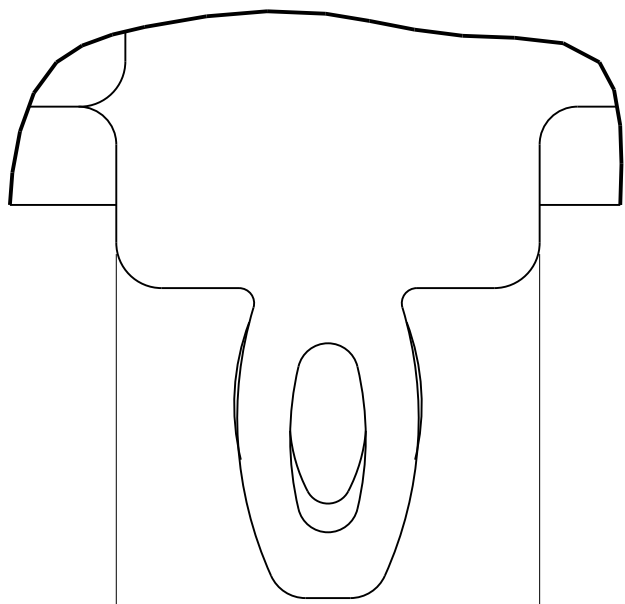


| LOC | DIST | REVISIONS |     |                       |           |     |      |  |
|-----|------|-----------|-----|-----------------------|-----------|-----|------|--|
| GP  | 00   | P         | LTR | DESCRIPTION           | DATE      | DWN | APVD |  |
|     |      |           | 7   | ADD -10 PART NUMBER   | 21MAR2014 | RG  | MC   |  |
|     |      |           | 8   | ADD -11 PART NUMBER   | 16APR2014 | RG  | MC   |  |
|     |      |           | 9   | MODIFY -10 LIGHT PIPE | 15JUL2014 | RG  | MC   |  |
|     |      |           | 10  | ADD ORGANIZER ON -10  | 9DEC2014  | RG  | MC   |  |



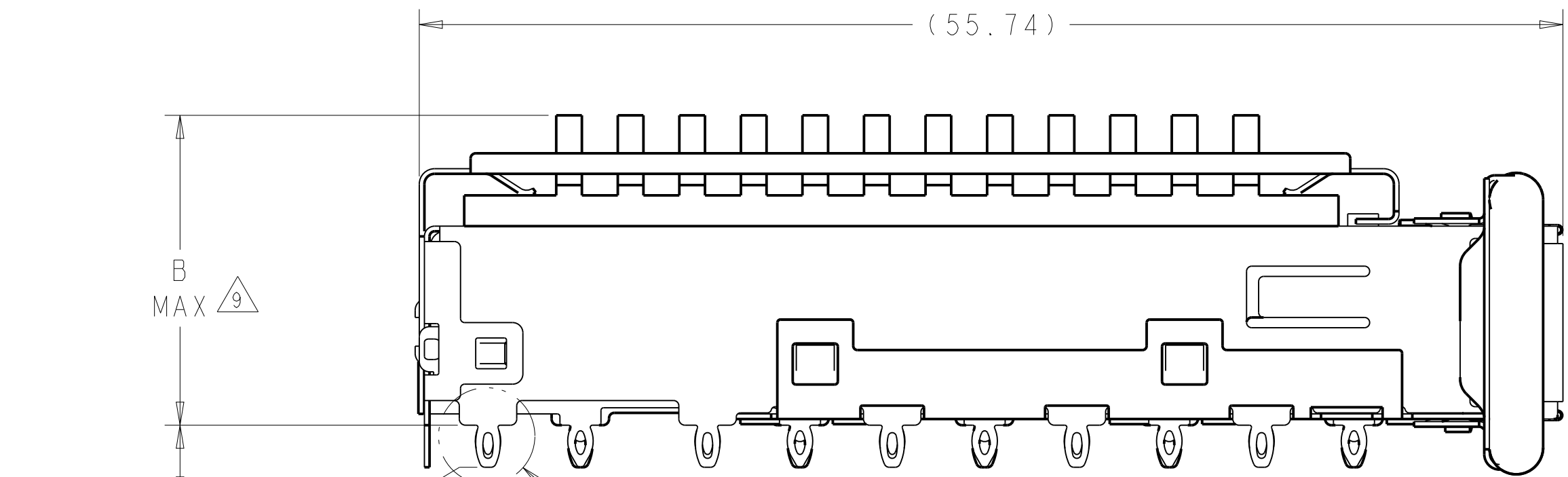
DETAIL S  
SCALE 20:1

- 1 CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK  
HEAT SINK MATERIAL: ALUMINUM  
HEAT SINK CLIP MATERIAL: STAINLESS STEEL  
EMI SPRING MATERIAL: COPPER ALLOY  
EMI GASKET MATERIAL: CONDUCTIVE RUBBER,UL 94V-0 RATED  
EMI GASKET PLATE MATERIAL: STAINLESS STEEL

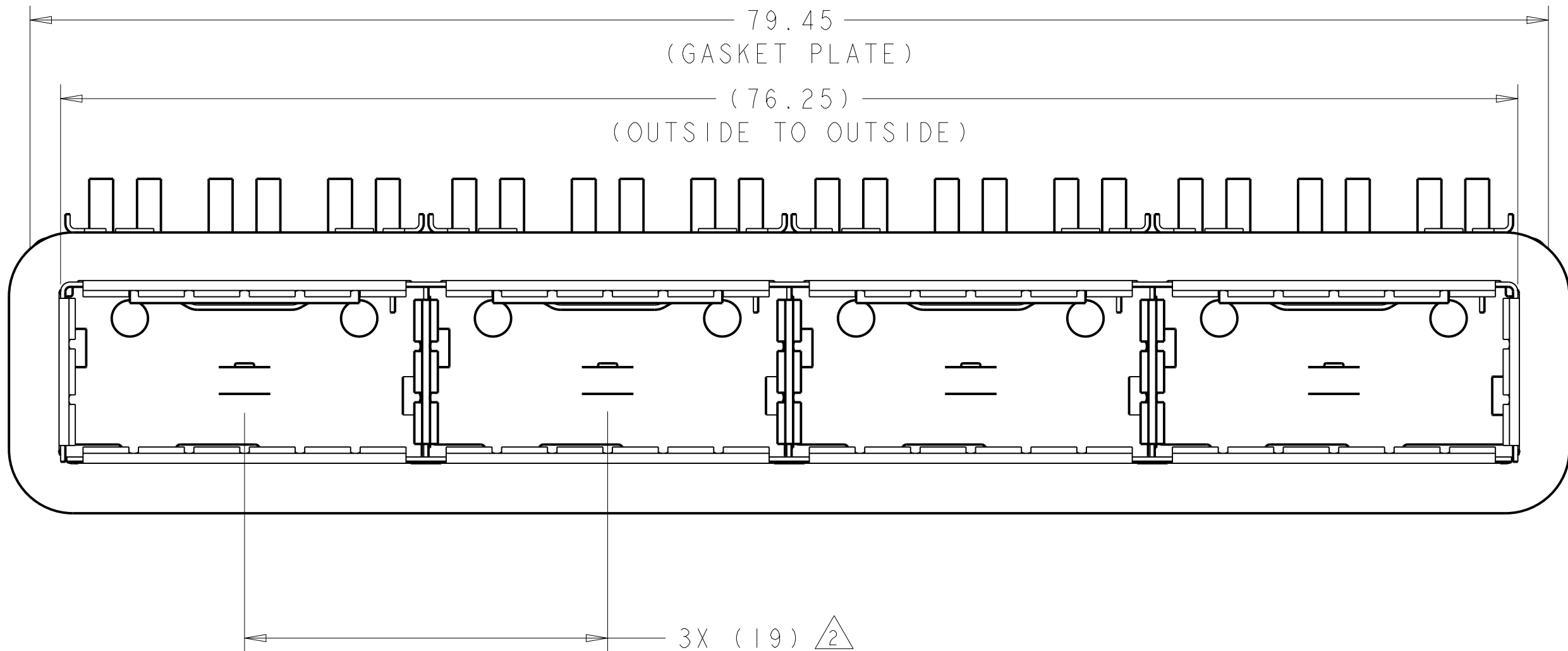
- 2 PITCH BETWEEN PORTS OF ONE 1X4 CAGE ASSEMBLY.  
3 SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.  
4 REFERENCE APPLICATION SPEC 114-13217 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.  
5 DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.  
6 DIMENSION F IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD, SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm  
DOUBLE SIDED PC BOARD MINIMUM THICKNESS = 5.0mm PER CUSTOM.  
7 HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.  
8 DATUM -A- IS TOP SURFACE OF PC BOARD.  
9 DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.  
10 UNPLATED THRU HOLE.

11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.

- 12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.  
13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.  
14 DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.  
15 REFERENCE APP SPEC 114-13217 FOR GASKET THICKNESS CALCULATION.  
16 EMI SPRING FINISH: TIN PLATING OVER NICKEL  
HEAT SINK FINISH: ANODIZED OR NICKEL PLATING.

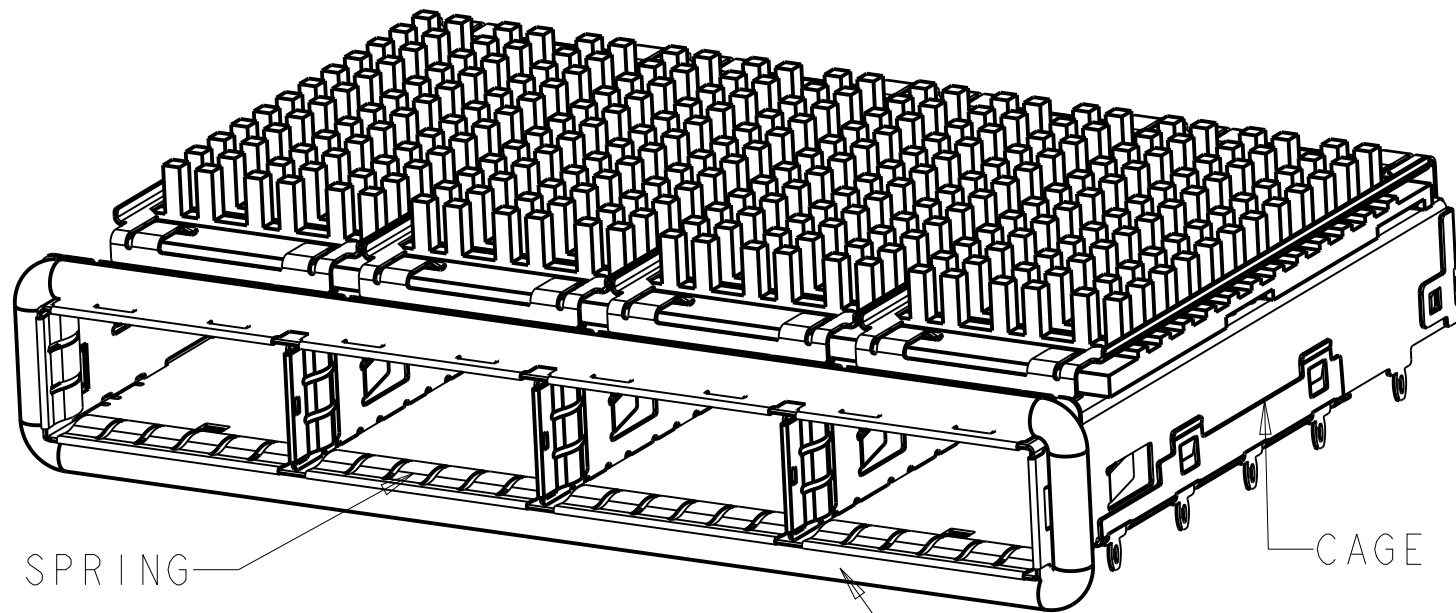


SEE DETAIL S



2170287-4, 2170287-5, 2170287-6  
SCALE 2:1

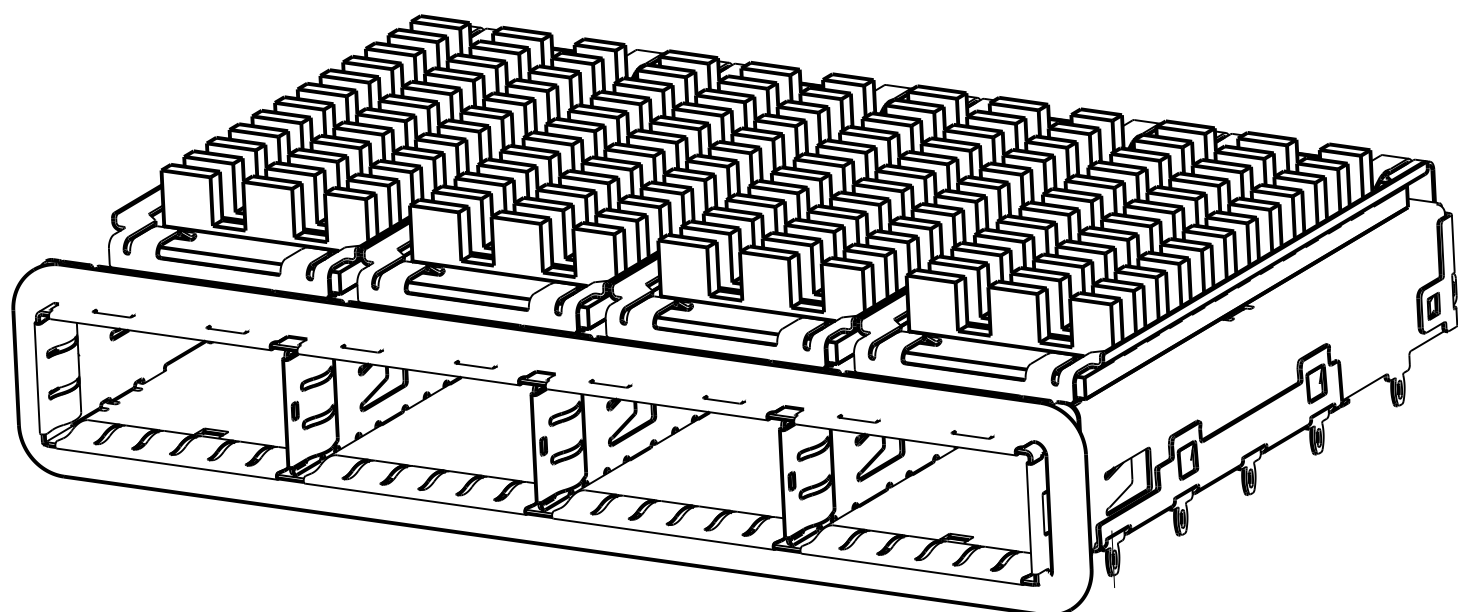
1-2170287-0  
SCALE 2:1



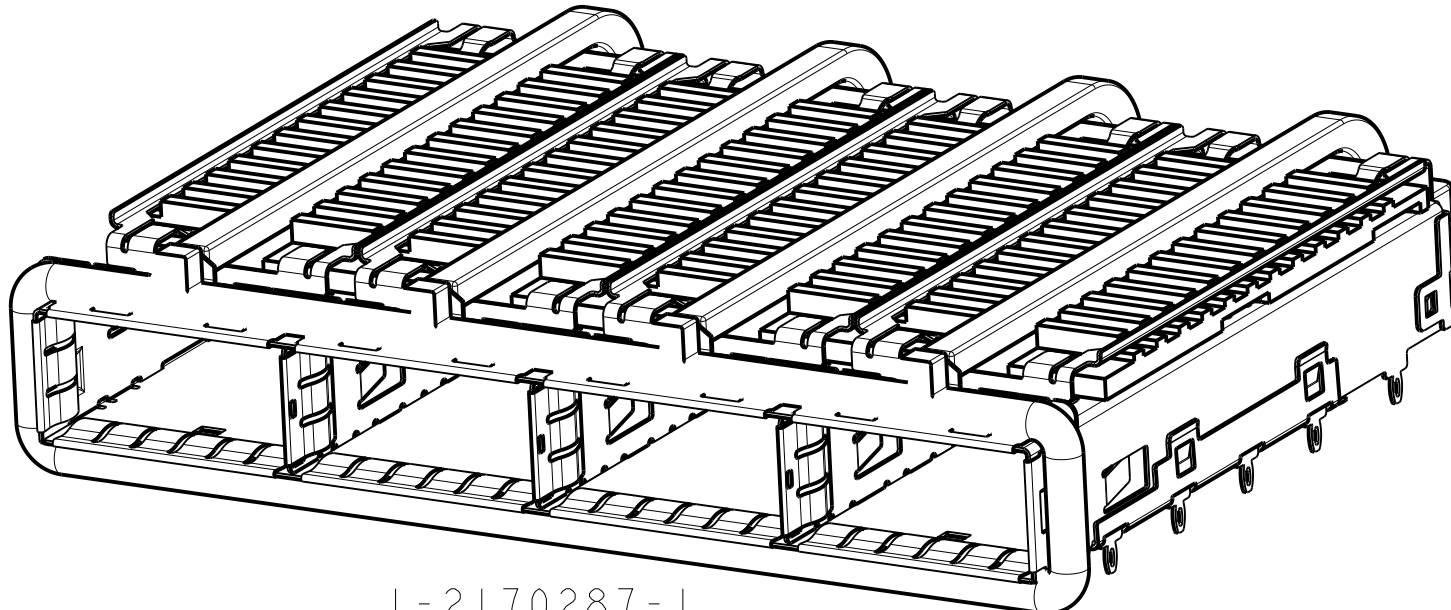
EMI SPRING CAGE ASSEMBLY

ELASTOMERIC GASKET

2170287-1, 2170287-2, 2170287-3  
SCALE 2:1



2170287-7, 2170287-8, 2170287-9  
SCALE 2:1



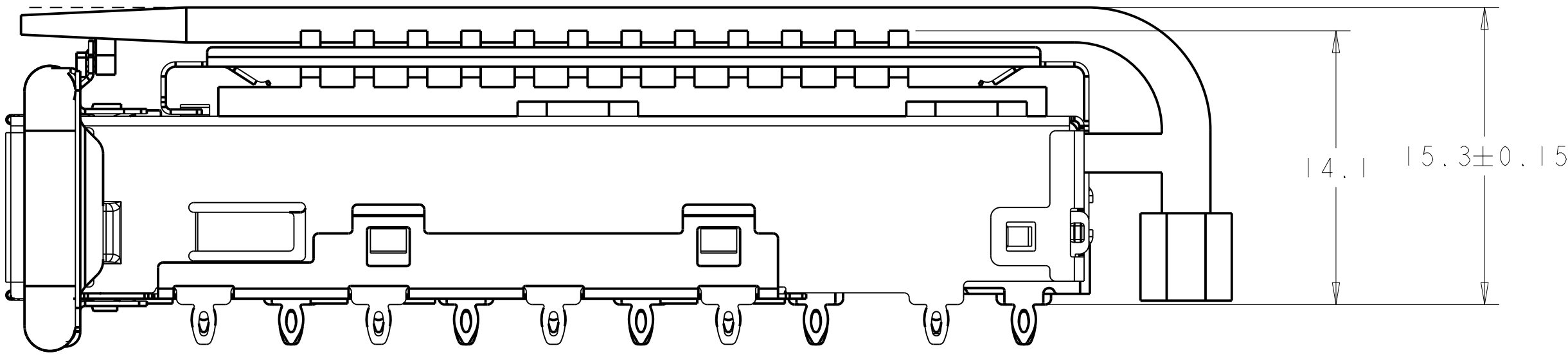
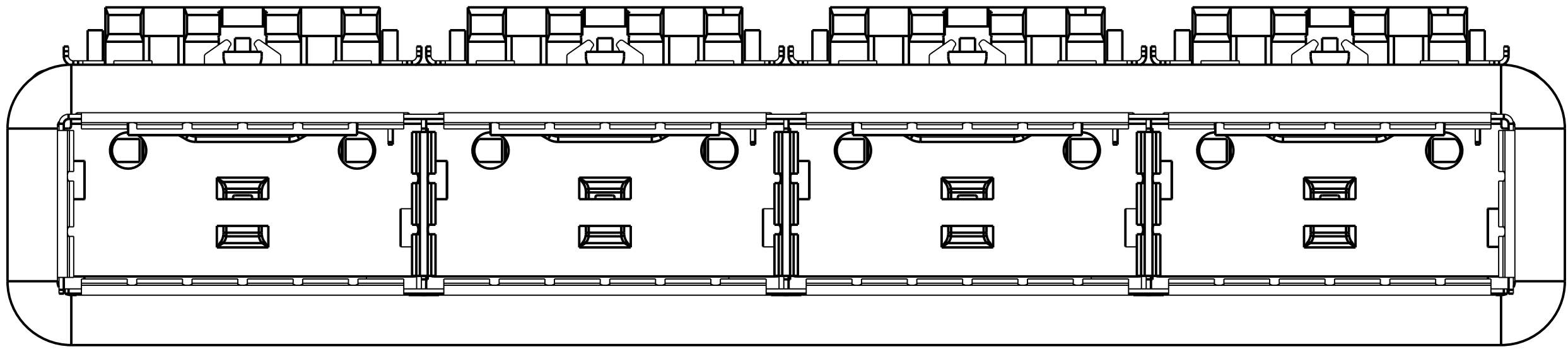
1-2170287-1  
SCALE 2:1

| 1    |                      |             |
|------|----------------------|-------------|
| 13.7 | PCI(FIN TYPE)        | 1-2170287-1 |
| 15.0 | CUSTOMIZED HEAT SINK | 1-2170287-0 |
| 23.0 | NETWORKING(FIN TYPE) | 2170287-9   |
| 16.0 | SAN(FIN TYPE)        | 2170287-8   |
| 13.7 | PCI(FIN TYPE)        | 2170287-7   |
| 23.0 | NETWORKING(FIN TYPE) | 2170287-6   |
| 16.0 | SAN(FIN TYPE)        | 2170287-5   |
| 13.7 | PCI(FIN TYPE)        | 2170287-4   |
| 23.0 | NETWORKING(PIN TYPE) | 2170287-3   |
| 16.0 | SAN(PIN TYPE)        | 2170287-2   |
| 13.7 | PCI(PIN TYPE)        | 2170287-1   |
| B    | HEAT SINK PROFILE    | PART NUMBER |

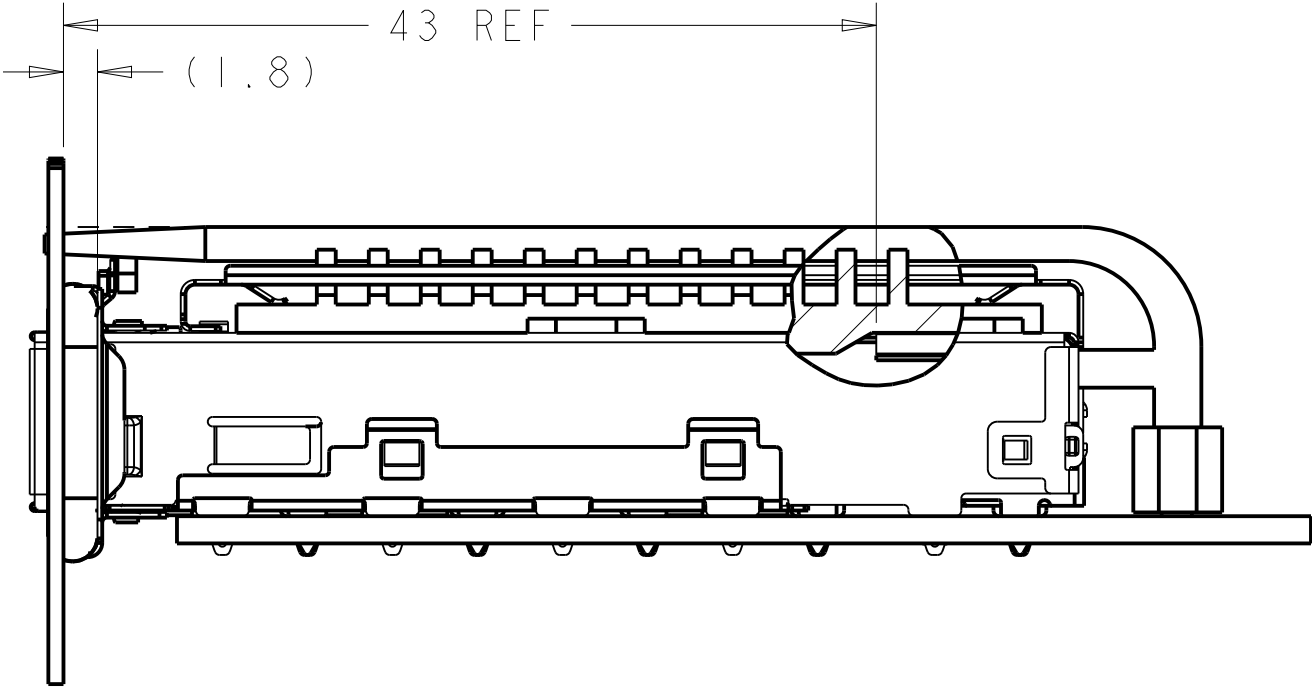
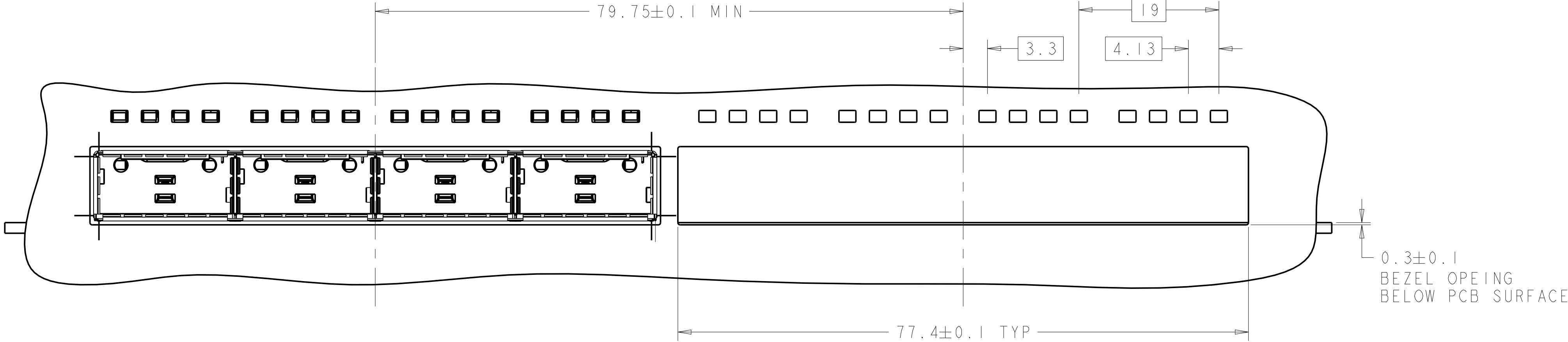
|                                        |  |                                    |  |
|----------------------------------------|--|------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN: KINSEN SUN 29FEB2012          |  |
| DIMENSIONS:                            |  | CHK: DENNY ZHU 29FEB2012           |  |
| mm                                     |  | APVD: ALEX CAI 29FEB2012           |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | NAME: 1X4 CAGE ASSEMBLY THRU BEZEL |  |
| 0 PLC ±.35                             |  | PRODUCT SPEC: 108-2286             |  |
| 1 PLC ±0.25                            |  | APPLICATION SPEC: 114-13217        |  |
| 2 PLC ±                                |  | WEIGHT: -                          |  |
| 3 PLC ±                                |  | SIZE: A1                           |  |
| 4 PLC ±                                |  | CAGE CODE: 00779                   |  |
| ANGLES FINISH                          |  | DRAWING NO: 2170287                |  |
| 1                                      |  | 16                                 |  |
| MATERIAL                               |  | Customer Drawing                   |  |
|                                        |  | SCALE: 4:1                         |  |
|                                        |  | SHEET 1 OF 8                       |  |
|                                        |  | REV 10                             |  |



| LOC |  | DIST |  | REVISIONS |     |             |      |     |      |
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| GP  |  | 00   |  | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |  |      |  | -         | -   | SEE SHEET 1 | -    | -   | -    |
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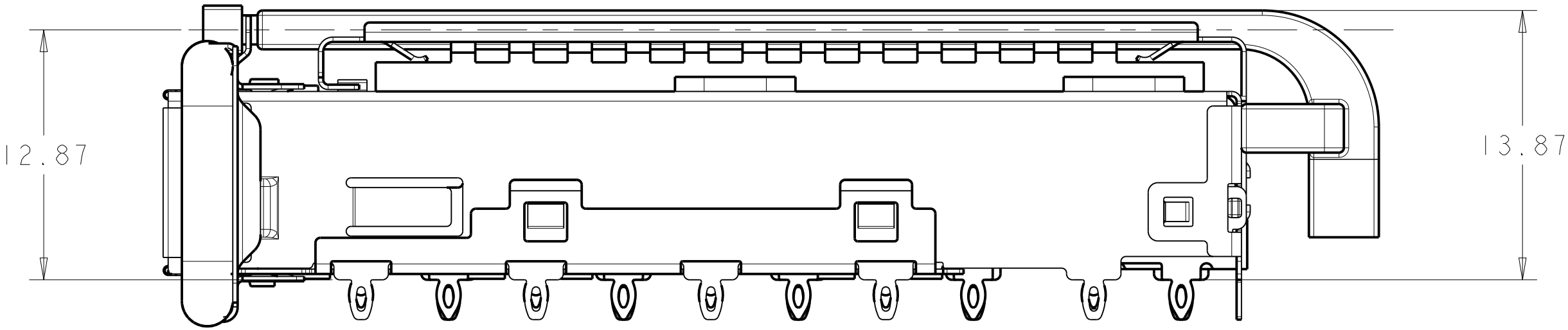
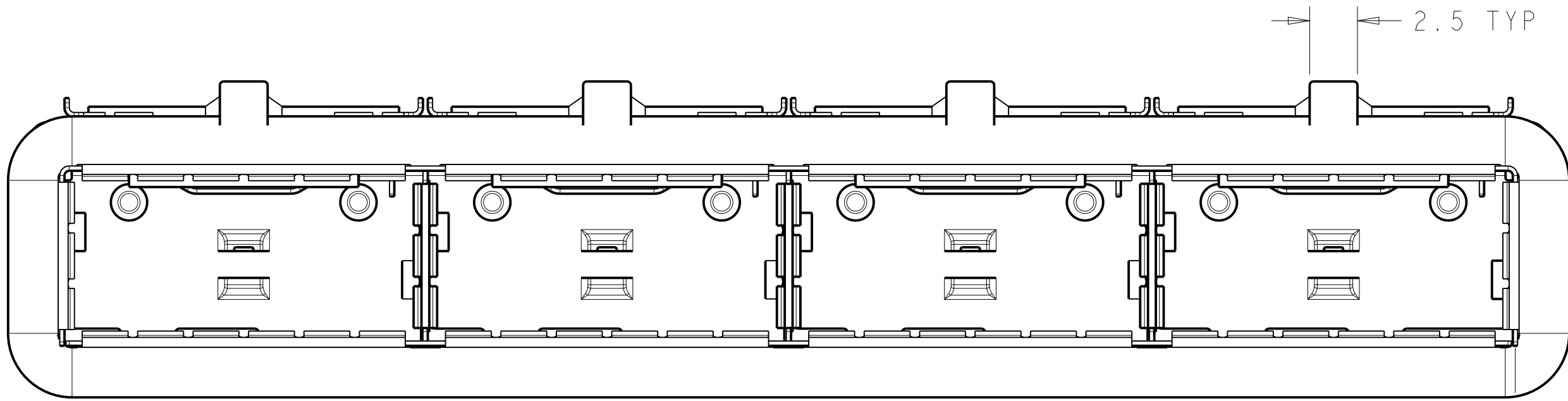


1-2170287-0 shown  
SCALE 4:1

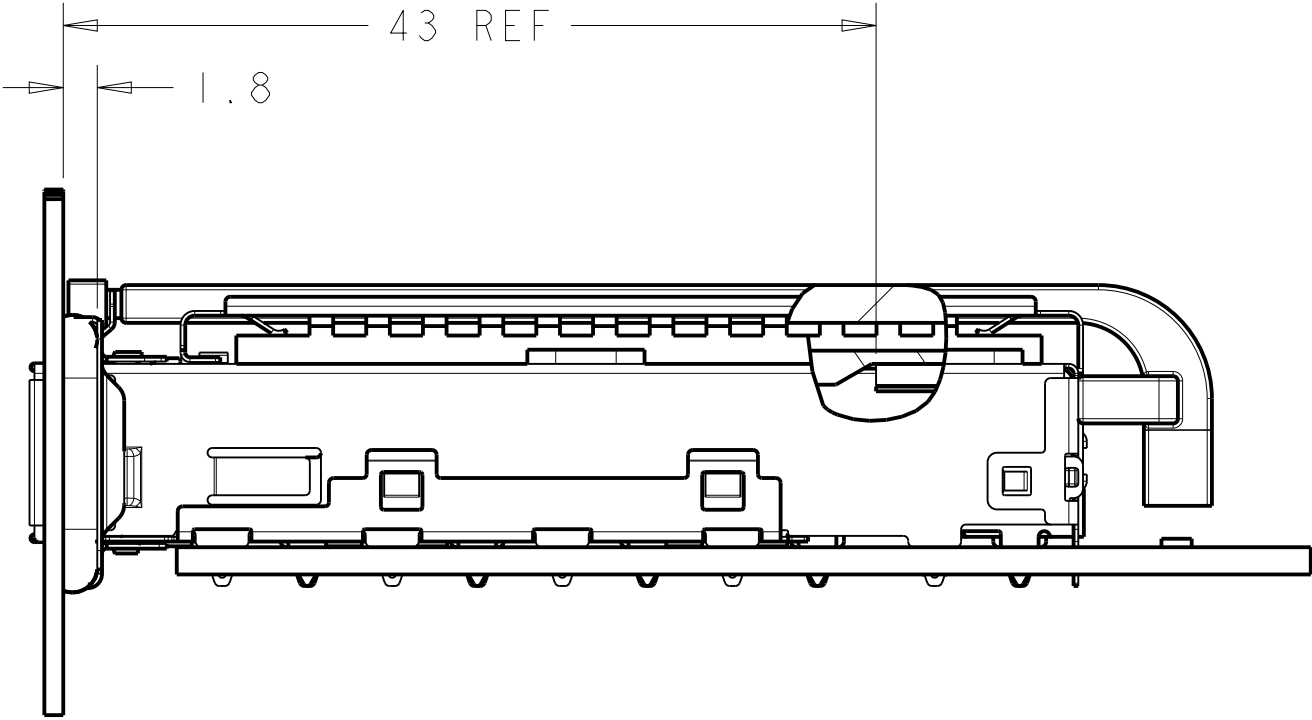
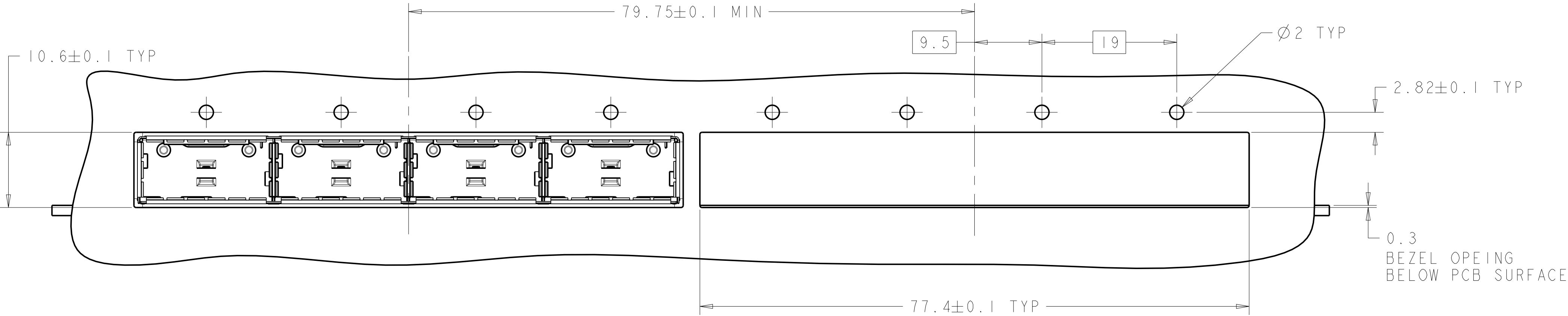


SECTION B-B

1-2170287-0  
ONE SIDED CONFIGURATION  
SCALE 5:2

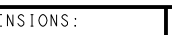


1-2170287-1 SHOWN  
SCALE 4:1



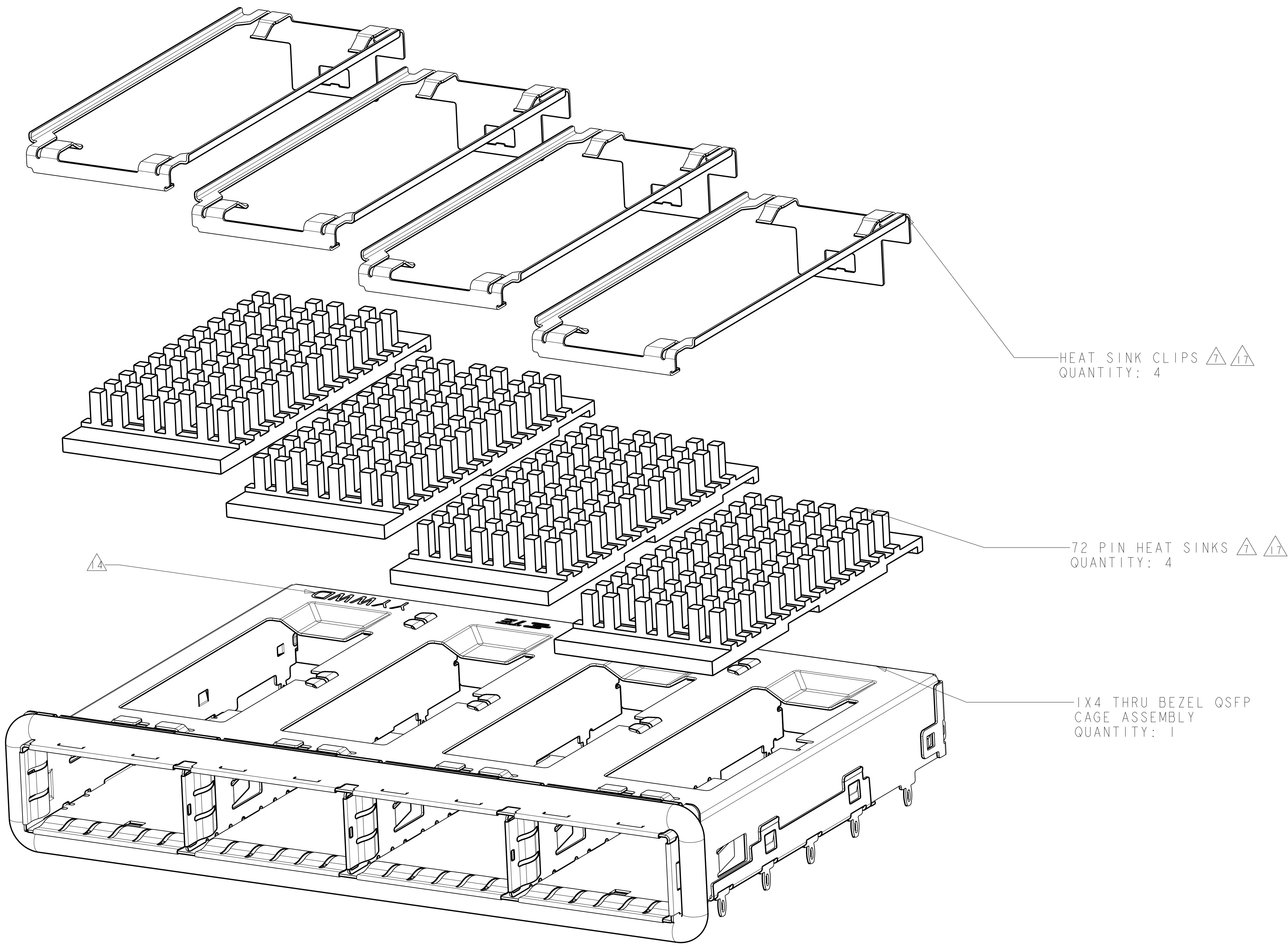
SECTION B-B

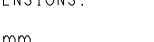
1-2170287-1  
ONE SIDED CONFIGURATION  
SCALE 5:2

|                                        |                                                                                       |                                                                                              |                                                                                                       |                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                       | DWN<br>KINSEN SUN<br>29FEB2012                                                               |  TE Connectivity |                                                           |
|                                        |                                                                                       | CHK<br>DENNY ZHU<br>29FEB2012                                                                |                                                                                                       |                                                           |
| DIMENSIONS:<br>mm                      |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                       |                                                                                                       | NAME<br>ALEX CAI<br>29FEB2012                             |
|                                        |                                                                                       | 0 PLC ±.35<br>1 PLC ±0.25<br>2 PLC ±.25<br>3 PLC ±.25<br>4 PLC ±.25<br>ANGLES ±.25<br>FINISH |                                                                                                       | PRODUCT SPEC<br>108-2286<br>APPLICATION SPEC<br>114-13217 |
| MATERIAL                               |                                                                                       | SIZE CASE CODE DRAWING NO                                                                    |                                                                                                       |                                                           |
|                                        |                                                                                       | RESTRICTED TO                                                                                |                                                                                                       |                                                           |
|                                        |                                                                                       | A100779C=2170287                                                                             |                                                                                                       |                                                           |
|                                        |                                                                                       | SCALE 4:1 SHEET 2 OF 8 REV 10                                                                |                                                                                                       |                                                           |
|                                        |                                                                                       | Customer Drawing                                                                             |                                                                                                       |                                                           |



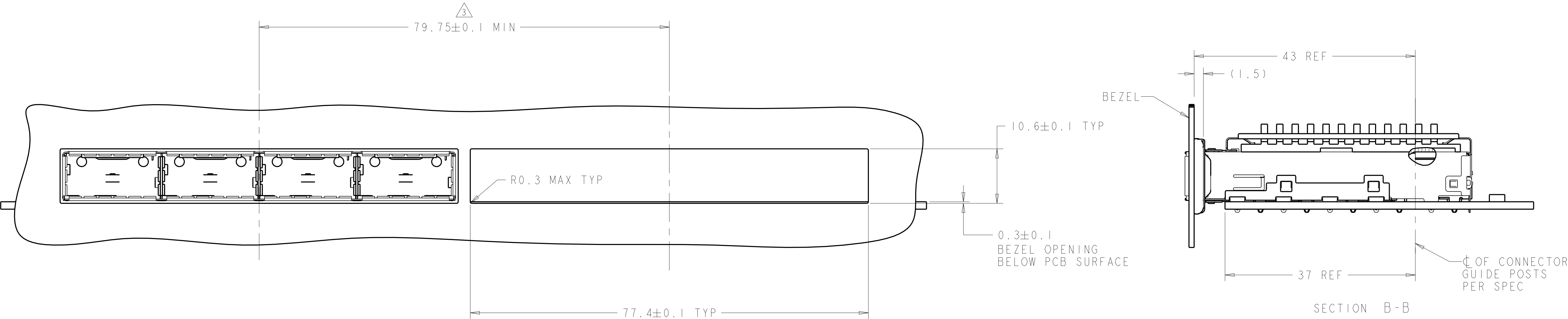
| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
|     |      | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| GP  | 00   | -         | -   | SEE SHEET 1 | -    | -   | -    |
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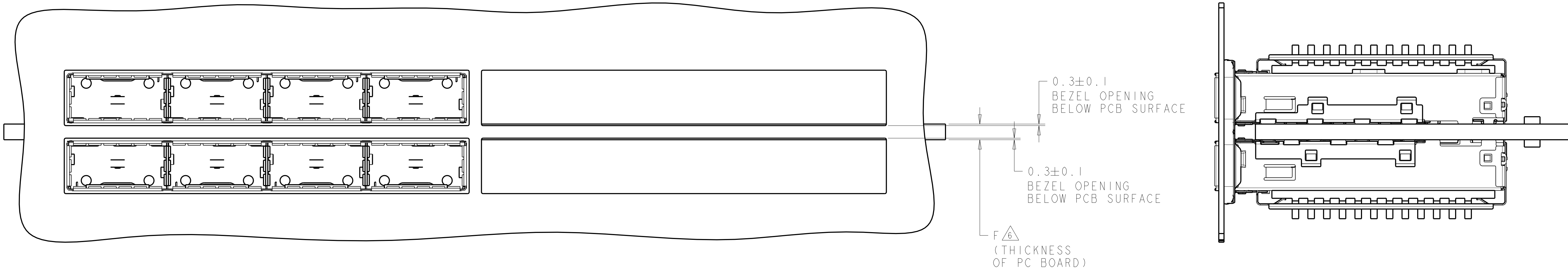
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| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN                                                                                                              | KINSEN SUN | 29FEB2012 |  TE Connectivity |                                                                               |  |  |  |
|                                                                                       |  | CHK                                                                                                              | DENNY ZHU  | 29FEB2012 |                                                                                                       |                                                                               |  |  |  |
|                                                                                       |  |                                                                                                                  | APVD       | AILEX CAI | 29FEB2012                                                                                             | NAME                                                                          |  |  |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES, UNLESS OTHERWISE SPECIFIED:<br><br>0 P.LC ±0.35<br>2 P.LC ±0.25<br>3 P.LC ±<br>4 P.LC ±<br>ANGLES ±° |            |           |                                                                                                       | 1X4 CAGE ASSEMBLY, THRU BEZEL<br>W/ELASTOMERIC GASKET AND HEAT SINKS,<br>QSFP |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       |                                                                               |  |  |  |
|  |  | PRODUCT SPEC                                                                                                     |            |           |                                                                                                       | RESTRICTED TO                                                                 |  |  |  |
|                                                                                       |  | 108-2286                                                                                                         |            |           |                                                                                                       |                                                                               |  |  |  |
|                                                                                       |  | APPLICATION SPEC                                                                                                 |            |           |                                                                                                       | SIZE                                                                          |  |  |  |
|                                                                                       |  | 114-13217                                                                                                        |            |           |                                                                                                       |                                                                               |  |  |  |
|                                                                                       |  | WEIGHT                                                                                                           |            |           |                                                                                                       | DRAWING NO                                                                    |  |  |  |
|                                                                                       |  | -                                                                                                                |            |           |                                                                                                       | A100779C=2170287                                                              |  |  |  |
| MATERIAL                                                                              |  | FINISH                                                                                                           |            |           |                                                                                                       | SCALE                                                                         |  |  |  |
| -                                                                                     |  | -                                                                                                                |            |           |                                                                                                       | 4:1                                                                           |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | SHEET                                                                         |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | 3                                                                             |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | OF                                                                            |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | 8                                                                             |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | REV                                                                           |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | 10                                                                            |  |  |  |
|                                                                                       |  |                                                                                                                  |            |           |                                                                                                       | Customer Drawing                                                              |  |  |  |



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| GP  | 00 |      |  | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
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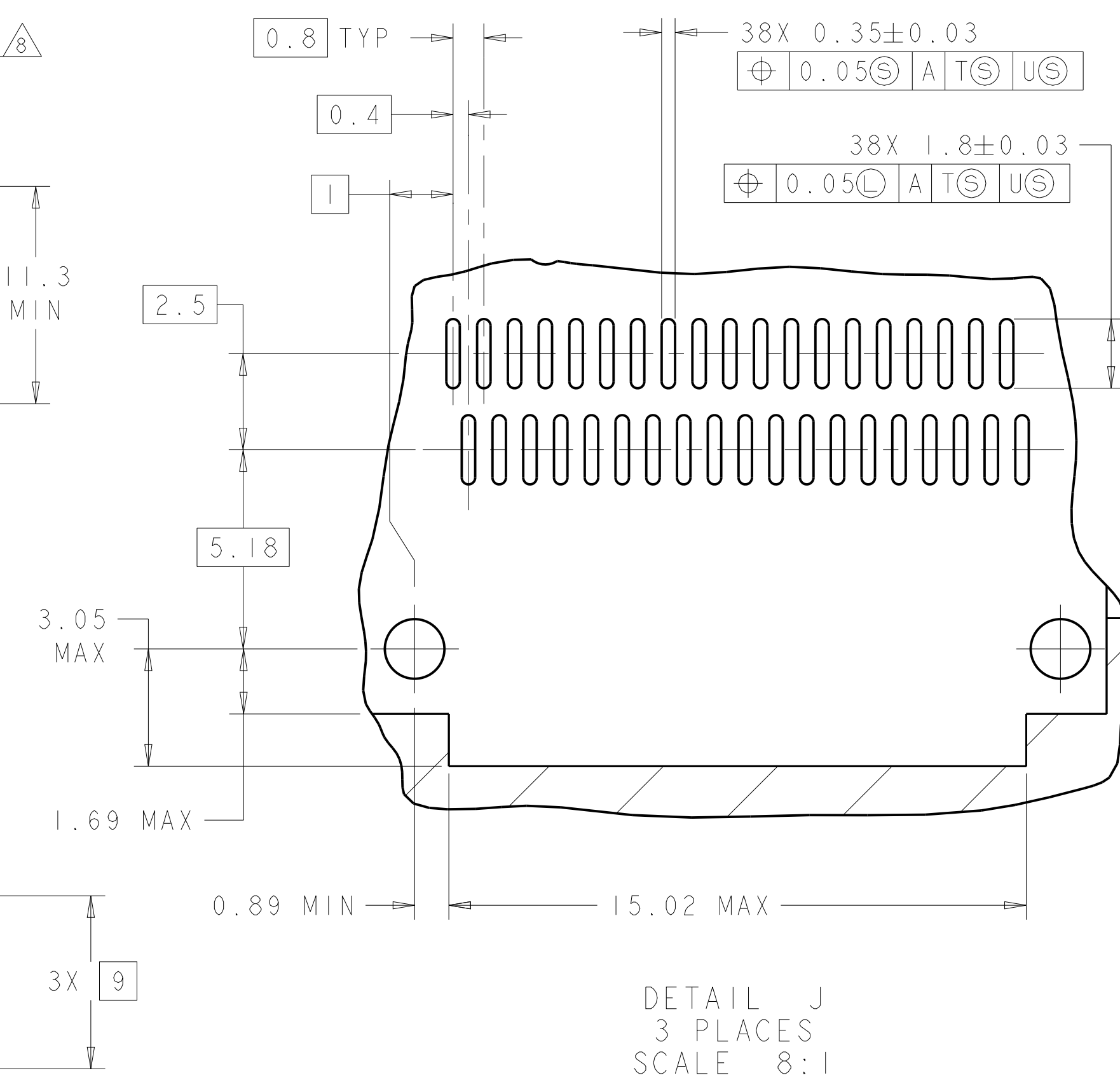
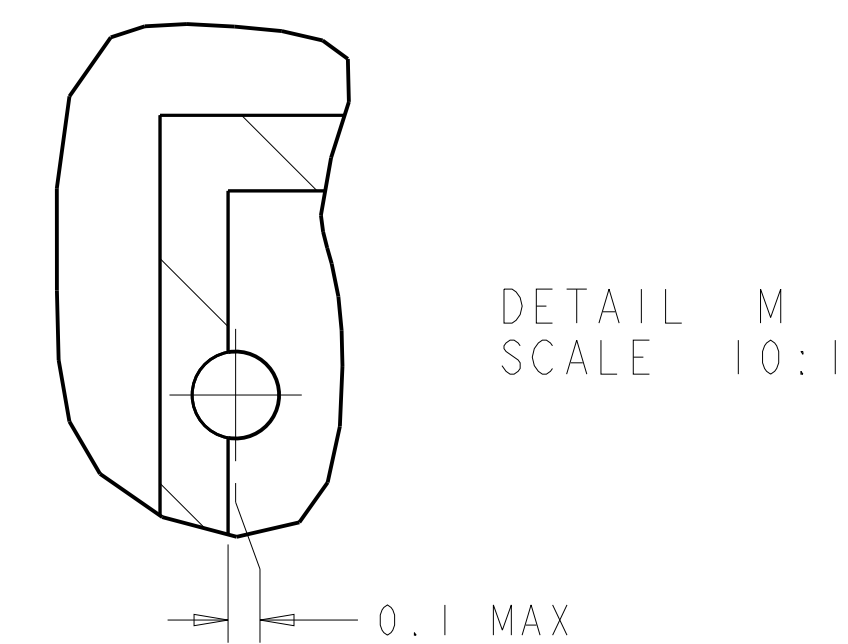
ONE SIDED CONFIGURATION  
SCALE 5:2



BELLY TO BELLY CONFIGURATION  
SIMILAR TO ONE SIDED  
EXCEPT WHERE NOTED  
SCALE 5:2

|                                        |  |                                                                      |                                     |                                                                          |        |
|----------------------------------------|--|----------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------|--------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>KINSEN SUN<br>CHK<br>DENNY ZHU<br>APVD<br>ALEX CAI            | 29FEB2012<br>29FEB2012<br>29FEB2012 | TE Connectivity                                                          |        |
| DIMENSIONS:                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                               |                                     | NAME                                                                     |        |
| mm                                     |  | 0 PLC ±.35<br>1 PLC ±0.35<br>2 PLC ±0.25<br>3 PLC ±.35<br>4 PLC ±.35 |                                     | 1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP |        |
|                                        |  | ANGLES FINISH                                                        |                                     | SIZE CAGE CODE DRAWING NO                                                |        |
| MATERIAL                               |  |                                                                      |                                     | A100779C=2170287                                                         |        |
|                                        |  |                                                                      |                                     | Customer Drawing                                                         |        |
|                                        |  |                                                                      |                                     | SCALE                                                                    | 4:1    |
|                                        |  |                                                                      |                                     | SHEET                                                                    | 4 OF 8 |
|                                        |  |                                                                      |                                     | REV                                                                      | 10     |

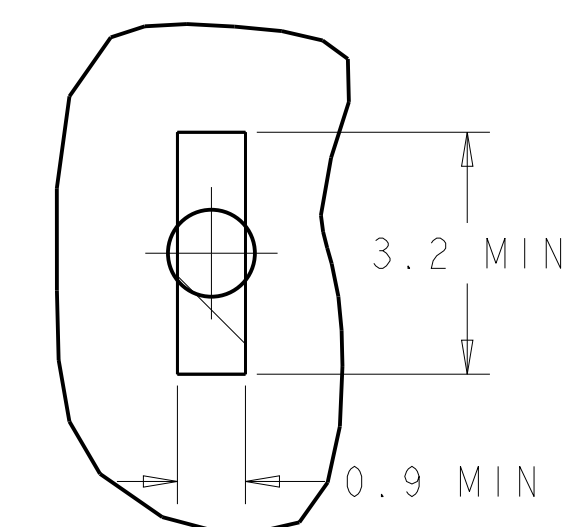




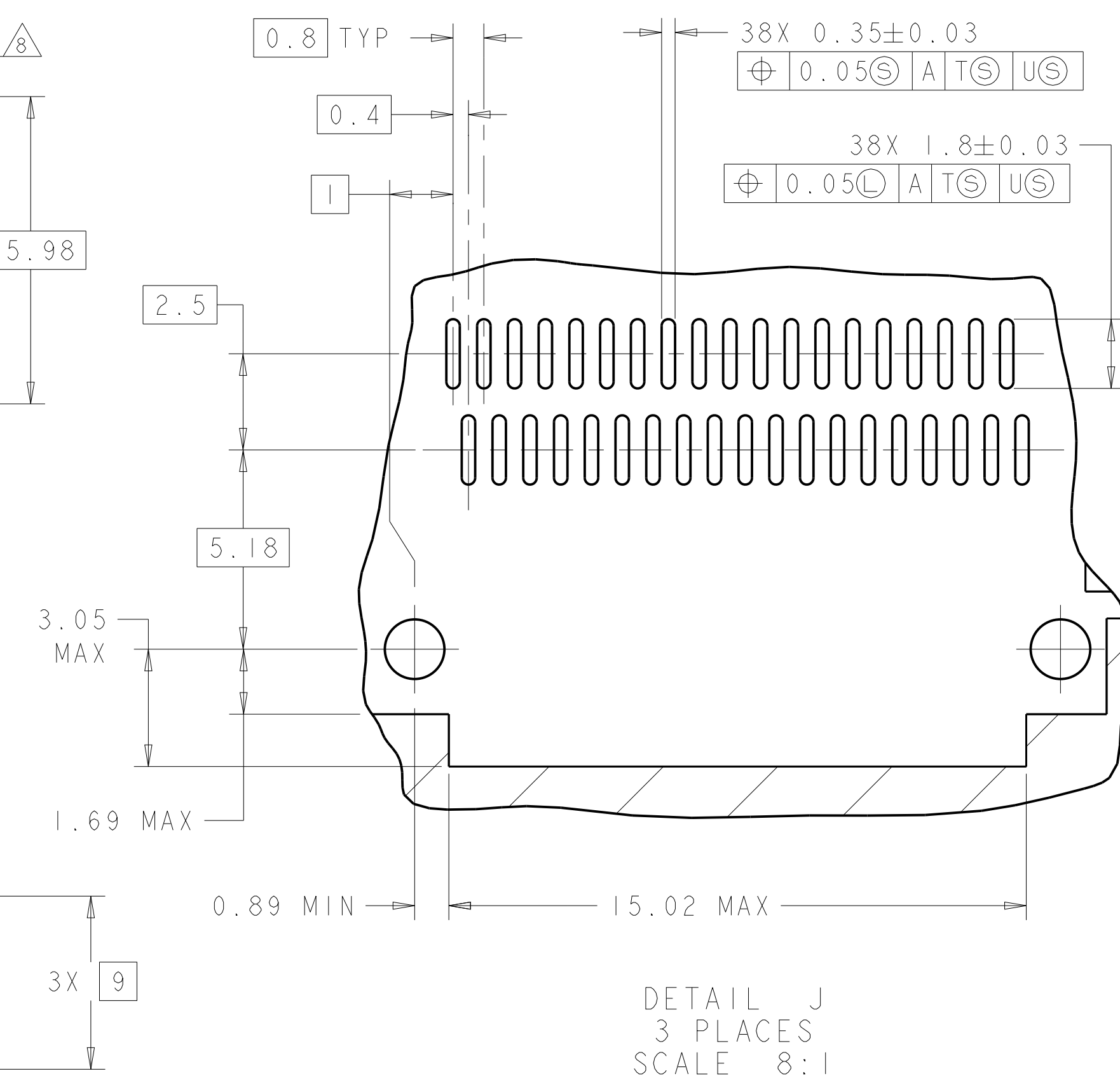
DETAIL J  
3 PLACES  
SCALE 8:1

4805 (3/11)



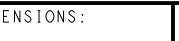


DETAIL M  
SCALE 10:1

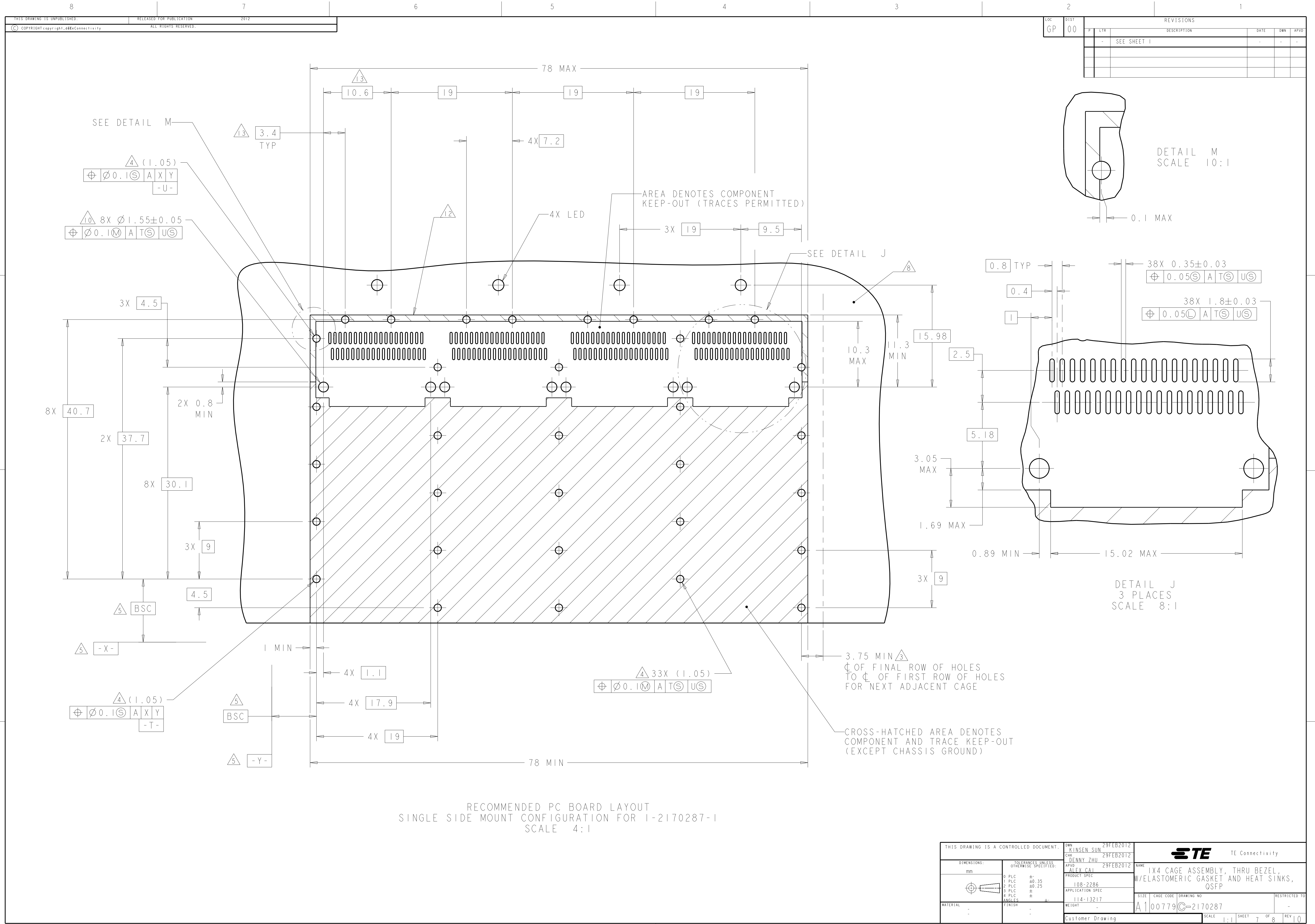


DETAIL J  
3 PLACES  
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

|                                                                                       |                                        |                                |                                                                                                       |                                                                                |
|---------------------------------------------------------------------------------------|----------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |                                        | DWN<br>KINSEN SUN<br>29FEB2012 |  TE Connectivity |                                                                                |
|                                                                                       |                                        | CHK<br>DENNY ZHU<br>29FEB2012  |                                                                                                       |                                                                                |
| DIMENSIONS:                                                                           |                                        | APVU<br>ALEX CAI<br>29FEB2012  | NAME                                                                                                  | 1X4 CAGE ASSEMBLY, THRU BEZEL,<br>W/ELASTOMERIC GASKET AND HEAT SINKS,<br>QSFP |
| mm                                                                                    | TOLERANCES UNLESS OTHERWISE SPECIFIED: | PRODUCT SPEC                   | SIZE                                                                                                  | CAGE CODE                                                                      |
|  | 0 PLC ±                                | 108-2286                       | DRAWING NO                                                                                            | RESTRICTED TO                                                                  |
|                                                                                       | 1 PLC ±0.35                            | APPLICATION SPEC               |                                                                                                       |                                                                                |
|                                                                                       | 2 PLC ±0.25                            | 114-13217                      | A1                                                                                                    | 00779C=2170287                                                                 |
|                                                                                       | 3 PLC ±                                | WEIGHT                         |                                                                                                       |                                                                                |
| 4 PLC ±                                                                               | ANGLES                                 | Customer Drawing               | SCALE                                                                                                 | 1:1                                                                            |
| MATERIAL                                                                              | FINISH                                 |                                | SHEET                                                                                                 | 6 of 8                                                                         |
| -                                                                                     | -                                      |                                | REV                                                                                                   | 1                                                                              |

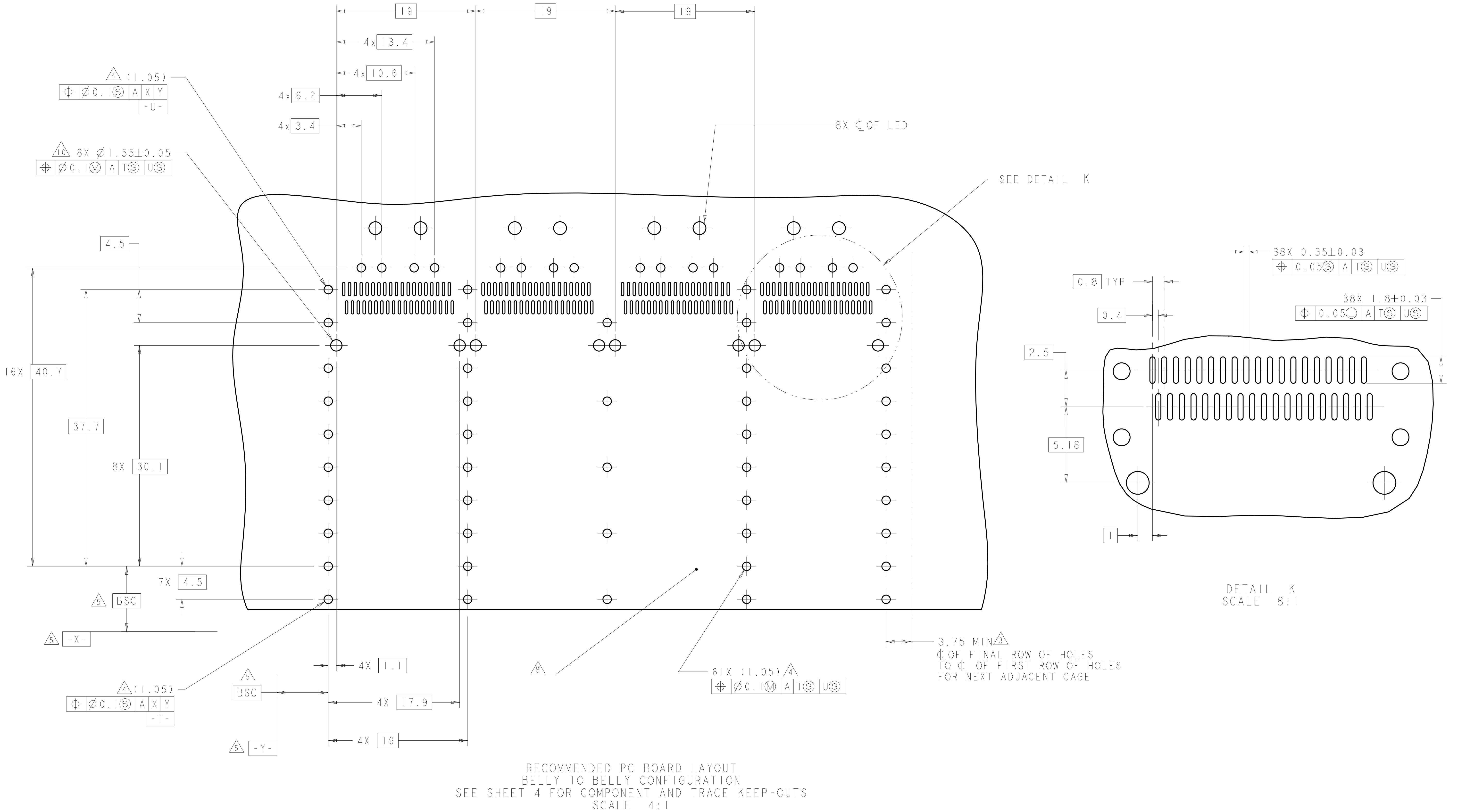




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THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

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| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                                  | DWN KINSEN SUN 29FEB2012   | TE Connectivity                                                               |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |                                                                                                  | CHK DENNY ZHU 29FEB2012    |                                                                               |
| DIMENSIONS:                            |                                                                                                  | APVD AILEY CAI 29FEB2012   | NAME 1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP |
| mm                                     | 0 PLC $\pm$ 0.35<br>1 PLC $\pm$ 0.25<br>2 PLC $\pm$ 0.25<br>3 PLC $\pm$ 0.25<br>4 PLC $\pm$ 0.25 | PRODUCT SPEC 108-2286      |                                                                               |
|                                        | ANGLES $\pm$ 0.5                                                                                 | APPLICATION SPEC 114-13217 | SIZE CAGE CODE DRAWING NO                                                     |
| MATERIAL                               | FINISH                                                                                           | WEIGHT                     | A100779C=2170287                                                              |
| Customer Drawing                       |                                                                                                  | SCALE 4:1                  | SHEET 8 OF 8 REV 10                                                           |



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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