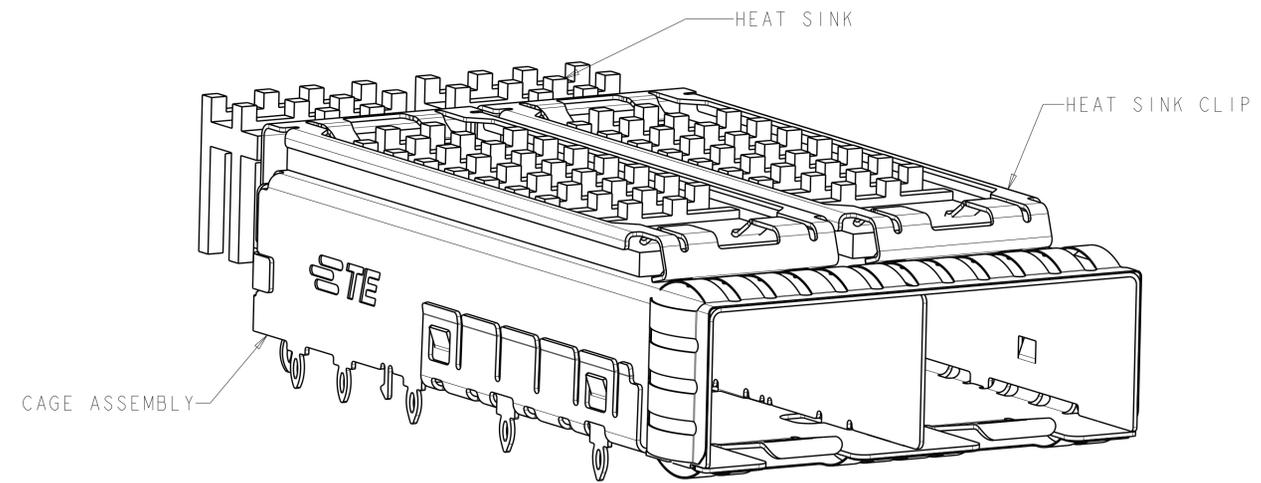


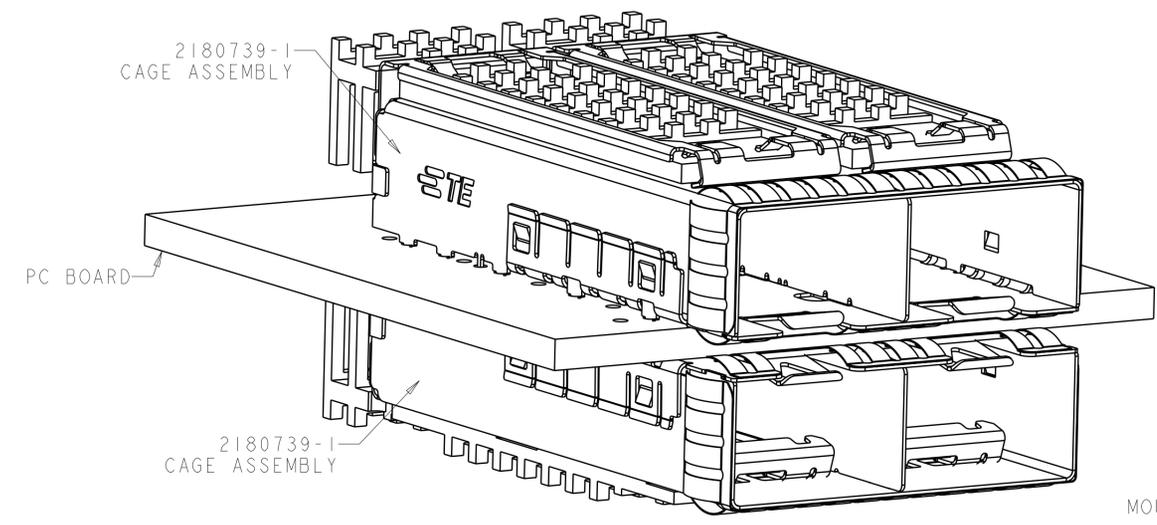
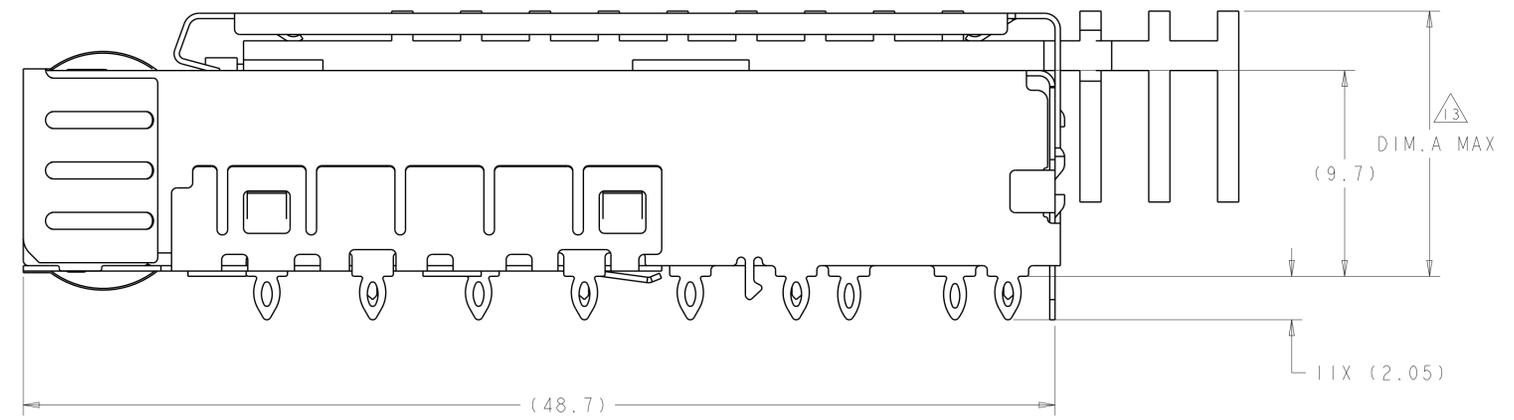
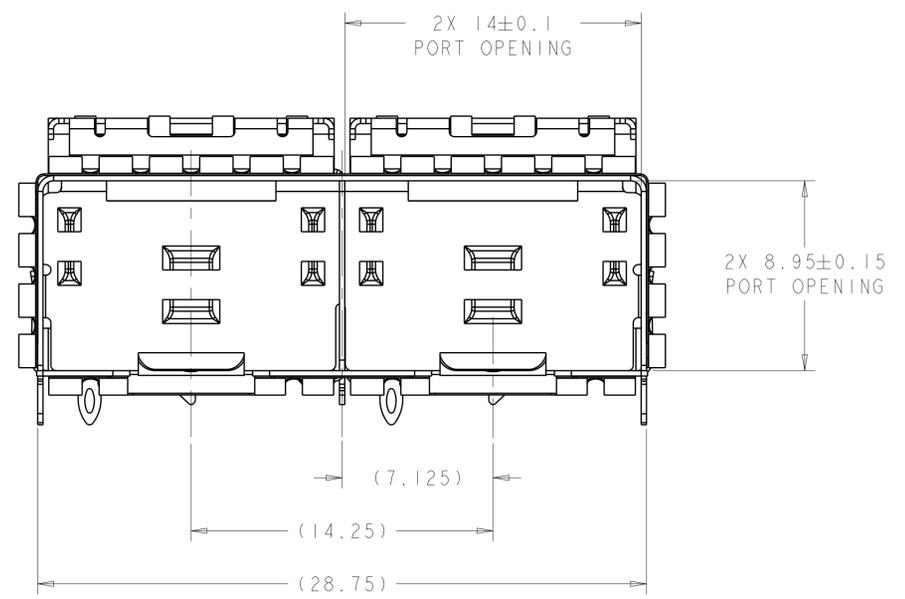
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| GP  | 00   | P         | LTN | DESCRIPTION               | DATE      | DMN | APVD |
|     |      | A         |     | PRODUCTION RELEASE        | 29FEB2016 | JW  | SH   |
|     |      | A1        |     | REVISED PER ECR-18-013796 | 30AUG2018 | IT  | SH   |
|     |      | A2        |     | REVISED PER ECR-18-016039 | 10OCT2018 | IT  | SH   |



2170190-1  
SCALE 5:1

- 1. MATERIAL:  
 CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY  
 EMI SPRINGS: COPPER ALLOY  
 HEAT SINK: ALUMINUM  
 HEAT SINK CLIP: STAINLESS STEEL.  
 INSULATOR: KAPTON
- 2. FINISH:  
 2170190-1/-2/-4 HEAT SINK: HARD ANODIC COATING  
 2170190-3 HEAT SINK: BLACK ANODIZE  
 HEAT SINK CLIP: PASSIVATE.
- 3. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 4. PADS AND VIAS CHASSIS GROUND.
- 5. MATES WITH SFP MSA COMPLIANT RECIEVERS.
- 6. INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OR ASME Y14.5M-1994.
- 7. MINIMUM PC BOARD THICKNESS:  
 SINGLE SIDED: 1.5mm  
 DOUBLE SIDED: 2.25
- 8. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm.
- 9. REFERENCE APPLICATION SPEC. 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 10. REFERENCE APPLICATION SPEC. 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 11. CERTAIN MATING TRANCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD NEED TO BE DETERMINED BY THE CUSTOMER.

- 12. PRODUCT COMPLIES WITH SPECIFICATION SFF-8433 IMPROVED PLUGGABLE FORM FACTOR FOR SFP+ GANGED CAGES.
- 13. DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE.
- 14. PRELIMINARY PART, NO RELEASED TO MASS PRODUCTION



2170190-1  
MOUNTED BELLY TO BELLY  
SCALE 4:1

| PIN TYPE  | HEAT SINK W/ THE FRIST ROW PIN  | 2170190-4   |
|-----------|---------------------------------|-------------|
| FIN TYPE  | HEAT SINK W/ THE FRIST ROW PIN  | 2170190-3   |
| PIN TYPE  | HEAT SINK W/ THE FIRST ROW PIN  | 2170190-2   |
| PIN TYPE  | HEAT SINK W/O THE FIRST ROW PIN | 2170190-1   |
| HEAT SINK | DESCRIPTION                     | PART NUMBER |

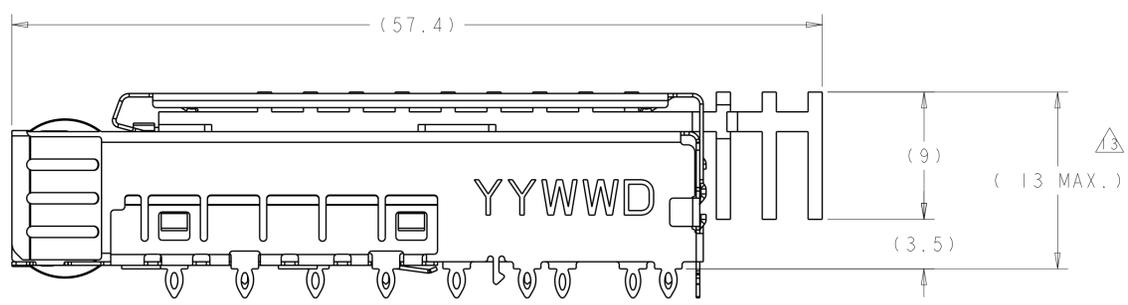
  

|  |  |                  |          |           |
|--|--|------------------|----------|-----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DMN              | TIM XUE  | 21NOV2011 |
| DIMENSIONS:                            |  | CHK              | ALEX CAI | 21NOV2011 |
| mm                                     | TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD             | ALEX CAI | 21NOV2011 |
|  | 0 PLC ±0.13                            | PRODUCT SPEC     |          |           |
|  | 1 PLC ±0.1                             | 108-2364         |          |           |
|  | 2 PLC ±0.08                            | APPLICATION SPEC |          |           |
|  | 3 PLC ±0.05                            | 114-13120        |          |           |
|  | 4 PLC ±0.05                            | WEIGHT           |          |           |
|  | ANGLES ±0.1                            | A100779C=2170190 |          |           |
| MATERIAL                               | FINISH                                 | CUSTOMER DRAWING |          |           |

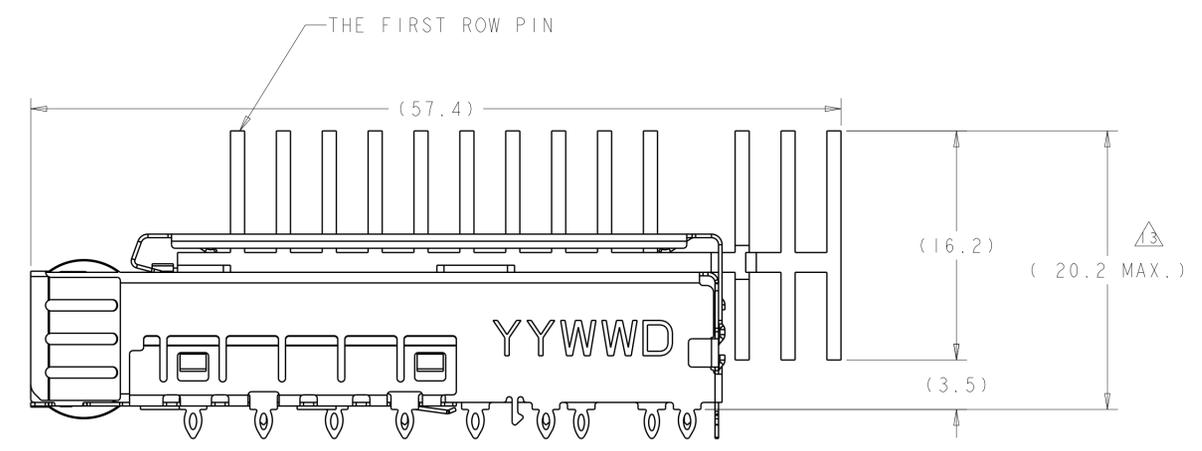
  

|   |     |       |           |            |               |
|---|-----|-------|-----------|------------|---------------|
| TE Connectivity<br>SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK |     | SIZE  | CAGE CODE | DRAWING NO | RESTRICTED TO |
|   |     | A1    |           | 2170190    |               |
| SCALE   | 6:1 | SHEET | 1         | OF         | 5             |
| REV   | A2  |       |           |            |               |

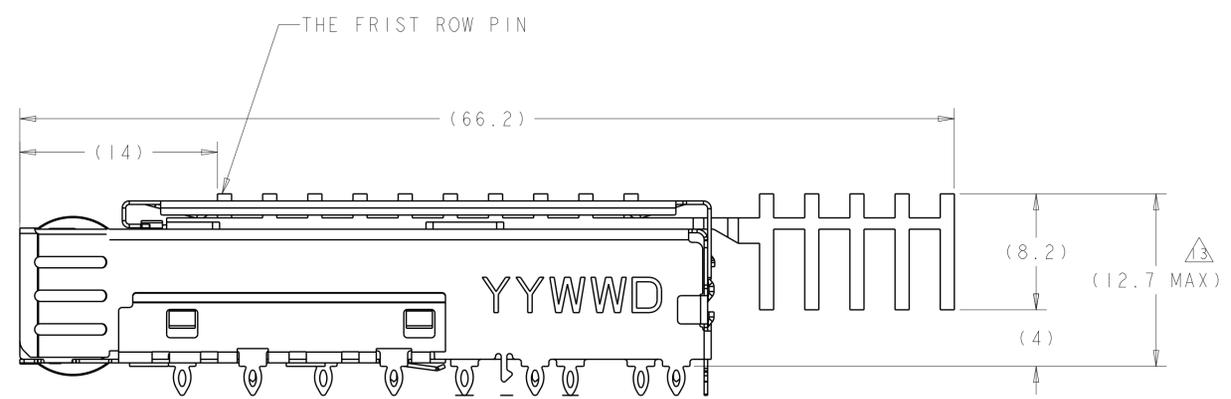
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| -   | -    | -         | -   | SEE SHEET 1 | -    | -   | -    |



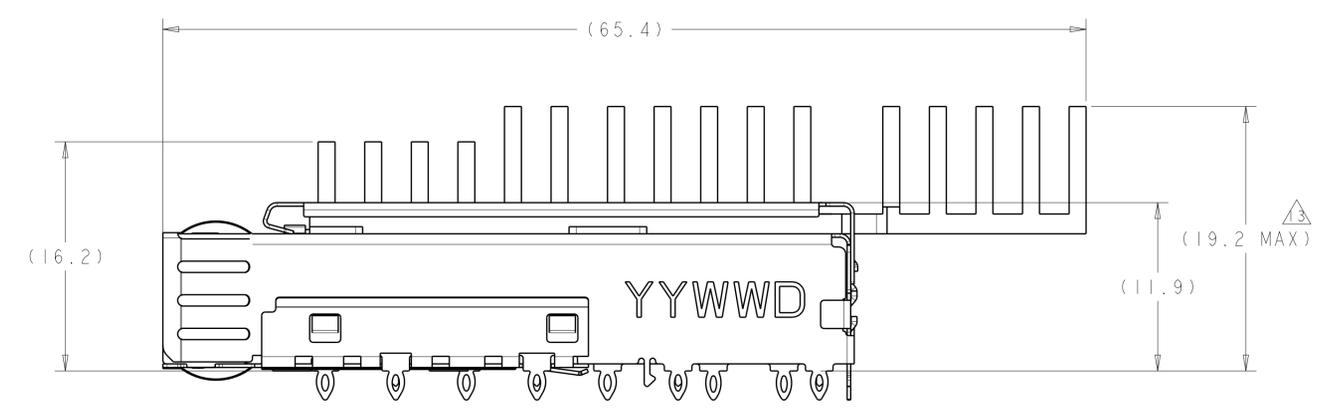
2170190-1 AS SHOWN  
HEAT SINK W/O THE FIRST ROW PIN



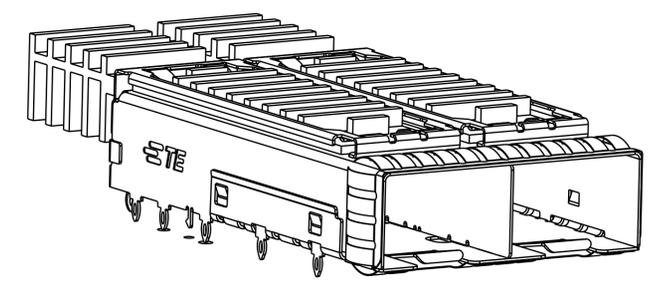
2170190-2 AS SHOWN



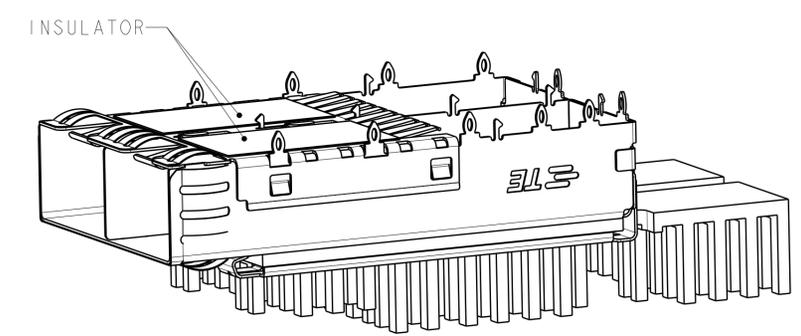
2170190-3 AS SHOWN



2170190-4 AS SHOWN  
SCALE 4:1



2170190-3 3D VIEW



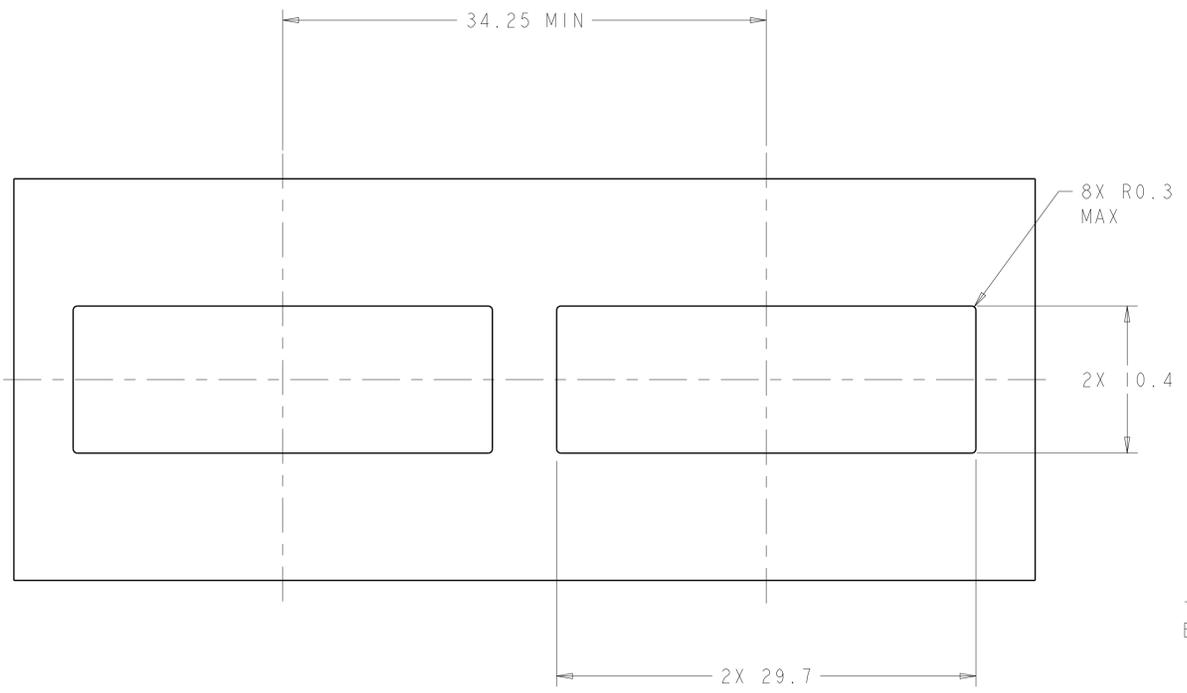
2170190-4 3D VIEW

|   |  |              |           |                  |   |           |            |               |
|---|--|--------------|-----------|------------------|---|-----------|------------|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.  |  | DMN          | TIM_XUE   | 21NOV2011        | TE Connectivity<br>NAME<br>SFP+ ENHANCED 1X2 CAGE ASSEMBLY,<br>PRESS-FIT, EMI SPRINGS,<br>HEAT SINK |           |            |               |
| DIMENSIONS:   |  | CHK          | ALEX_CAI  | 21NOV2011        |   |           |            |               |
| mm  |  | APVD         | ALEX_CAI  | 21NOV2011        |   |           |            |               |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±0.13<br>1 PLC ±0.1<br>2 PLC ±0.08<br>3 PLC ±0.05<br>4 PLC ±0.05<br>ANGLES ±0.5 |  | PRODUCT SPEC | 108-2364  | APPLICATION SPEC |   |           |            |               |
| MATERIAL  |  | FINISH       | 114-13120 | WEIGHT           | SIZE  | CAGE CODE | DRAWING NO | RESTRICTED TO |
|   |  |              |           |                  | A100779   | C=2170190 |            |               |
|   |  |              |           |                  | CUSTOMER DRAWING  |           | SCALE      | 6:1           |
|   |  |              |           |                  |   |           | SHEET      | 2 OF 5        |
|   |  |              |           |                  |   |           | REV        | A2            |

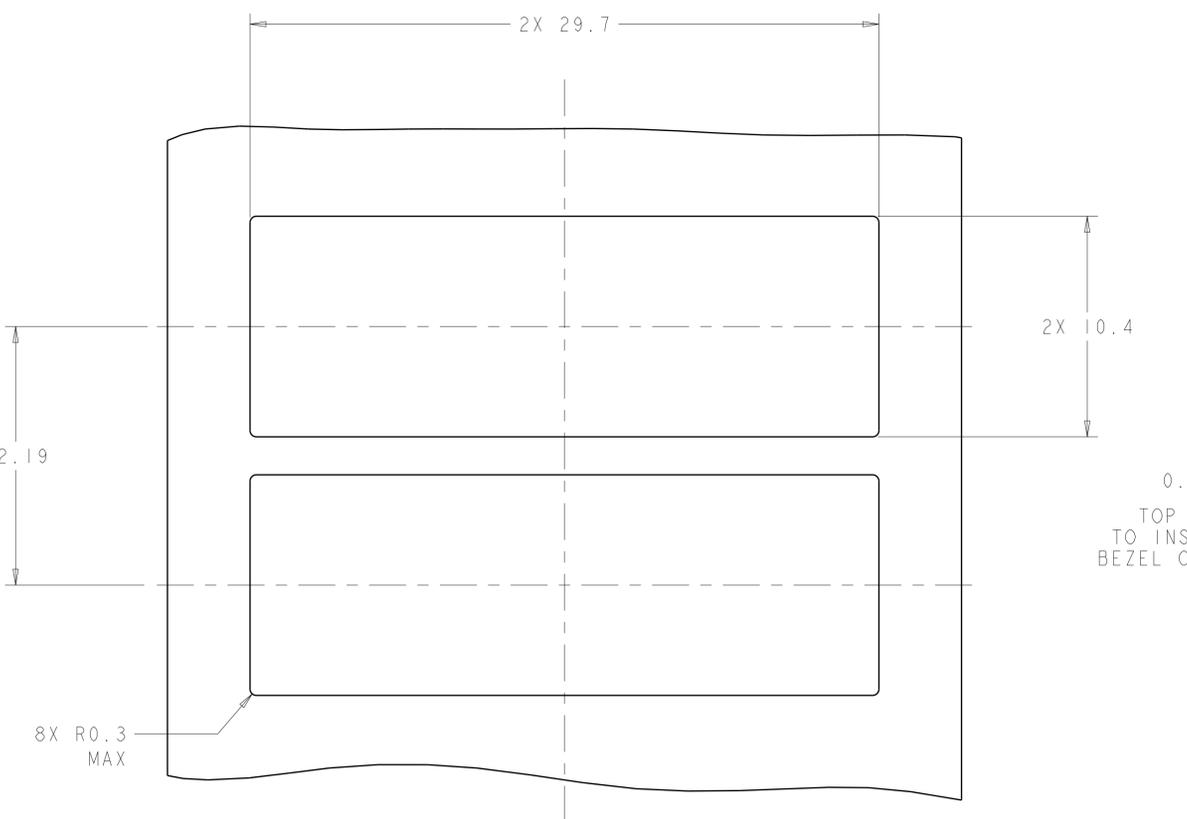
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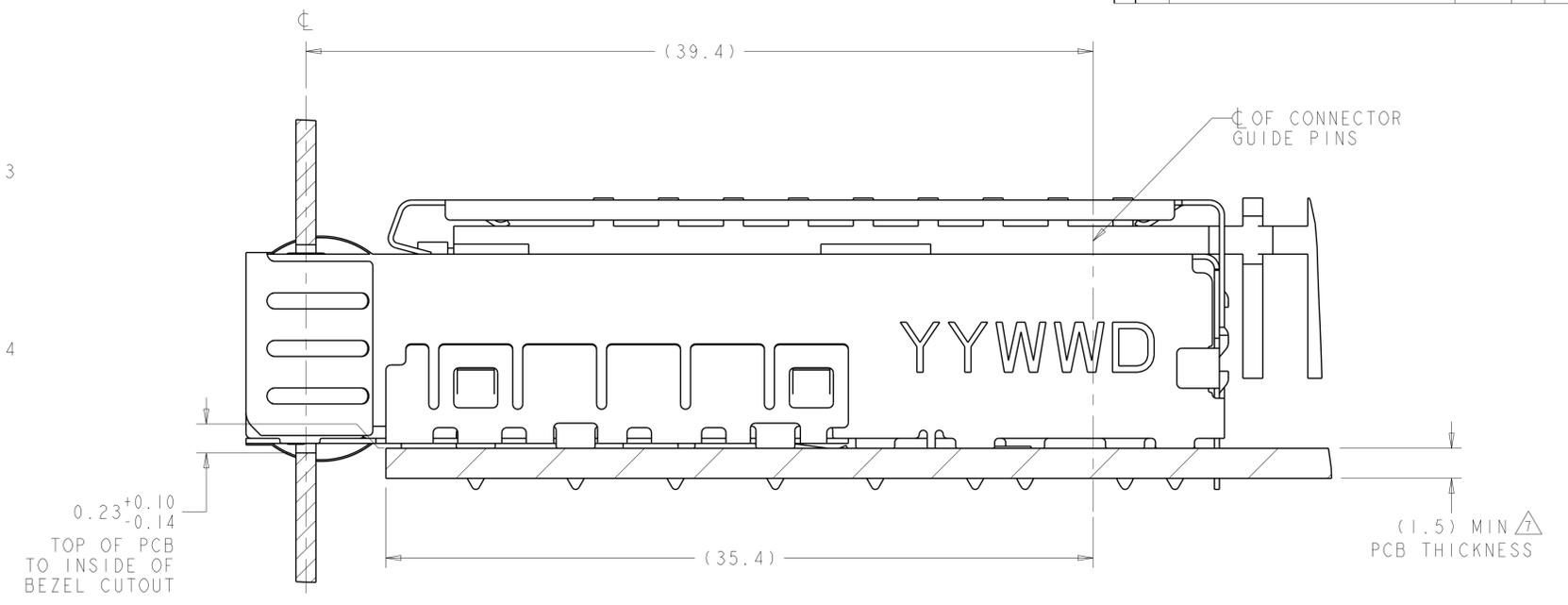
| REVISIONS |             | DATE | BY | APPD |
|-----------|-------------|------|----|------|
| 1         | SEE SHEET 1 |      |    |      |



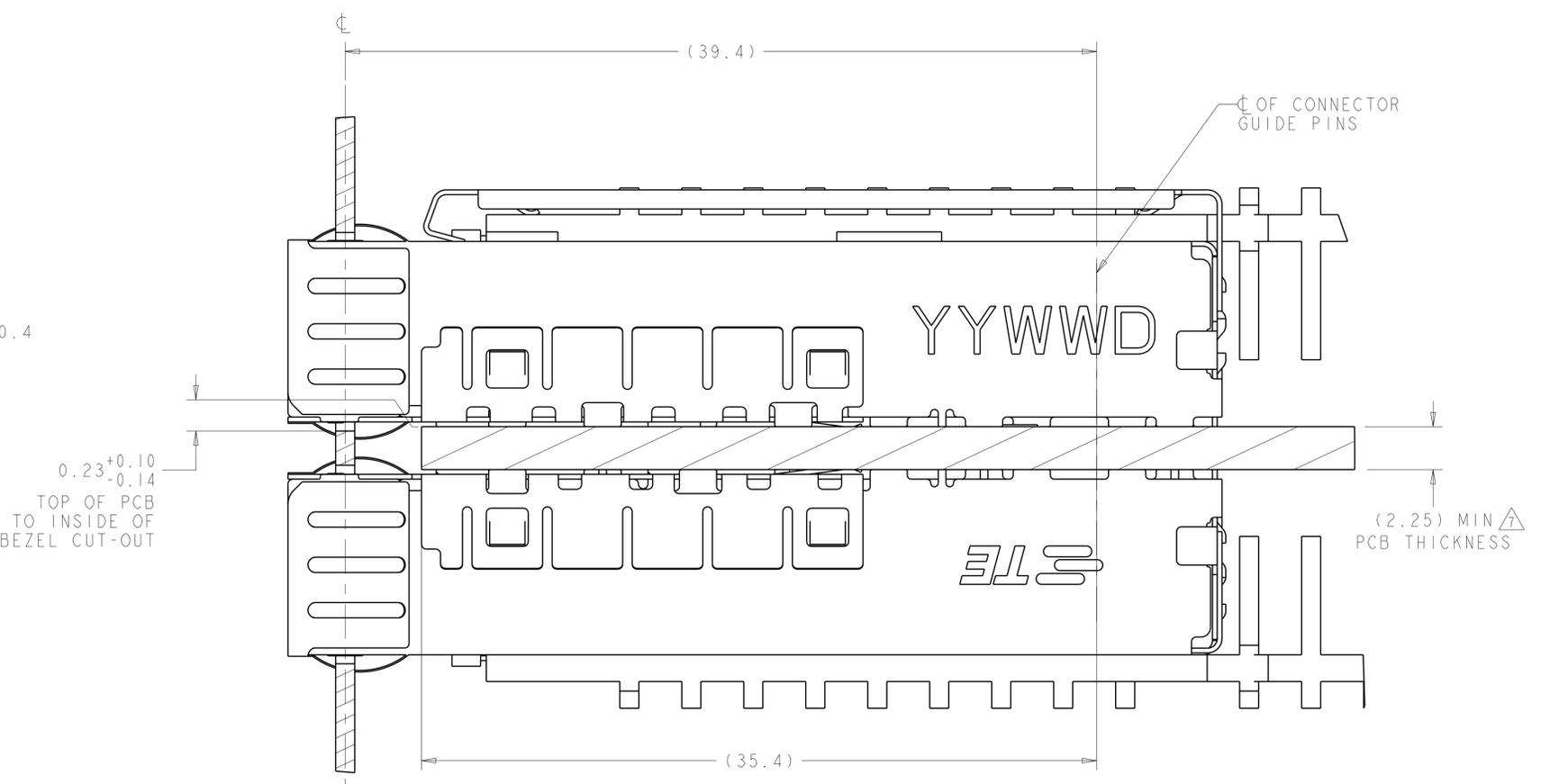
RECOMMENDED BEZEL CUT-OUT  
 SINGLE SIDED APPLICATIONS  
 SCALE 4:1



RECOMMENDED BEZEL CUT-OUT  
 BELLY TO BELLY APPLICATIONS



2170190-1  
 MOUNTED ON PC BOARD  
 SHOWN THRU RECOMMENDED BEZEL



2170190-1  
 MOUNTED BELLY TO BELLY ON PC BOARD  
 SHOWN THRU RECOMMENDED BEZEL

|  |  |  |   |
|--|--|--|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT.   |  | OWN: TIM XUE 21NOV2011   | TE Connectivity<br>NAME: SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK |
| DIMENSIONS: mm   |  | CHK: ALEX CAI 21NOV2011  |   |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:   |  | APVD: ALEX CAI 21NOV2011   |   |
| 0 PLC ±0.13<br>1 PLC ±0.1<br>2 PLC ±0.08<br>3 PLC ±0.05<br>4 PLC ±0.05<br>ANGLES ±0.5<br>FINISH #1 |  | PRODUCT SPEC: 108-2364<br>APPLICATION SPEC: 114-13120<br>WEIGHT: -<br>CUSTOMER DRAWING |   |
| MATERIAL:  |  | SIZE: CAGE CODE DRAWING NO: A100779C=2170190   | RESTRICTED TO: -  |
| SCALE: 6:1   |  | SHEET: 3 OF 5  | REV: A2   |





## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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