE                   | 31OCT2016 | JY  | SH   |
|   | B   | ADD NEW PN 4-2170808-7    | 21MAY2019 | JY  | SH   |
|   | B1  | REVISED PER ECN-22-135969 | 08JAN2022 | TP  | SZ   |

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.

38.50 REF

2X 18.75±0.10

2X 8.90±0.10

7.88

18.50

REAR PIN  
OPTIONAL

SCALE 2:1

67.75 REF

B REF

12.79 REF

11.60 REF

9.65 REF

13.40

4.50

1.01

15.11 REF

2.05 TYP

CL OF GUIDE POST

SECTION A-A  
D-D

3.0 MAX

DETAIL E  
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm

MATERIAL  
SEE NOTES

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

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

SEE NOTES

DWN  
BING LIU  
CHK  
JASON YANG

16SEP2014  
16SEP2014

APVD  
-

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  
1

OF  
9

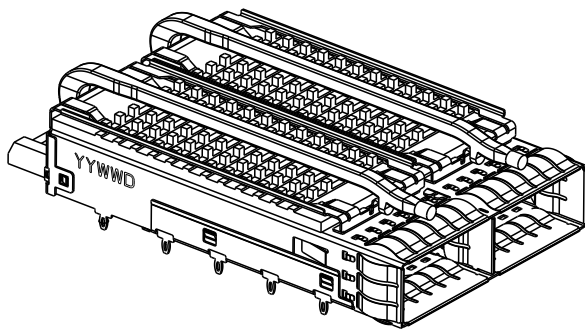
REV  
B1

TE Connectivity

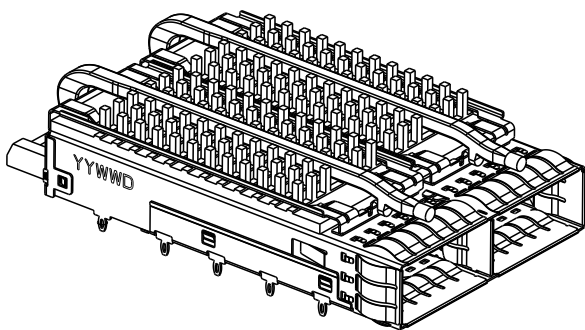
1471-9 (3/13)

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

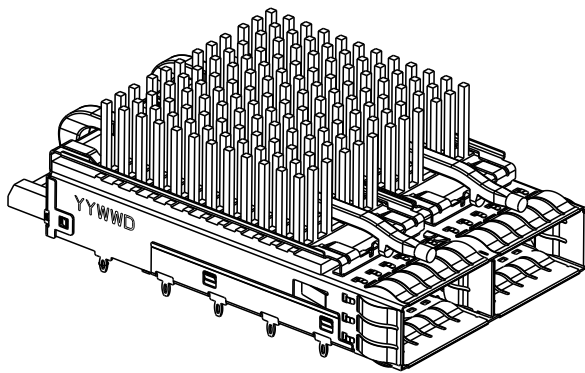
# HEAT SINK OPTION



PCI HEAT SINK HEIGHT  
SCALE 1:1

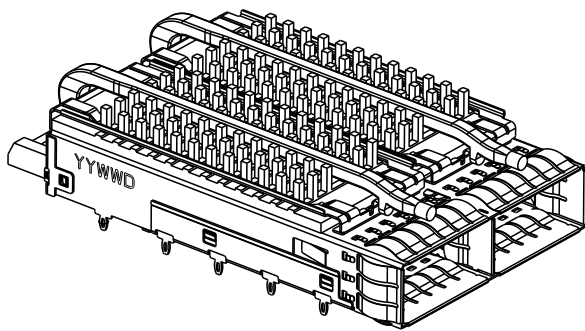


SAN HEAT SINK HEIGHT  
SCALE 1:1

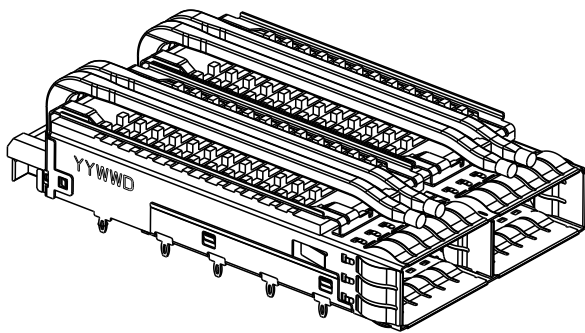


NETWORKING HEAT SINK HEIGHT  
SCALE 1:1

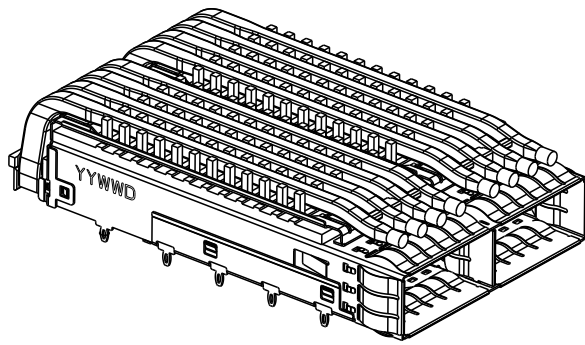
# LIGHT PIPE OPTION



SINGLE LIGHT PIPE  
SCALE 1:1

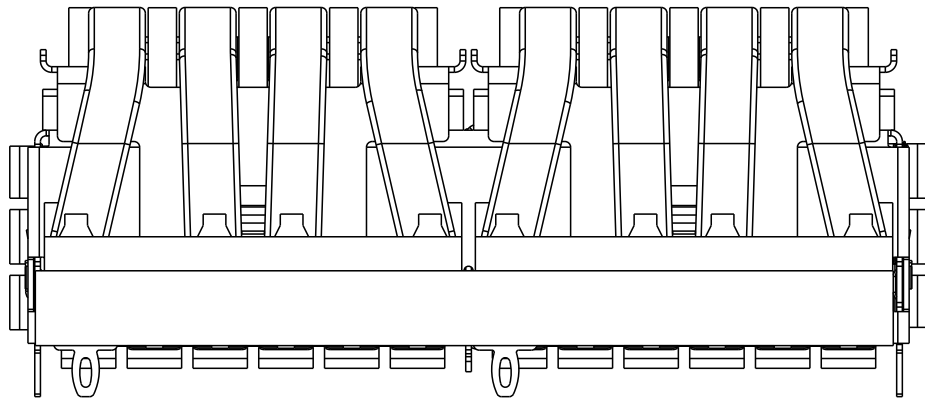


DUAL LIGHT PIPE  
SCALE 1:1

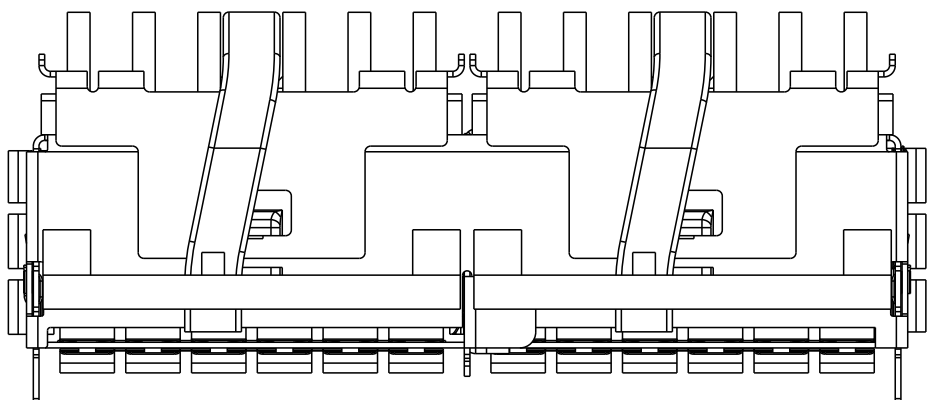


QUAD LIGHT PIPE  
SCALE 1:1

# # 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>16SEP2014                                                                                                                   |  |  TE Connectivity |  |                                                                                                        |  |                 |            |               |
|                                        |  | CHK<br>JASON YANG<br>16SEP2014                                                                                                                 |  |                                                                                                       |  |                                                                                                        |  |                 |            |               |
| DIMENSIONS:<br><br>mm                  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br><br><div></div> |  | 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                                                                             |  |                                                                                                        |  |                 |            |               |
|                                        |  |                                                                                                                                                |  | APPLICATION SPEC<br>114-32023                                                                         |  |                                                                                                        |  |                 |            |               |
|                                        |  |                                                                                                                                                |  | SIZE                                                                                                  |  |                                                                                                        |  | CAGE CODE       | DRAWING NO | RESTRICTED TO |
|                                        |  |                                                                                                                                                |  | A200779                                                                                               |  |                                                                                                        |  | C-2170808       |            | -             |
| MATERIAL<br>SEE NOTES<br>-             |  | FINISH<br>SEE NOTES<br>-                                                                                                                       |  | WEIGHT<br>-                                                                                           |  | CUSTOMER DRAWING                                                                                       |  |                 |            |               |
|                                        |  |                                                                                                                                                |  |                                                                                                       |  | SCALE<br>1:1                                                                                           |  | SHEET<br>2 OF 9 | REV<br>B1  |               |

4

3

2

1

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REVISIONS

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

|               |                       |                           |             |                      |             |
|---------------|-----------------------|---------------------------|-------------|----------------------|-------------|
| 0             | 3.4                   | 16.0                      | SAN         | COATED QUAD LP       | 5-2170808-5 |
| 0             | 2.9                   | 30.0                      | CUSTOMIZED  | QUAD LP              | 2170808-8   |
| 1             | 2.9                   | 18.4                      | CUSTOMIZED  | QUAD LP              | 4-2170808-7 |
| 0             | 2.9                   | 23.0                      | NETWORKING  | QUAD LP              | 4-2170808-6 |
| 0             | 2.9                   | 16.0                      | SAN         | QUAD LP              | 4-2170808-5 |
| 0             | 2.9                   | 13.7                      | PCI         | QUAD LP              | 4-2170808-4 |
| 1             | 2.9                   | 23.0                      | NETWORKING  | QUAD LP              | 4-2170808-3 |
| 1             | 2.9                   | 16.0                      | SAN         | QUAD LP              | 4-2170808-2 |
| 1             | 2.9                   | 13.7                      | PCI         | QUAD LP              | 4-2170808-1 |
| 1             | 4.5                   | 13.7                      | PCI         | SHORTER, QUAD LP     | 4-2170808-0 |
| 0             | 2.9                   | 23.0                      | NETWORKING  | DUAL LP              | 2-2170808-6 |
| 0             | 2.9                   | 16.0                      | SAN         | DUAL LP              | 2-2170808-5 |
| 0             | 2.9                   | 13.7                      | PCI         | DUAL LP              | 2-2170808-4 |
| 1             | 2.9                   | 23.0                      | NETWORKING  | DUAL LP              | 2-2170808-3 |
| 1             | 2.9                   | 16.0                      | SAN         | DUAL LP              | 2-2170808-2 |
| 1             | 2.9                   | 13.7                      | PCI         | DUAL LP              | 2-2170808-1 |
| 0             | 2.9                   | 23.0                      | NETWORKING  | SINGLE LP            | 2170808-6   |
| 0             | 2.9                   | 16.0                      | SAN         | SINGLE LP            | 2170808-5   |
| 0             | 2.9                   | 13.7                      | PCI         | SINGLE LP            | 2170808-4   |
| 1             | 2.9                   | 23.0                      | NETWORKING  | SINGLE LP            | 2170808-3   |
| 1             | 2.9                   | 16.0                      | SAN         | SINGLE LP            | 2170808-2   |
| 1             | 2.9                   | 13.7                      | PCI         | SINGLE LP            | 2170808-1   |
| # OF REAR PIN | DIM B<br>(LP EXTRUDE) | DIM A<br>(PRODUCT HEIGHT) | 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  
BING LIU  
CHK  
JASON YANG  
APVD  
-  
PRODUCT SPEC  
108-19428  
APPLICATION SPEC  
114-32023  
WEIGHT  
-

16SEP2014

16SEP2014

-

108-19428

114-32023

-

CUSTOMER DRAWING

SCALE 1:1

SHEET 3 OF 9

REV B1

TE Connectivity

NAME

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

SIZE  
A2

CAGE CODE  
00779

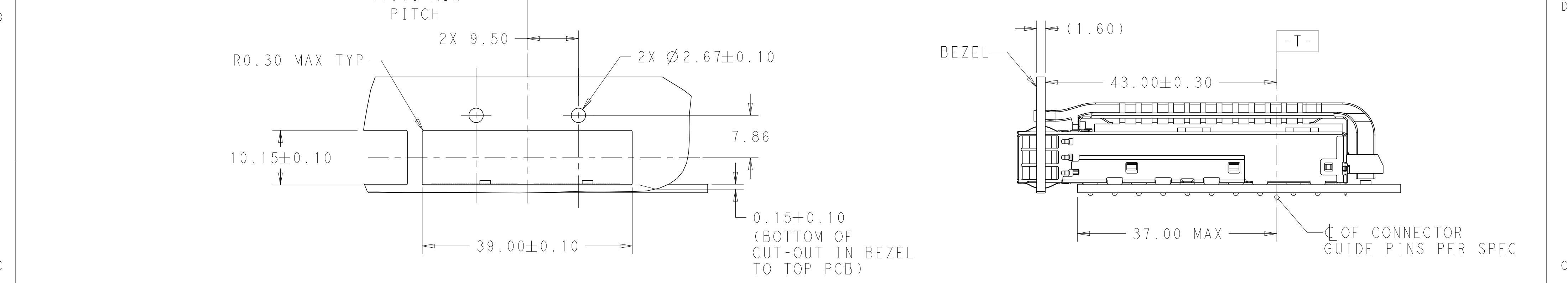
DRAWING NO  
C-2170808

RESTRICTED TO  
-

1471-9 (3/13)

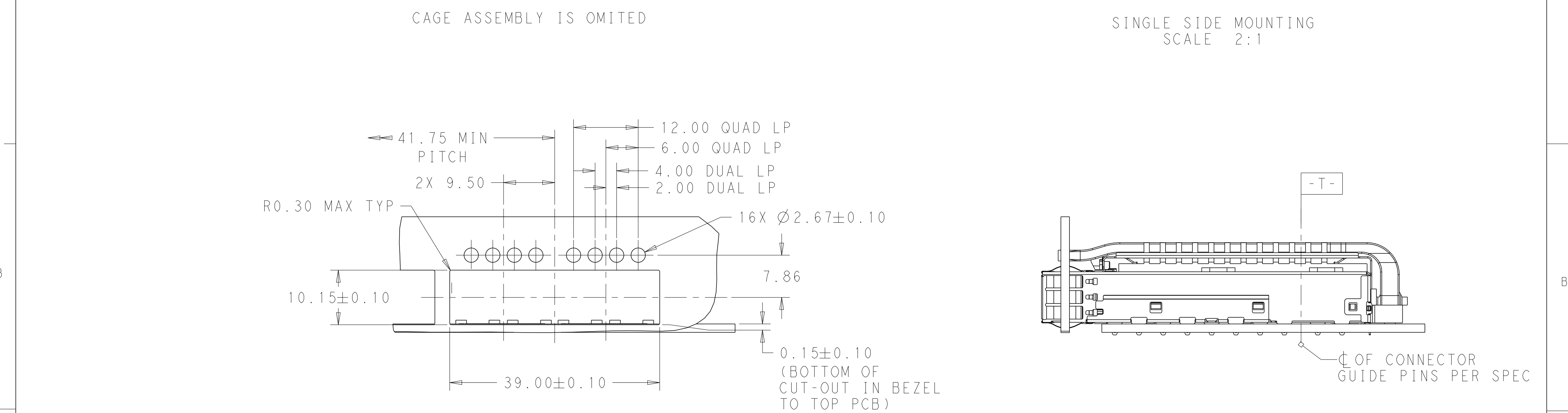


| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
|   |     |             |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING  
SCALE 2:1



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING  
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

MATERIAL

SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±-

1 PLC ±0.25

2 PLC ±0.2

3 PLC ±-

4 PLC ±-

ANGLES ±-

FINISH

SEE NOTES

-

DWN BING LIU 16SEP2014

CHK JASON YANG 16SEP2014

APVD -

PRODUCT SPEC 108-19428

APPLICATION SPEC 114-32023

WEIGHT -

CUSTOMER DRAWING

TE Connectivity

NAME

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

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A200779

C-2170808

-

-

SCALE 1:1

SHEET 4 OF 9

REV B1

D

C

B

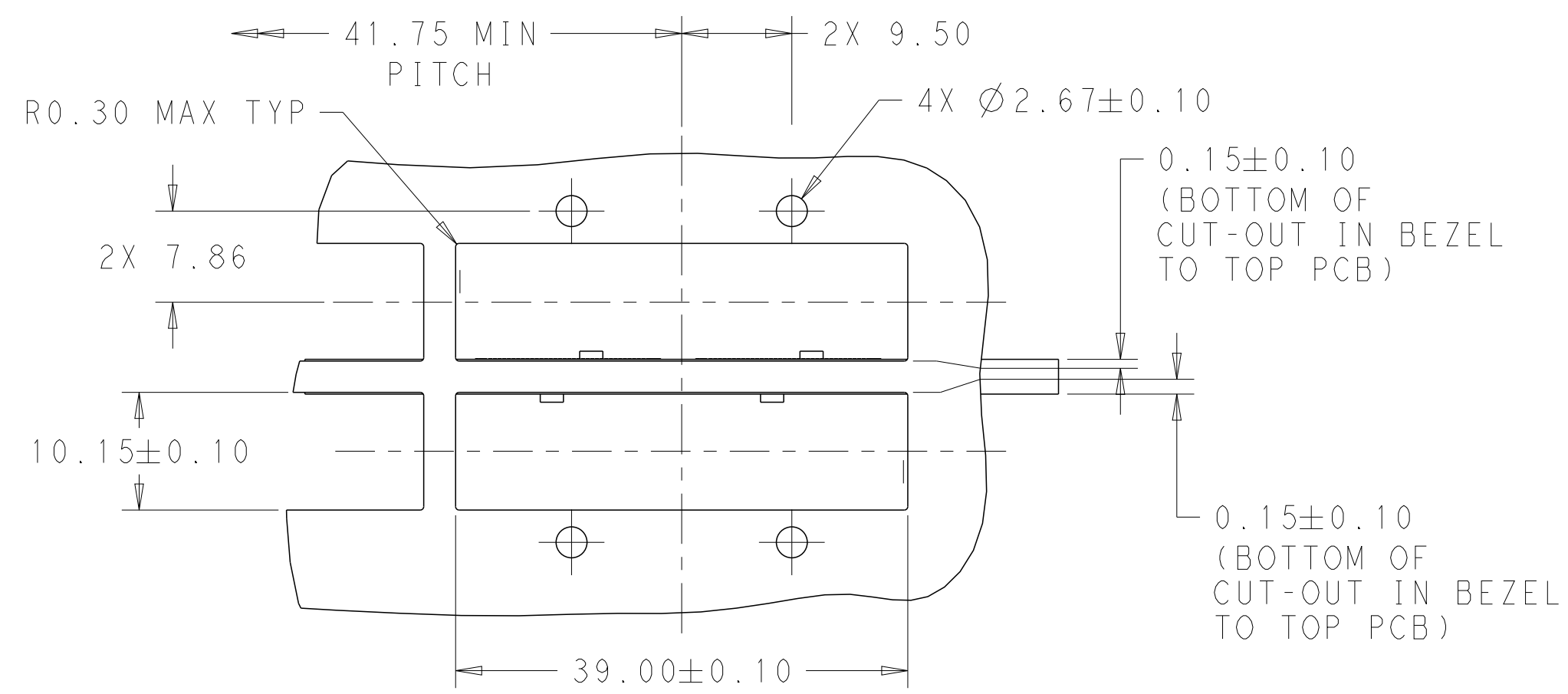
A

D

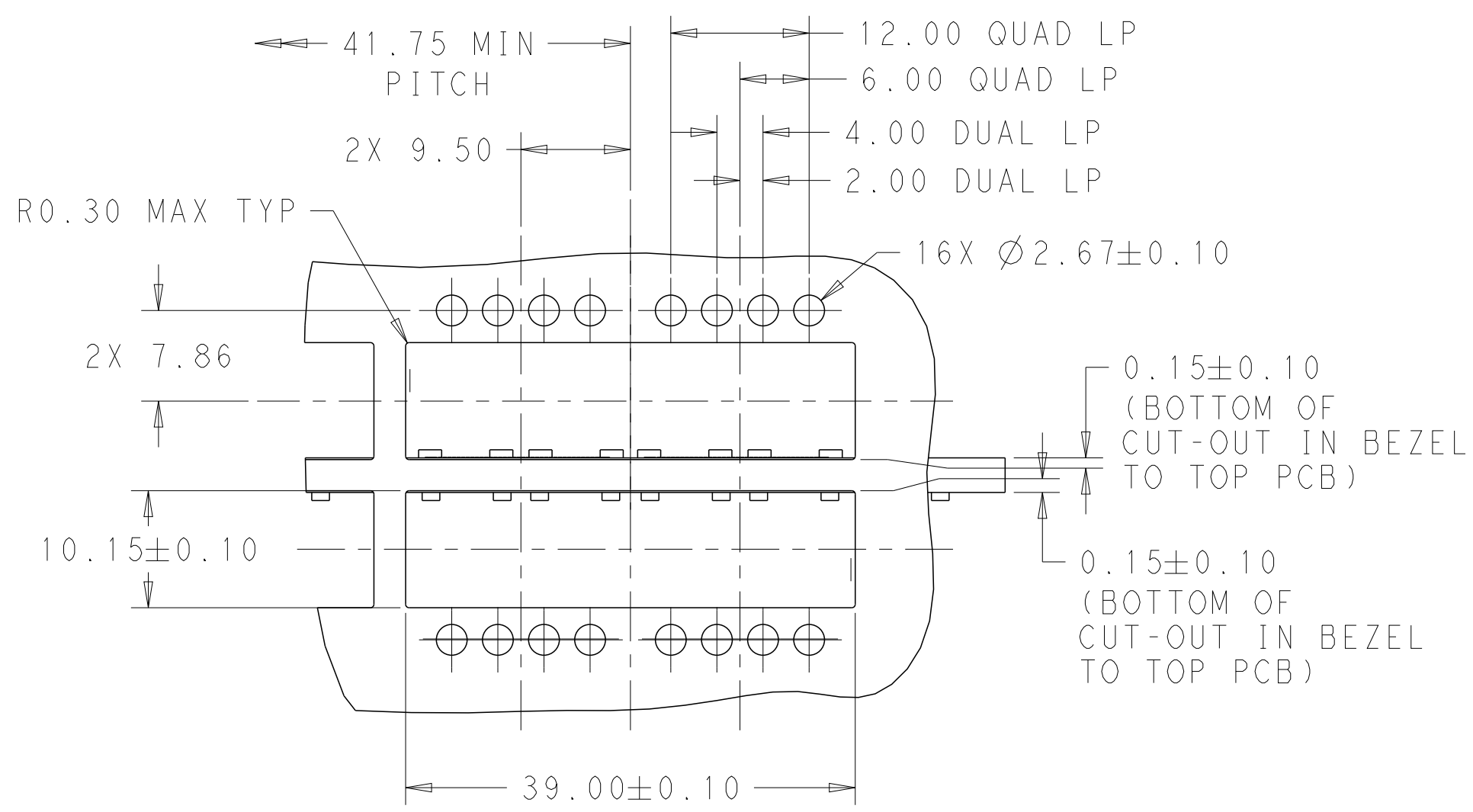
C

B

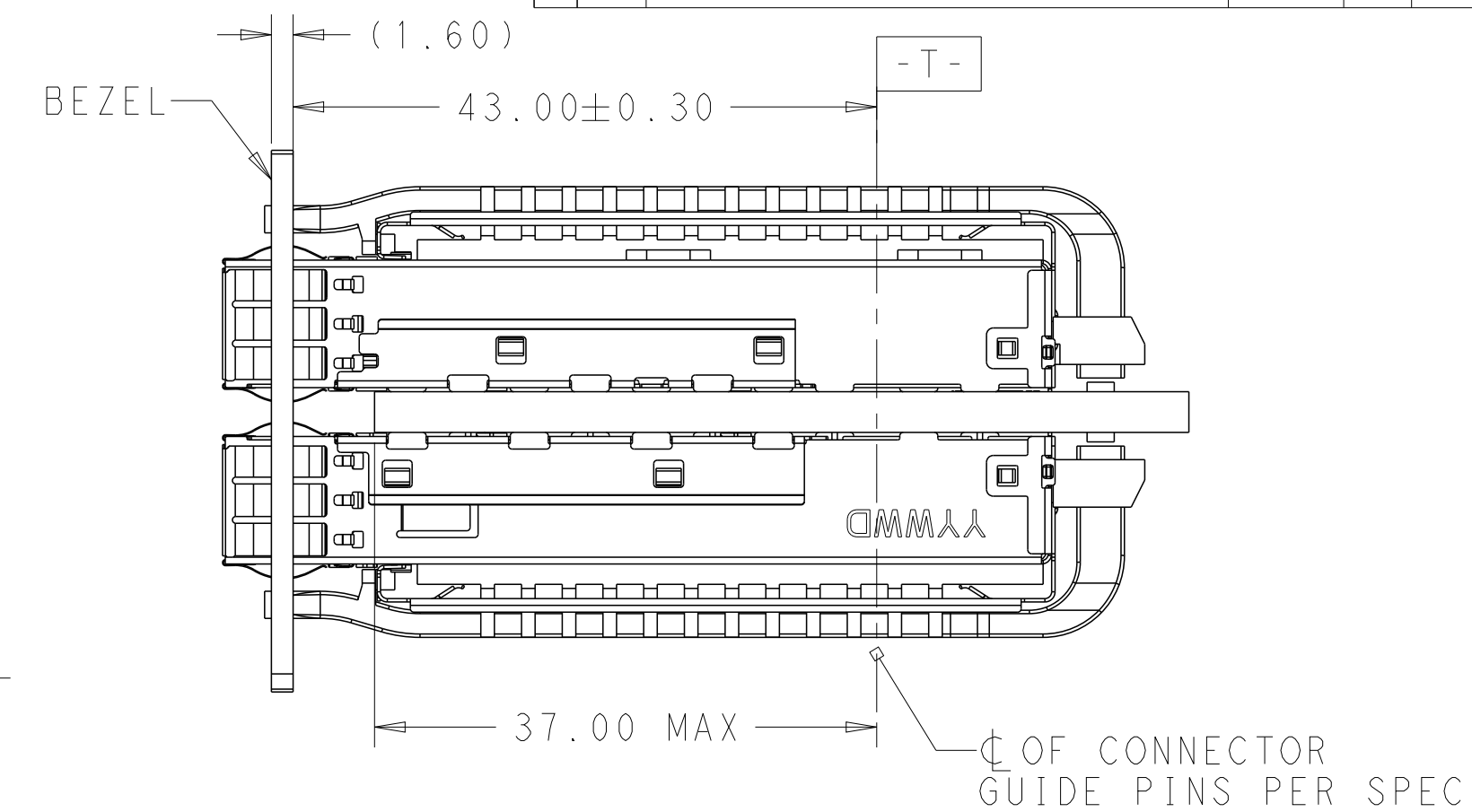
A



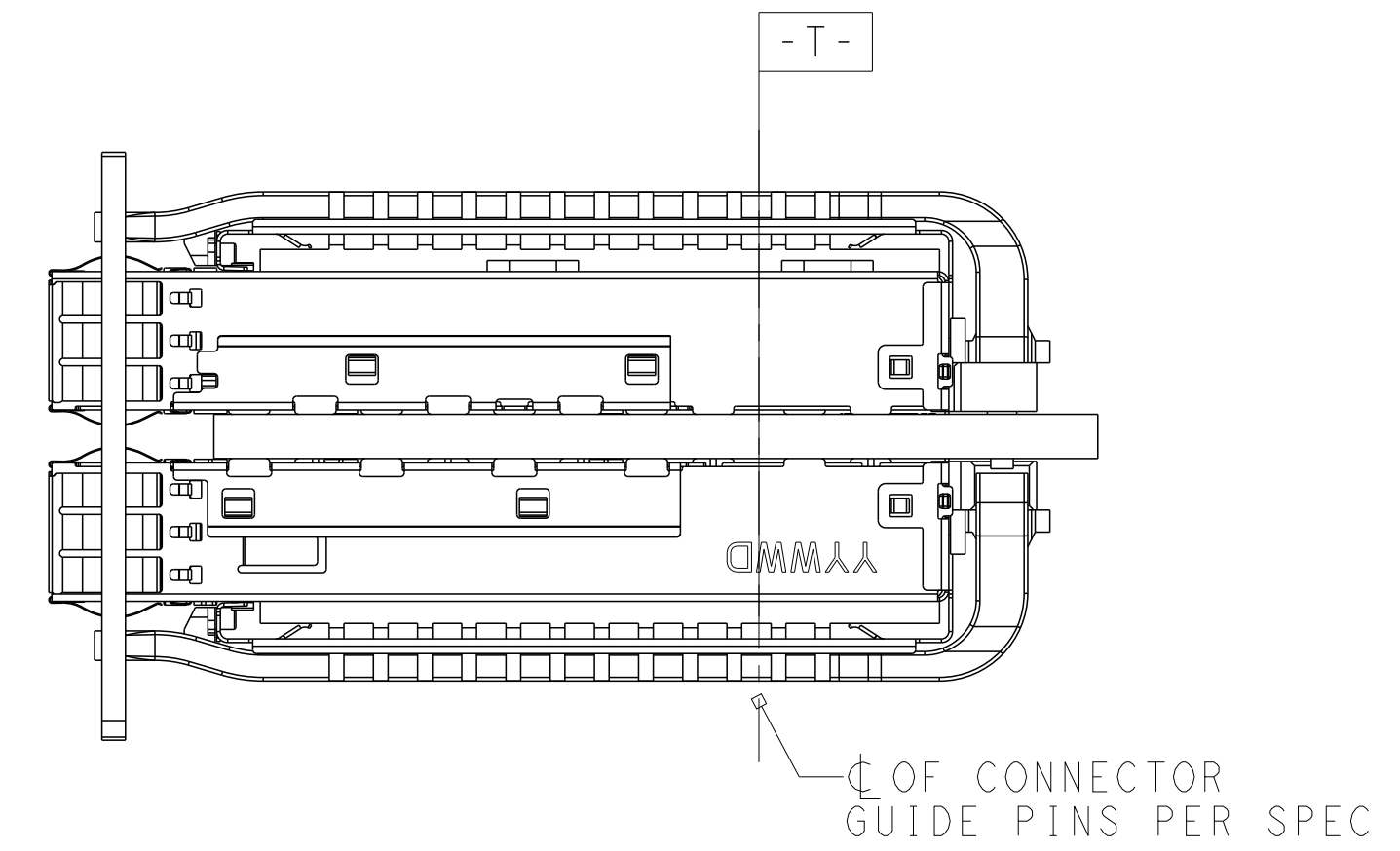
CAGE ASSEMBLY IS OMITED



CAGE ASSEMBLY IS OMITED



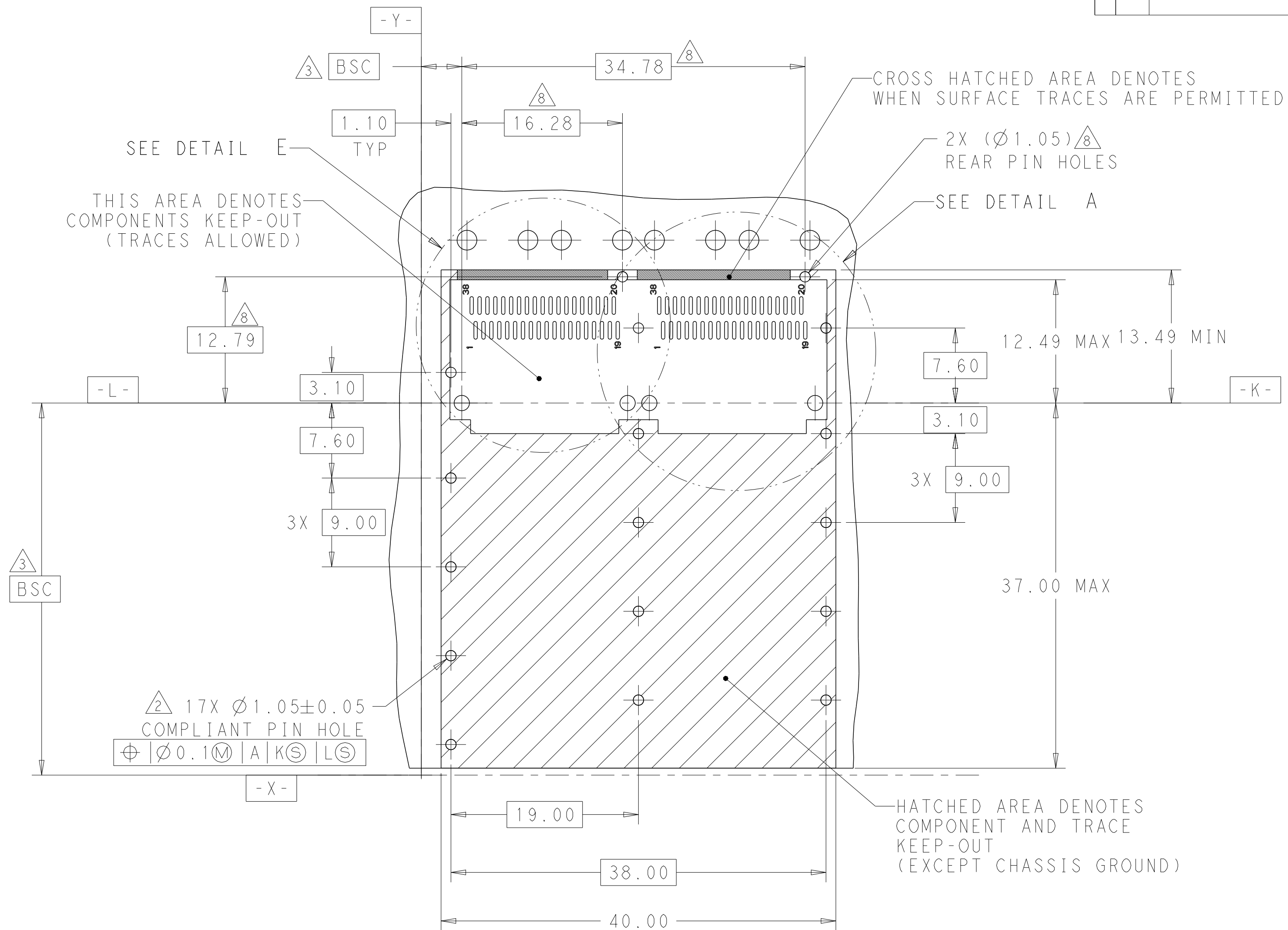
BELLY TO BELLY MOUNTING  
SCALE 2:1



BELLY 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:<br>mm                                                                                                                               |  | APVD<br>-                      | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |              |                 |           |
| <br>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<br>SEE NOTES |  | PRODUCT SPEC<br>108-19428      | SIZE<br>A200779                                                                                        |              |                 |           |
|                                                                                                                                                 |  | APPLICATION SPEC<br>114-32023  | CAGE CODE<br>C-2170808                                                                                 |              |                 |           |
|                                                                                                                                                 |  | WEIGHT<br>-                    | DRAWING NO<br>-                                                                                        |              |                 |           |
| MATERIAL<br>SEE NOTES                                                                                                                           |  | CUSTOMER DRAWING               |                                                                                                        | SCALE<br>1:1 | SHEET<br>5 OF 9 | REV<br>B1 |

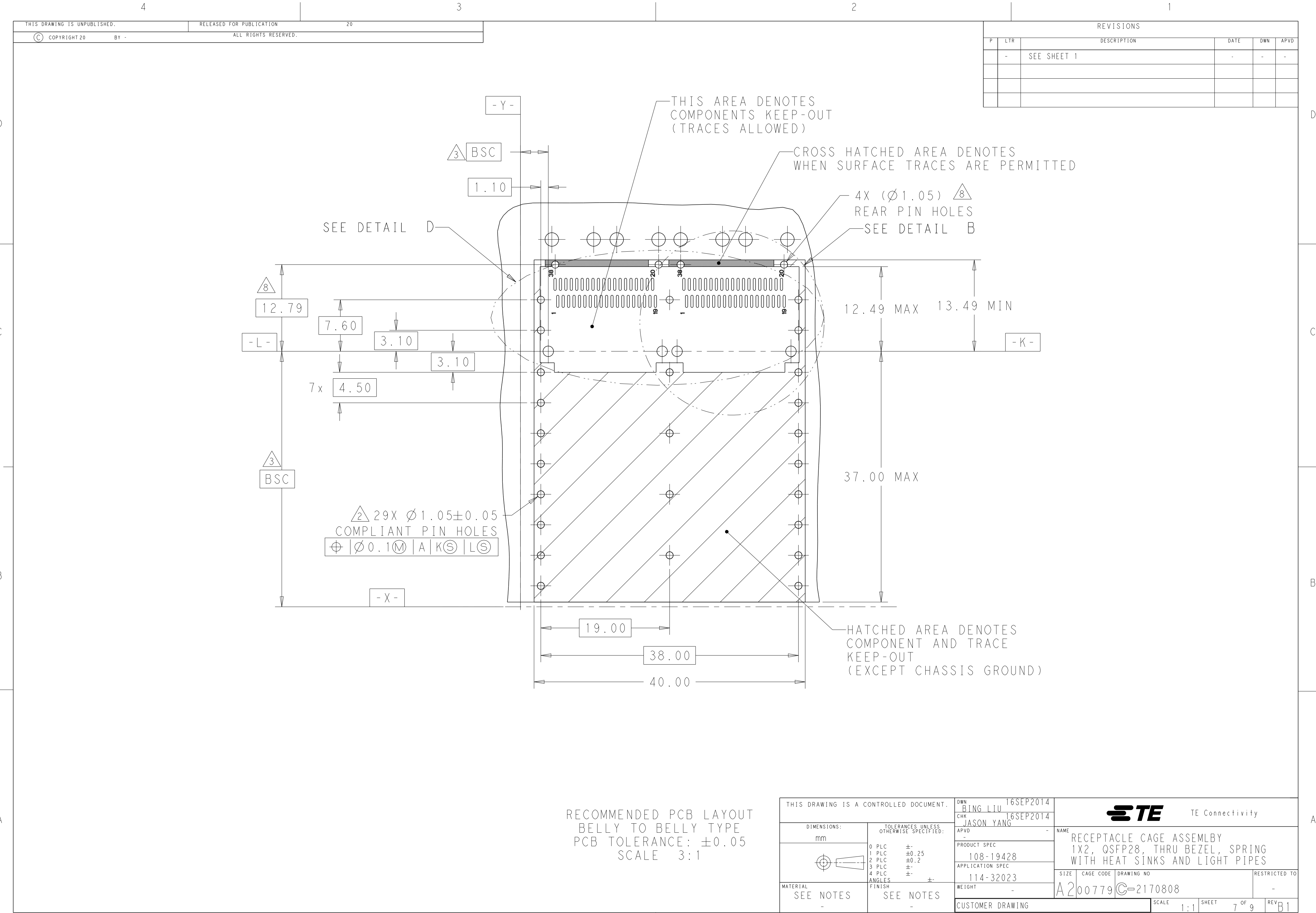
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
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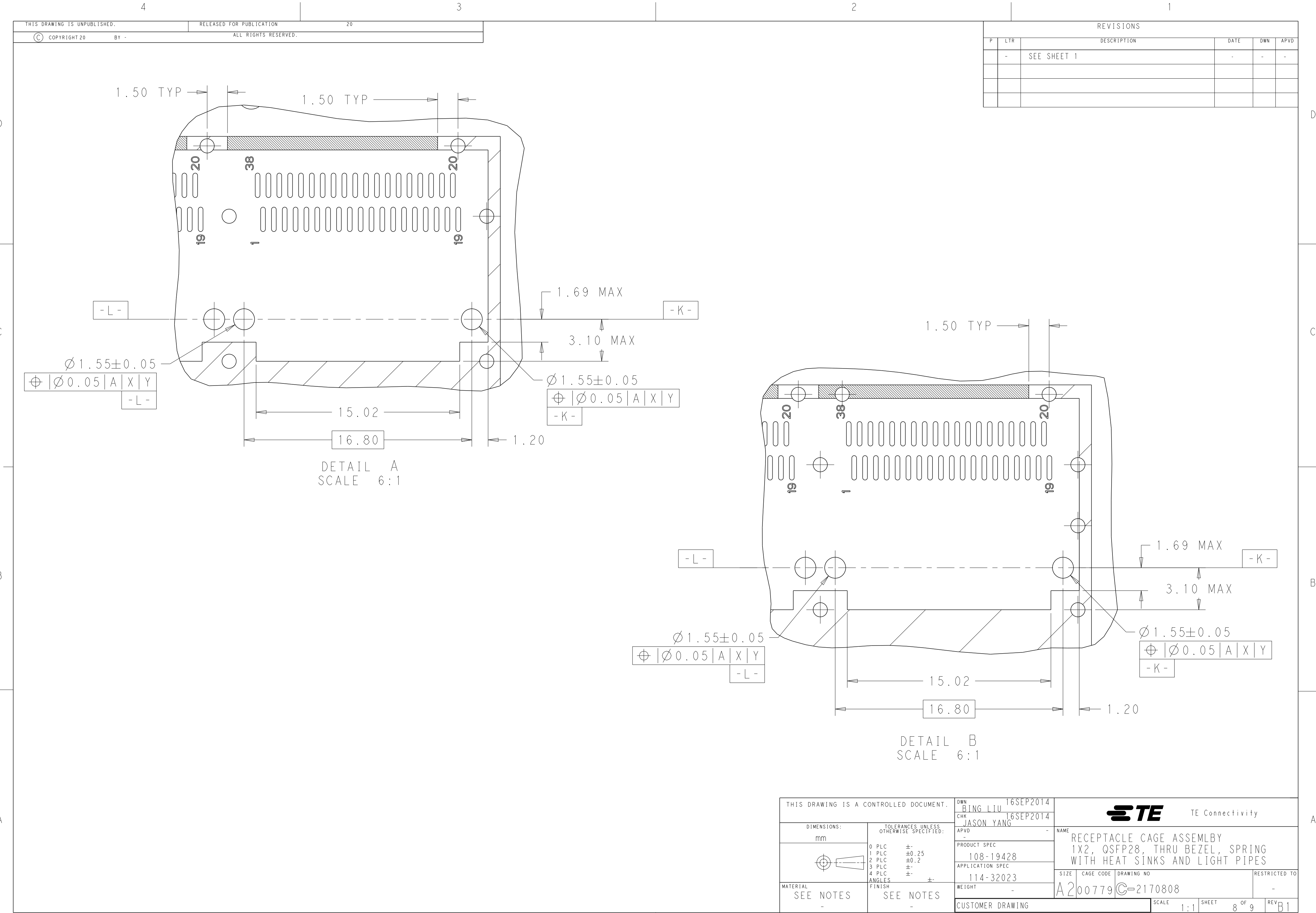


RECOMMENDED PCB LAYOUT  
SINGLE TYPE  
PCB TOLERANCE:  $\pm 0.05$   
SCALE 3:1

|                                                                                       |  |                                        |  |                                                                                                        |                 |                      |                 |
|---------------------------------------------------------------------------------------|--|----------------------------------------|--|--------------------------------------------------------------------------------------------------------|-----------------|----------------------|-----------------|
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|                                                                                       |  | CHR 16SEP2014<br>JASON YANG            |  |                                                                                                        |                 |                      |                 |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | NAME<br>RECEPTACLE CAGE ASSEMBLY<br>1X2, QSFP28, THRU BEZEL, SPRING<br>WITH HEAT SINKS AND LIGHT PIPES |                 |                      |                 |
|  |  | APVD -                                 |  |                                                                                                        |                 |                      |                 |
|                                                                                       |  | PRODUCT SPEC<br>108-19428              |  |                                                                                                        |                 |                      |                 |
|                                                                                       |  | APPLICATION SPEC<br>114-32023          |  |                                                                                                        |                 |                      |                 |
| 0 PLC ±<br>1 PLC ±0.25<br>3 PLC ±0.2<br>4 PLC ±<br>ANGLES ±±                          |  | WEIGHT -                               |  | SIZE A2                                                                                                | CAGE CODE 00779 | DRAWING NO C-2170808 | RESTRICTED TO - |
| MATERIAL<br>SEE NOTES<br>-                                                            |  | FINISH<br>SEE NOTES<br>-               |  | SCALE 1:1                                                                                              |                 | SHEET 6 of 9         | REV R1          |







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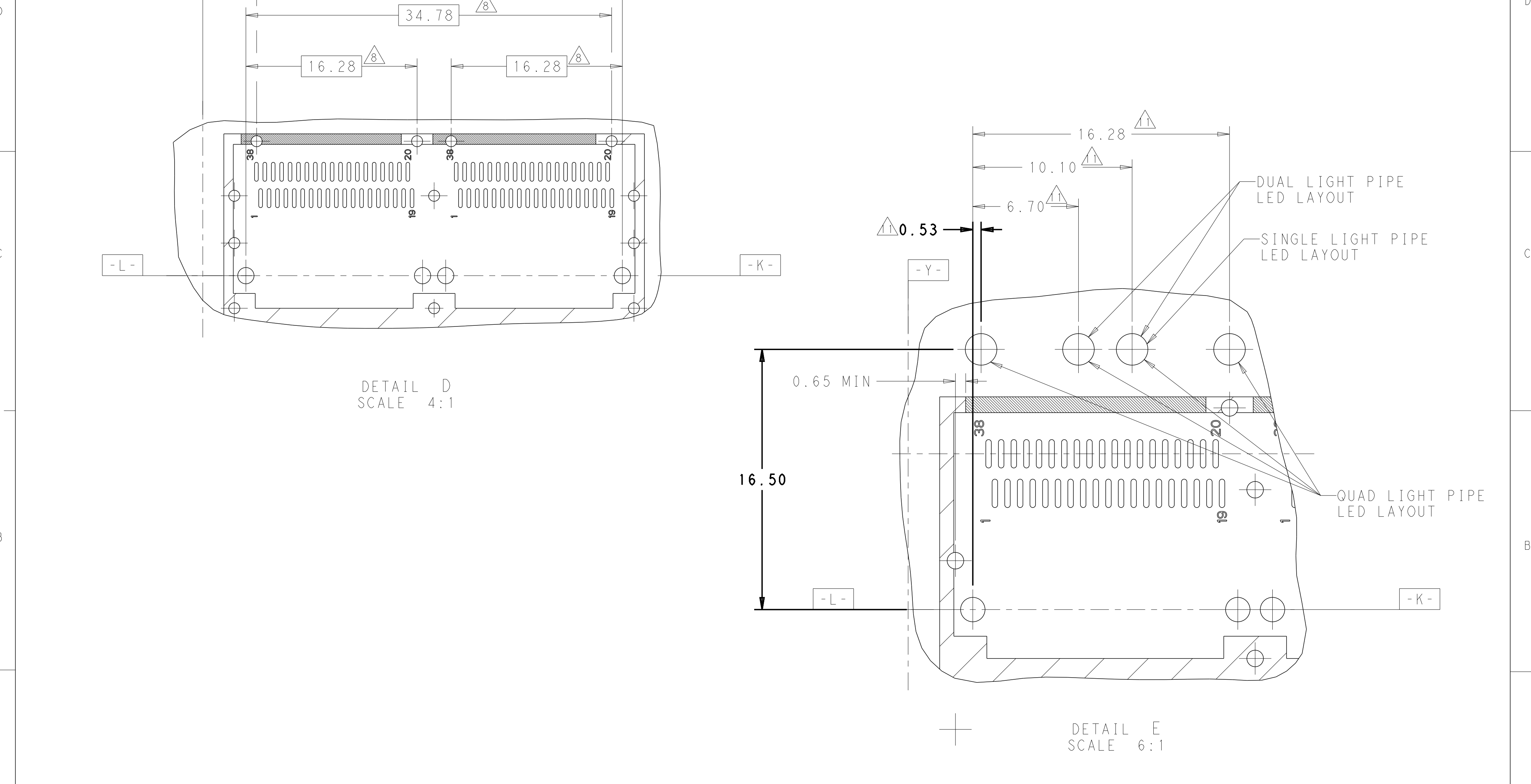
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|           | -   | SEE SHEET 1 | -    | -   | -    |
|           |     |             |      |     |      |
|           |     |           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

|                                        |  |                                |                               |  |  |
|----------------------------------------|--|--------------------------------|-------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>BING LIU<br>16SEP2014   | TE Connectivity               |  |  |
| DIMENSIONS:                            |  | CHK<br>JASON YANG<br>16SEP2014 |                               |  |  |
| mm                                     |  | APVD<br>-                      | NAME                          |  |  |
|                                        |  | PRODUCT SPEC                   | 108-19428                     |  |  |
|                                        |  | APPLICATION SPEC               | 114-32023                     |  |  |
| MATERIAL                               |  | WEIGHT                         | A200779C-2170808              |  |  |
| SEE NOTES                              |  | CUSTOMER DRAWING               | SCALE 1:1 SHEET 8 OF 9 REV B1 |  |  |

|                                        |       |        |  |
|----------------------------------------|-------|--------|--|
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |       | FINISH |  |
| 0 PLC                                  | ±     |        |  |
| 1 PLC                                  | ±0.25 |        |  |
| 2 PLC                                  | ±0.2  |        |  |
| 3 PLC                                  | ±     |        |  |
| 4 PLC                                  | ±     |        |  |
| ANGLES                                 | ±     |        |  |
| SEE NOTES                              |       |        |  |



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



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DWN

BING LIU

16SEP2014

CHK

JASON YANG

16SEP2014

APVD

-

-

DIMENSIONS:

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2 PLC ±0.2

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4 PLC ±-

ANGLES ±-

FINISH

MATERIAL

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

B1

TE Connectivity