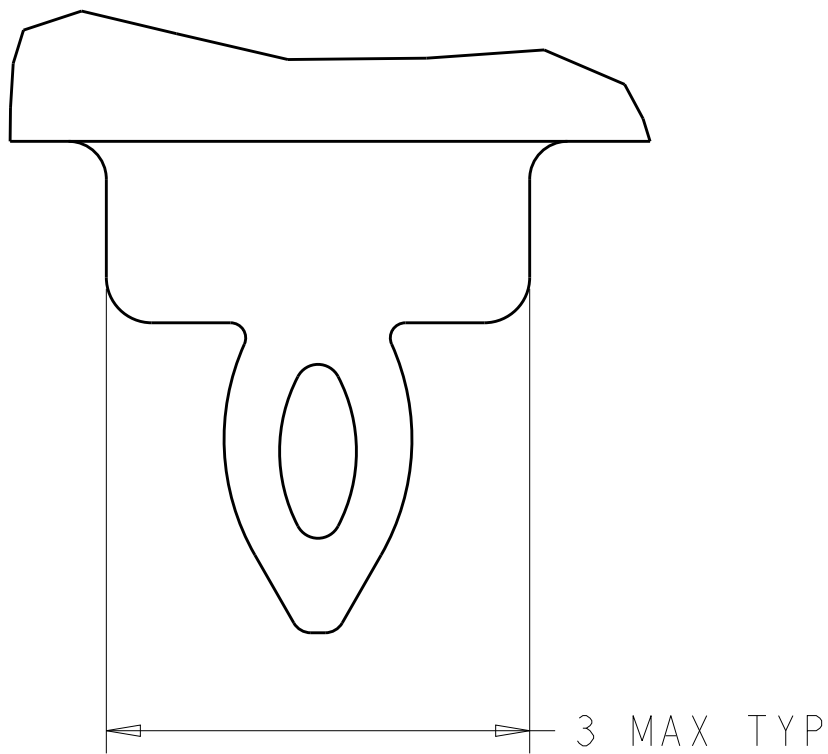
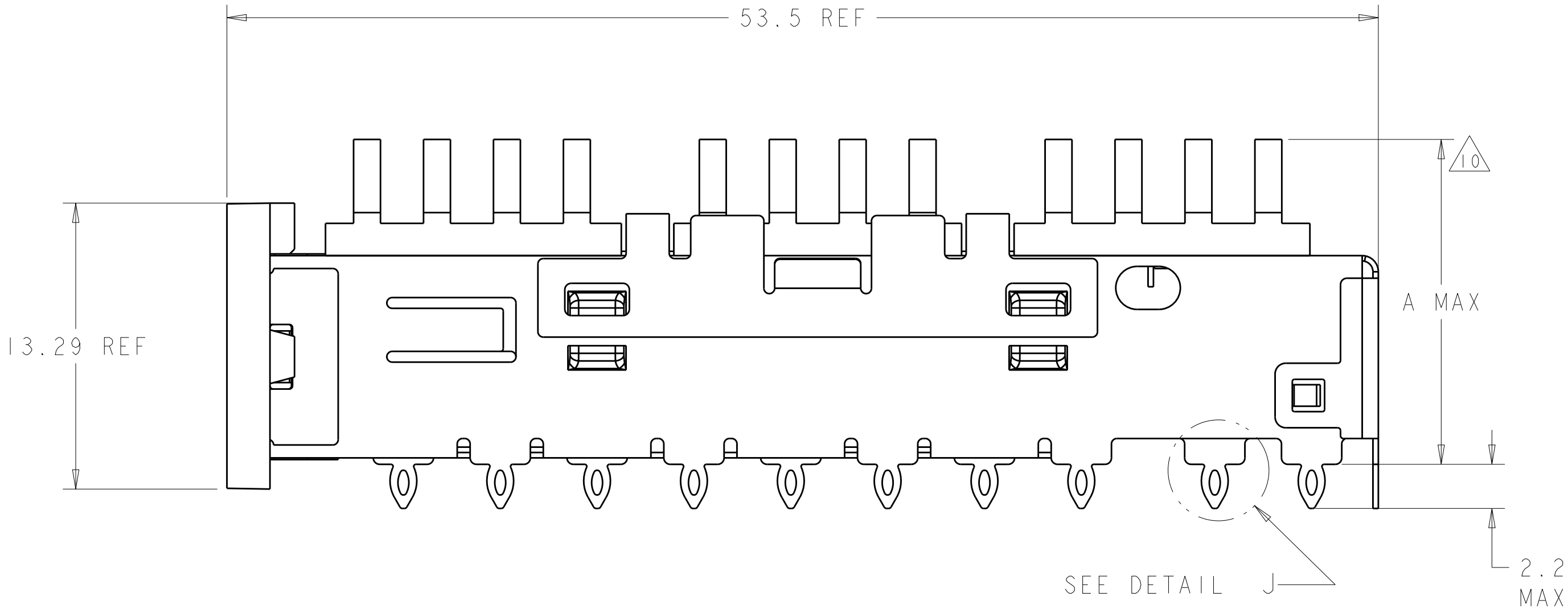
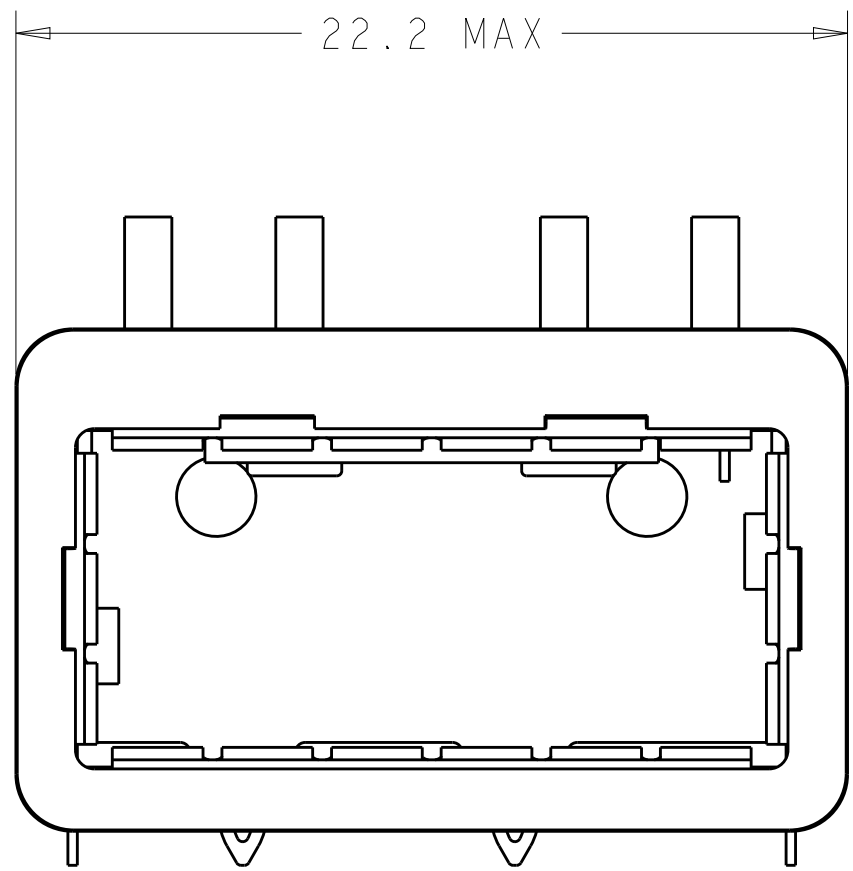
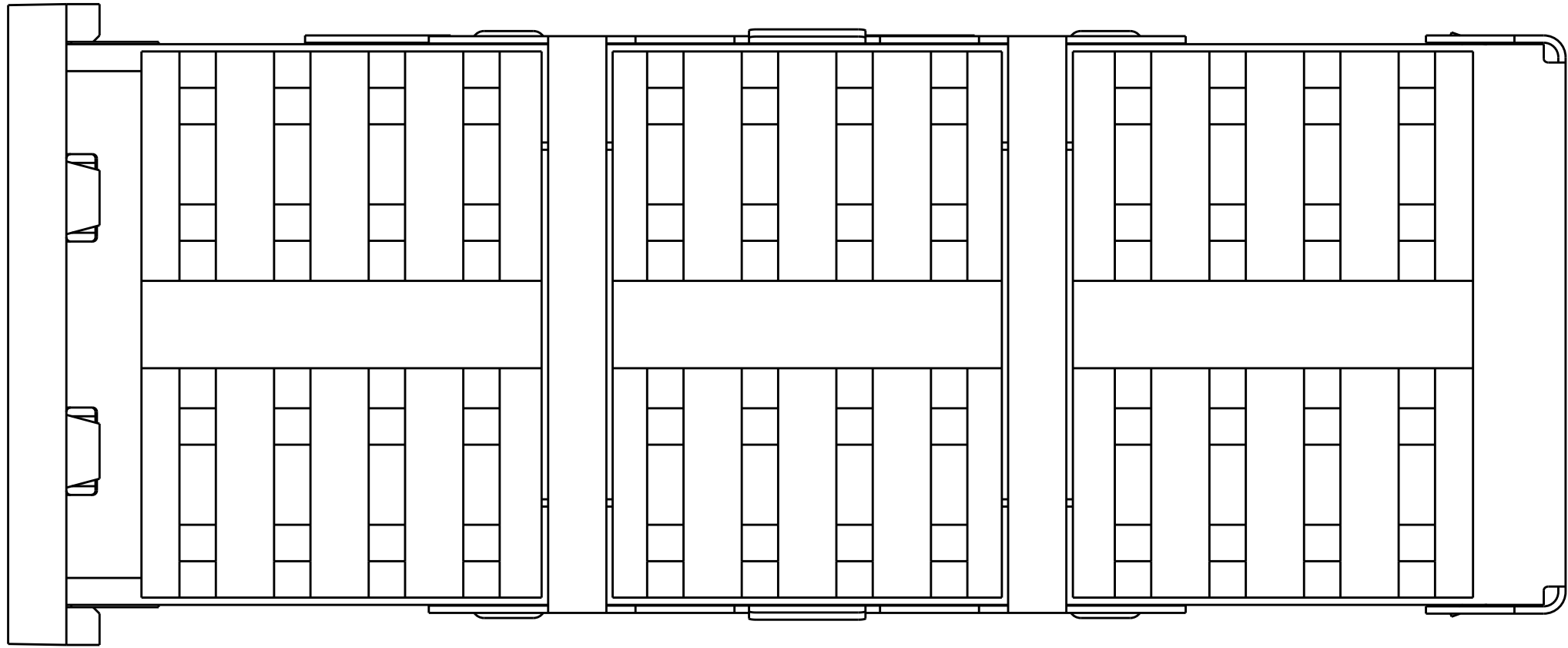
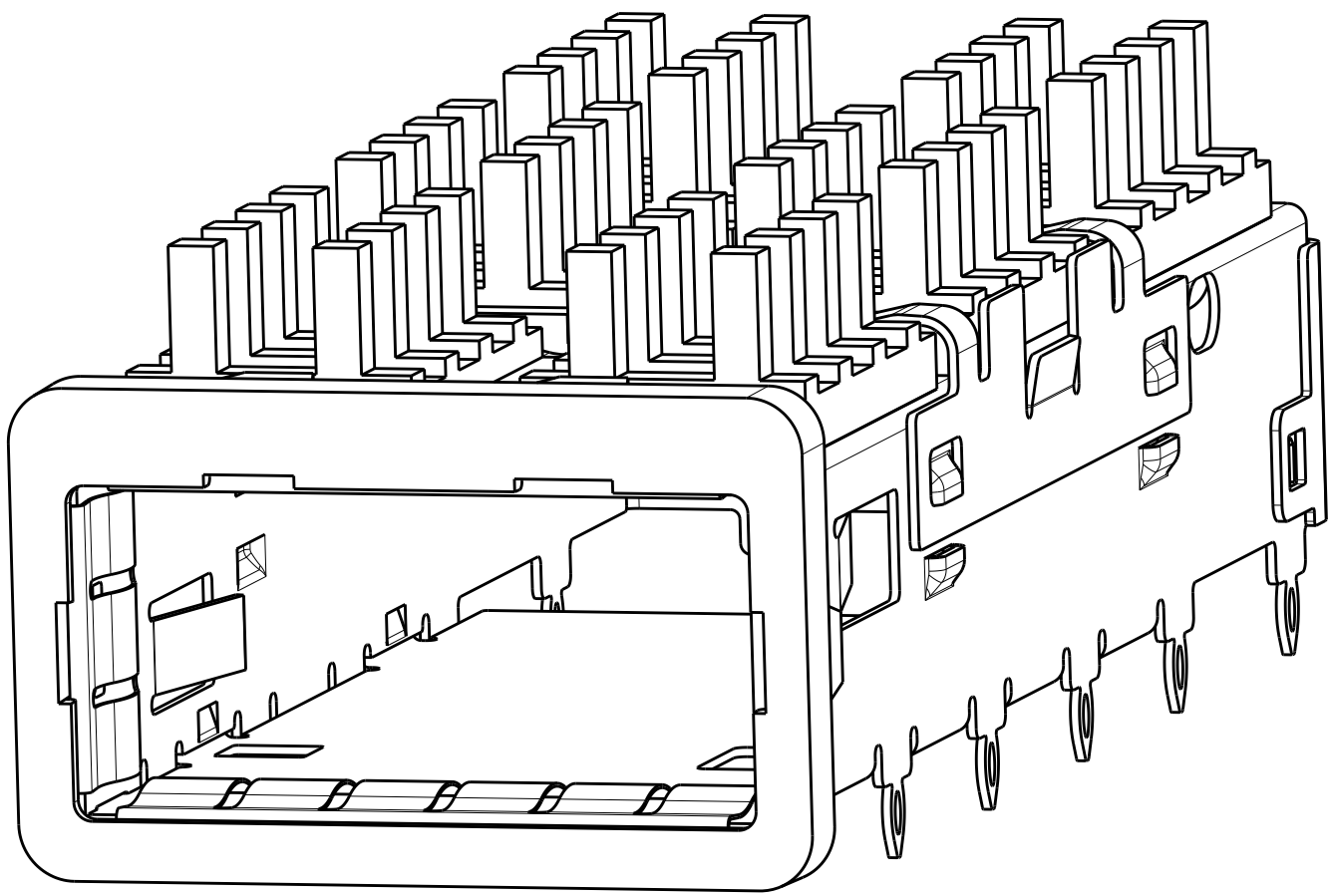
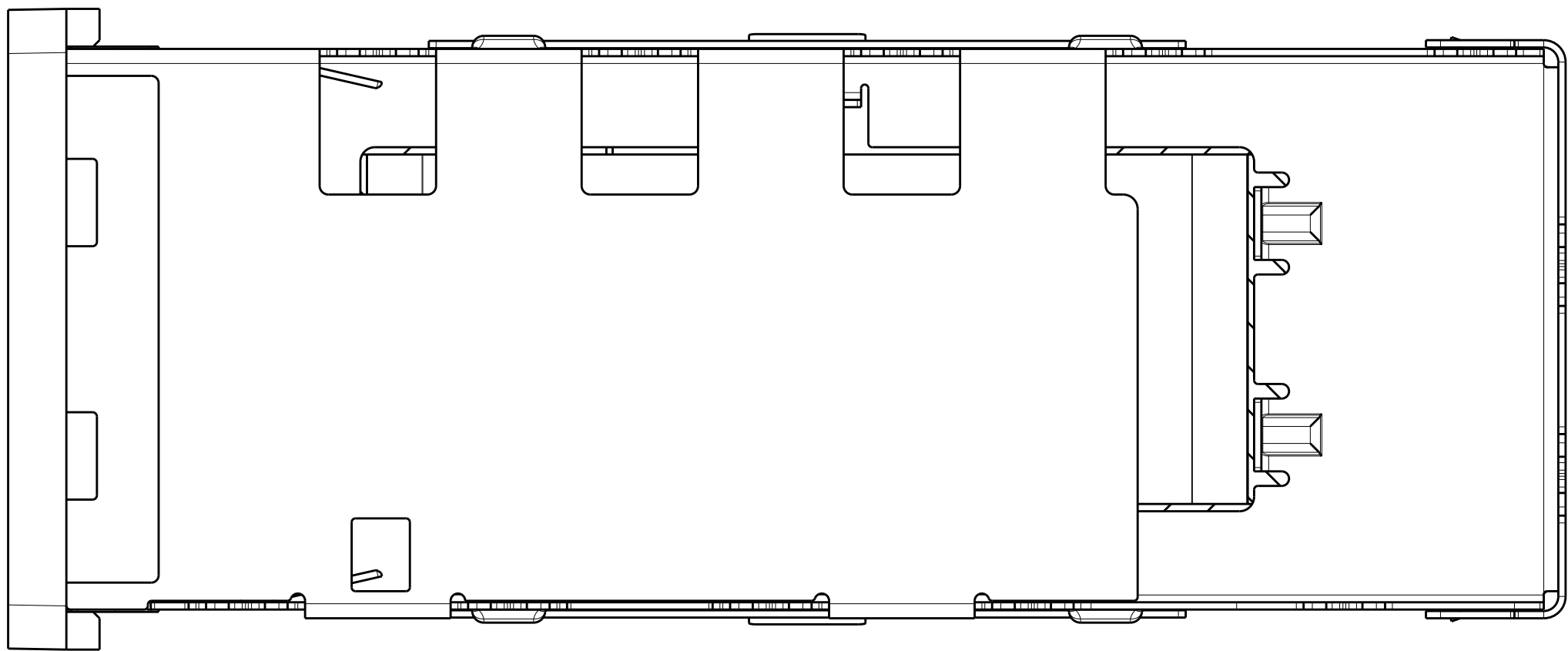
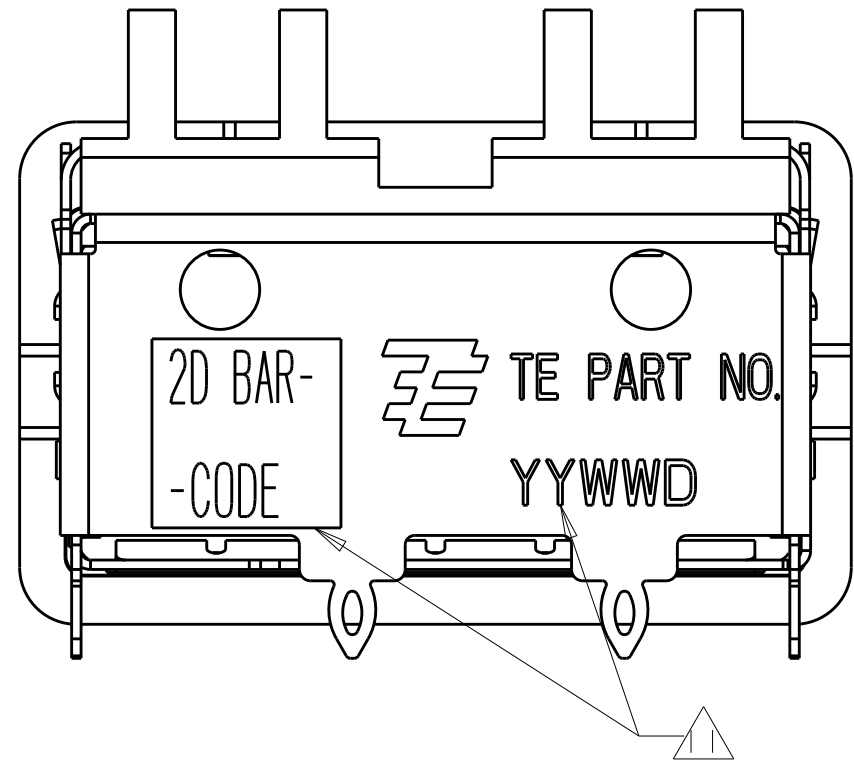




DETAIL J  
SCALE 20:1



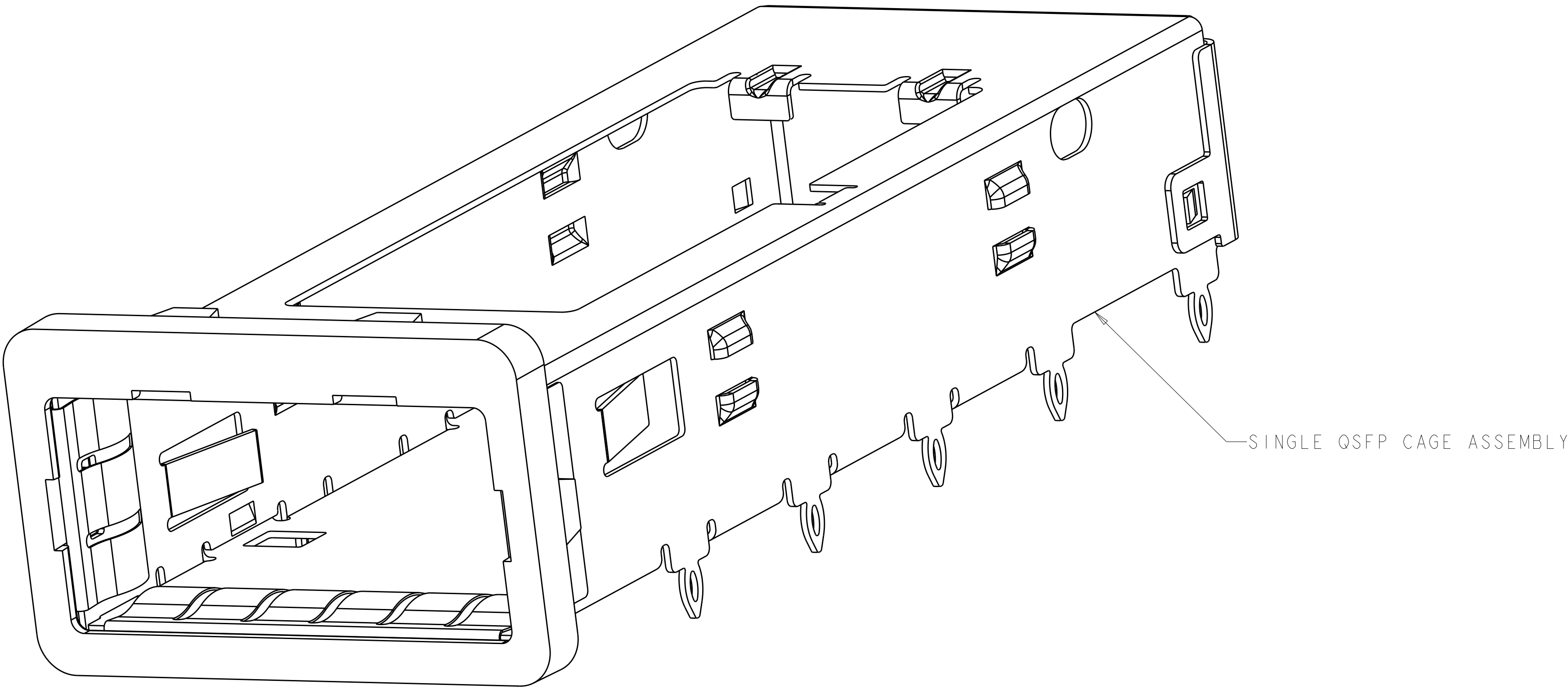
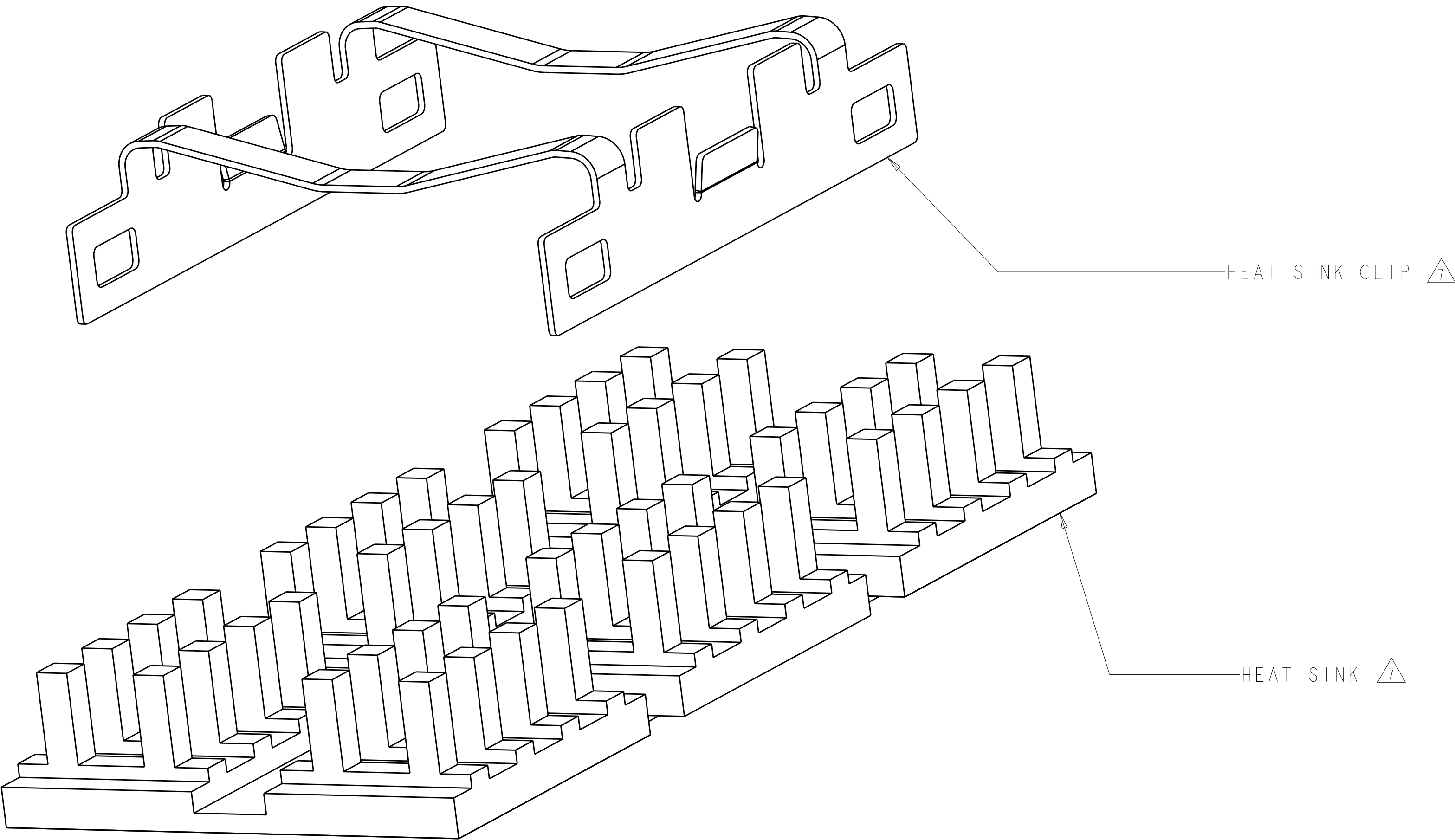
- 1 CAGE MATERIAL: NICKEL SILVER, 0.25 THICK  
HEAT SINK MATERIAL: ALUMINUM  
HEAT SINK CLIP MATERIAL: STAINLESS STEEL  
EMI SPRING MATERIAL: COPPER ALLOY  
FRONT FLANGE MATERIAL: ZINC ALLOY
- 2 MINIMUM PITCH DIMENSION.
3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 4 REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 5 DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 6 DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,  
SINGLE SIDED PC BOARD MINIMUM THICKNESS: 1.45  
DOUBLE SIDED PC BOARD MINIMUM THICKNESS: 2.7.
- 7 HEAT SINK AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY  
CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- 8 DATUM -A- IS TOP SURFACE OF HOST BOARD.
- 9 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.
- 10 DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE.
- 11 2D BARCODE AND DATE CODE (YYWW) MARKED ON BACK OF CAGE.
- 12 EMI SPRING FINISH: 2µm MIN TIN.  
FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL  
OVER 5.08µm MIN COPPER.  
HEAT SINK FINISH: 0.076µm MIN NICKEL.



|      |                       |             |
|------|-----------------------|-------------|
| 23.0 | NETWORKING HEAT SINK  | 1888968-3   |
| 16.0 | SAN HEAT SINK (SHOWN) | 1888968-2   |
| 13.7 | PCI HEAT SINK         | 1888968-1   |
| A    | DESCRIPTION           | PART NUMBER |

|                                        |  |                                                                         |                                     |                               |  |
|----------------------------------------|--|-------------------------------------------------------------------------|-------------------------------------|-------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>C. VALENTINE<br>CHK<br>E. BRIGHT<br>APVD<br>F. BRIGHT            | 19FEB2007<br>19FEB2007<br>19FEB2007 | TE Connectivity               |  |
| DIMENSIONS:                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                  |                                     | NAME                          |  |
| mm                                     |  | 0 PLC ±.5<br>1 PLC ±0.5<br>2 PLC ±0.13<br>3 PLC ±0.013<br>4 PLC ±0.0001 |                                     | PRODUCT SPEC                  |  |
|                                        |  |                                                                         |                                     | 108-2286                      |  |
|                                        |  |                                                                         |                                     | APPLICATION SPEC              |  |
|                                        |  |                                                                         |                                     | 114-13218                     |  |
| MATERIAL                               |  | FINISH                                                                  |                                     | SIZE CAGE CODE DRAWING NO     |  |
|                                        |  |                                                                         |                                     | A100779C=1888968              |  |
|                                        |  |                                                                         |                                     | RESTRICTED TO                 |  |
|                                        |  |                                                                         |                                     | -                             |  |
|                                        |  |                                                                         |                                     | SCALE 5:1 SHEET 1 OF 5 REV B1 |  |
|                                        |  |                                                                         |                                     | CUSTOMER DRAWING              |  |

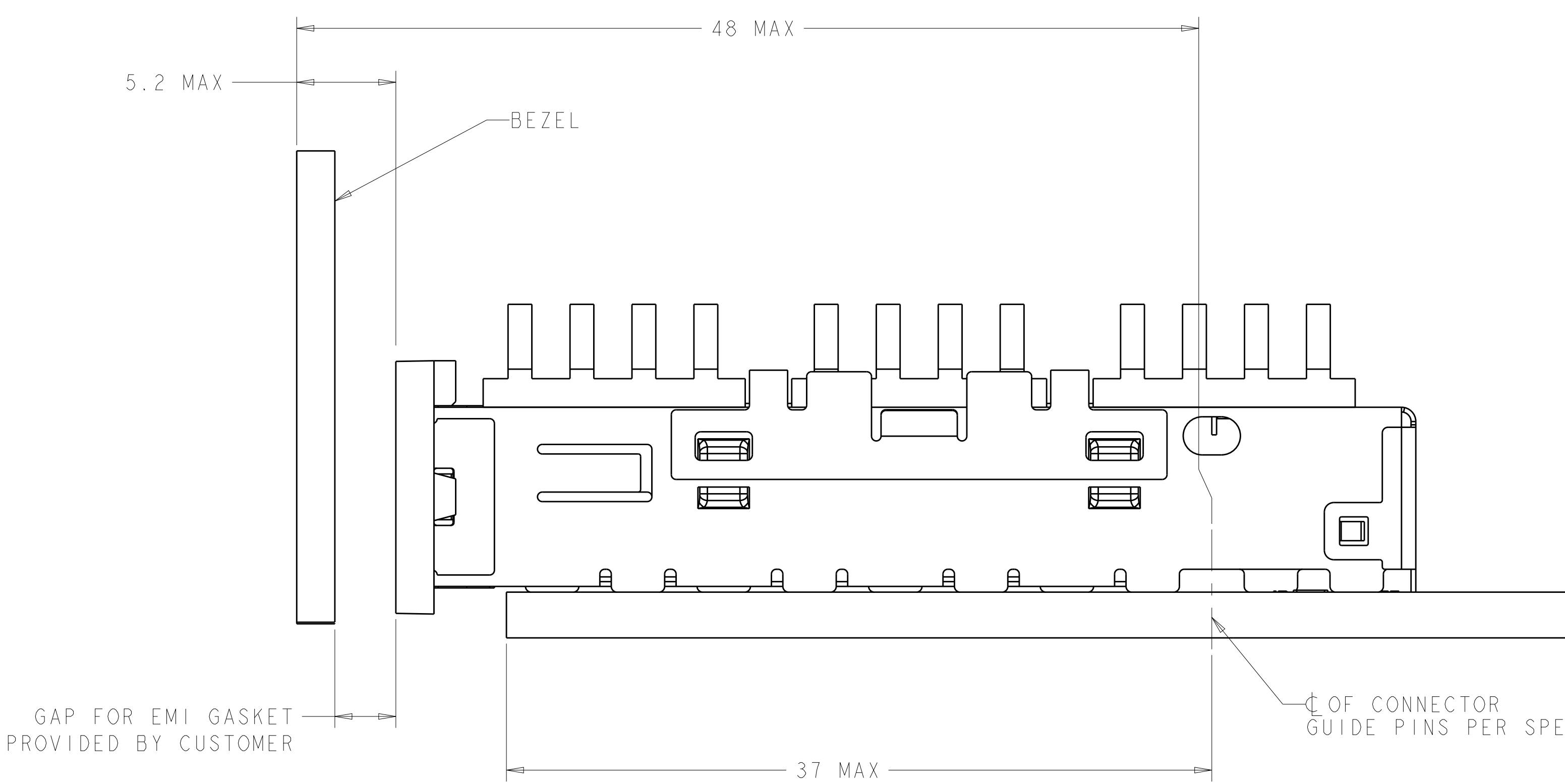
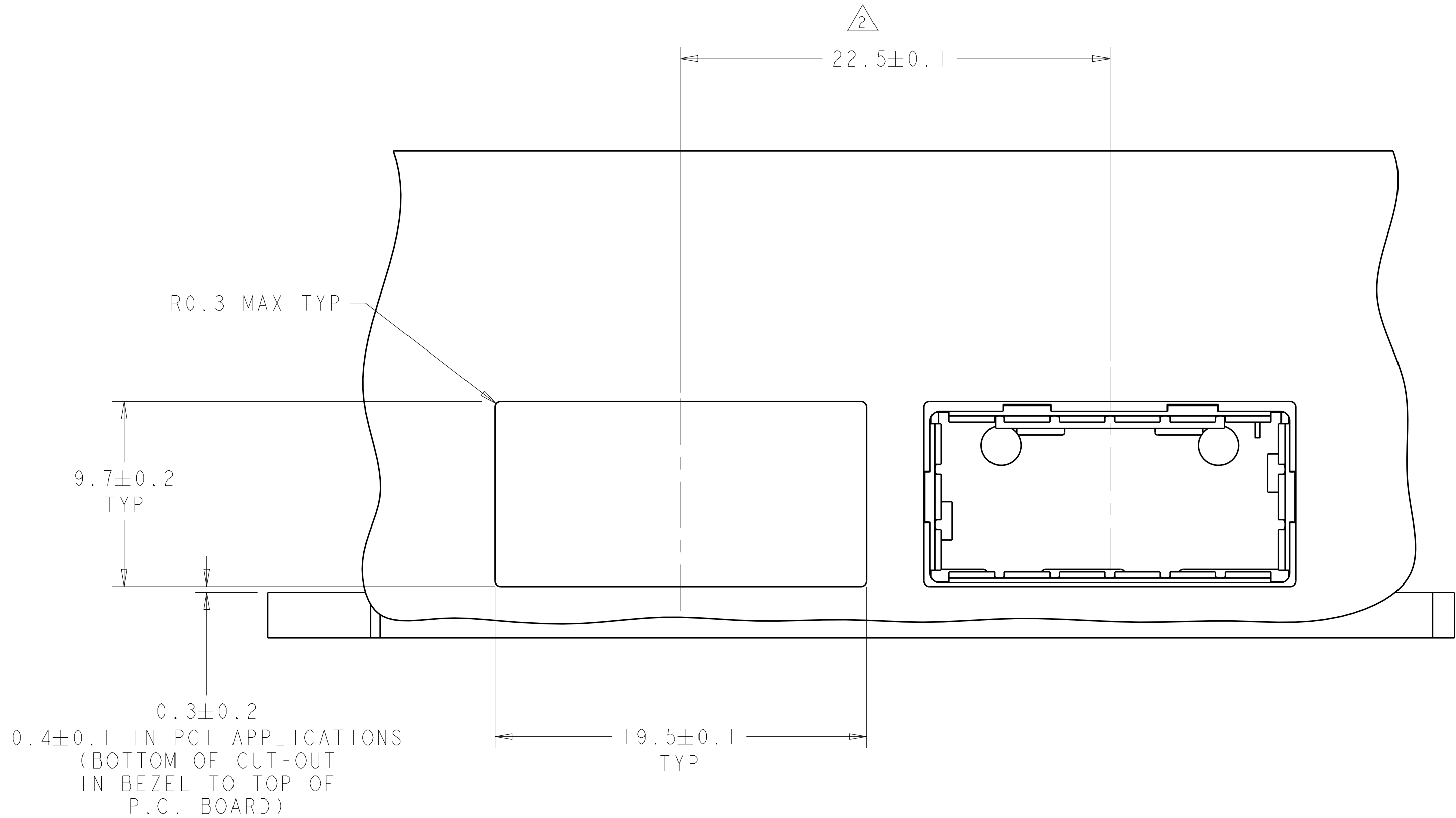
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |
|           |     |             |      |     |      |
|           |     |           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



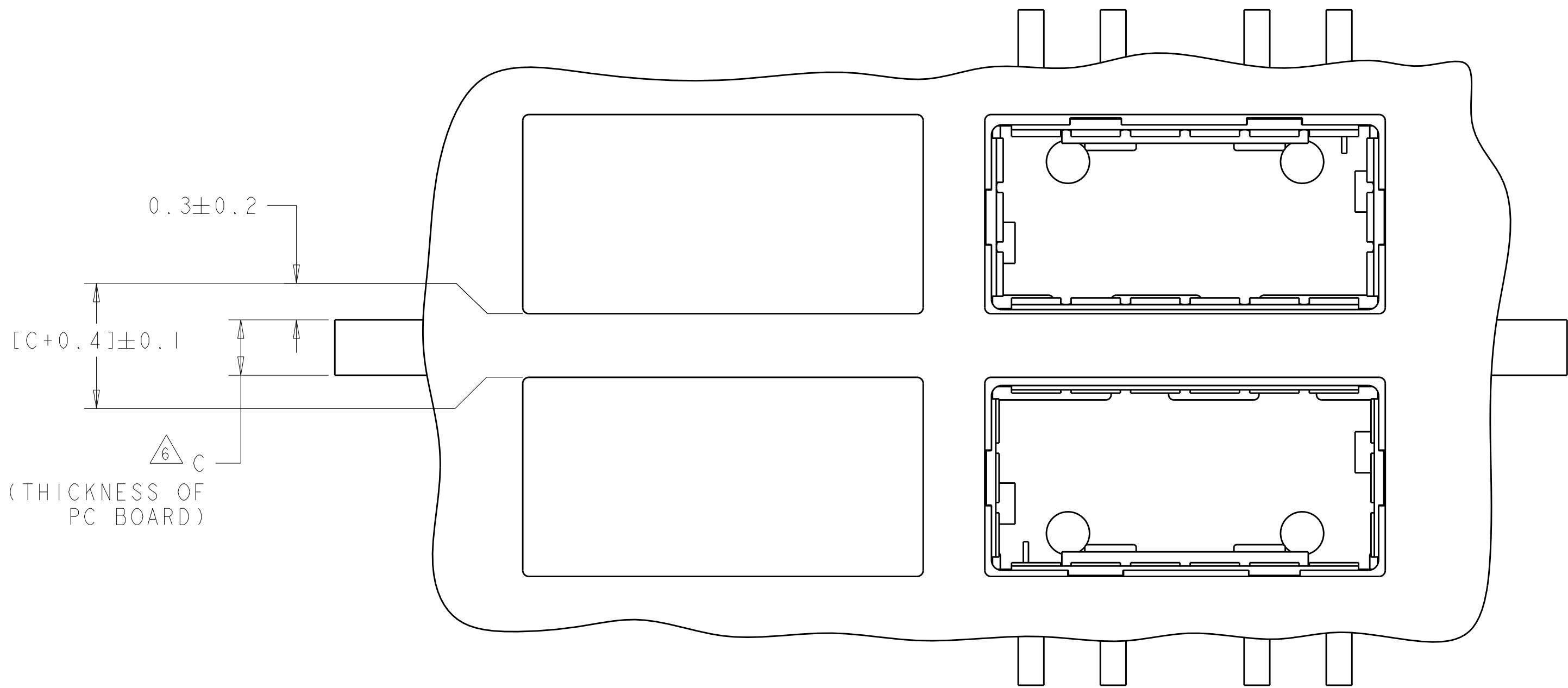
EXPLODED VIEW  
SCALE 8:1

|                                        |  |                                                                                                |                                     |                                                   |  |
|----------------------------------------|--|------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>C. VALENTINE<br>CHK<br>E. BRIGHT<br>APVD<br>F. BRIGHT                                   | 19FEB2007<br>19FEB2007<br>19FEB2007 | TE Connectivity                                   |  |
| DIMENSIONS:                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                         |                                     | NAME                                              |  |
| mm                                     |  | 0 PLC ±.5<br>1 PLC ±0.5<br>2 PLC ±0.13<br>3 PLC ±0.13<br>4 PLC ±0.0001<br>ANGLES ±.5<br>FINISH |                                     | CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK |  |
| MATERIAL                               |  | WEIGHT                                                                                         |                                     | RESTRICTED TO                                     |  |
| -                                      |  | -                                                                                              |                                     | -                                                 |  |
| -                                      |  | CUSTOMER DRAWING                                                                               |                                     | REV B1                                            |  |

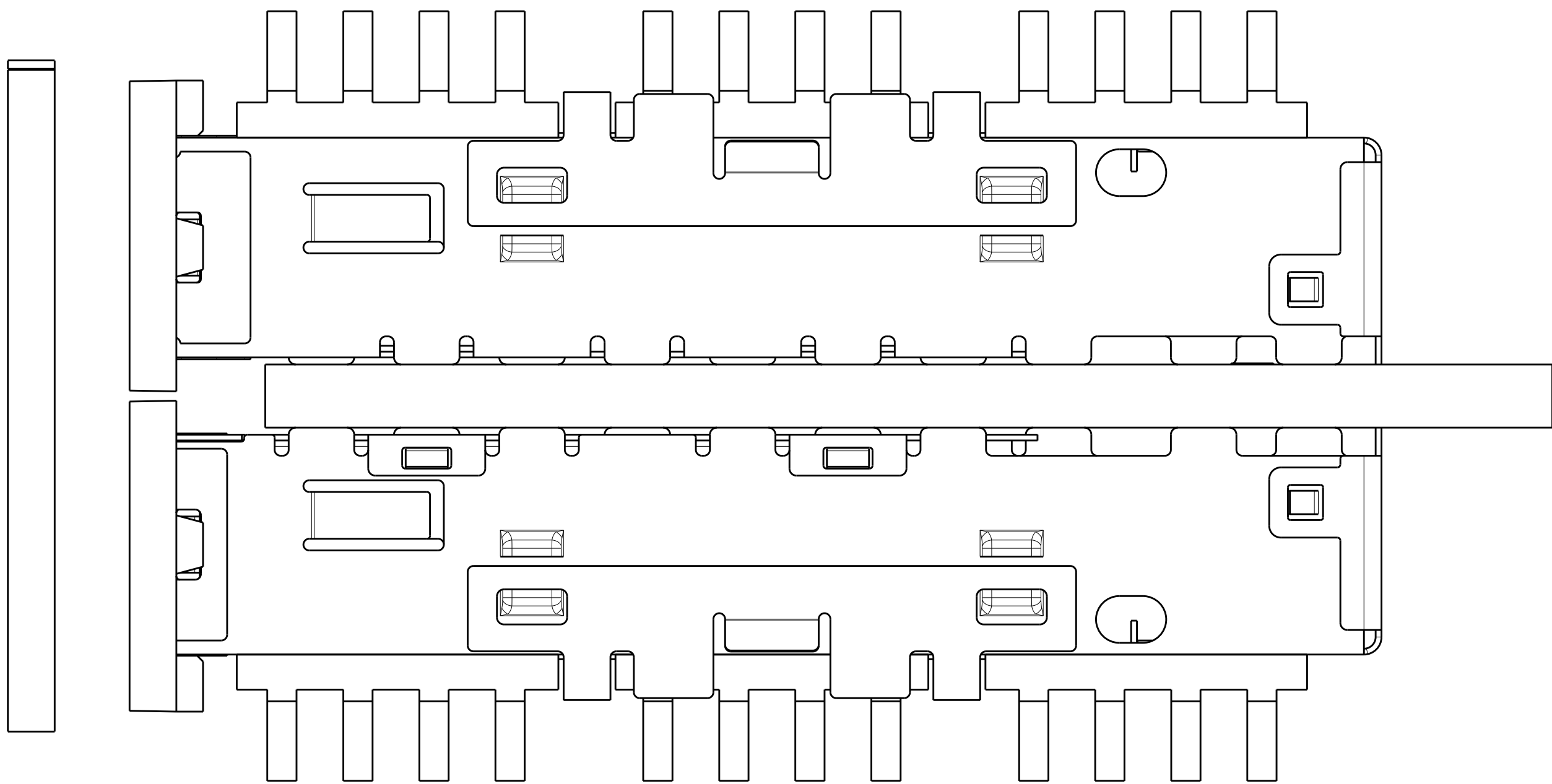
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |
|           |     |             |      |     |      |
|           |     |           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



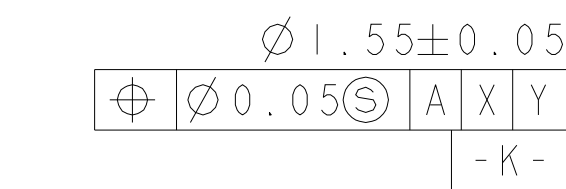
ONE SIDED CONFIGURATION

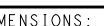


BELLY TO BELLY CONFIGURATION  
SIMILAR TO ONE SIDED EXCEPT  
WHERE NOTED

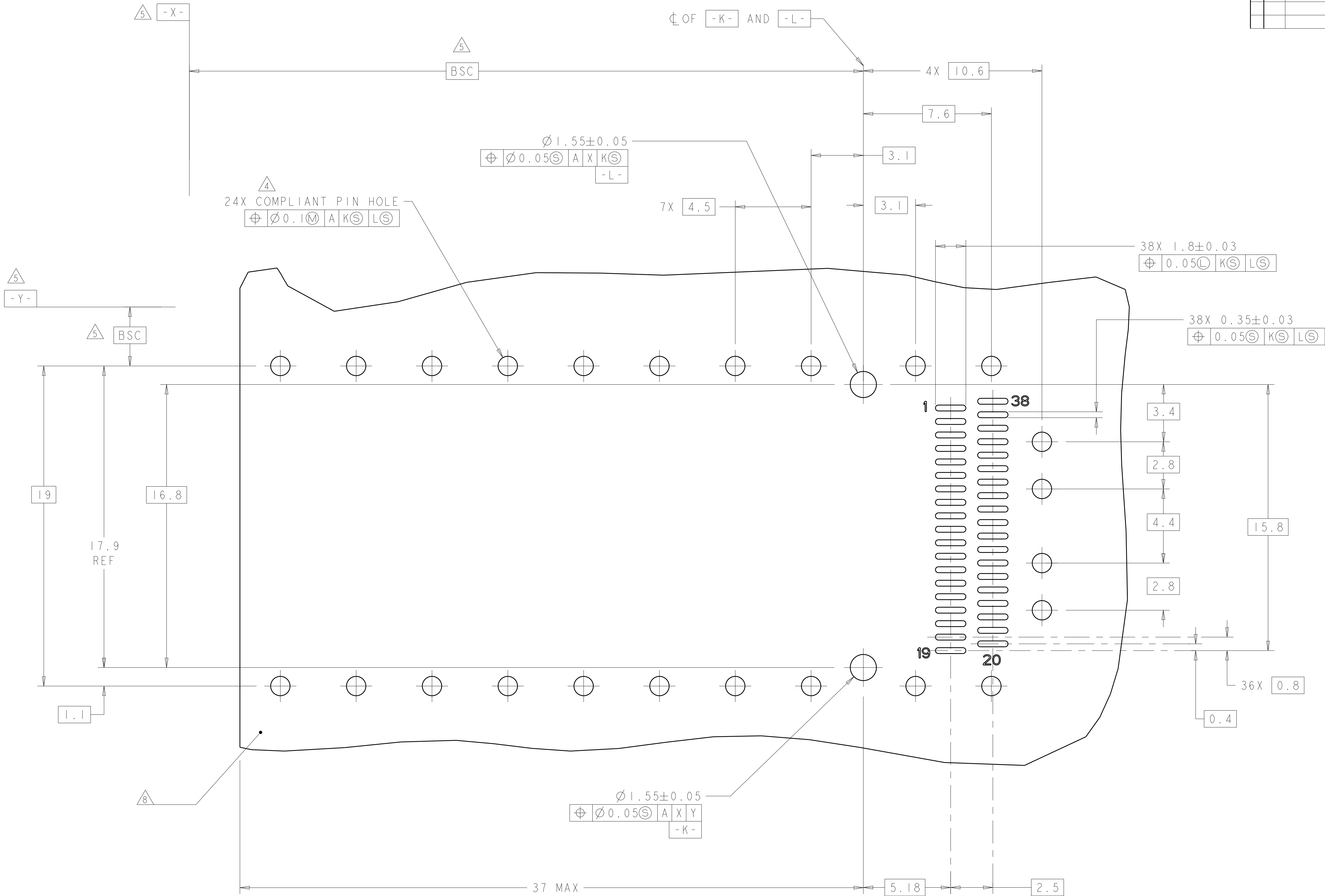


|                                        |                                        |                     |           |                      |  |
|----------------------------------------|----------------------------------------|---------------------|-----------|----------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                        | DWN<br>C. VALENTINE | 19FEB2007 | TE Connectivity      |  |
| DIMENSIONS:                            |                                        | CHK<br>E. BRIGHT    | 19FEB2007 |                      |  |
| mm                                     | TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD<br>E. BRIGHT   | 19FEB2007 | NAME                 |  |
|                                        | 0 PLC                                  | ±                   | 0.5       | PRODUCT SPEC         |  |
|                                        | 1 PLC                                  | ±                   | 0.13      | 108-2286             |  |
|                                        | 2 PLC                                  | ±                   | 0.13      | APPLICATION SPEC     |  |
|                                        | 3 PLC                                  | ±                   | 0.013     | 114-13218            |  |
|                                        | 4 PLC                                  | ±                   | 0.0001    | WEIGHT               |  |
|                                        | ANGLES                                 | ±                   |           | CUSTOMER DRAWING     |  |
| MATERIAL                               | FINISH                                 |                     |           | SIZE                 |  |
| -                                      | -                                      |                     |           | CAGE CODE DRAWING NO |  |
| -                                      | -                                      |                     |           | A100779C=1888968     |  |
|                                        |                                        |                     |           | RESTRICTED TO        |  |
|                                        |                                        |                     |           | -                    |  |
|                                        |                                        |                     |           | SCALE                |  |
|                                        |                                        |                     |           | 5:1                  |  |
|                                        |                                        |                     |           | SHEET                |  |
|                                        |                                        |                     |           | 3                    |  |
|                                        |                                        |                     |           | OF                   |  |
|                                        |                                        |                     |           | 5                    |  |
|                                        |                                        |                     |           | REV                  |  |
|                                        |                                        |                     |           | B1                   |  |



|                                                                                       |  |                                                                           |  |                                                                                                       |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN 19FEB2007<br>VALENTIN<br>CHK BRIGHT 19FEB2007<br>AFR BRIGHT 19FEB2007 |  |  TE Connectivity |  |
| DIMENSIONS:<br>mm                                                                     |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                 |  | NAME                                                                                                  |  |
|  |  | Ø PLC ±0.5<br>PLC ±0.13<br>PLC ±0.013<br>PLC ±0.001<br>ANGLES ±           |  | CAGE ASSEMBLY, BEHIND BEZEL, QSPF<br>WITH HEAT SINK<br>-                                              |  |
| MATERIAL                                                                              |  | FINISH                                                                    |  | SIZE CAGE CODE DRAWING NO<br>A100779C1888968                                                          |  |
|                                                                                       |  | WEIGHT                                                                    |  | RESTRICTED TO                                                                                         |  |
|                                                                                       |  | CUSTOMER DRAWING                                                          |  | -                                                                                                     |  |
|                                                                                       |  | SCALE 4:1                                                                 |  | SHEET 4 OF 5 REV B                                                                                    |  |

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



RECOMMENDED PCB LAYOUT  
BELLY TO BELLY CONFIGURATION  
SEE SHEET 4 FOR KEEP OUT AREAS  
SCALE 8:1

|                                        |  |                                                                                                  |                                     |                                                   |  |
|----------------------------------------|--|--------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>C. VALENTINE<br>CHK<br>E. BRIGHT<br>APVD<br>F. BRIGHT                                     | 19FEB2007<br>19FEB2007<br>19FEB2007 | TE Connectivity                                   |  |
| DIMENSIONS:                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                           |                                     | NAME                                              |  |
| mm                                     |  | 0 PLC $\pm 0.5$<br>1 PLC $\pm 0.5$<br>2 PLC $\pm 0.13$<br>3 PLC $\pm 0.013$<br>4 PLC $\pm 0.001$ |                                     | CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK |  |
|                                        |  | ANGLES $\pm 0.001$                                                                               |                                     | SIZE                                              |  |
| MATERIAL                               |  | FINISH                                                                                           |                                     | DRAWING NO                                        |  |
| -                                      |  | -                                                                                                |                                     | A100779C=1888968                                  |  |
| -                                      |  | -                                                                                                |                                     | REV                                               |  |
| CUSTOMER DRAWING                       |  | SCALE                                                                                            |                                     | SHEET                                             |  |
|                                        |  | 4:1                                                                                              |                                     | 5 of 5                                            |  |
|                                        |  |                                                                                                  |                                     | REV                                               |  |
|                                        |  |                                                                                                  |                                     | B1                                                |  |



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.