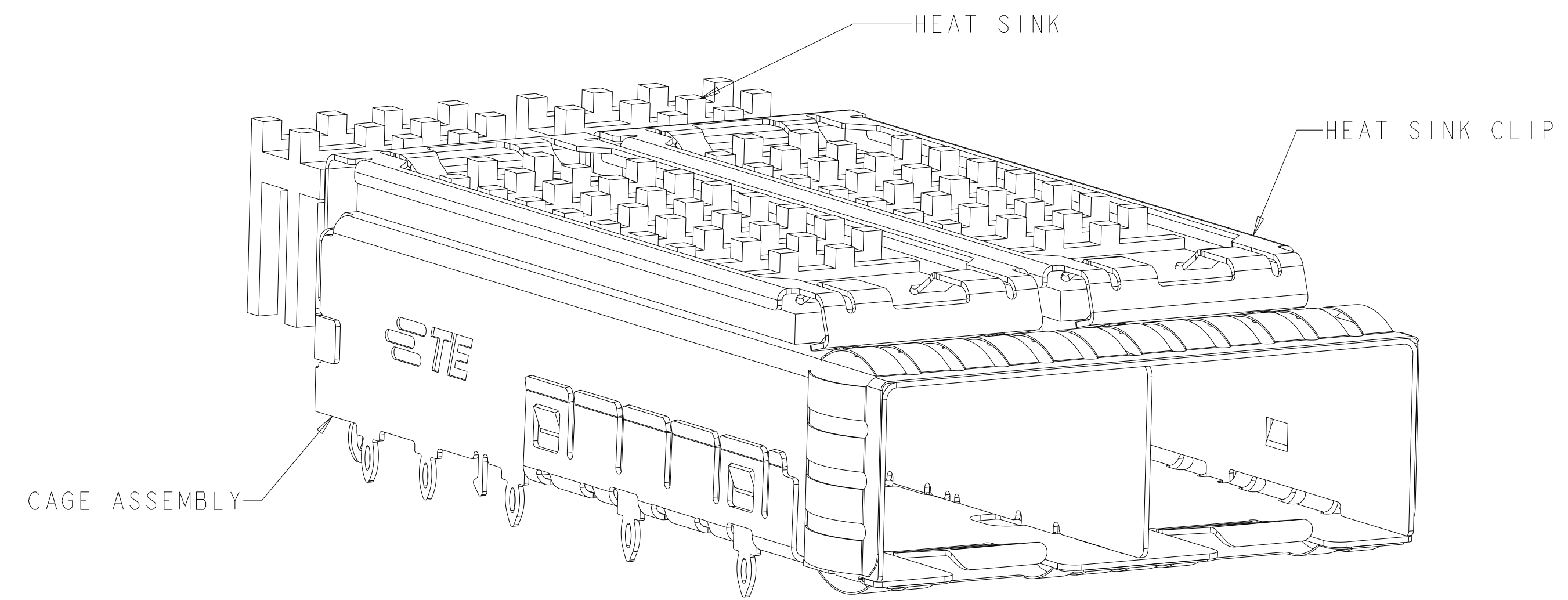
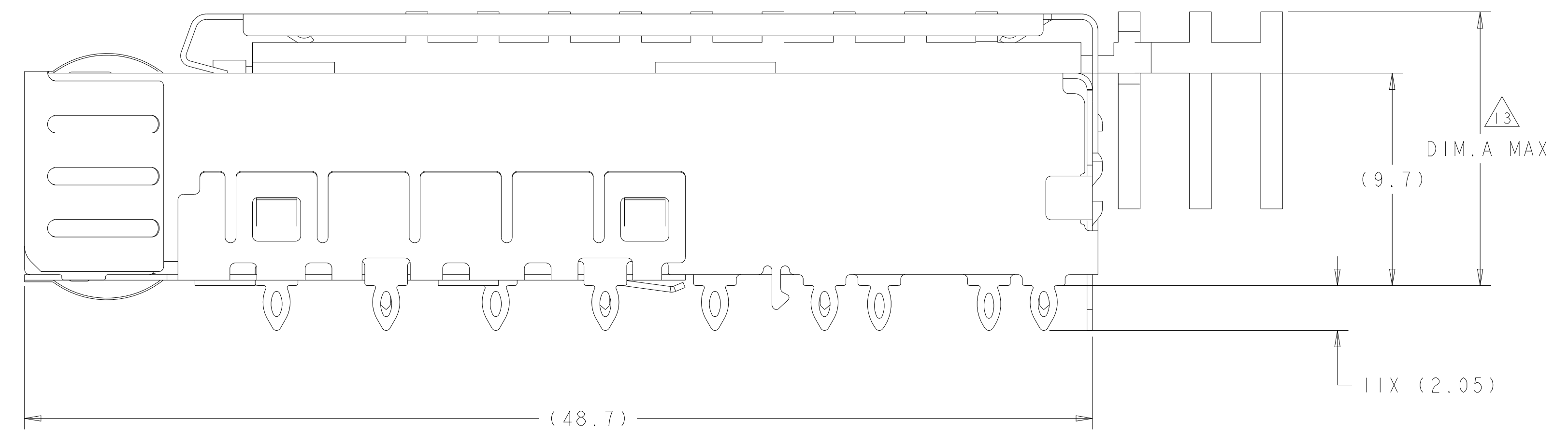
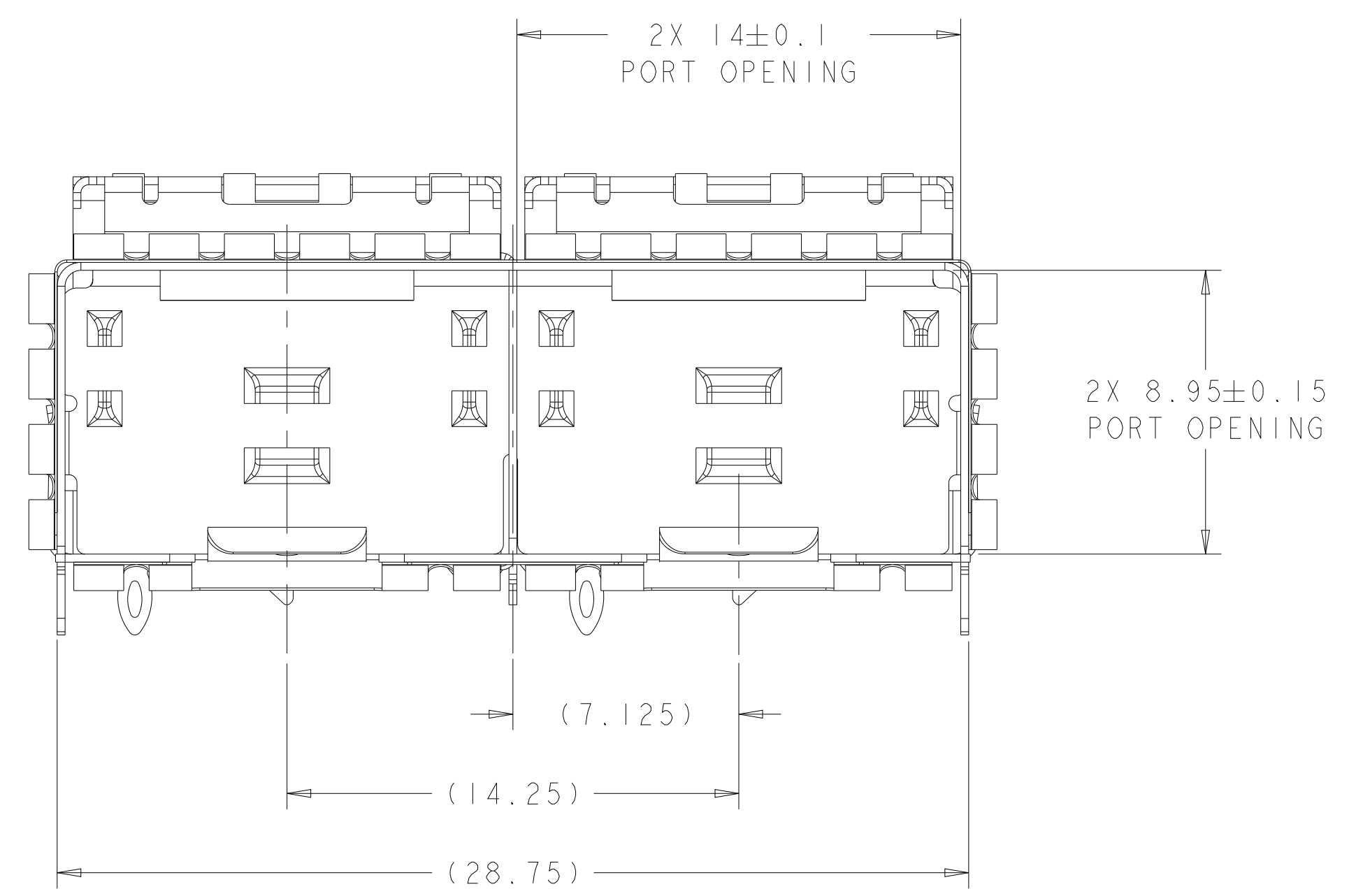


LOC	DIST	REV	DESCRIPTION	DATE	OWN	APVD
GP	00					
A3			ADD PART # -5	27MAY2019	IT	SH
A4			ADD PN 2170190-6	09JAN2020	IT	SH
A5			ADD NEW DASH NUMBER 1--1	07JUN2021	SZ	SZ
A6			CHANGE HS PIN NUMBER OF '1--1 PER REQ'	24JUN2021	SZ	SZ

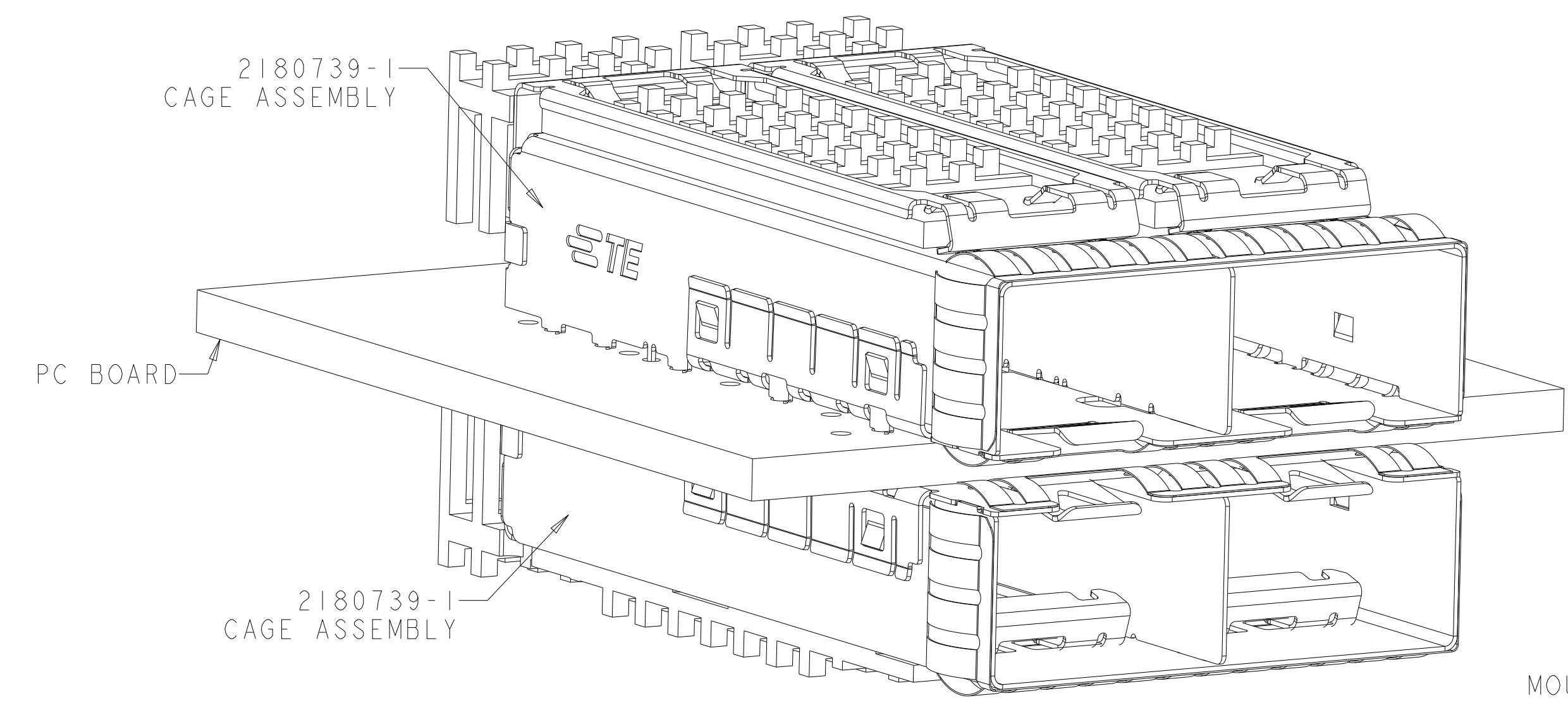


2170190-1  
SCALE 5:1



- 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  
 2170190-5/-6 HEAT SINK: GRAY 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/O THE FIRST ROW PIN	1-2170190-1
PIN TYPE	HEAT SINK W/ THE FRIST ROW PIN	2170190-6
PIN TYPE	HEAT SINK W/ THE FRIST ROW PIN	2170190-5
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. OWN: TIM XUE 21NOV2011  
 CHK: ALEX CAI 21NOV2011  
 APVD: ALEX CAI 21NOV2011

**STE** TE Connectivity

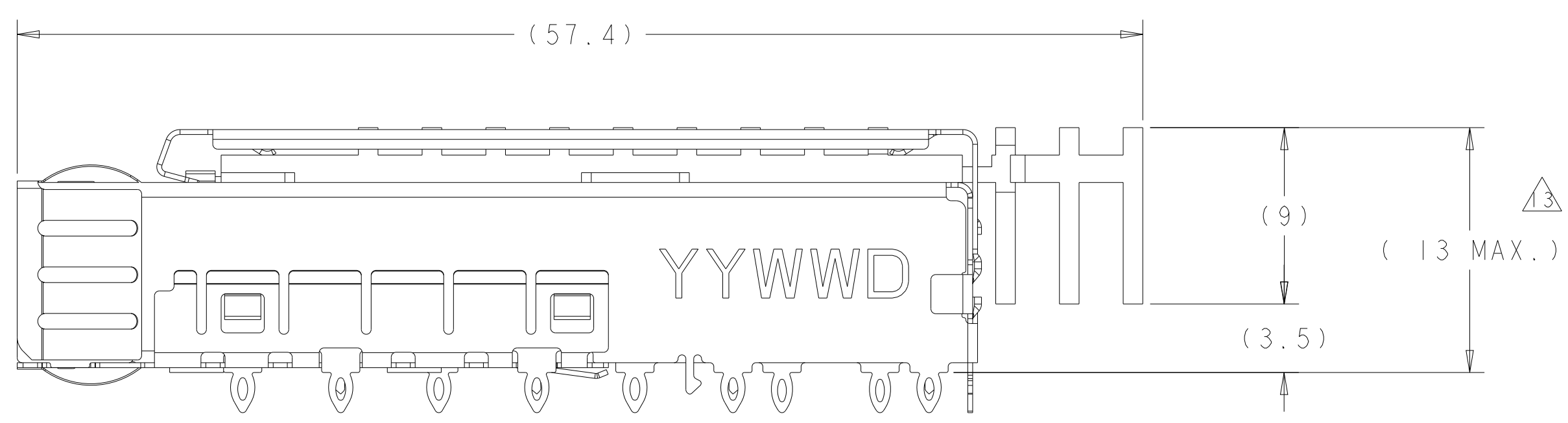
NAME: SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK  
 PRODUCT SPEC: 108-2364  
 APPLICATION SPEC: 114-13120

SIZE: CAGE CODE DRAWING NO: A100779C-2170190  
 RESTRICTED TO: -

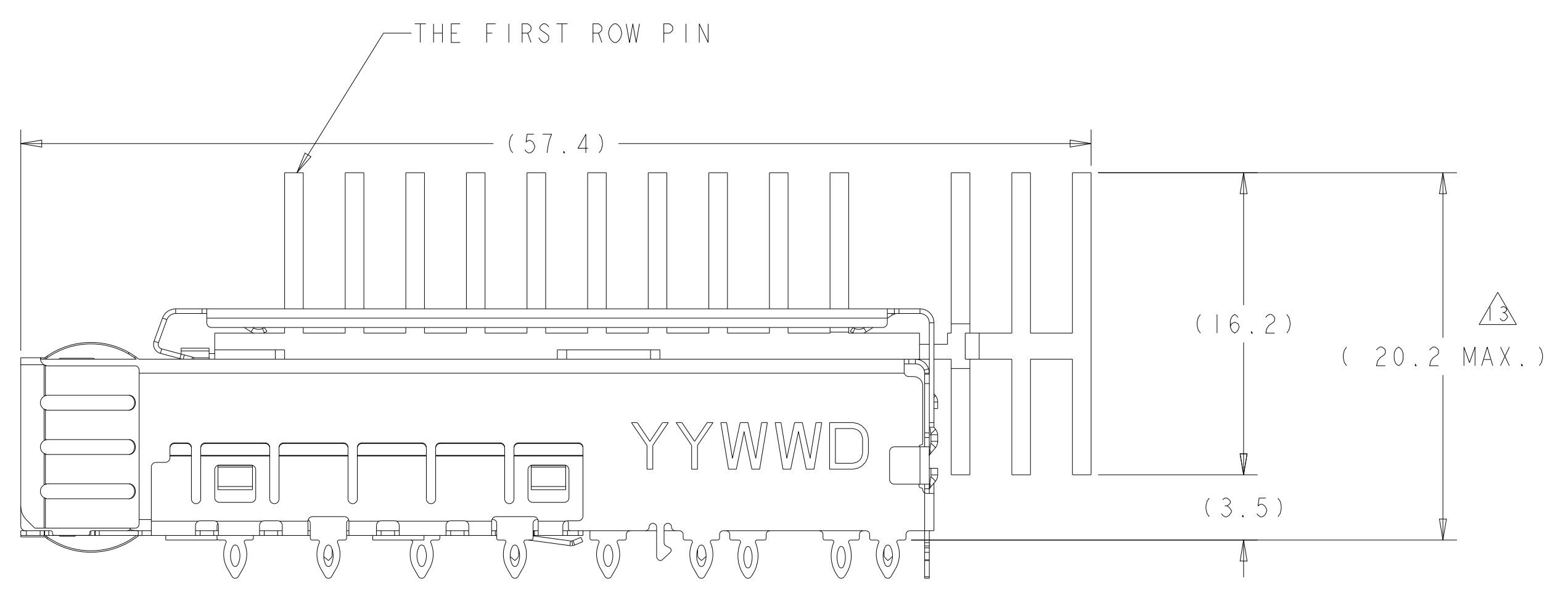
MATERIAL: FINISH:

CUSTOMER DRAWING SCALE: 6:1 SHEET 1 OF 6 REV: A6

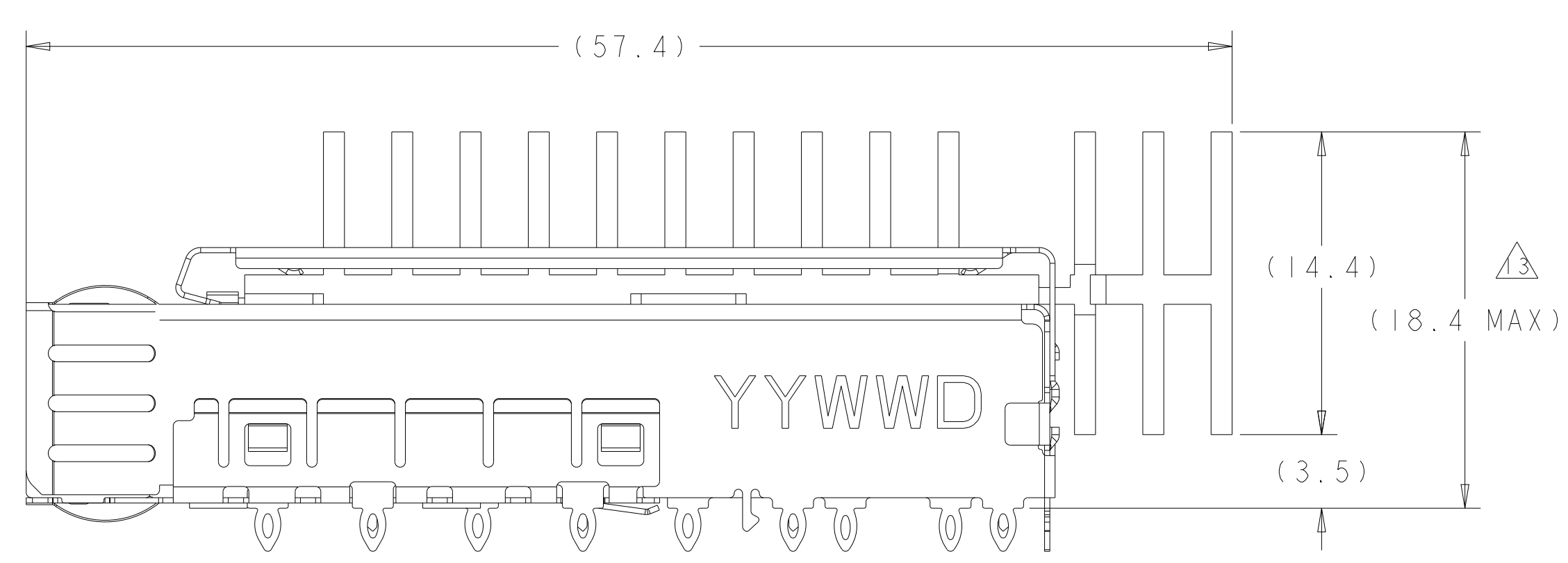
LOC		DIST		REVISIONS			
GP	00	P	LYN	DESCRIPTION	DATE	OWN	APVD
		-		SEE SHEET 1			



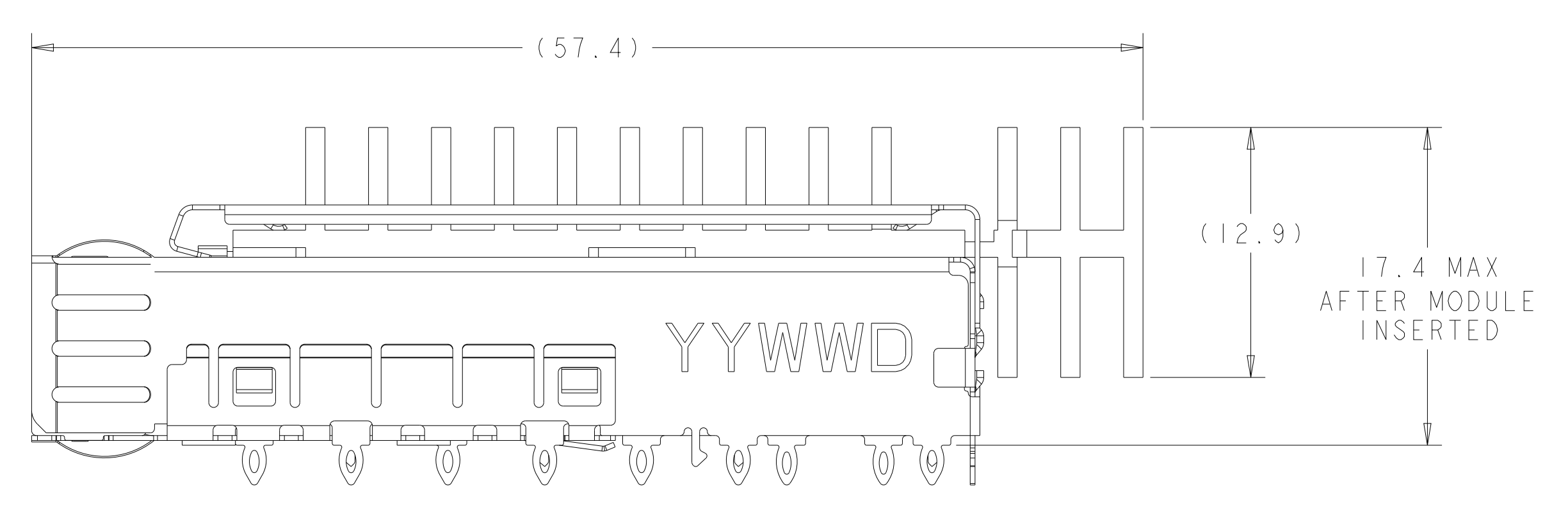
2170190-1 AS SHOWN  
HEAT SINK W/O THE FIRST ROW PIN



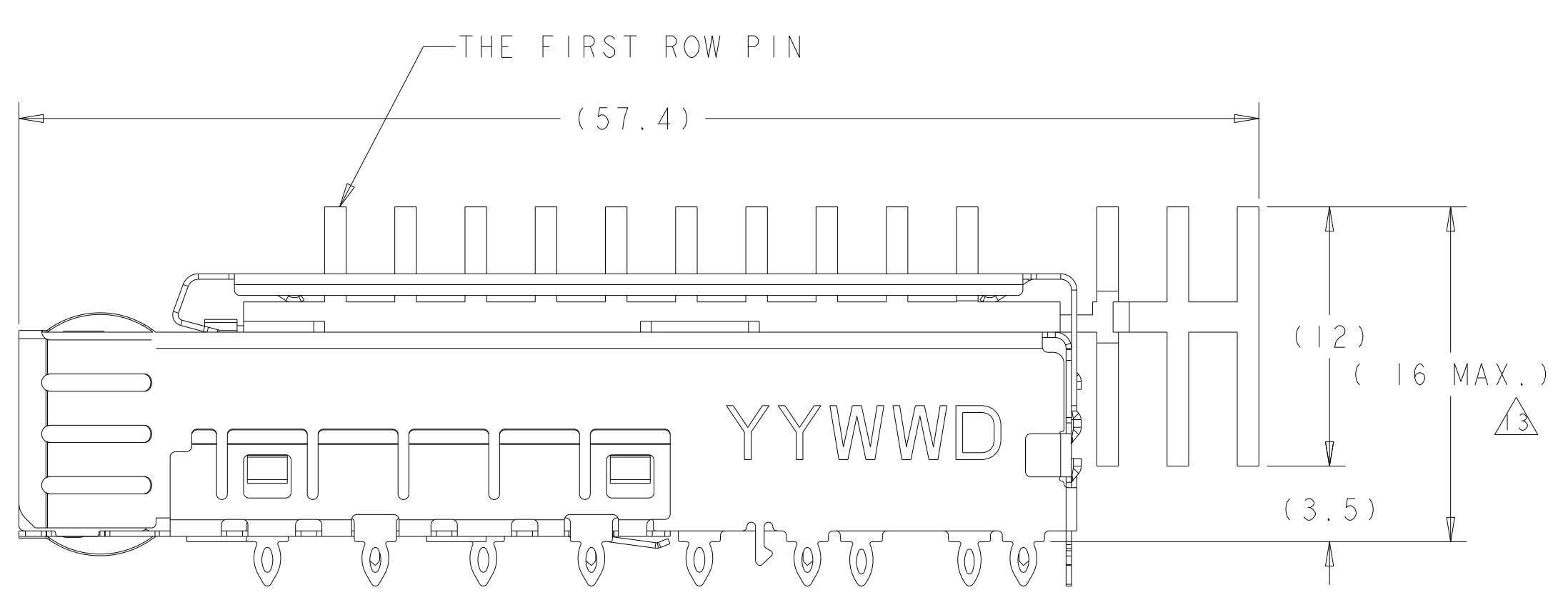
2170190-2 AS SHOWN



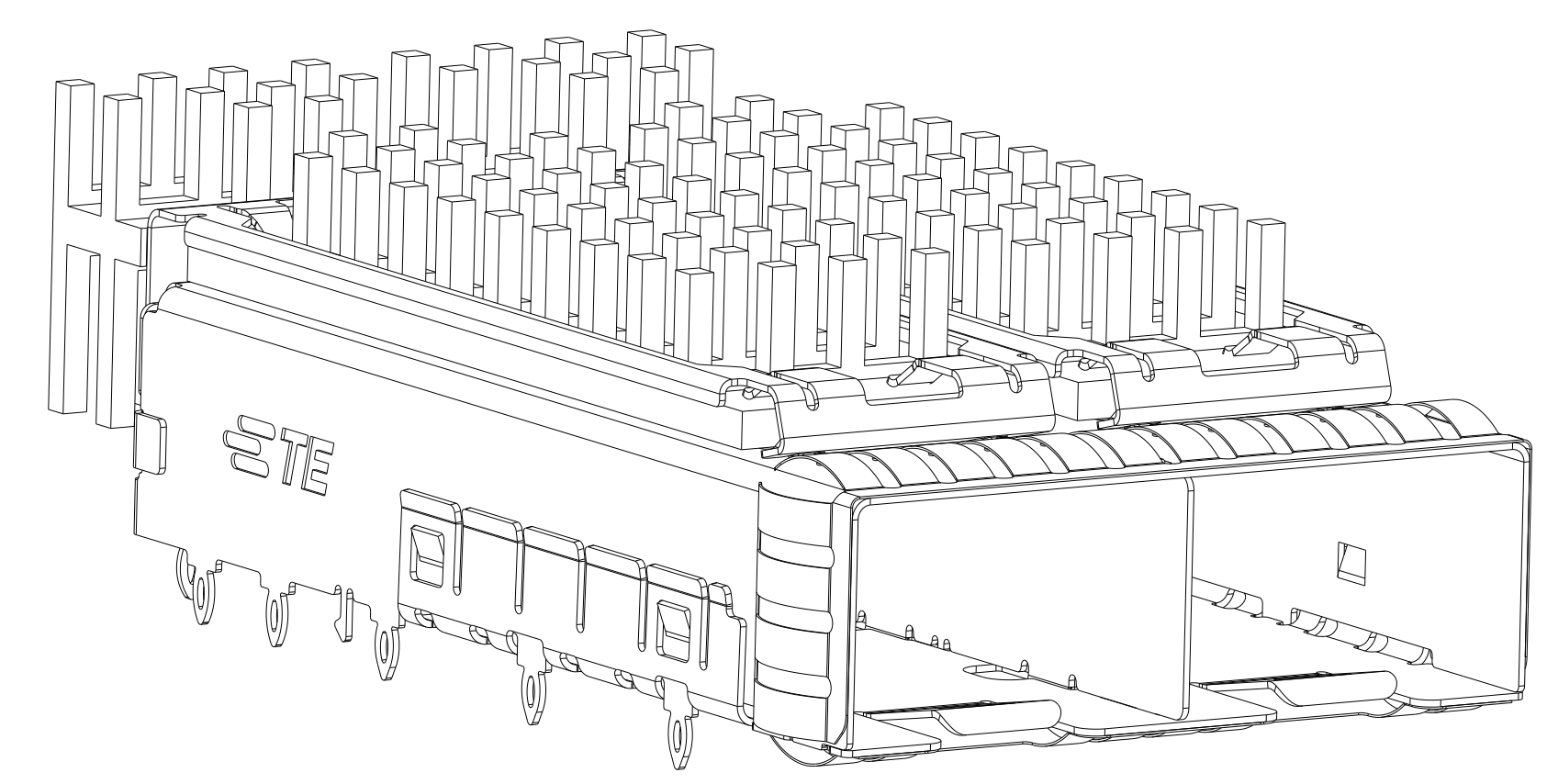
2170190-5 AS SHOWN  
SCALE 4:1



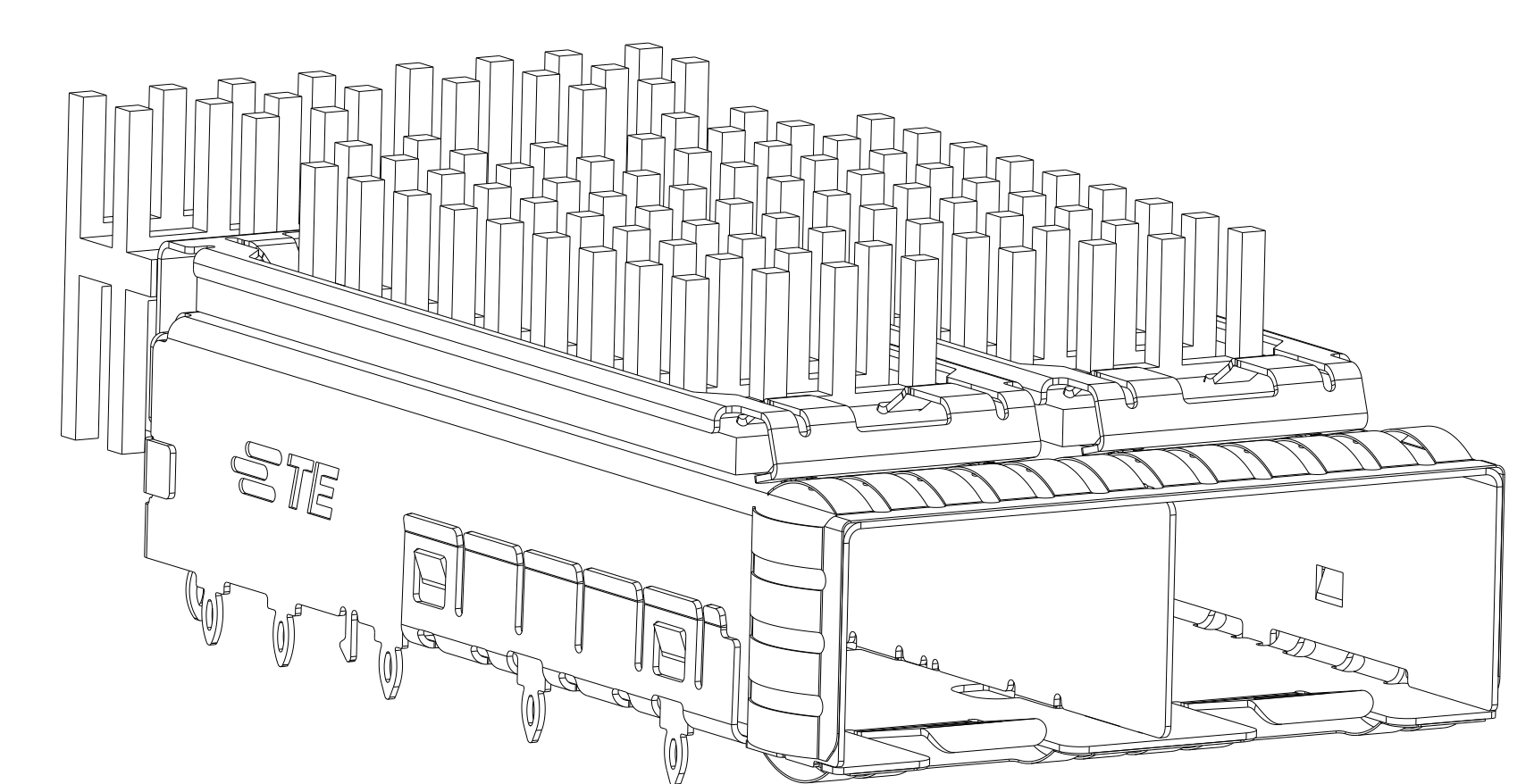
2170190-6 AS SHOWN  
SCALE 4:1



1-2170190-1 AS SHOWN  
SCALE 4:1



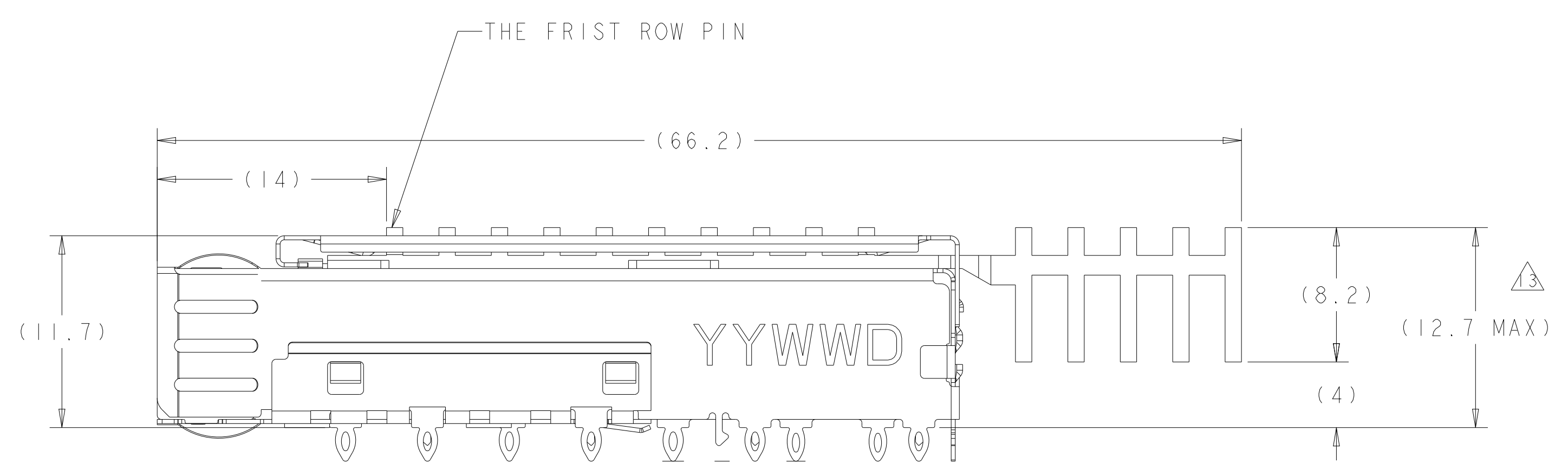
1-2170190-1 AS SHOWN



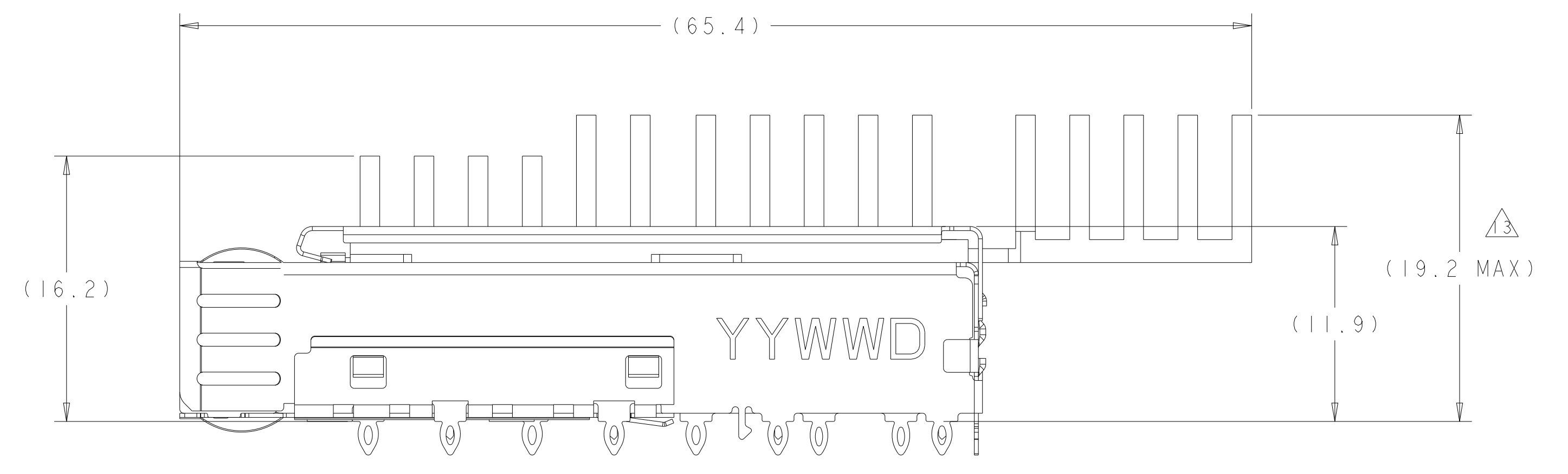
2170190-2, 5, 6 WITH PIN TYPE HEATSINK  
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	TIM XUE	21NOV2011	TE Connectivity NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK SIZE CAGE CODE DRAWING NO RESTRICTED TO
DIMENSIONS:		CHK	ALEX CAI	21NOV2011	
mm		APVD	ALEX CAI	21NOV2011	
0 PLC ±0.13 1 PLC ±0.1 2 PLC ±0.08 3 PLC ±0.05 4 PLC ±0.05 ANGLES ±1		PRODUCT SPEC	108-2364	APPLICATION SPEC	
MATERIAL		FINISH	114-13120	WEIGHT	A100779C=2170190 CUSTOMER DRAWING SCALE 6:1 SHEET 2 OF 6 REV A6

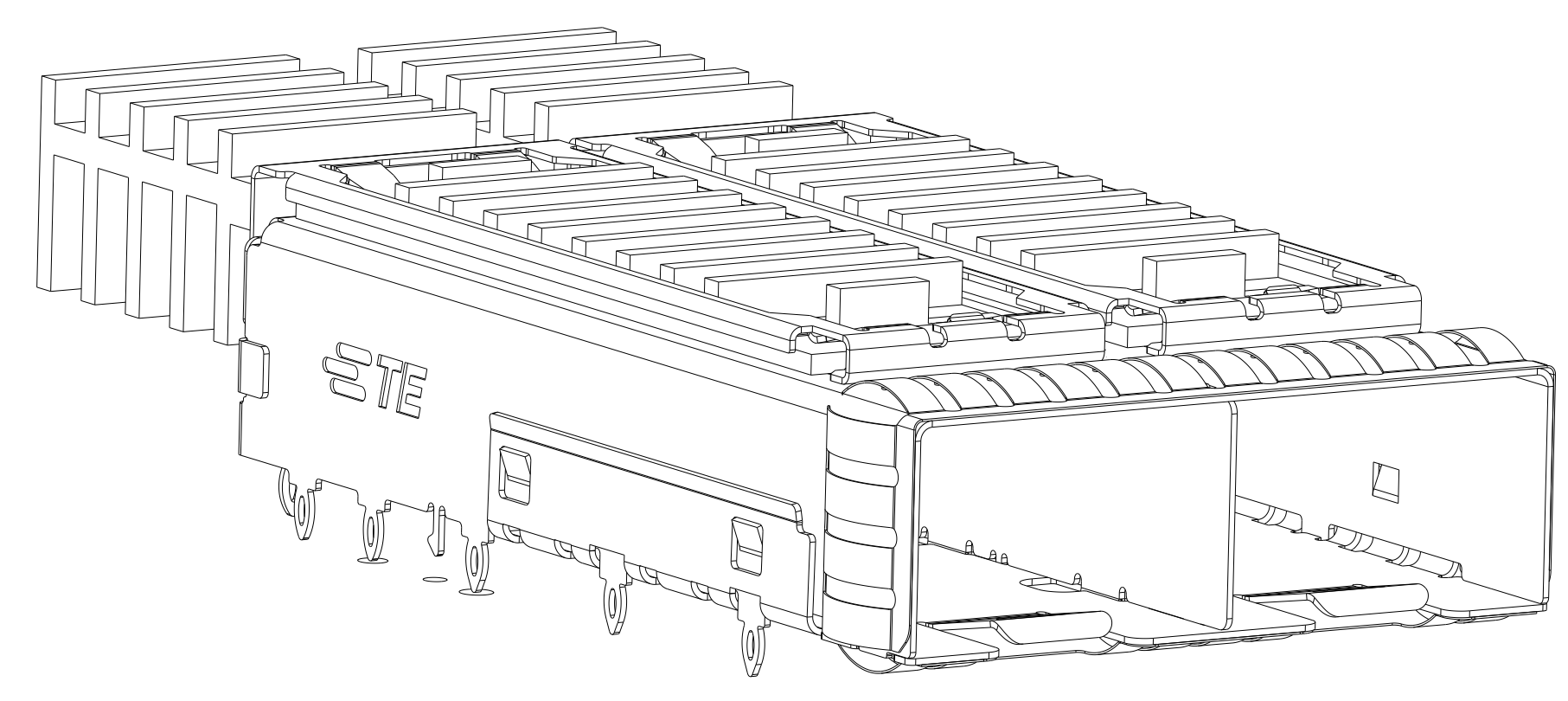
LOC		DIST		REVISIONS			
GP	00	P	LYR	DESCRIPTION	DATE	OWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



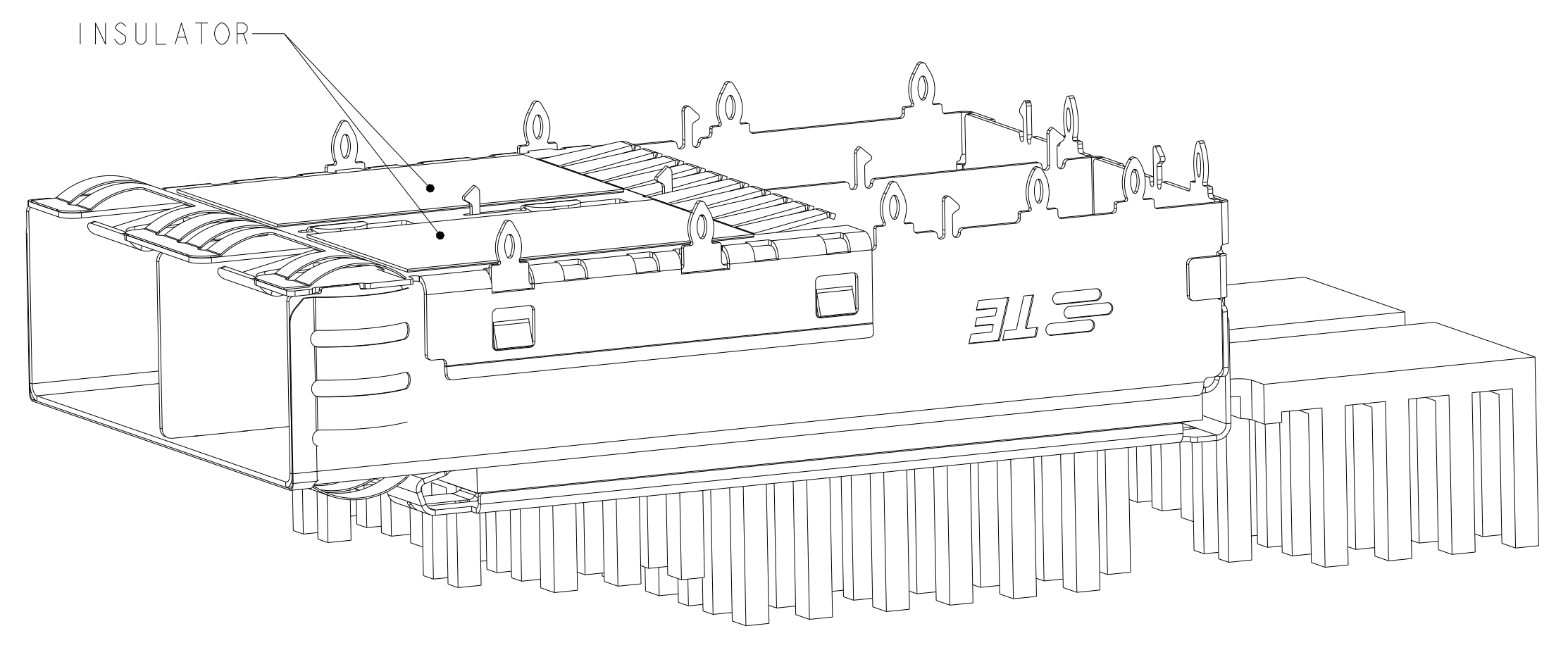
2170190-3 AS SHOWN



2170190-4 AS SHOWN  
SCALE 4:1



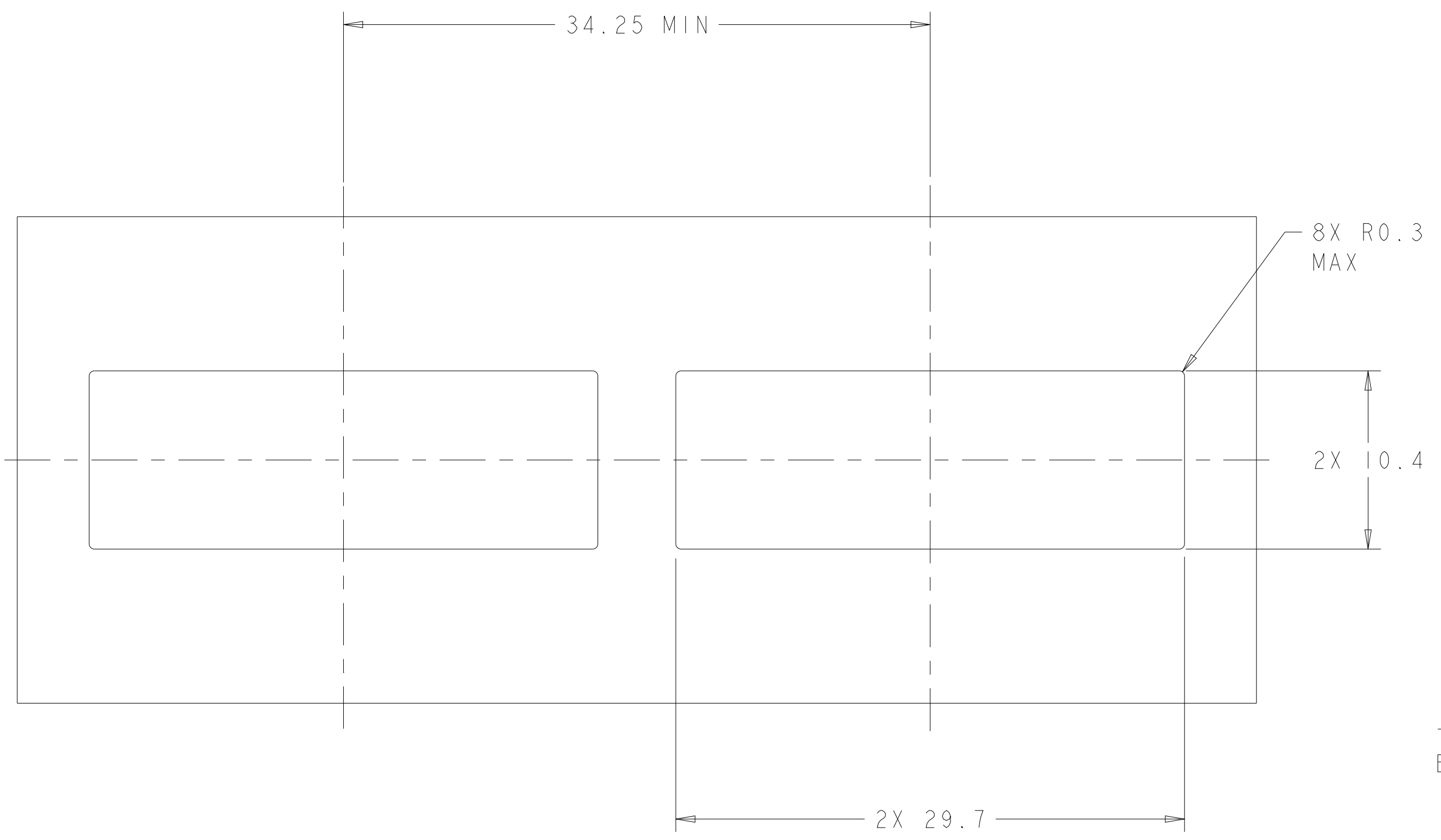
2170190-3 FIN TYPE HEATSINK  
3D VIEW



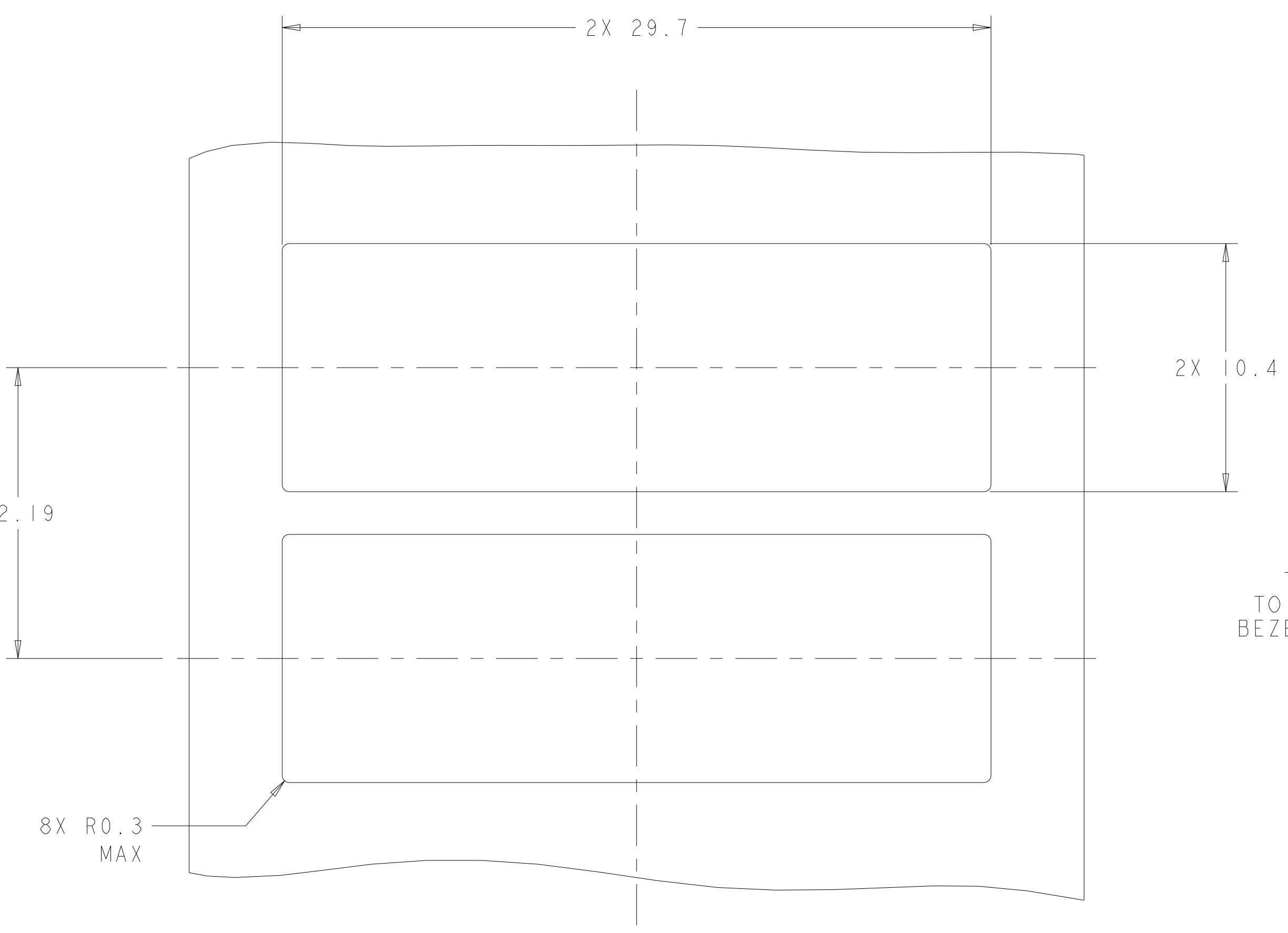
2170190-4 WITH PIN TYPE HEATSINK AND INSULATOR  
3D VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	TIM XUE	21NOV2011	TE Connectivity NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK
DIMENSIONS:		CHK	ALEX CAI	21NOV2011	
mm		APVD	ALEX CAI	21NOV2011	
0 PLC ±0.13 1 PLC ±0.1 2 PLC ±0.08 3 PLC ±0.05 4 PLC ±0.05 ANGLES ±1 FINISH		PRODUCT SPEC	108-2364	APPLICATION SPEC	
MATERIAL		SIZE	114-13120	WEIGHT	RESTRICTED TO
		CAGE CODE	A100779	DRAWING NO	SCALE 6:1 SHEET 3 OF 6 REV A6
		DRAWING NO	C=2170190	CUSTOMER DRAWING	

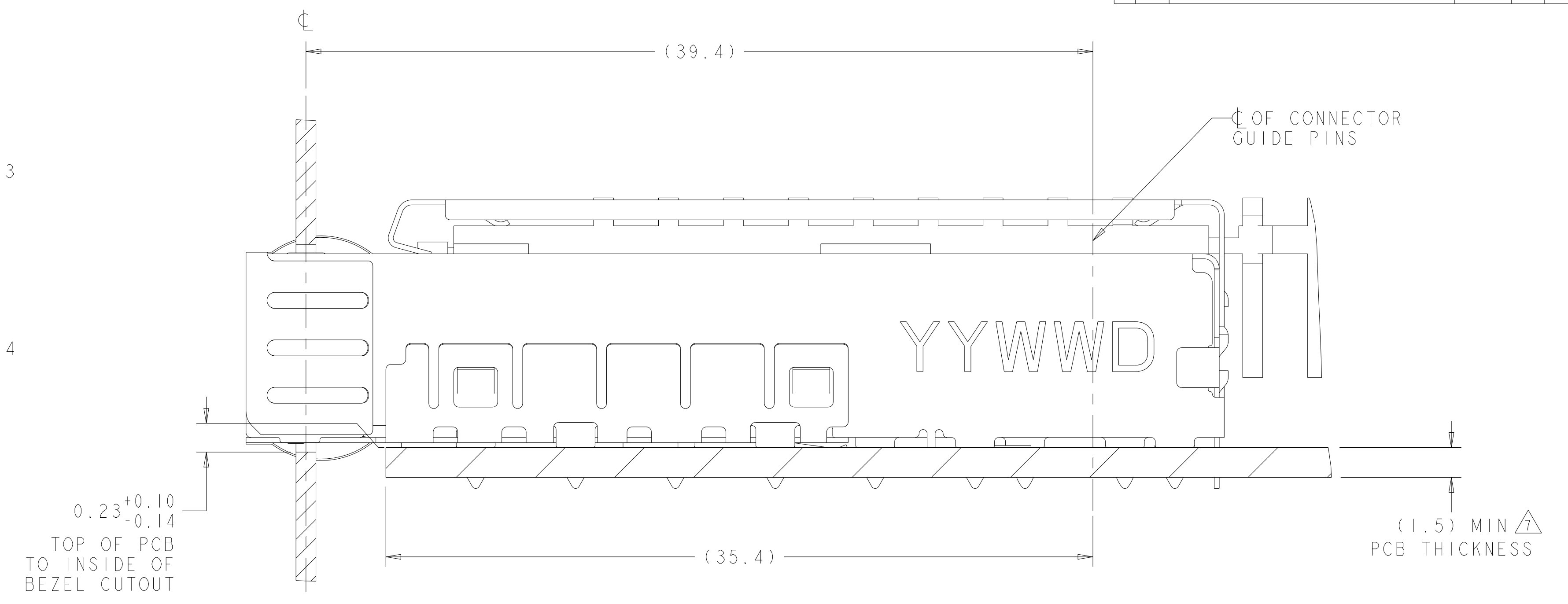
LOC		DIST		REVISIONS			
GP	00	P	LYR	DESCRIPTION	DATE	DMN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



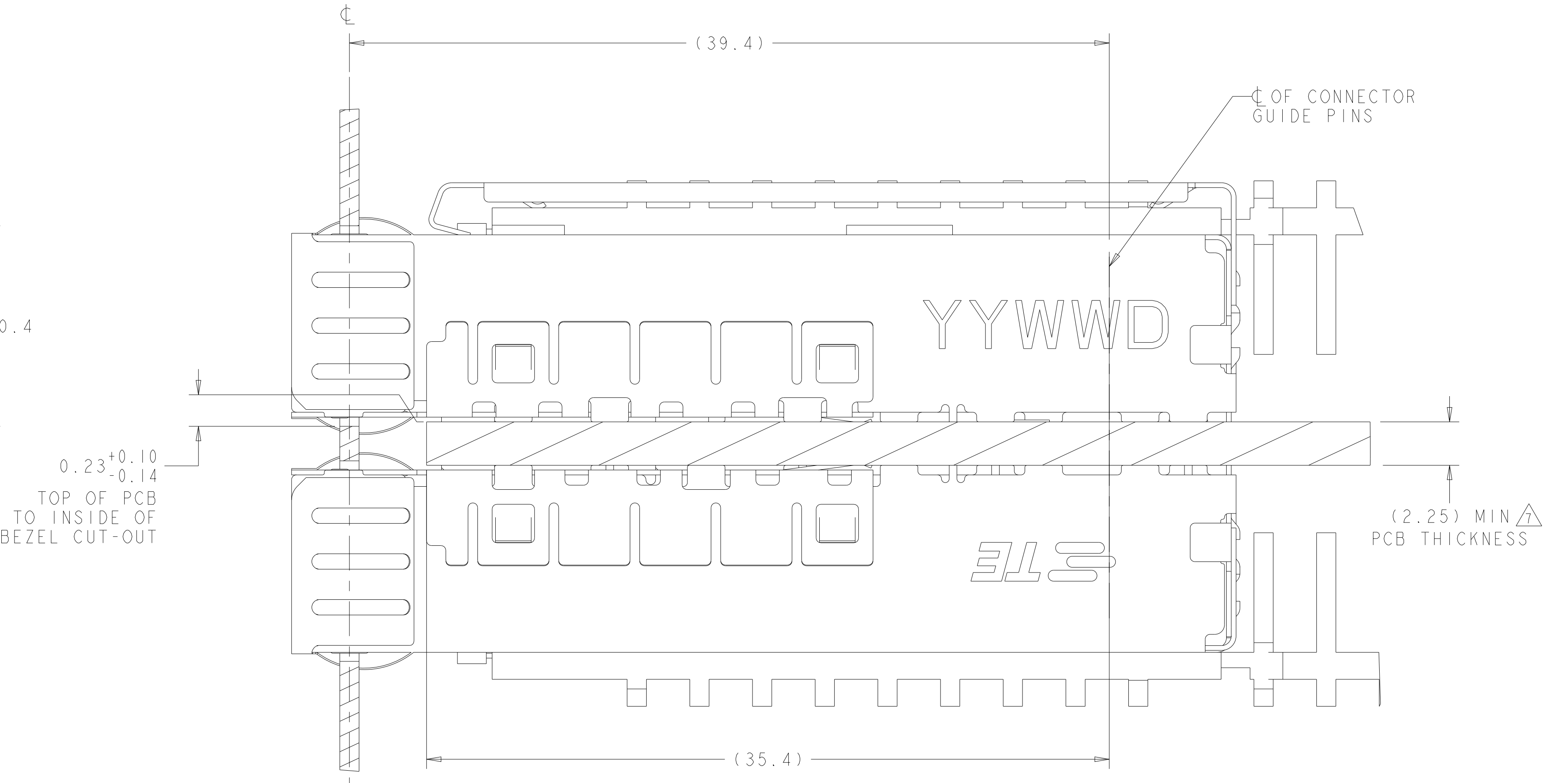
RECOMMENDED BEZEL CUT-OUT  
 SINGLE SIDED APPLICATIONS  
 SCALE 4:1



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.		DMN TIM XUE	21NOV2011	<b>STE</b> TE Connectivity
DIMENSIONS:		CHK ALEX CAI	21NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEX CAI	21NOV2011	NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK
mm		PRODUCT SPEC	108-2364	
0 PLC ±0.13		APPLICATION SPEC	114-13120	SIZE A1
1 PLC ±0.1		WEIGHT	-	
2 PLC ±0.08		CAGE CODE	2170190	RESTRICTED TO
3 PLC ±0.05		SCALE	2:1	
4 PLC ±0.05		DRAWING NO	2170190	SHEET 4 OF 6
ANGLES ±0.5		REV	A6	
FINISH		CUSTOMER DRAWING		



