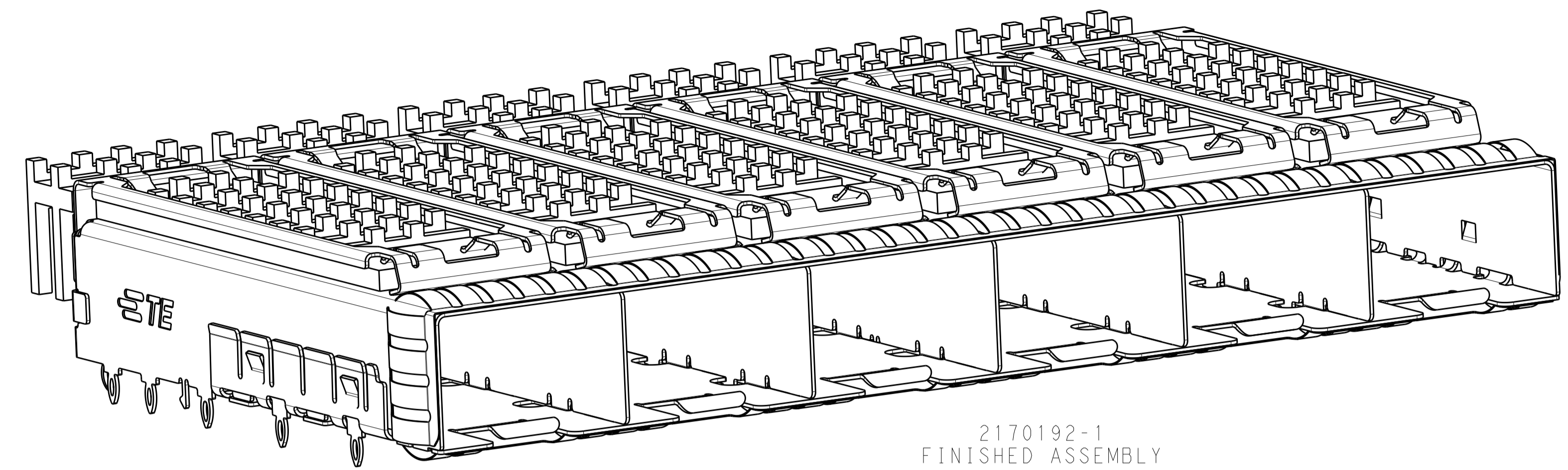
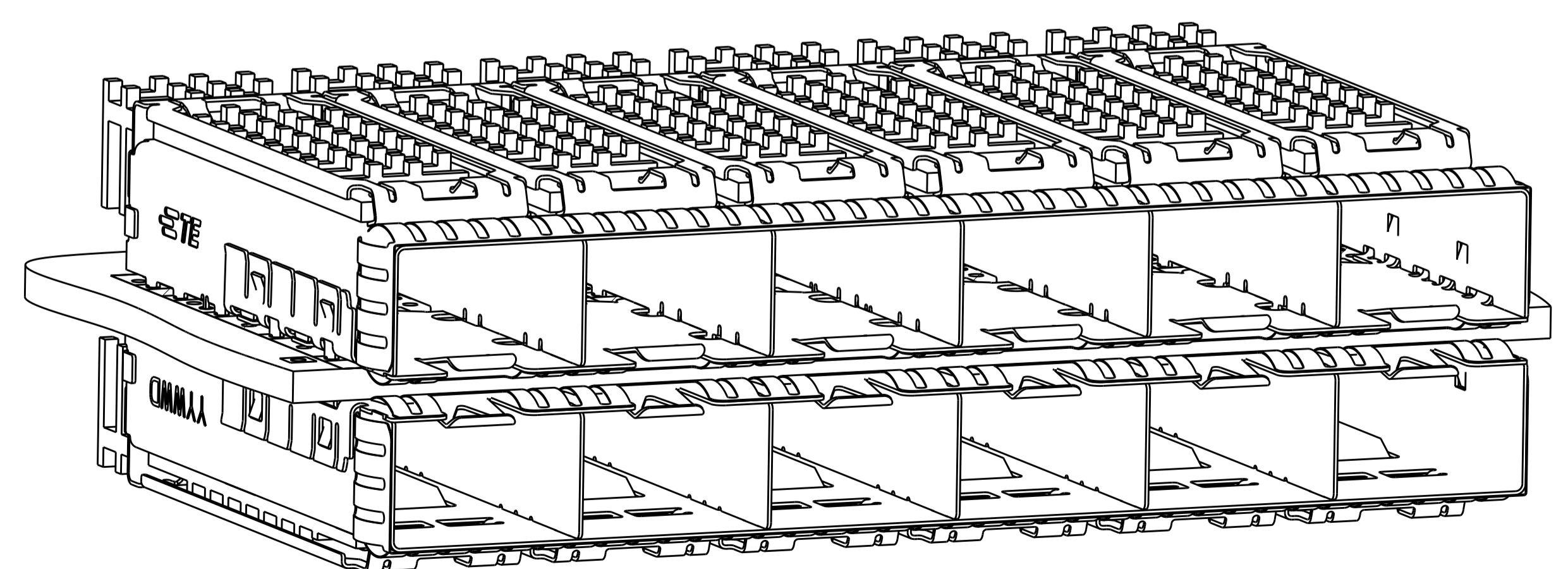
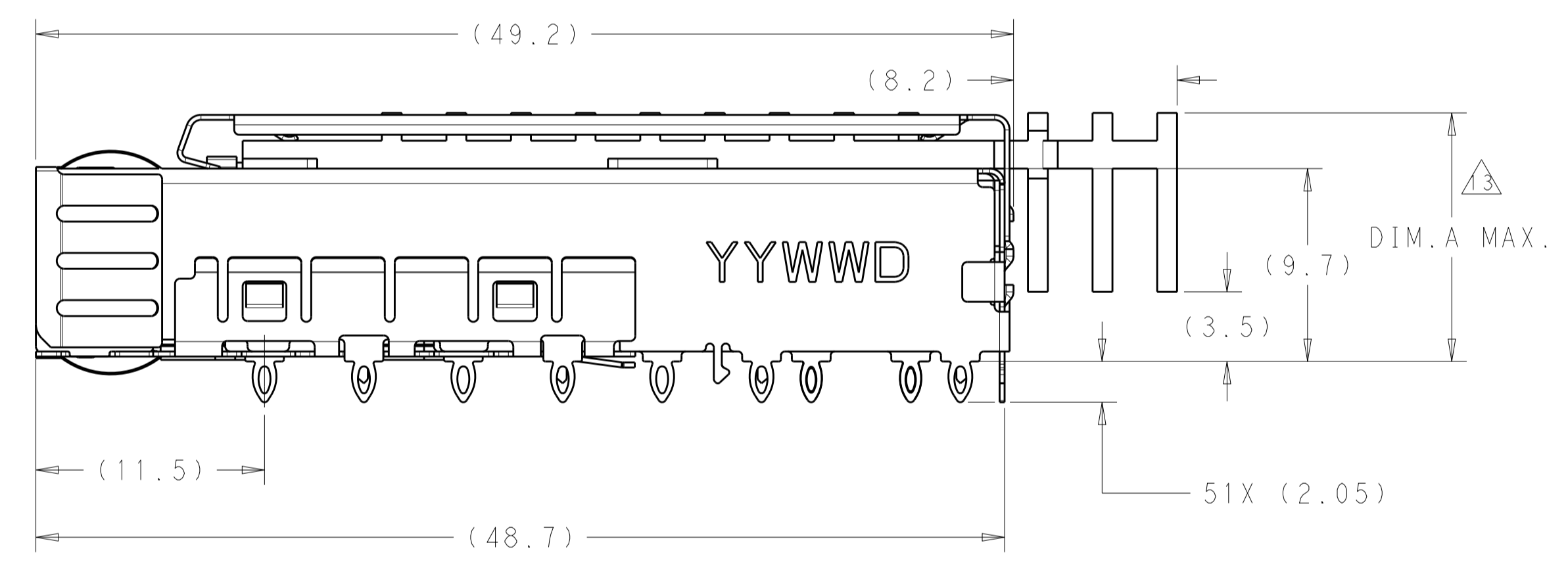
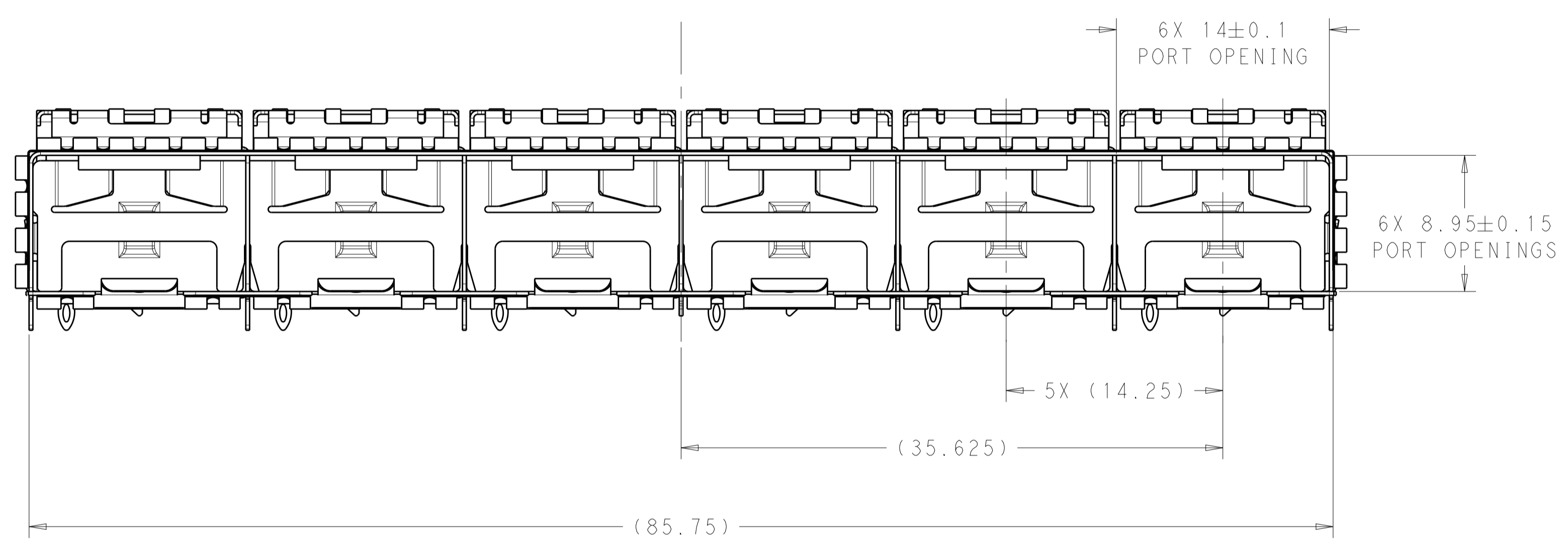


| LOC | DIST | REVISIONS | | | | | |
|-----|------|-----------|-----|-----------------|-----------|-----|------|
| GP | 00 | P | LTN | DESCRIPTION | DATE | DWN | APVD |
| | | A | | INITIAL RELEASE | 10AUG2015 | JW | SH |



2170192-1
 FINISHED ASSEMBLY
 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 CLIP: PASSIVATE
 2170192-1/-2 HEATSINK: HARD ANODIC COATING
 2170192-3 HEATSINK: BLACK ANODIZE
- 3. MATES WITH SFP MSA COMPLIANT TRANSCEIVERS.
- 4 PADS AND VIAS CHASSIS GROUND.
- 5. INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OF ASME Y14.5M-1994.
- 6 MINIMUM PCB BOARD THICKNESS:
 SINGLE SIDED = 1.50
 DOUBLE SIDED = 2.25
- 7 HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 14.25mm.
- 8 DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- 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 TRANSCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD 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



2170192-1
 MOUNTED BELLY TO BELLY ON PCB
 SCALE 3:1

PRELIMINARY

| DESCRIPTION | SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---------------------------------|---------------------|-----------|------------|---------------|
| HEAT SINK W/ THE FIRST ROW PIN | 13.10 MAX.(WORKING) | | | |
| HEAT SINK W/ THE FIRST ROW PIN | 20.2 MAX | | | |
| HEAT SINK W/O THE FIRST ROW PIN | 13 MAX | | | |
| HEAT SINK | A | | | |

THIS DRAWING IS A CONTROLLED DOCUMENT.

| | | | | |
|-------------|--|------------------|----------|-----------|
| DIMENSIONS: | TOLERANCES UNLESS OTHERWISE SPECIFIED: | DWN | TIM XUE | 22NOV2011 |
| mm | 0 PLC ±0.25 | CHK | ALEX CAI | 22NOV2011 |
| | 1 PLC ±0.20 | APVD | ALEX CAI | 22NOV2011 |
| | 2 PLC ±0.15 | PRODUCT SPEC | | |
| | 3 PLC ±0.1 | 108-2364 | | |
| | 4 PLC ±0.1 | APPLICATION SPEC | | |
| | ANGLES ±0.1 | 114-13120 | | |
| | FINISH ±1* | WEIGHT | | |
| MATERIAL | | Customer Drawing | | |

STE TE Connectivity

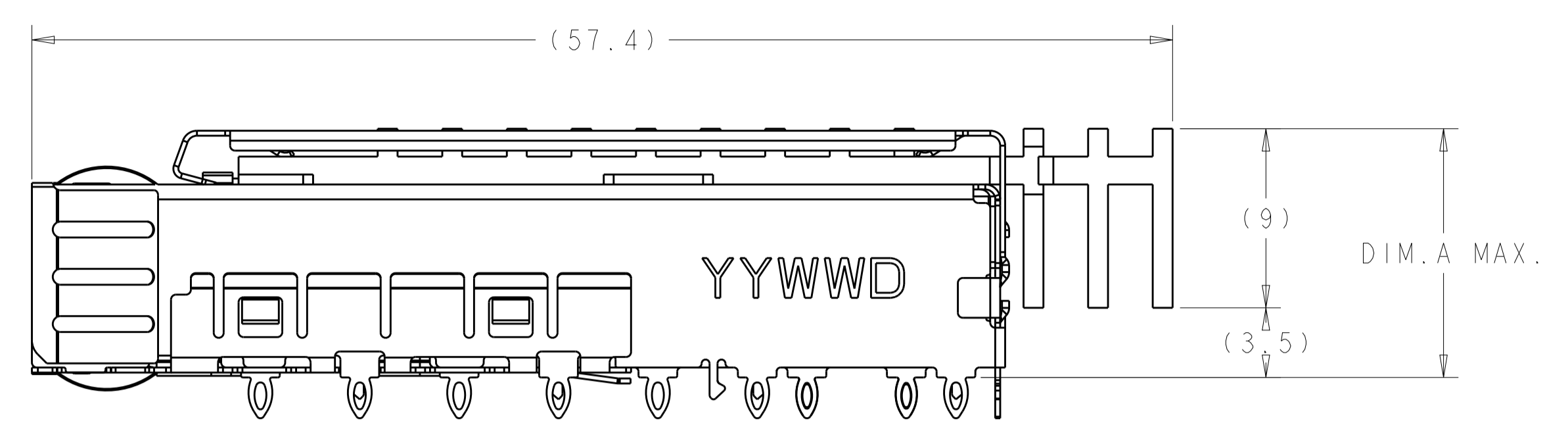
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SIZE: A1 00779 C=2170192

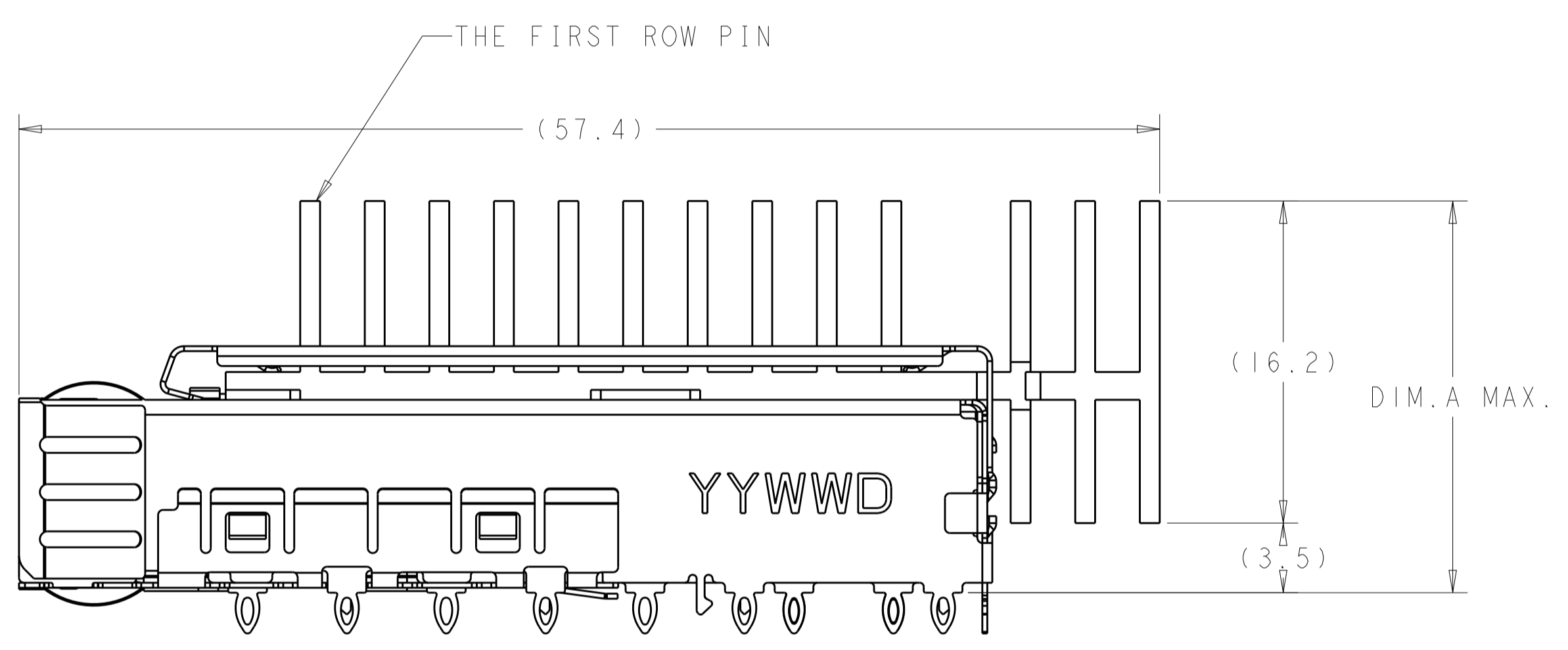
SCALE: 4:1 SHEET 1 OF 5 REV A

| LOC | DIST | REV | DATE | BY | APPV |
|-----|------|-----|------|----|------|
| GP | 00 | | | | |

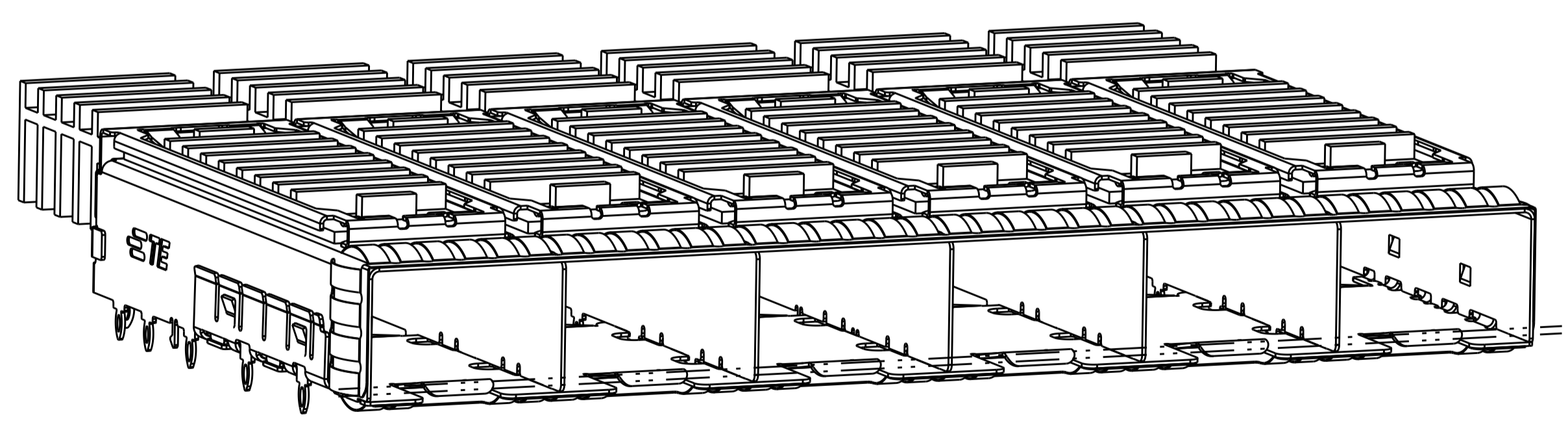
| REVISIONS | | | |
|-----------|-------------|------|----|
| NO. | DESCRIPTION | DATE | BY |
| - | SEE SHEET 1 | - | - |



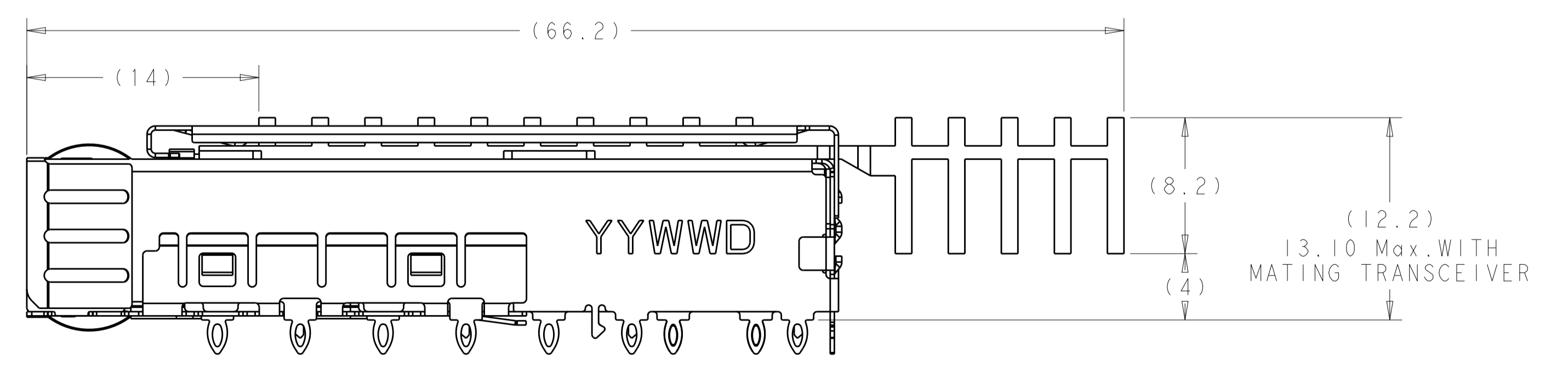
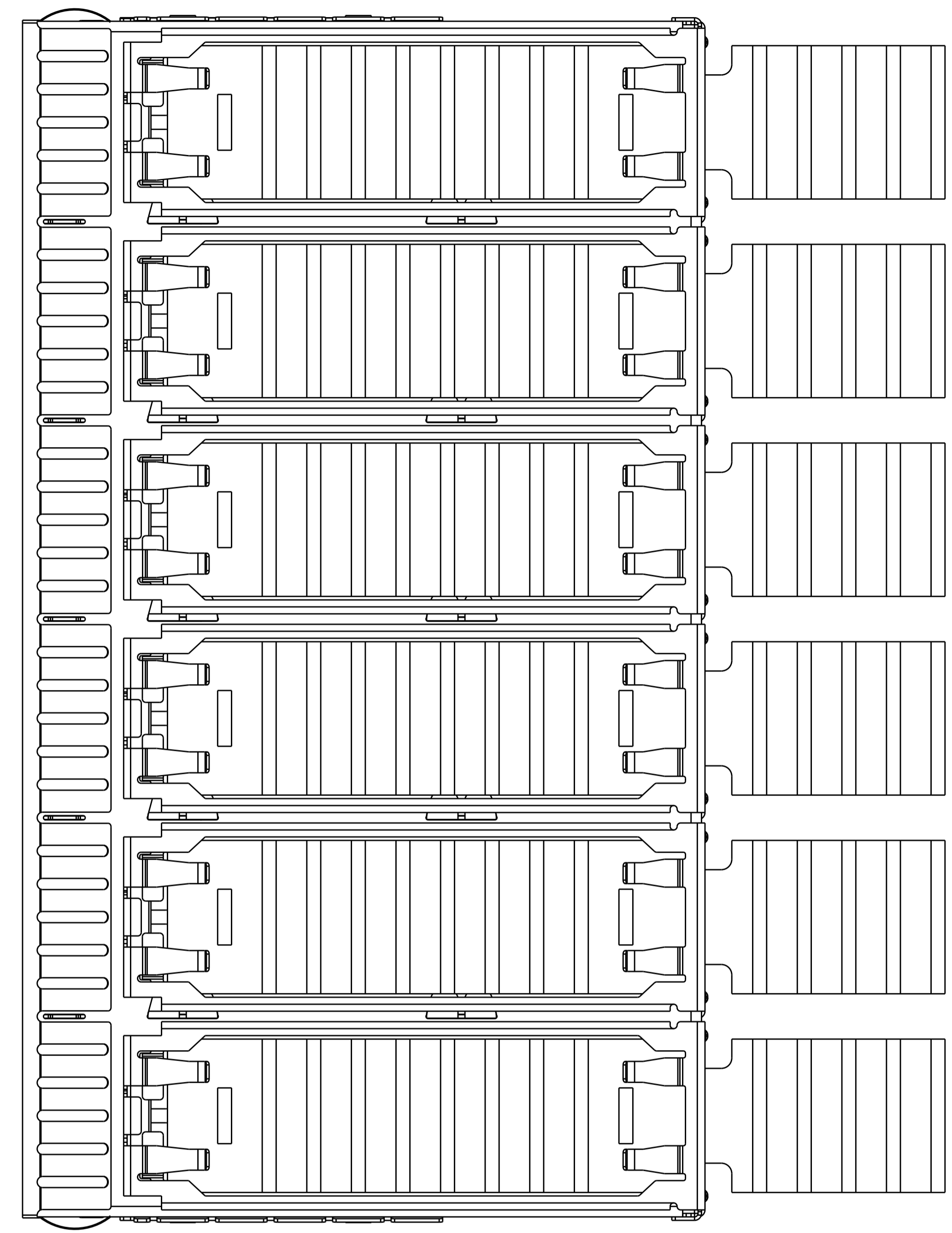
2170192-1 AS SHOWN
HEAT SINK W/O THE FIRST ROW PIN



2170192-2 AS SHOWN



2170192-3 AS SHOWN

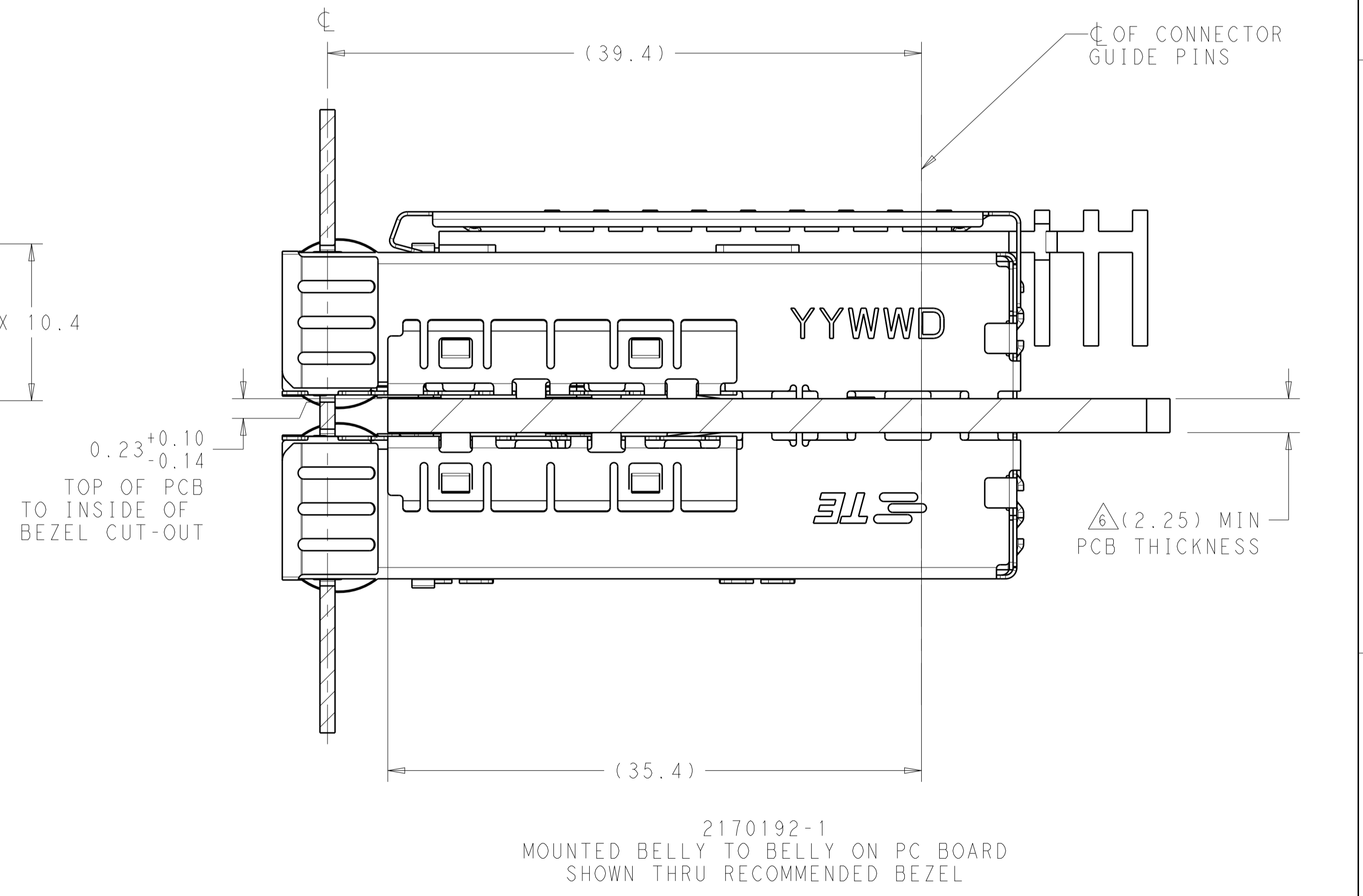
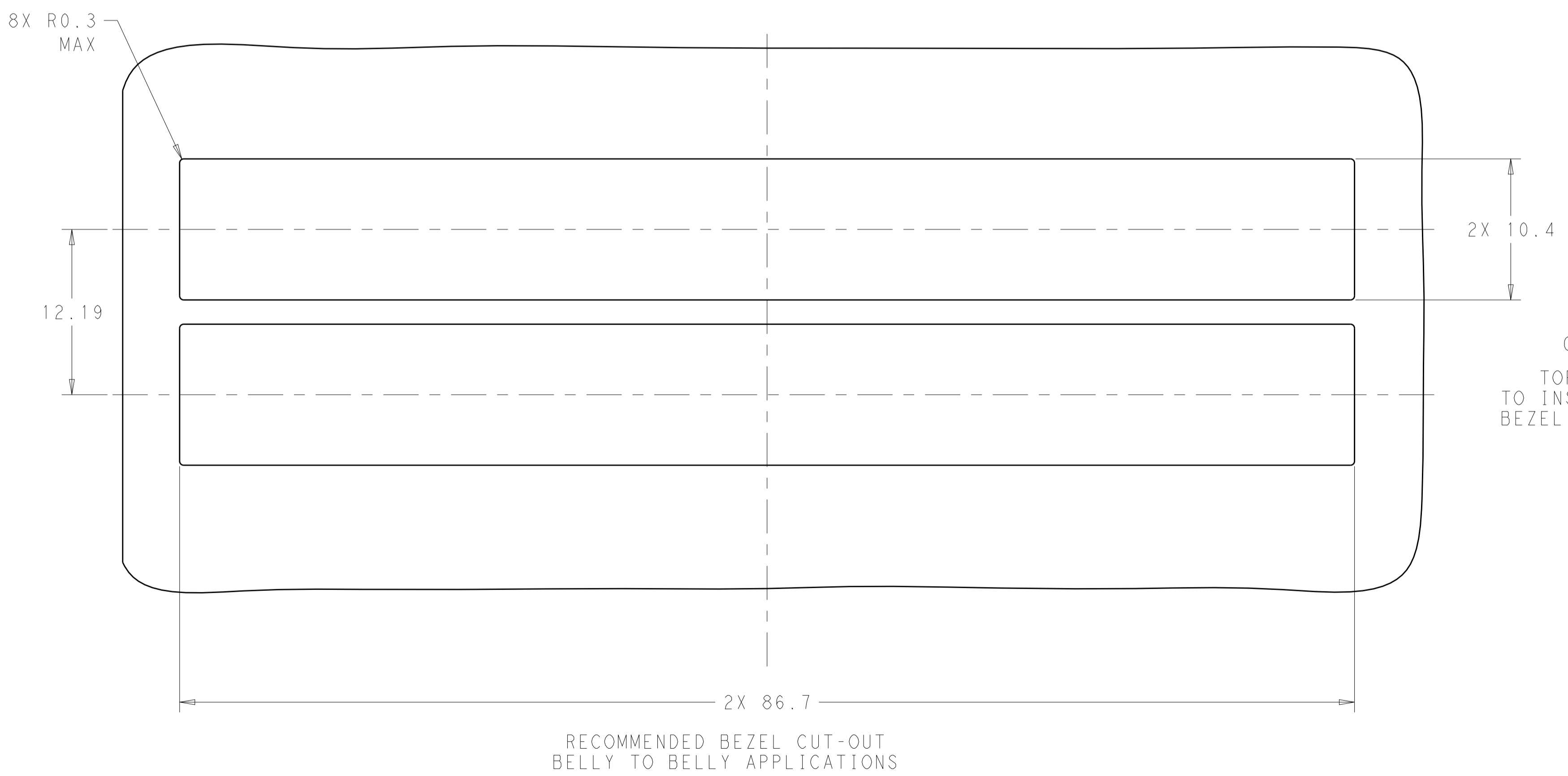
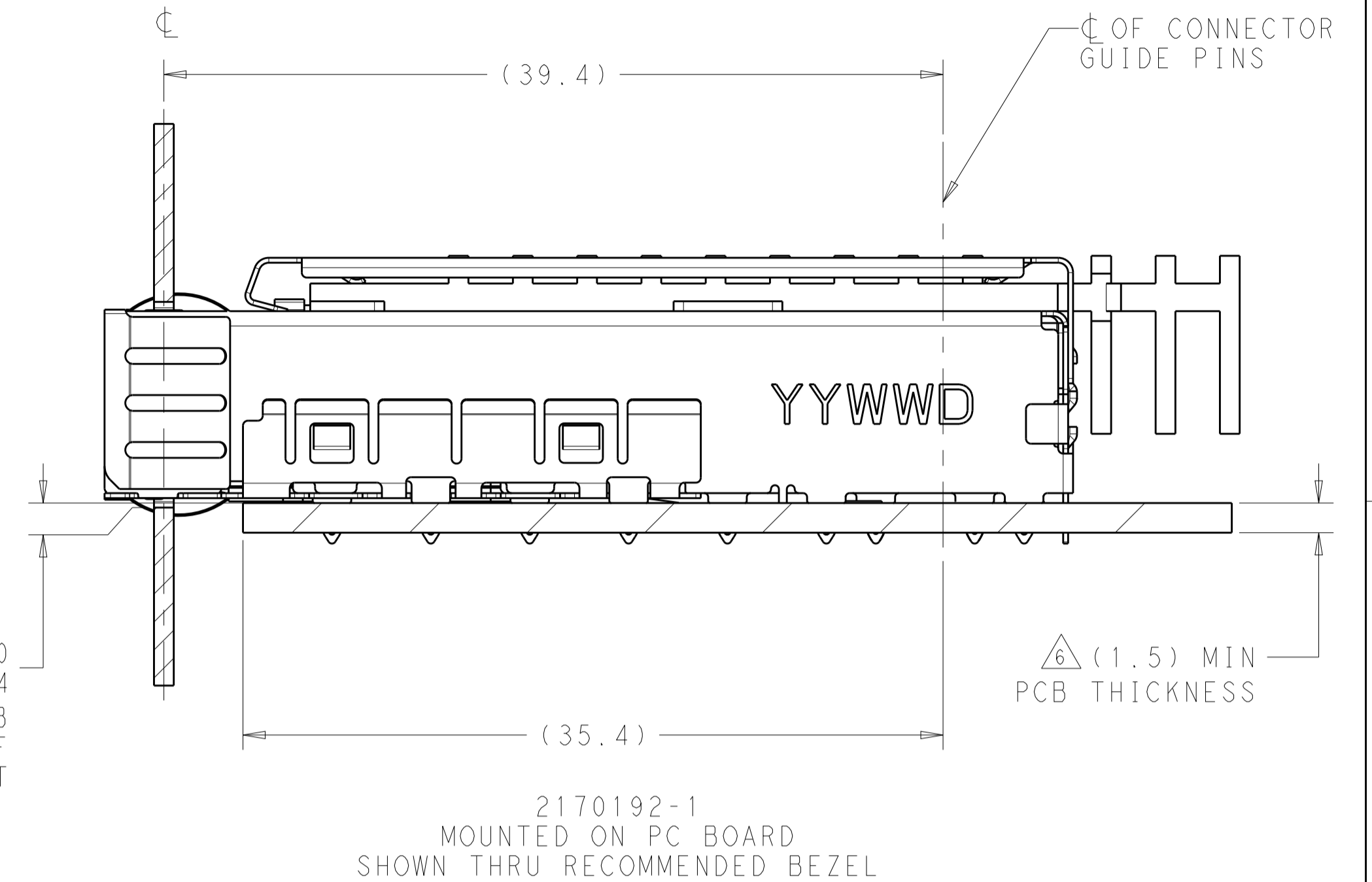
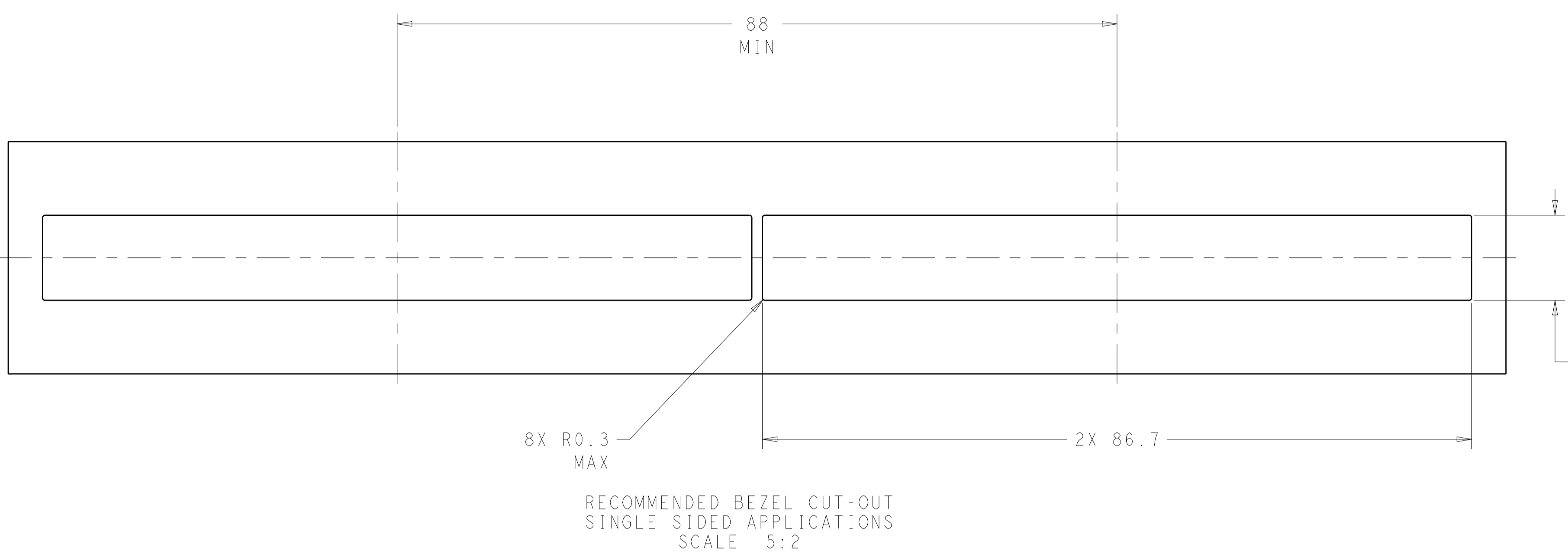


2170192-3 AS SHOWN

| | | | |
|--|-------|--|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | OWN: TIM XUE 22NOV2011 | STE TE Connectivity |
| DIMENSIONS: | | CHK: ALEX CAI 22NOV2011 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD: ALEX CAI 22NOV2011 | |
| mm | | NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK | |
| 0 PLC | ±0.25 | PRODUCT SPEC | SIZE: CAGE CODE DRAWING NO. RESTRICTED TO |
| 1 PLC | ±0.20 | 108-2364 | A100779C=2170192 |
| 2 PLC | ±0.15 | APPLICATION SPEC | SCALE: 4:1 SHEET 2 OF 5 REV A |
| 3 PLC | ±0.1 | 114-13120 | |
| 4 PLC | ±0.1 | WEIGHT | |
| ANGLES | ±1° | Customer Drawing | |

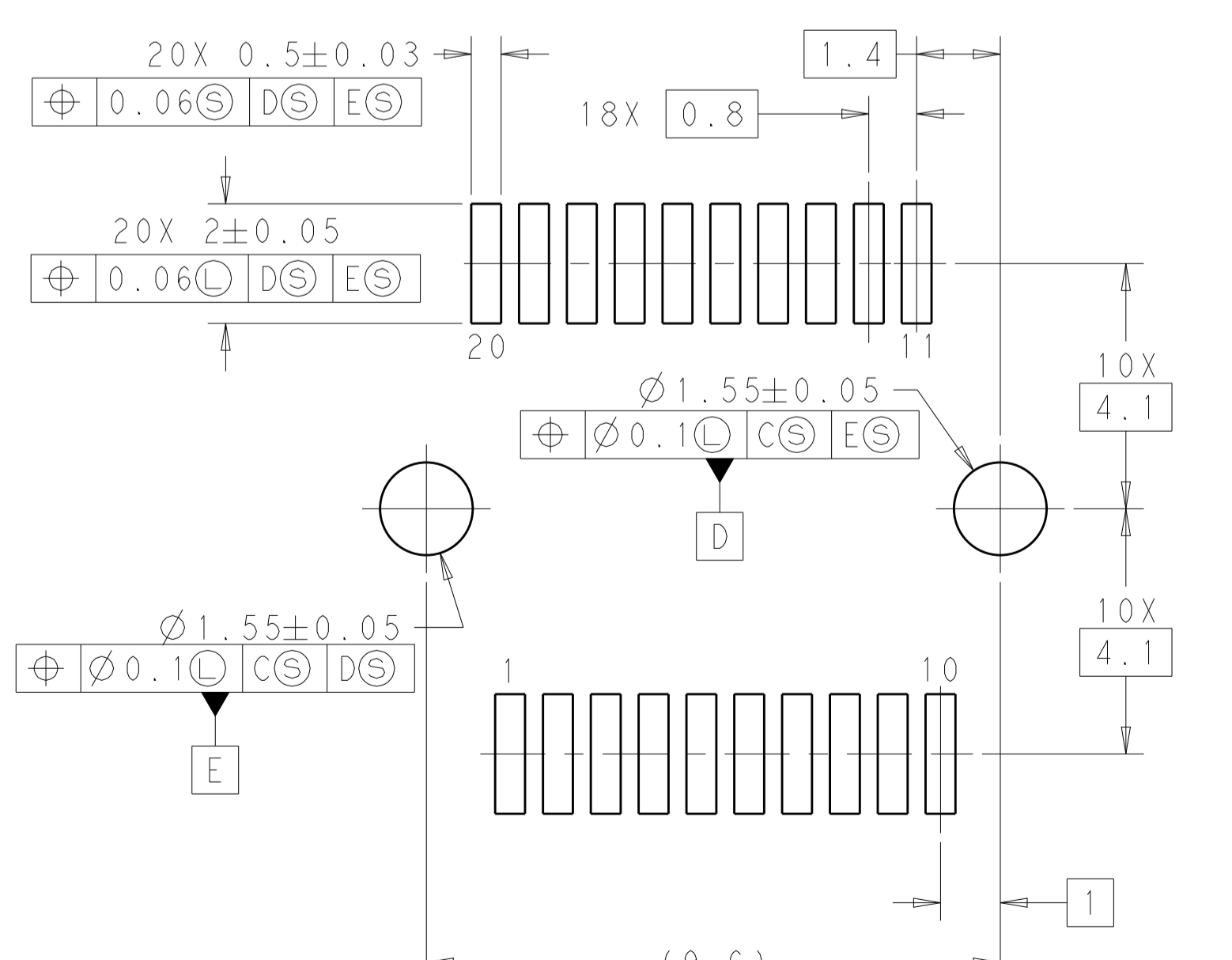
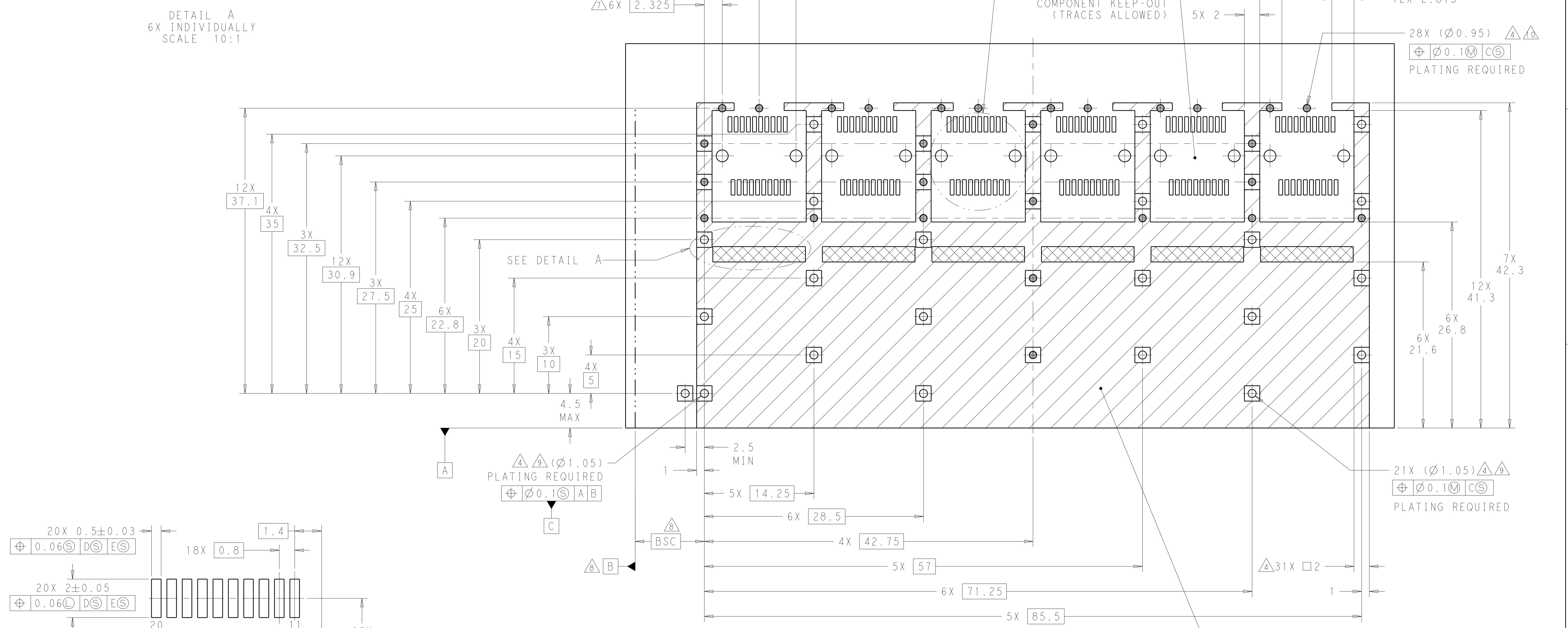
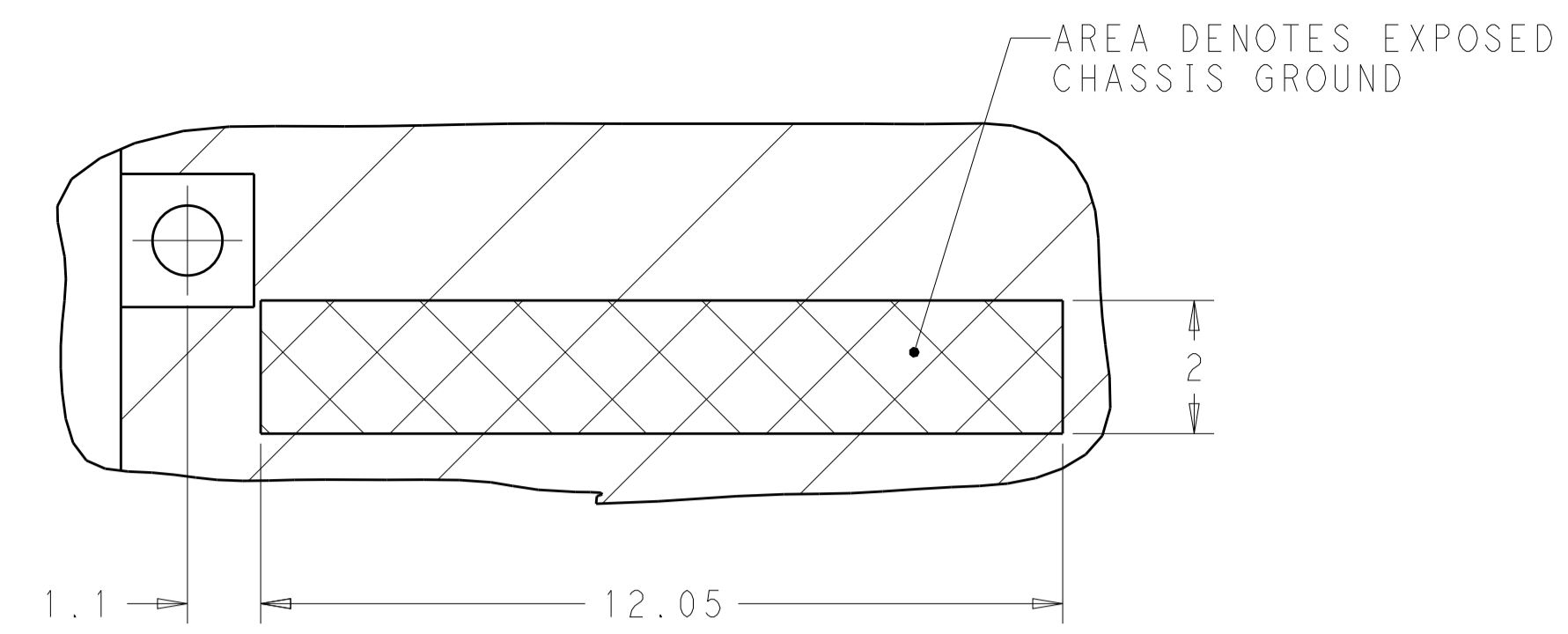
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|-----|------|-----|------|----|------|
| GP | 00 | | | | |

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



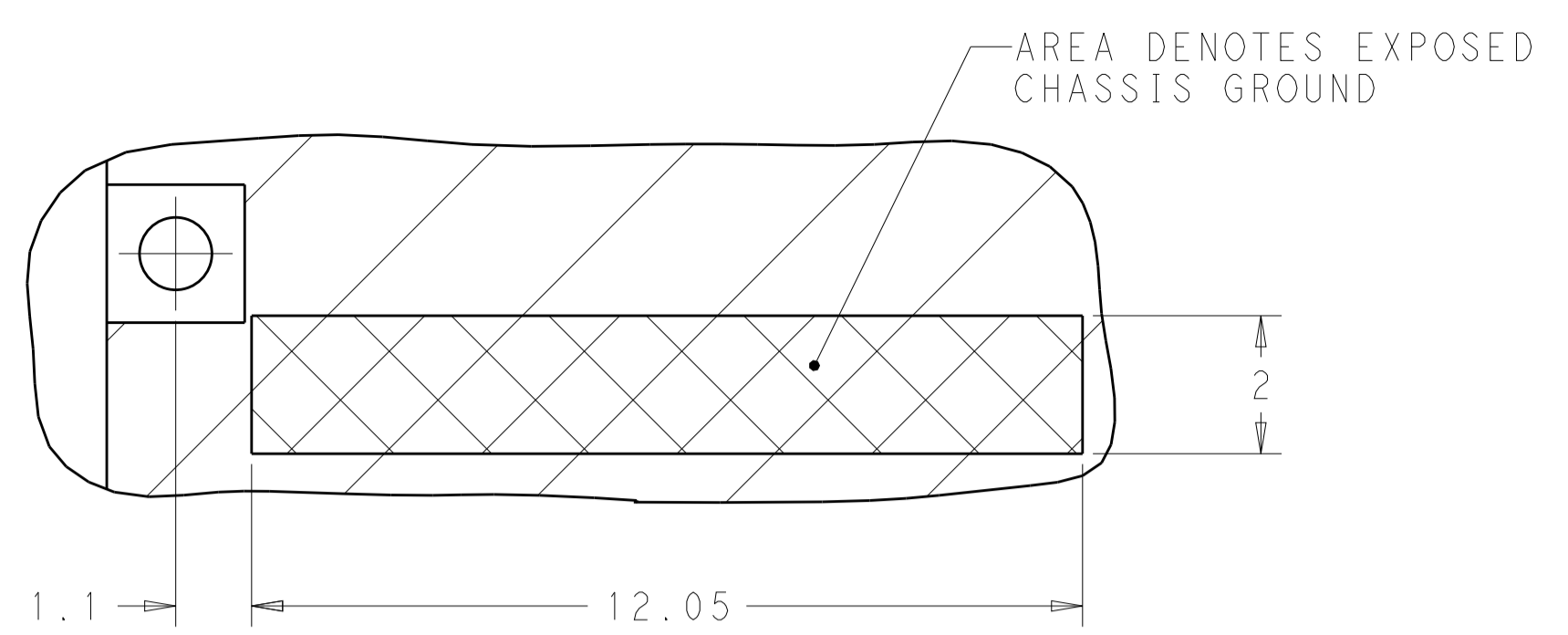
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|--|--|-----------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | OWN: TIM XUE 22NOV2011 | STE TE Connectivity |
| DIMENSIONS: mm | | CHK: ALEX CAI 22NOV2011 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD: ALEX CAI 22NOV2011 | NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK |
| 0 PLC ±0.25 | | PRODUCT SPEC: 108-2364 | |
| 1 PLC ±0.20 | | APPLICATION SPEC: 114-13120 | SIZE: A100779C=2170192 |
| 2 PLC ±0.15 | | WEIGHT: - | |
| 3 PLC ±0.1 | | FINISH: - | SCALE: 4:1 SHEET 3 OF 5 REV A |
| 4 PLC ±0.1 | | MATERIAL: - | |
| ANGLES ±0.1 | | Customer Drawing | |

| LOC | DIST | REV | DATE | BY | APPV |
|-----------|------|-------------|------|----|------|
| GP | 00 | | | | |
| REVISIONS | | DESCRIPTION | DATE | BY | APPV |
| | | SEE SHEET 1 | | | |

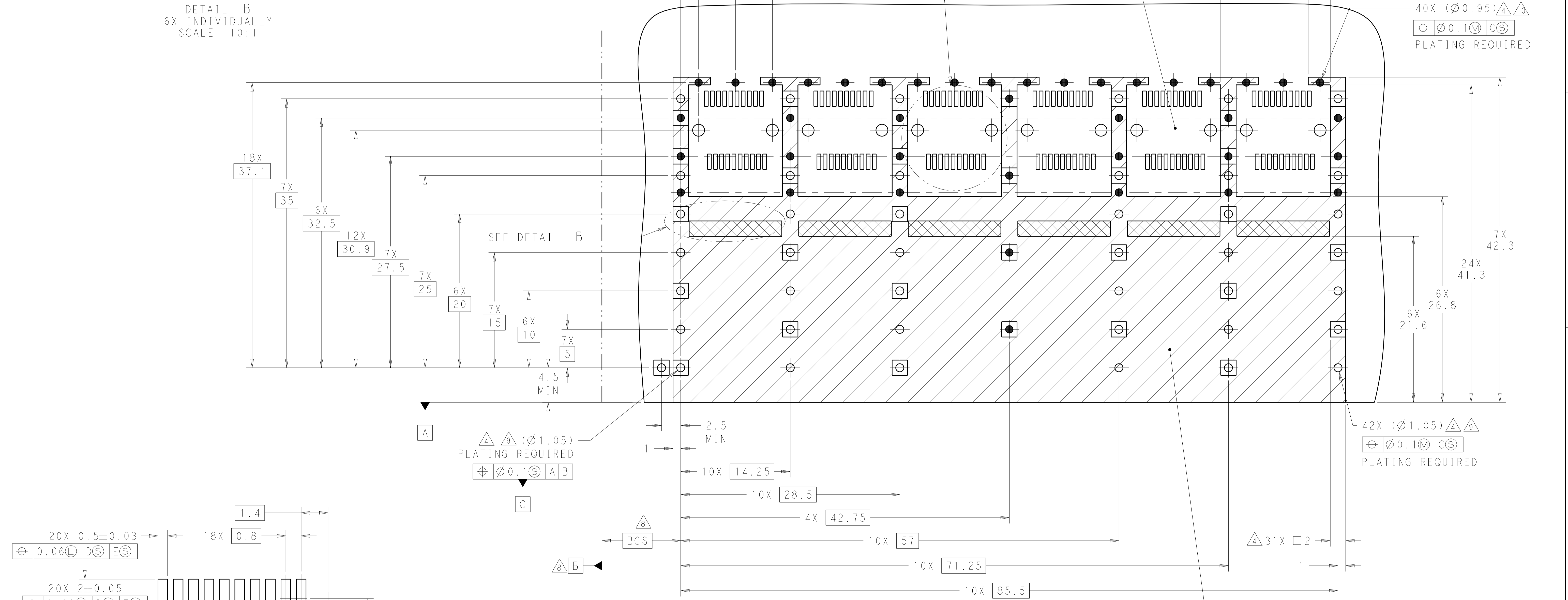


| | | | |
|--|--|-------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | OWN: TIM XUE 22NOV2011 | TE Connectivity |
| DIMENSIONS: mm | | CHK: ALEX CAI 22NOV2011 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD: ALEX CAI 22NOV2011 | NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 SIZE: CAGE CODE DRAWING NO: A100779C=2170192 WEIGHT: - Customer Drawing |
| 0 PLC ±0.25 | | RESTRICTED TO: - | |
| 1 PLC ±0.20 | | SCALE: 4:1 SHEET 4 OF 5 REV A | |
| 2 PLC ±0.15 | | | |
| 3 PLC ±0.1 | | | |
| 4 PLC ±0.1 | | | |
| ANGLES ±1° | | | |
| MATERIAL: - | | | |
| FINISH: - | | | |

| LOC | DIST | REV | DATE | APPD | REVISED |
|-----|------|-----|------|------|-------------|
| GP | 00 | | | | |
| | | | | | SEE SHEET 1 |

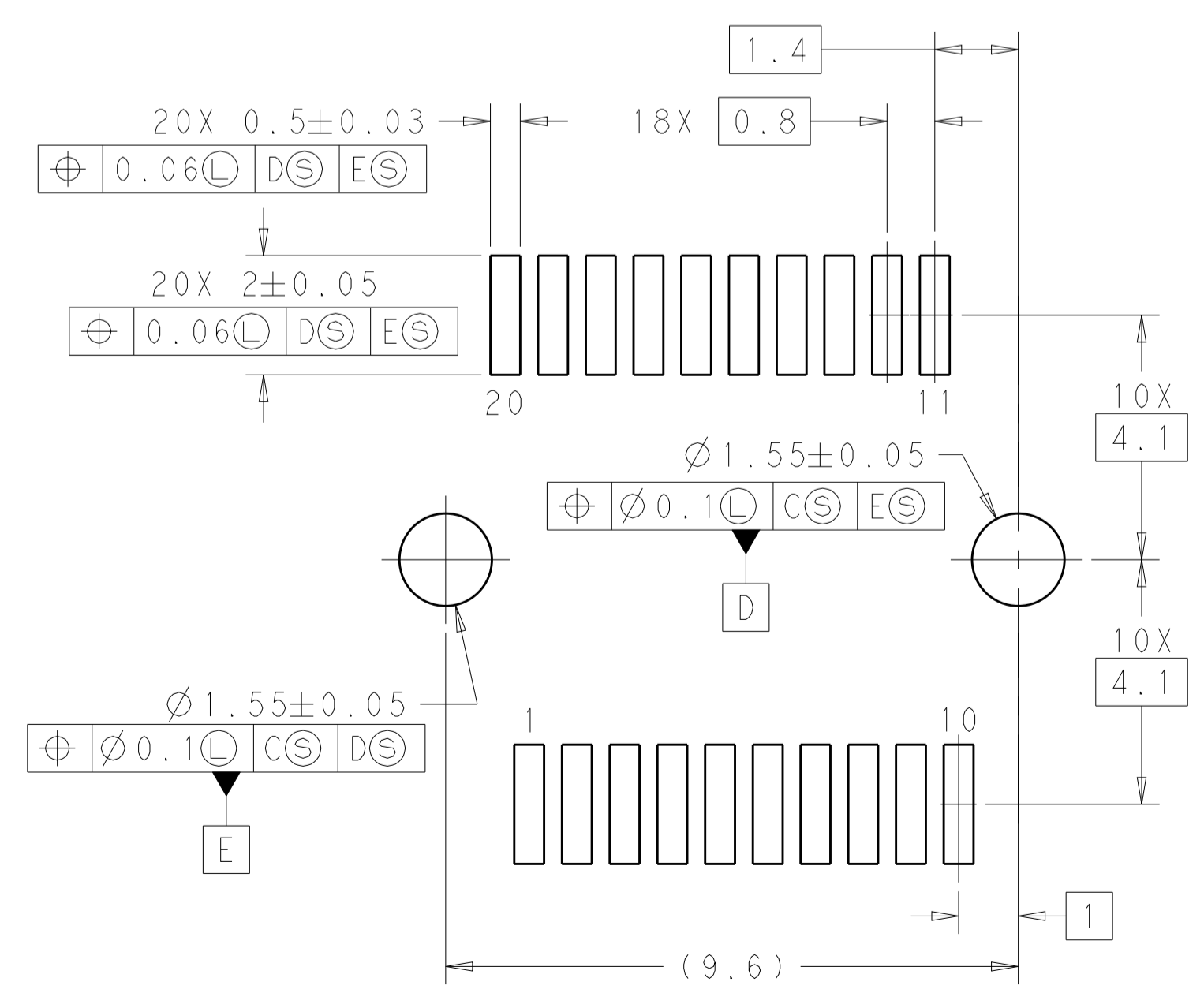


DETAIL B
6X INDIVIDUALLY
SCALE 10:1



RECOMMENDED PCB CONFIGURATION
WITH KEEP-OUT AREAS
BELLY TO BELLY APPLICATIONS
SCALE 4:1

CROSS-HATCHED AREA
DENOTES COMPONENT
AND TRACE KEEP-OUT
(EXCEPT CHASSIS
GROUND)



DETAIL Y
RECOMMENDED PT CONNECTOR LAYOUT
12X INDIVIDUALLY
SCALE 10:1

| | | | |
|---|--|--|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | OWN: TIM XUE 22NOV2011 | TE Connectivity |
| DIMENSIONS: mm | | CHK: ALEX CAI 22NOV2011 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APPD: ALEX CAI 22NOV2011 | NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 |
| 0 PLC ±0.25 1 PLC ±0.20 2 PLC ±0.15 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1° | | SIZE: 114-13120 WEIGHT: - Customer Drawing | |
| MATERIAL: | | FINISH: | RESTRICTED TO: - SCALE: 4:1 SHEET 5 OF 5 REV A |

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