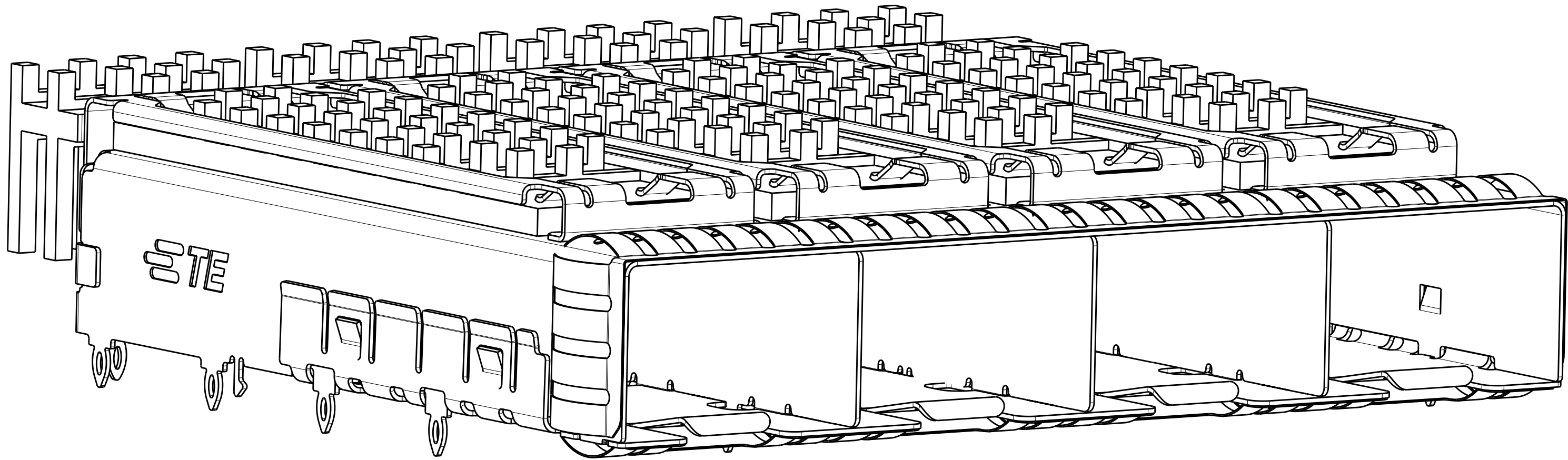
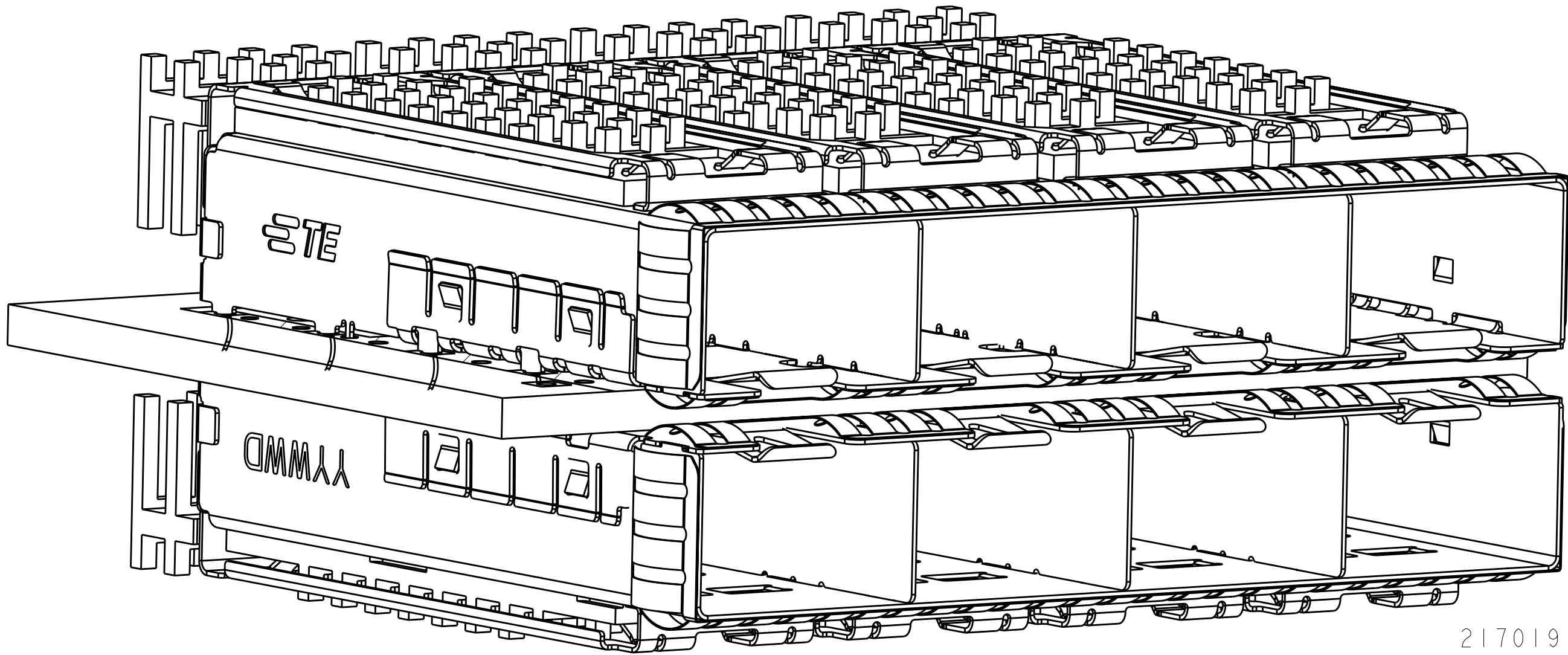
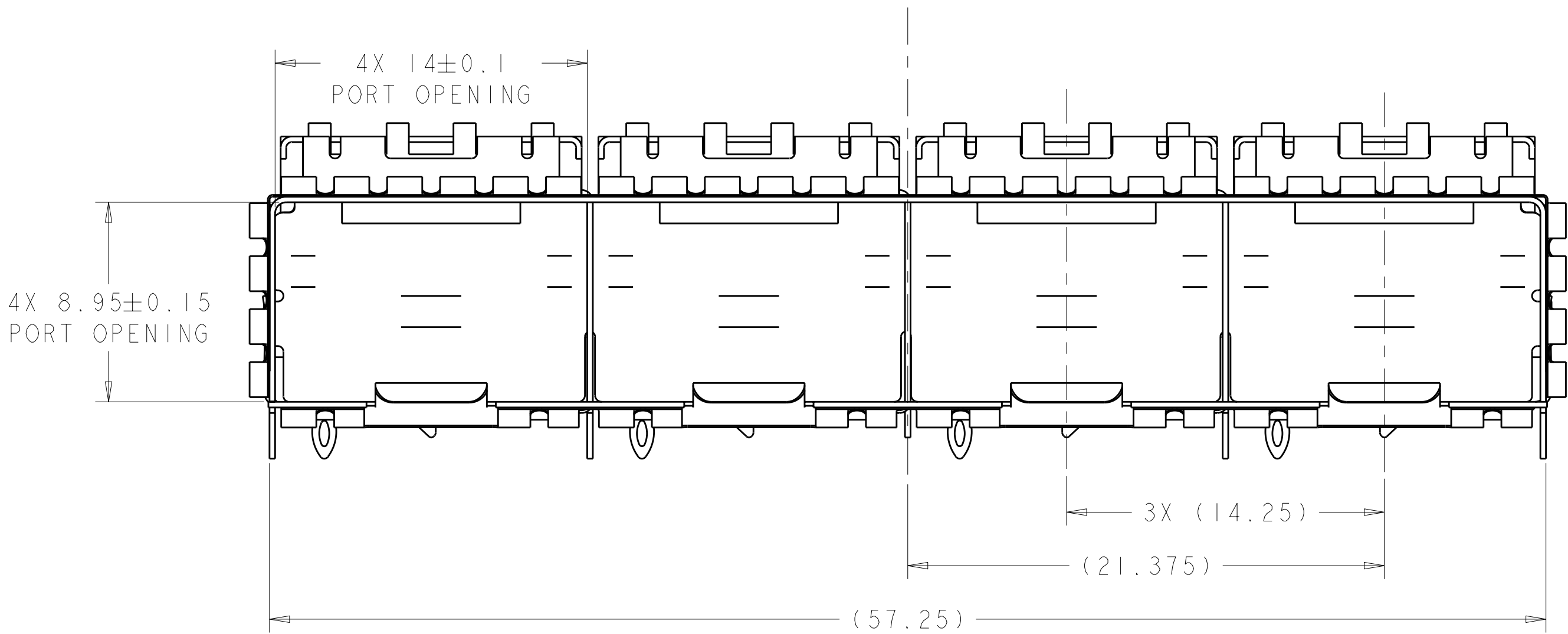
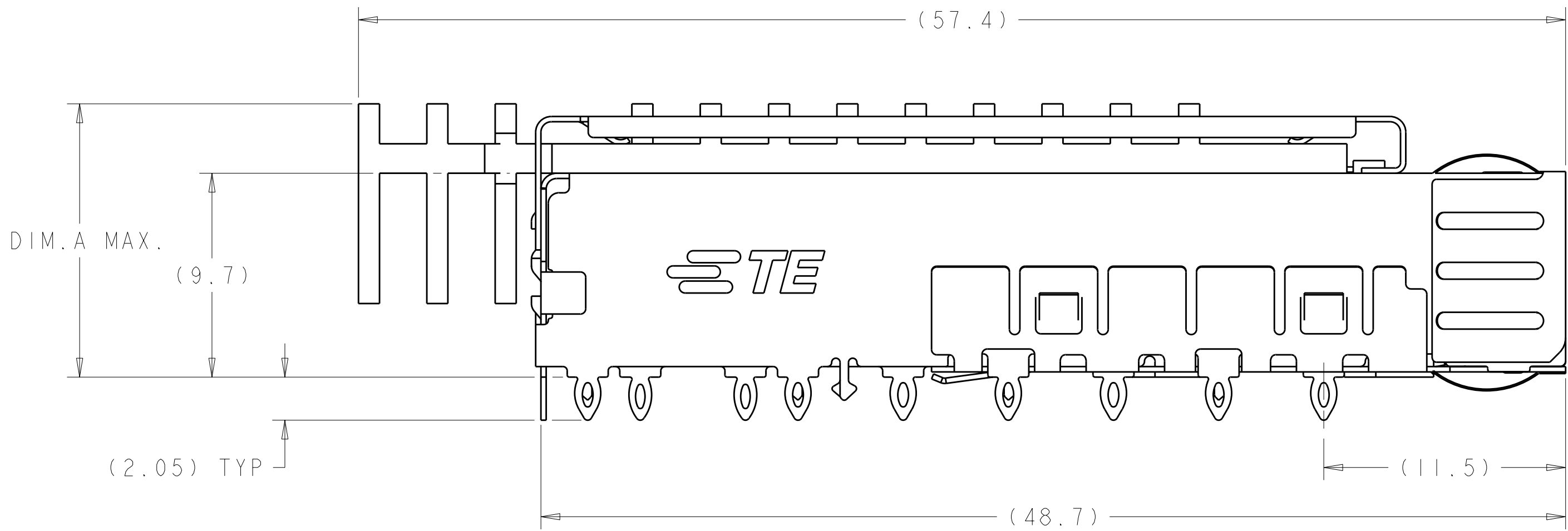


| LOC | DIST | REVISIONS |     |                     |           |     |      |
|-----|------|-----------|-----|---------------------|-----------|-----|------|
|     |      | P         | LTR | DESCRIPTION         | DATE      | DWN | APVD |
| GP  | 00   |           | 1   | PRELIMINARY RELEASE | 23NOV2011 | TX  | AC   |
|     |      |           | 2   | REVISE THE DRAWING  | 21DEC2011 | TX  | AC   |
|     |      |           |     |                     |           |     |      |
|     |      |           |     |                     |           |     |      |



2170191-1  
FINISHED ASSEMBLY

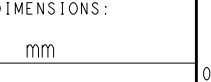


2170191-1  
MOUNTED BELLY TO BELLY ON PCB  
SCALE 4:1

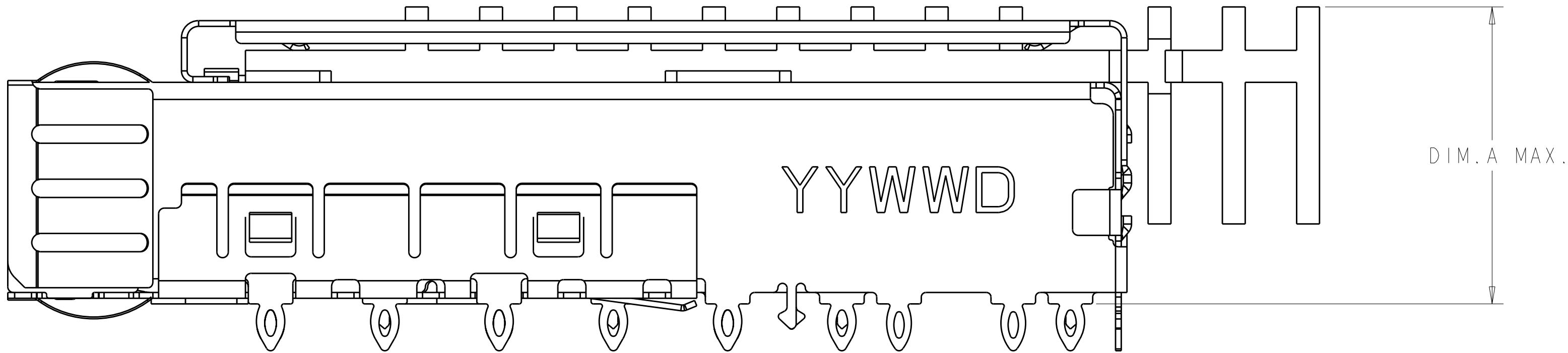
- 1 MATERIAL:  
CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY  
HEATSINK CLIP: STAINLESS STEEL  
HEATSINK: ALUMINUM
- 2 FINISH:  
SPRINGS: MINIMUM OF 0.8um TIN PLATE OVER A MINIMUM OF 0.8um NICKEL UNDERPLATE.  
NON-PLATED EDGES PERMISSIBLE.  
HEATSINK: ELECTROLESS NICKEL  
HEATSINK CLIP: PASSIVATE
- 3 PADS AND VIAS CHASSIS GROUND.
- 4 DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
5. MATES WITH SFP MSA COMPLIANT TRANSCEIVERS.
6. INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OF ASME Y14.5M-1994.
- 7 REFERENCE APPLICATION SPEC. 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 8 REFERENCE APPLICATION SPEC. 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 9 HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 14.25mm.
- 10 MINIMUM PC BOARD THICKNESS:  
SINGLE SIDED = 1.50  
DOUBLE SIDED = 2.25
11. CERTAIN MATING TRANSCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD BE DETERMINED BY THE CUSTOMER.
12. PRODUCT COMPLIES WITH SPECIFICATION SFF-8433 IMPROVED PLUGGABLE FROM FACTOR FOR SFP+ GANGED CAGES.
- 13 DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE

|       |                                 |             |
|-------|---------------------------------|-------------|
| 20.2  | HEAT SINK W/ THE FIRST ROW PIN  | 2170191-2   |
| 13    | HEAT SINK W/O THE FIRST ROW PIN | 2170191-1   |
| A MAX | DESCRIPTION                     | PART NUMBER |

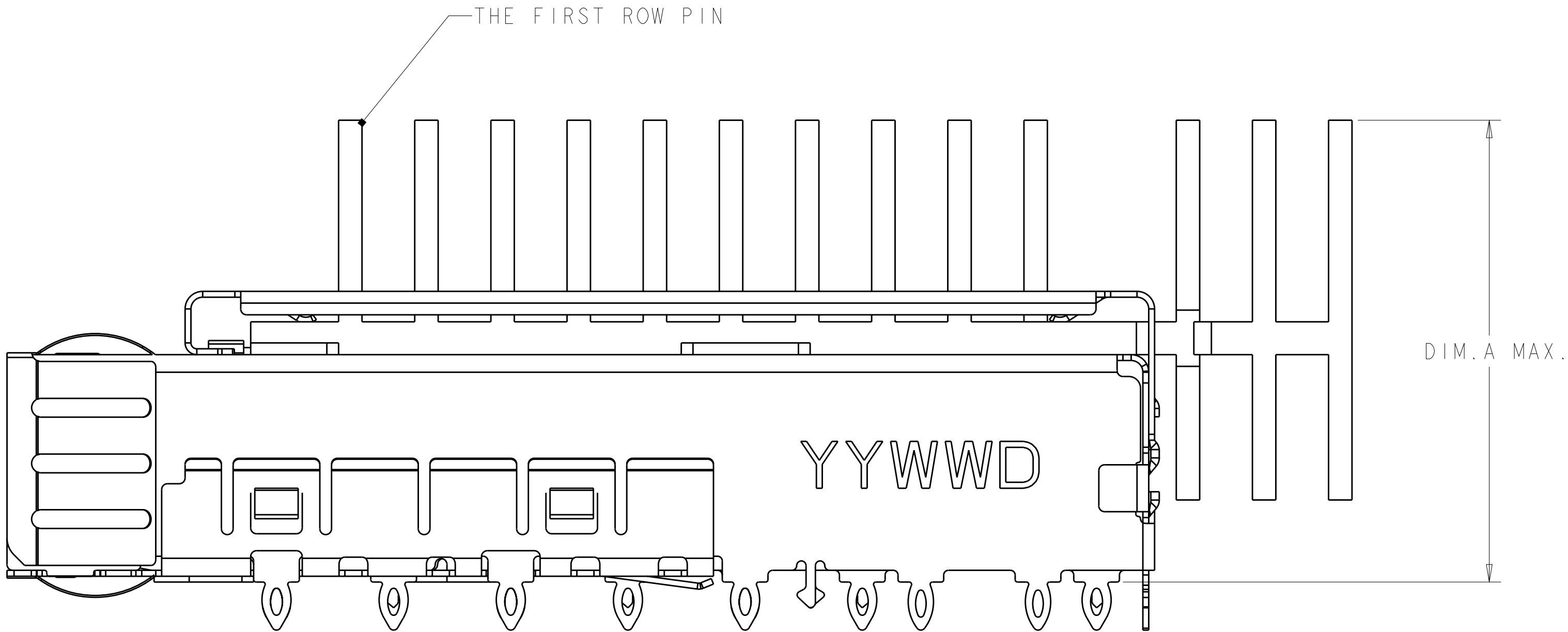
THIS PRINT IS  
**PRELIMINARY**  
UNQUALIFIED PRODUCT  
CONTACT PRODUCT ENGINEERING  
BEFORE USING THIS PRINT

|                                                                                                                                                      |  |                                                                                       |  |                                                                                                       |  |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                                                               |  | OWN<br>TIM YUE<br>23NOV2011                                                           |  |  TE CONNECTIVITY |  |                    |
| <div>DIMENSIONS:</div> <div>mm</div>                            |  | CHK<br>ALEX CAI<br>23NOV2011                                                          |  |                                                                                                       |  | NAME               |
|                                                                                                                                                      |  | APVD<br>ALEX CAI                                                                      |  |                                                                                                       |  |                    |
|                                                                                                                                                      |  | PRODUCT SPEC                                                                          |  |                                                                                                       |  |                    |
| <div>TOLERANCES UNLESS OTHERWISE SPECIFIED:</div> <div>9 PLC ±0.1<br/>1 PLC ±0.1<br/>2 PLC ±0.1<br/>3 PLC ±0.1<br/>4 PLC ±0.1<br/>ANGLES ±1°0'</div> |  | 108-2364                                                                              |  | SFP+ ENHANCED IX4 CAGE ASSEMBLY<br>PRESS FIT, EXTERNAL EMI SPRINGS<br>WITH HEATSINK                   |  |                    |
|                                                                                                                                                      |  | APPLICATION SPEC                                                                      |  |                                                                                                       |  |                    |
|                                                                                                                                                      |  | 114-13120                                                                             |  |                                                                                                       |  |                    |
| MATERIAL                                                                                                                                             |  | FINISH                                                                                |  | SIZE CAGE CODE DRAWING NO                                                                             |  | RESTRICTED TO      |
|                                                                 |  |  |  | A100779C=2170191                                                                                      |  | -                  |
| CUSTOMER DRAWING                                                                                                                                     |  |                                                                                       |  | SCALE 5:1                                                                                             |  | SHEET 1 OF 5 REV 2 |

| LOC |  | DIST |  | REVISIONS |     |             |      |     |      |
|-----|--|------|--|-----------|-----|-------------|------|-----|------|
| GP  |  | 00   |  | REV       | LYR | DESCRIPTION | DATE | DWN | APVD |
|     |  |      |  | -         | -   | SEE SHEET 1 | -    | -   | -    |
|     |  |      |  |           |     |             |      |     |      |
|     |  |      |  |           |     |             |      |     |      |



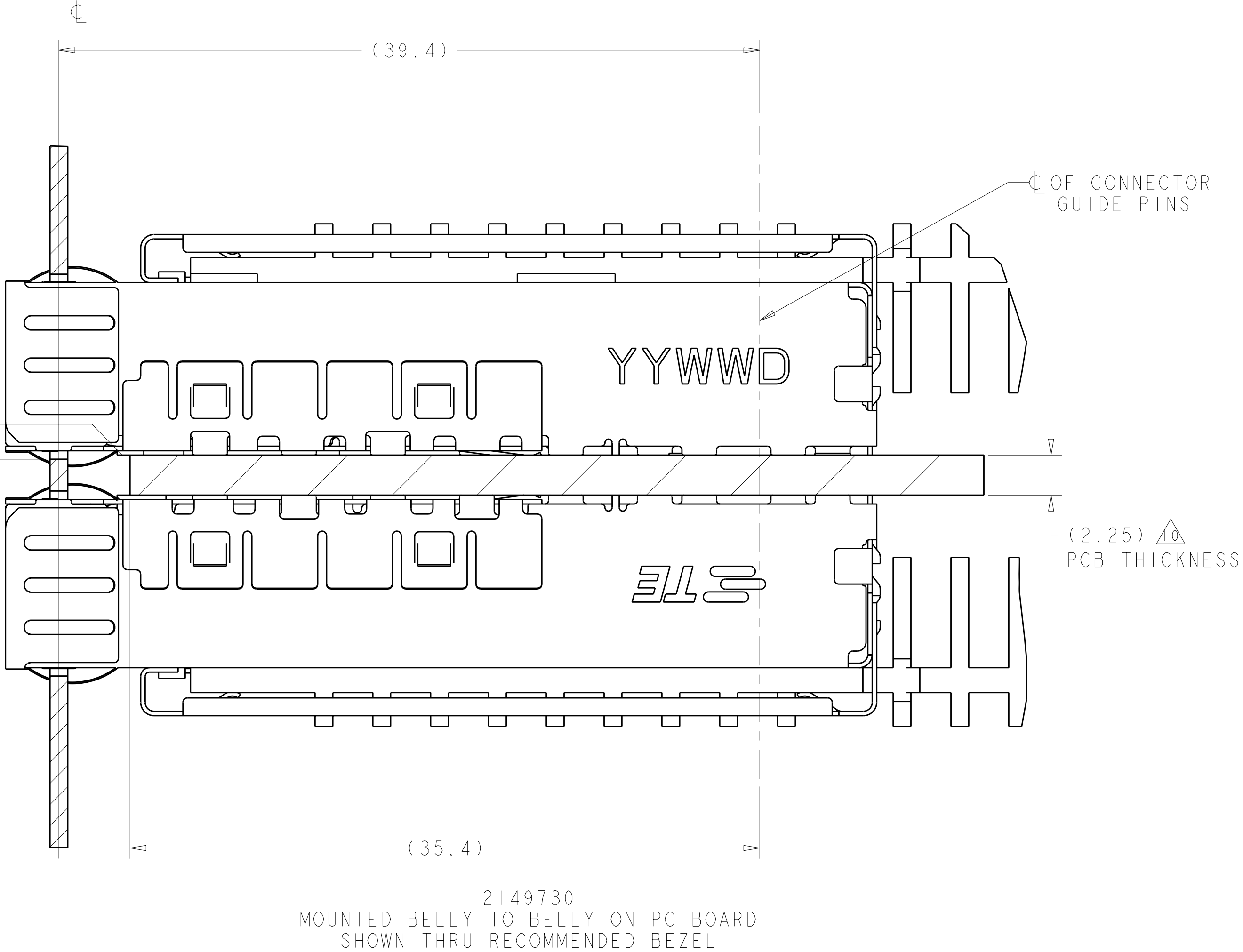
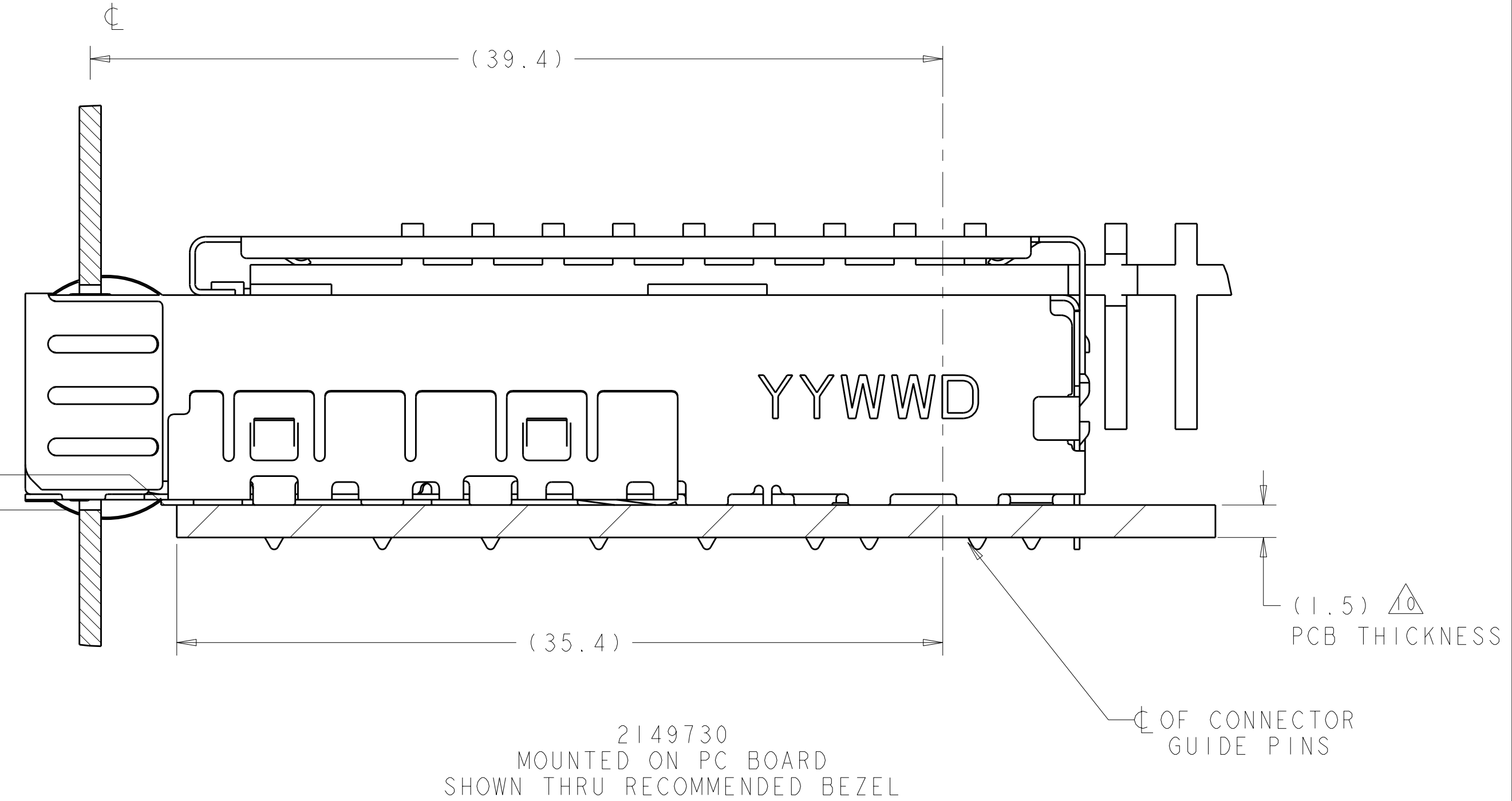
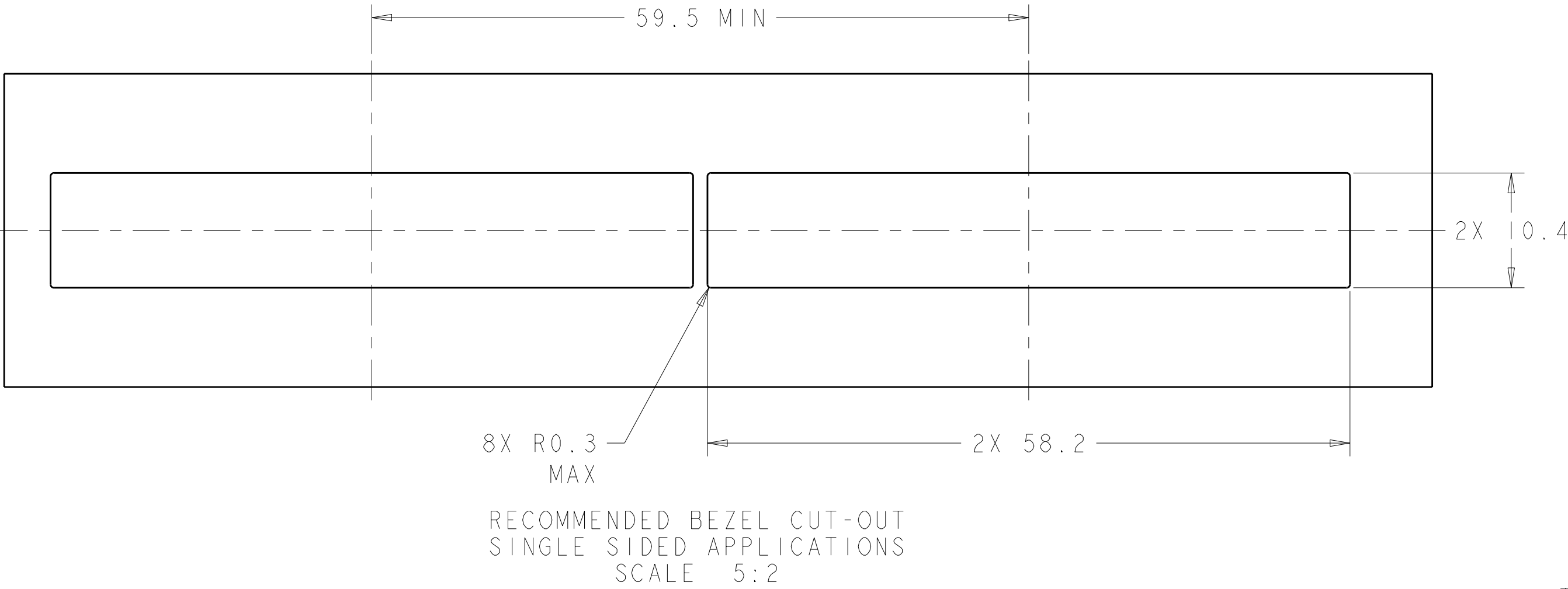
2170191-1 AS SHOWN  
HEAT SINK W/O THE FIRST ROW PIN



2170191-2 AS SHOWN

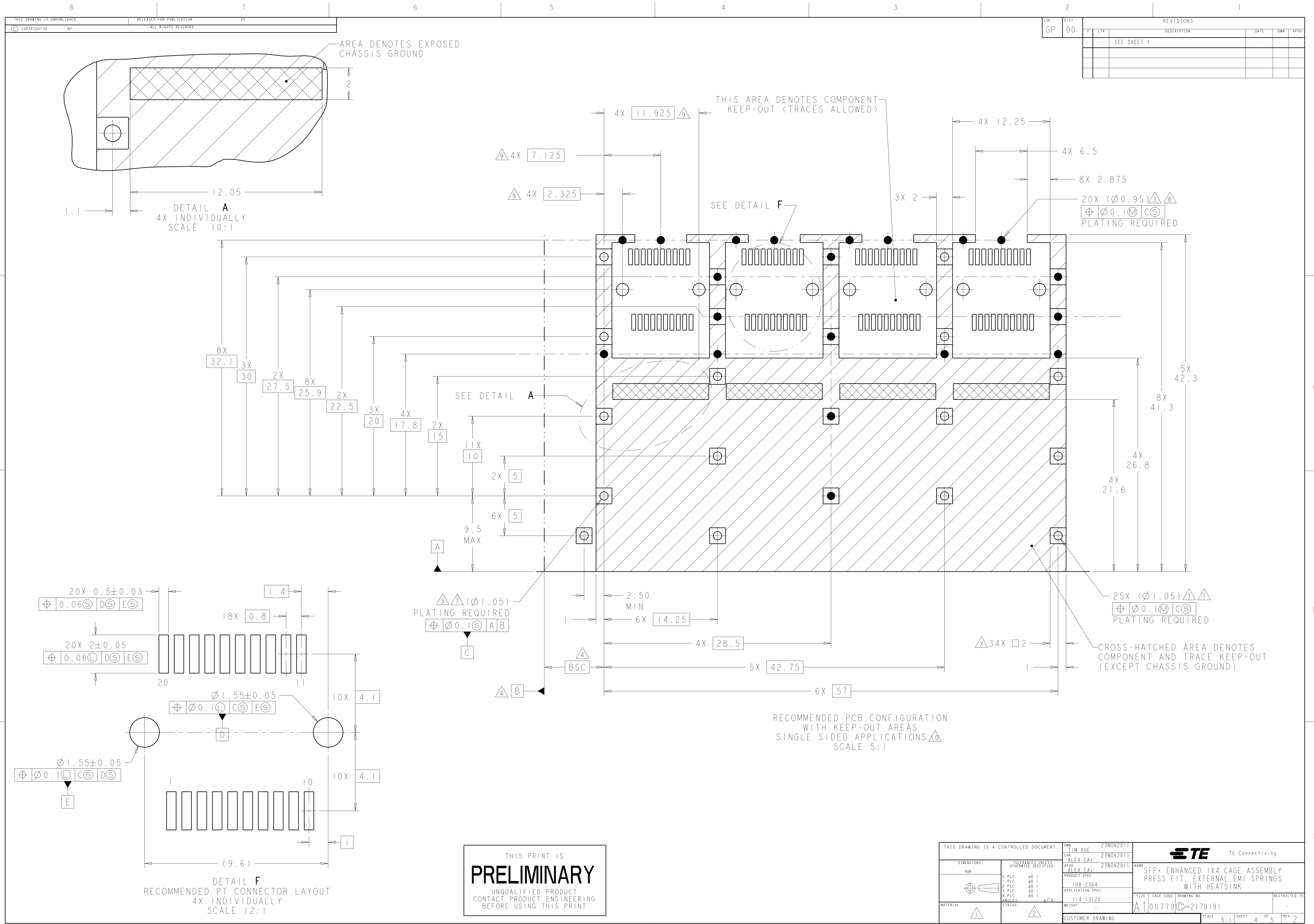
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|----------------------------------------|--|--|--|------------------|----------|--|-----------|--|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  |  |  | DWN              | TIM XUE  |  | 23NOV2011 |  |  TE Connectivity |  |
|                                        |  |  |  | CHK              | ALEX CAI |  | 23NOV2011 |  |                                                                                                       |  |
|                                        |  |  |  | APVD             | ALEX CAI |  | 23NOV2011 |  | NAME<br>SFP+ ENHANCED 1X4 CAGE ASSEMBLY<br>PRESS FIT, EXTERNAL EMI SPRINGS<br>WITH HEATSINK           |  |
|                                        |  |  |  | PRODUCT SPEC     |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  | 108-2364         |          |  |           |  | SIZE                                                                                                  |  |
|                                        |  |  |  | APPLICATION SPEC |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  | 114-13120        |          |  |           |  | CAGE CODE                                                                                             |  |
|                                        |  |  |  | WEIGHT           |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  | CUSTOMER DRAWING |          |  |           |  | DRAWING NO                                                                                            |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | RESTRICTED TO                                                                                         |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | SCALE                                                                                                 |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | SHEET                                                                                                 |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | OF                                                                                                    |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | REV                                                                                                   |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |
|                                        |  |  |  |                  |          |  |           |  | 2                                                                                                     |  |
|                                        |  |  |  |                  |          |  |           |  |                                                                                                       |  |

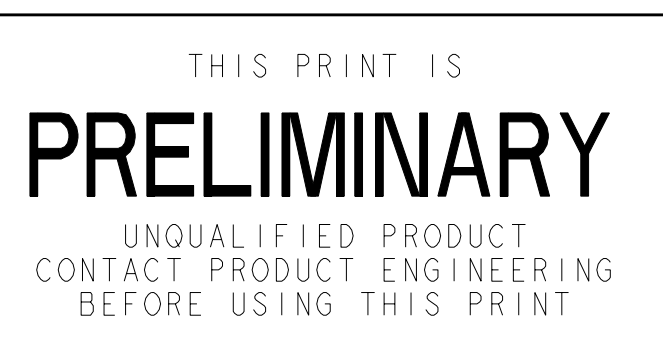
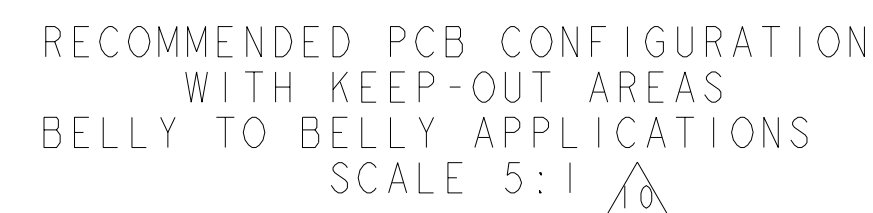
| LOC |    | DIST |     | REVISIONS   |      |     |      |  |  |
|-----|----|------|-----|-------------|------|-----|------|--|--|
| GP  | 00 | REV  | LYR | DESCRIPTION | DATE | DWN | APVD |  |  |
|     |    | -    | -   | SEE SHEET 1 | -    | -   | -    |  |  |
|     |    |      |     |             |      |     |      |  |  |
|     |    |      |     |             |      |     |      |  |  |
|     |    |      |     |             |      |     |      |  |  |



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CONTACT PRODUCT ENGINEERING  
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|                                        |  |                  |          |           |                                                                                                       |  |  |  |
|----------------------------------------|--|------------------|----------|-----------|-------------------------------------------------------------------------------------------------------|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN              | TIM XUE  | 23NOV2011 |  TE Connectivity |  |  |  |
| DIMENSIONS:                            |  | CHK              | ALEX CAI | 23NOV2011 |                                                                                                       |  |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | APVD             | ALEX CAI | 23NOV2011 | NAME                                                                                                  |  |  |  |
| mm                                     |  | PRODUCT SPEC     |          |           | SFP+ ENHANCED 1X4 CAGE ASSEMBLY                                                                       |  |  |  |
| 9 PLC                                  |  | 108-2364         |          |           | PRESS FIT, EXTERNAL EMI SPRINGS                                                                       |  |  |  |
| 1 PLC                                  |  | APPLICATION SPEC |          |           | WITH HEATSINK                                                                                         |  |  |  |
| 2 PLC                                  |  | 114-13120        |          |           | SIZE                                                                                                  |  |  |  |
| 3 PLC                                  |  | WEIGHT           |          |           | A100779C-2170191                                                                                      |  |  |  |
| 4 PLC                                  |  | CUSTOMER DRAWING |          |           | RESTRICTED TO                                                                                         |  |  |  |
| ANGLES                                 |  | SCALE            |          |           | 5:1                                                                                                   |  |  |  |
| FINISH                                 |  | SHEET            |          |           | 3                                                                                                     |  |  |  |
|                                        |  | OF               |          |           | 5                                                                                                     |  |  |  |
|                                        |  | REV              |          |           | 2                                                                                                     |  |  |  |





|                                                                                                            |  |                                                                                                                                         |  |                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                     |  | DWN: TIM XUE 23NOV2011<br>CWR: ALEX CAI 23NOV2011<br>APD: ALEX CAI 23NOV2011                                                            |  |  TE Connectivity |  |
| DIMENSIONS:<br>mm                                                                                          |  | TOLERANCES, UNLESS OTHERWISE SPECIFIED:<br>0 P L C ±0.1<br>1 P L C ±0.1<br>2 P L C ±0.1<br>3 P L C ±0.1<br>4 P L C ±0.1<br>ANGLES ±1°0' |  | NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY<br>PRESS FIT, EXTERNAL EMI SPRINGS<br>WITH HEATSINK             |  |
|                       |  | PRODUCT SPEC: 108-2364<br>APPLICATION SPEC: 114-13120<br>WEIGHT: -                                                                      |  | SIZE: CAGE CODE: DRAWING NO: A100779C-2170191                                                         |  |
| MATERIAL: WATERAL<br> |  | FINISH:                                            |  | RESTRICTED TO: -                                                                                      |  |
| CUSTOMER DRAWING                                                                                           |  |                                                                                                                                         |  |                                                                                                       |  |
|                                                                                                            |  |                                                                                                                                         |  | SCALE: 5:1    SHEET: 5 of 5    REV: 2                                                                 |  |