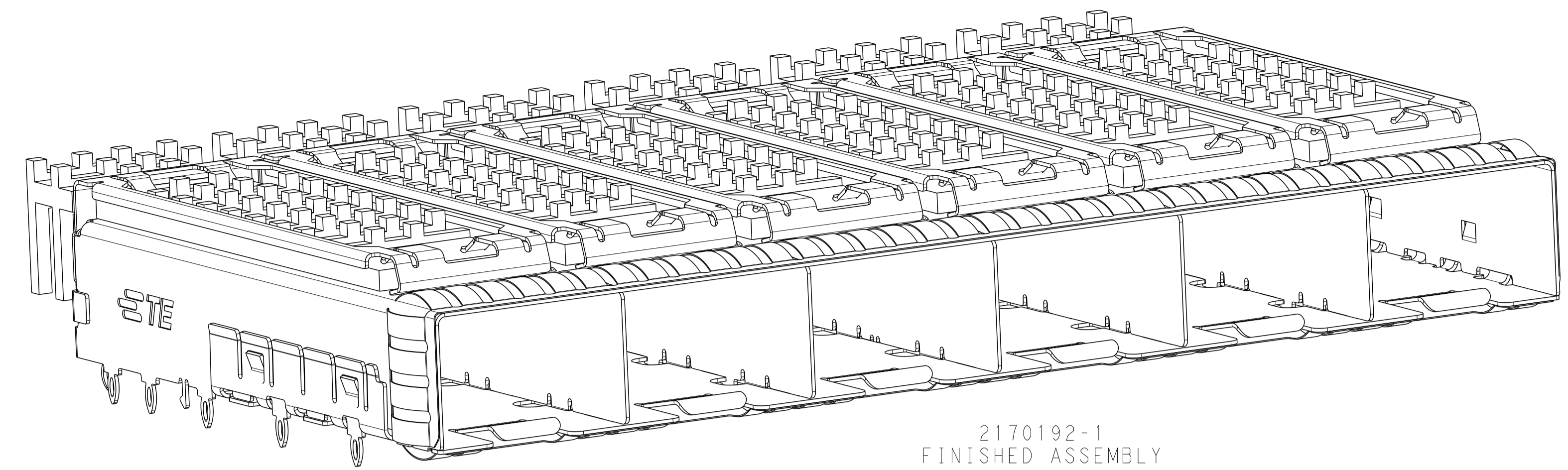
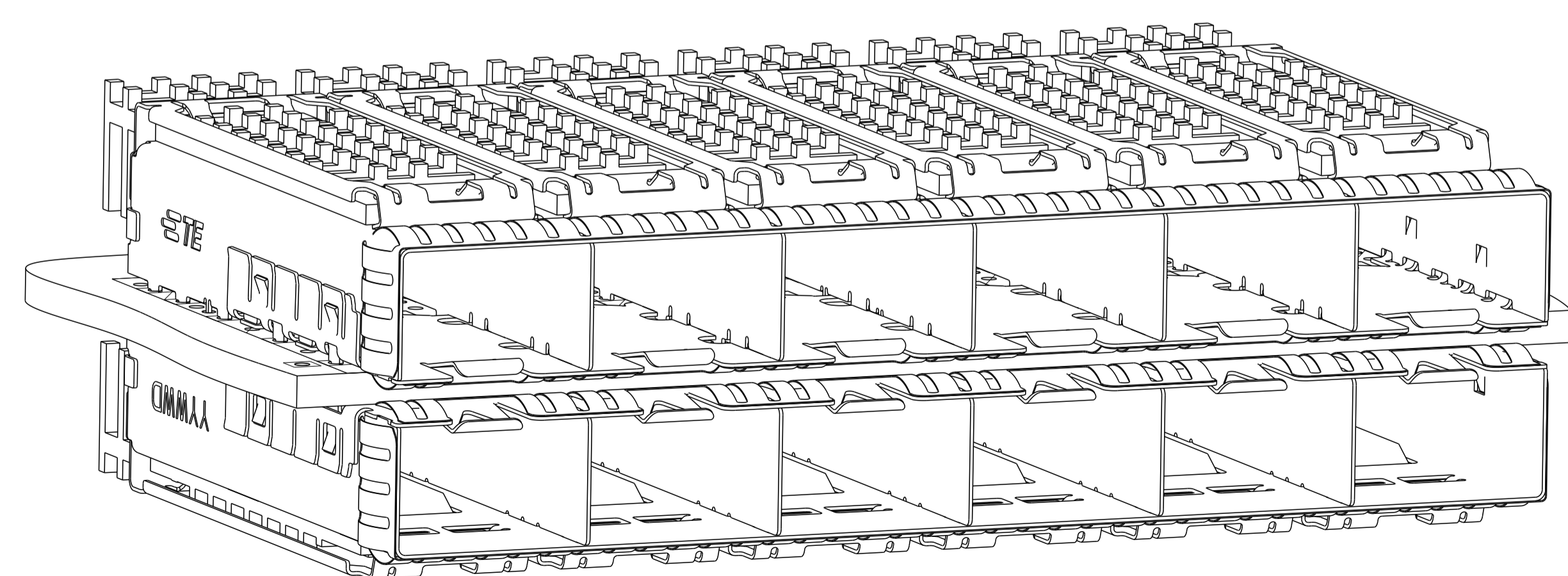
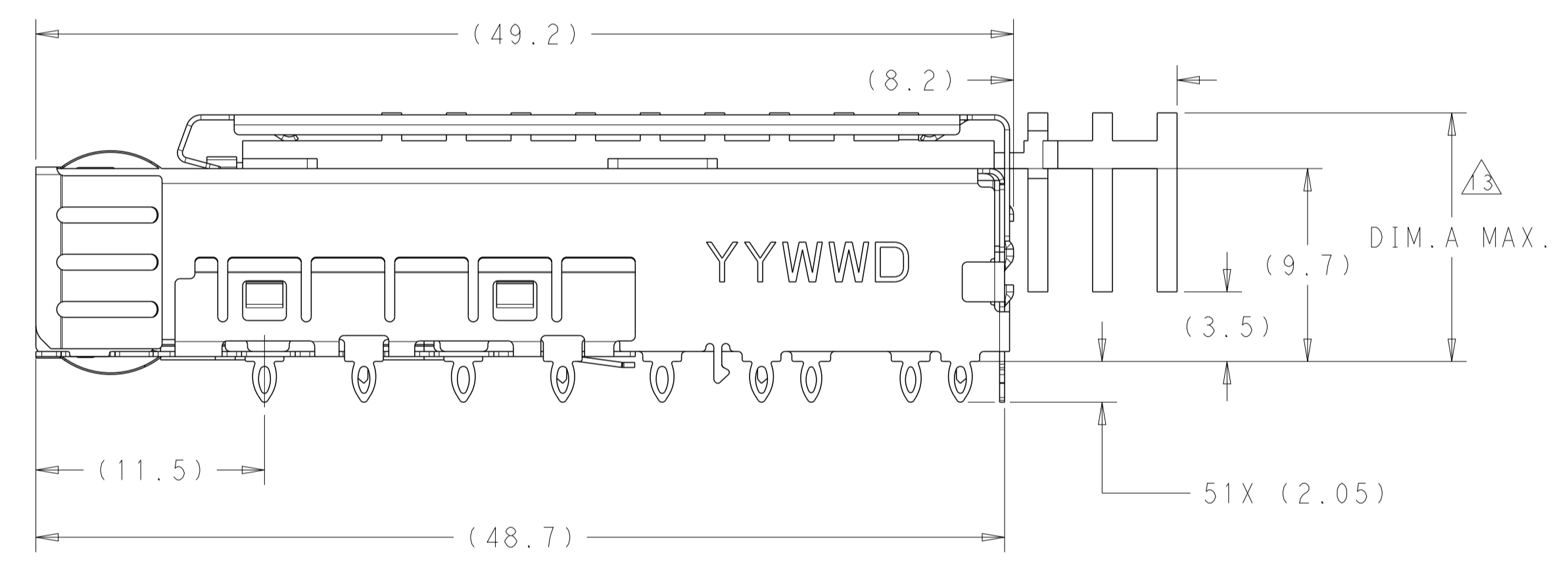
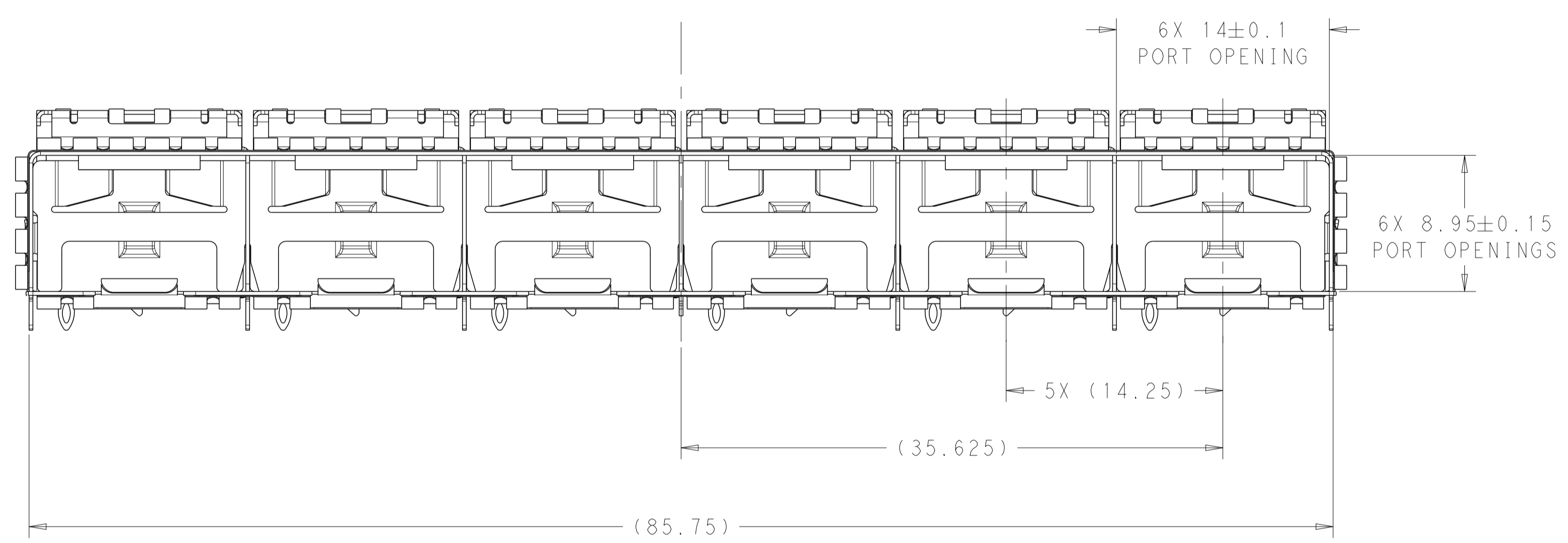


LOC		DIST		REVISIONS			
P	LTN	DESCRIPTION	DATE	DMN	APVD		
A		INITIAL RELEASE	10AUG2015	JW	SH		
A1		REVISED PER ECN-24-272345	25JUN2024	KH	SZ		



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

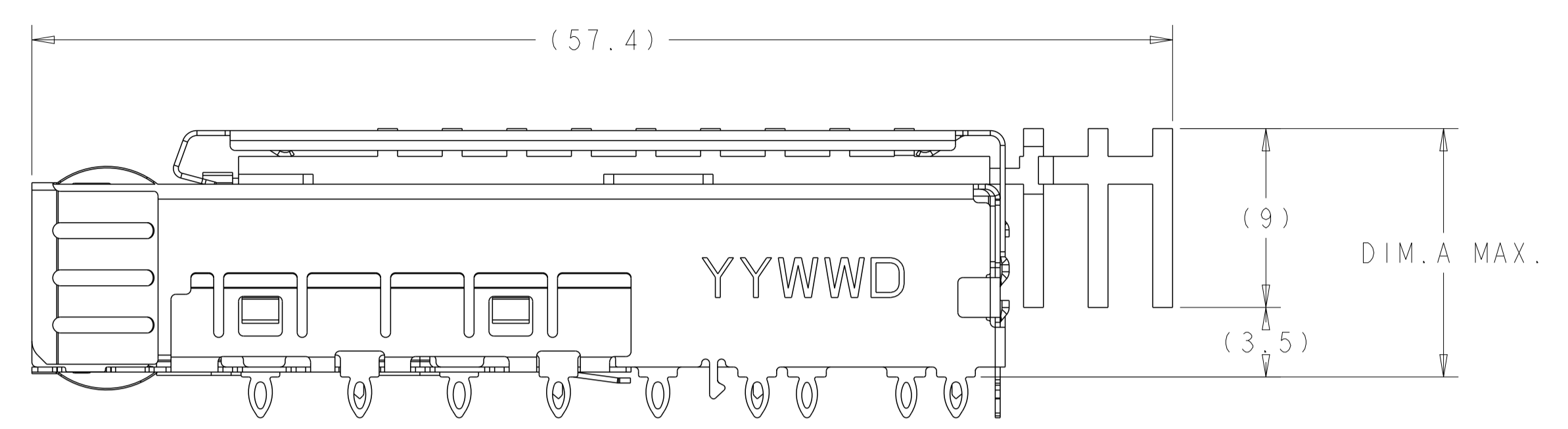
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
13.10 MAX.(WORKING)	FIN TYPE	HEAT SINK W/ THE FIRST ROW PIN	2170192-3
20.2 MAX	PIN TYPE	HEAT SINK W/ THE FIRST ROW PIN	2170192-2
13 MAX	PIN TYPE	HEAT SINK W/O THE FIRST ROW PIN	2170192-1
A	HEAT SINK	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

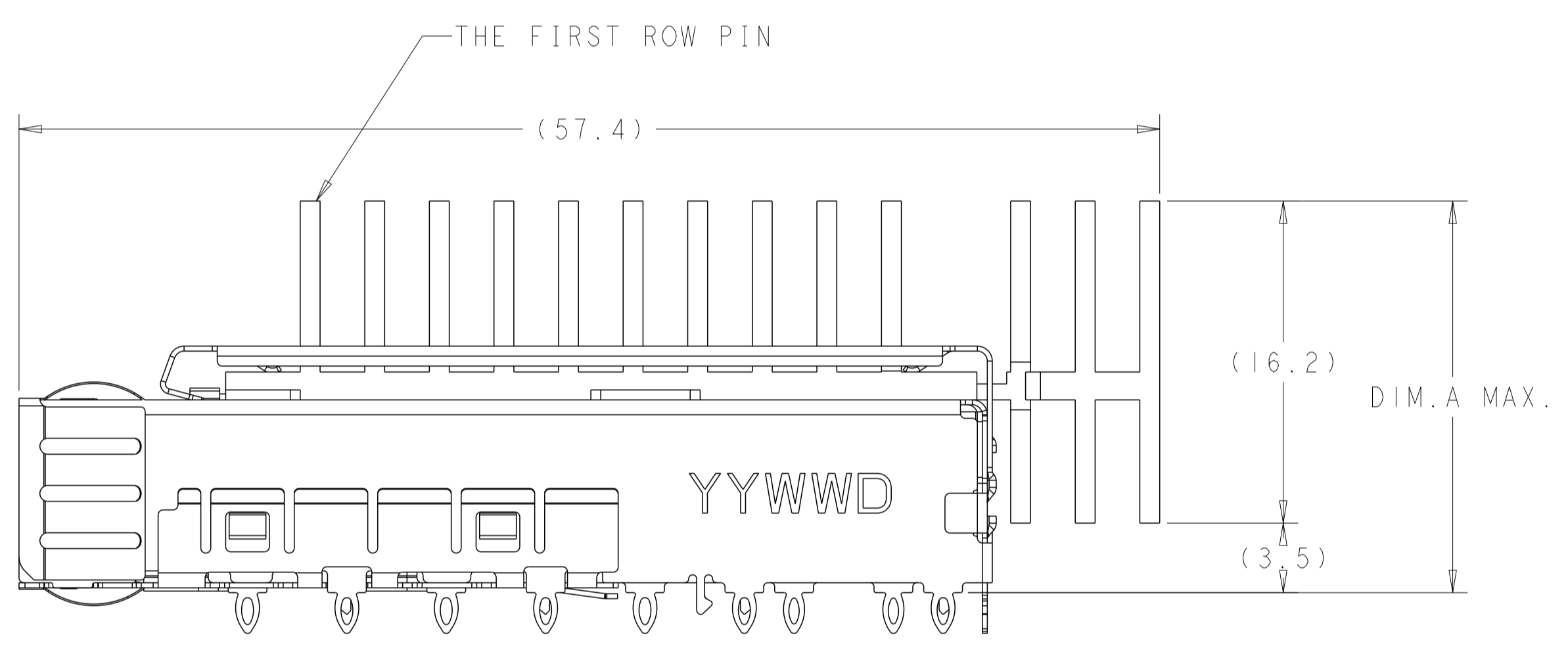
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DMN: TIM XUE 22NOV2011	TE Connectivity NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2170192 WEIGHT: - Customer Drawing
mm	0 PLC ±0.25 1 PLC ±0.20 2 PLC ±0.15 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°	CHK: ALEX CAI 22NOV2011	
		APVD: ALEX CAI 22NOV2011	

SCALE 4:1 SHEET 1 OF 5 REV A1

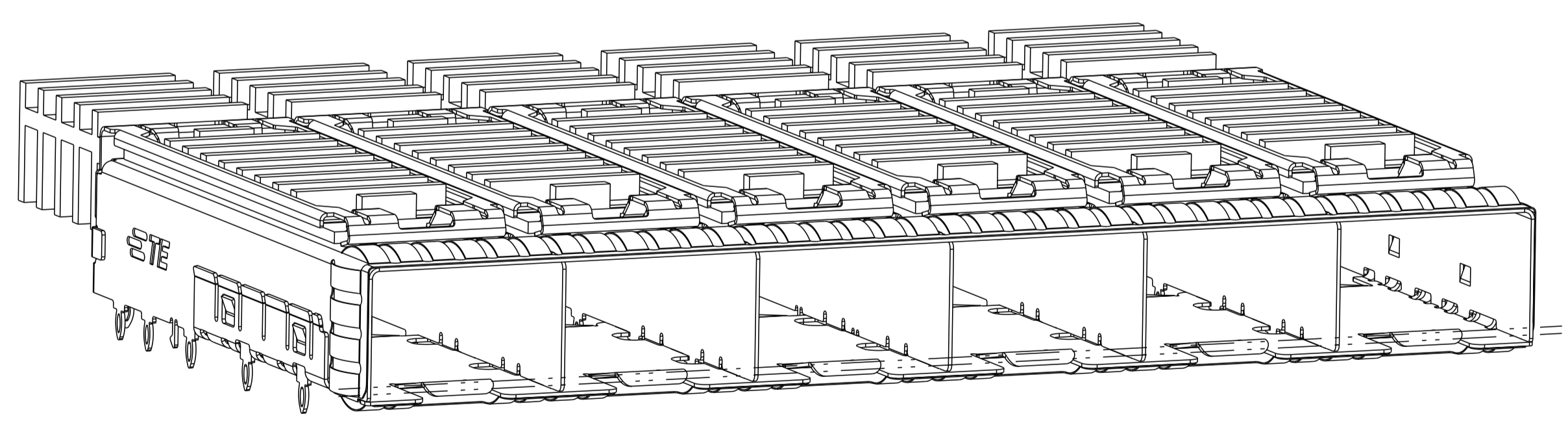
LOC	DIST	REVISIONS					
GP	00	P	LYR	DESCRIPTION	DATE	OWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



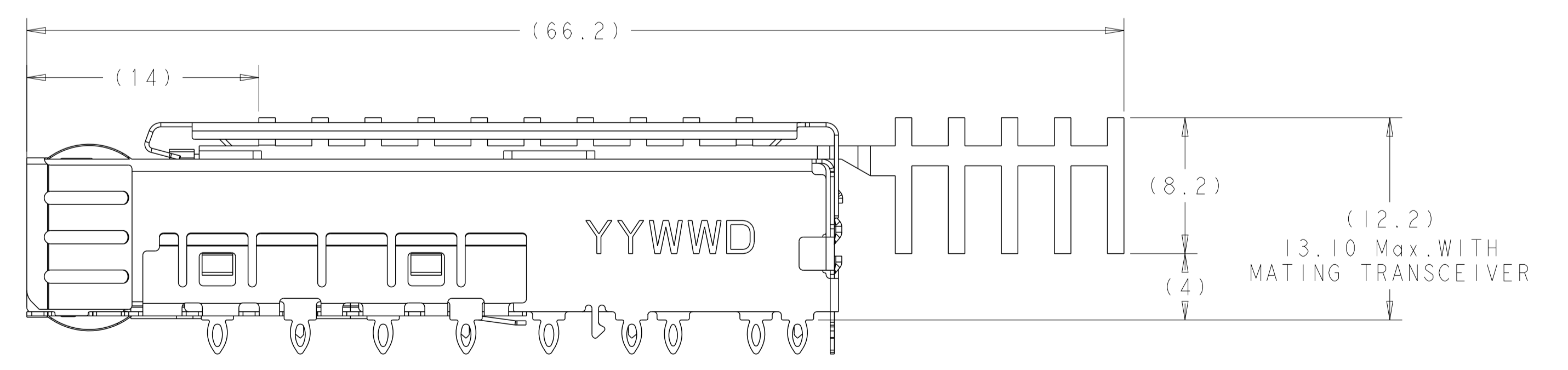
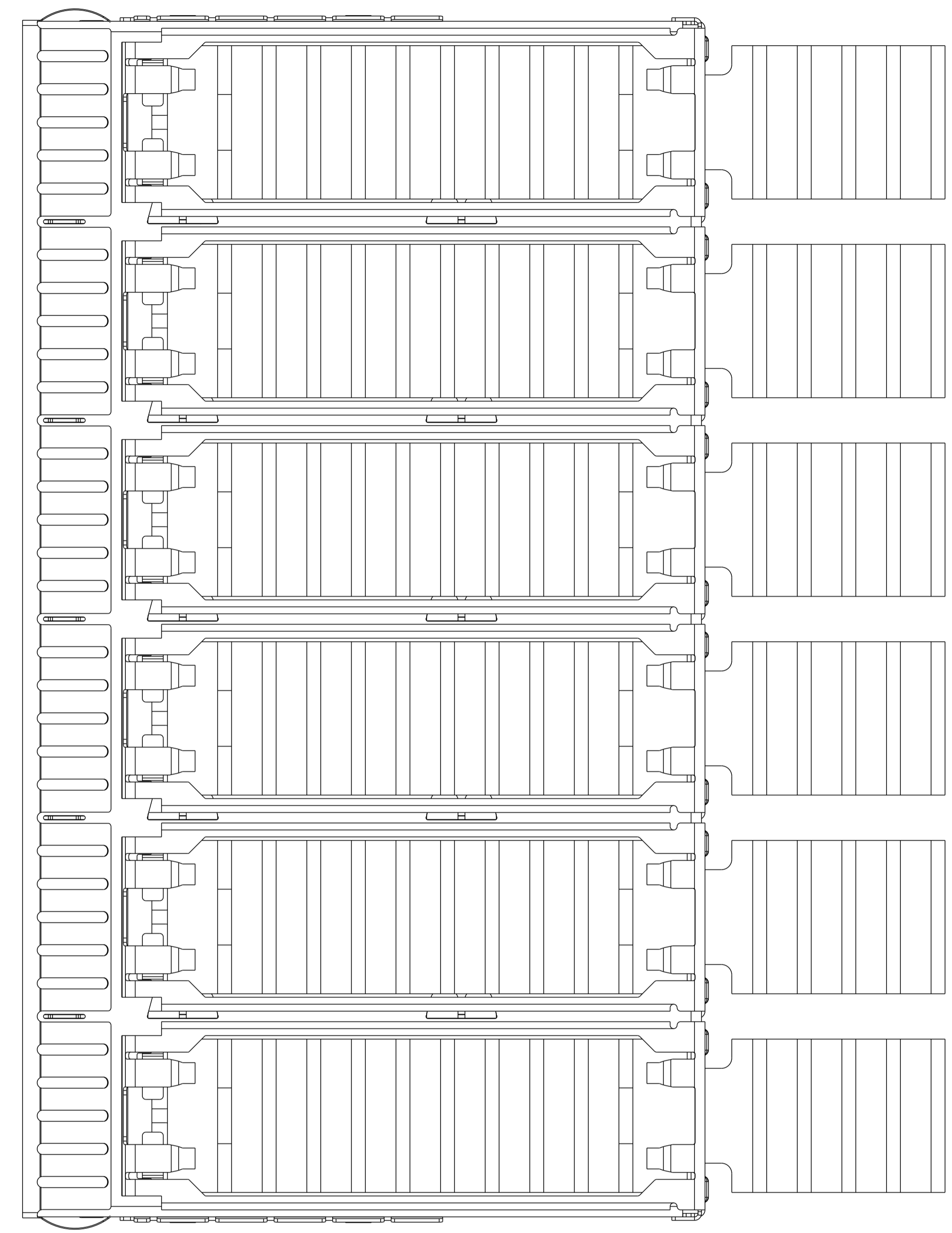
2170192-1 AS SHOWN  
HEAT SINK W/O THE FIRST ROW PIN



2170192-2 AS SHOWN



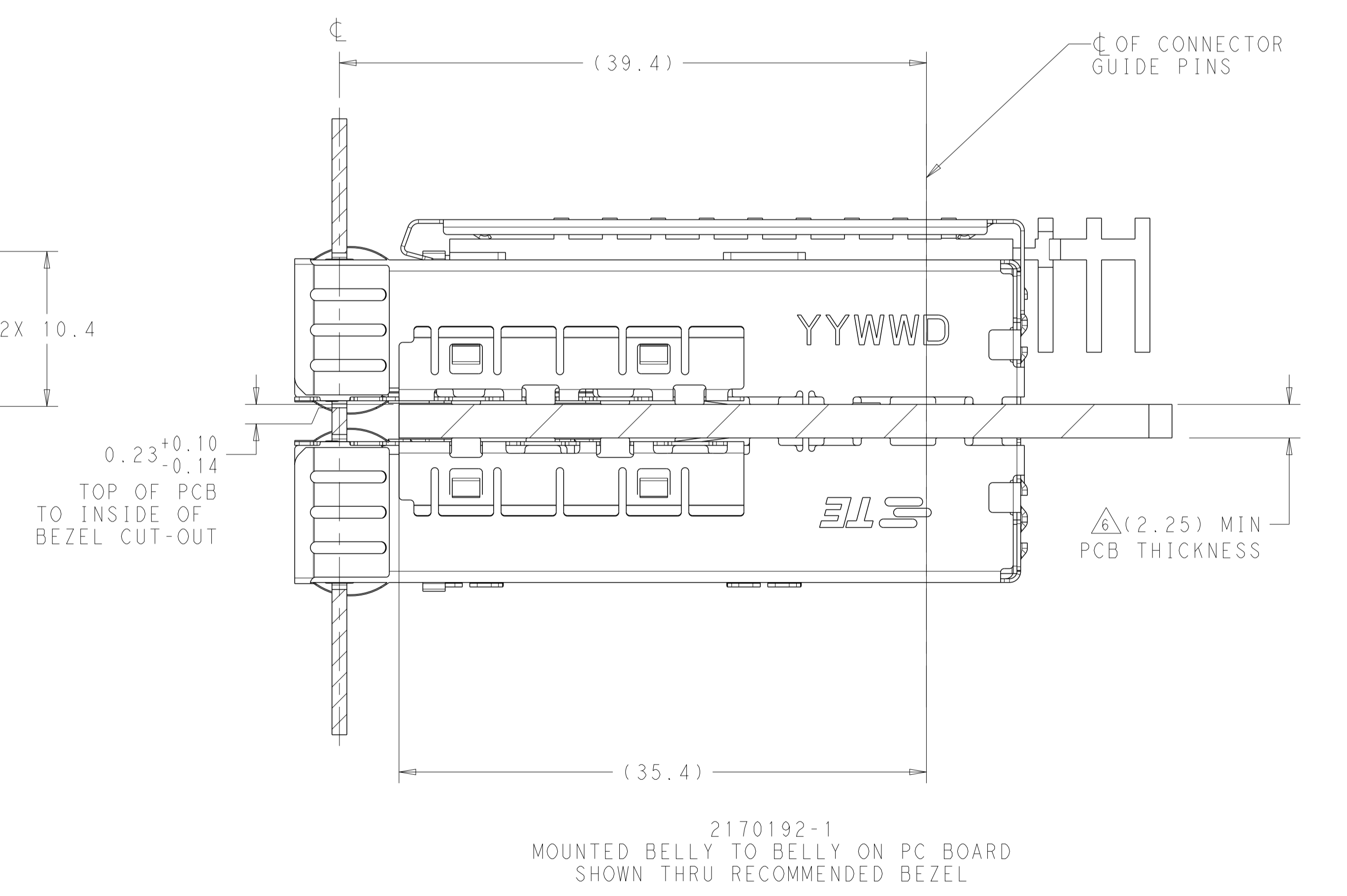
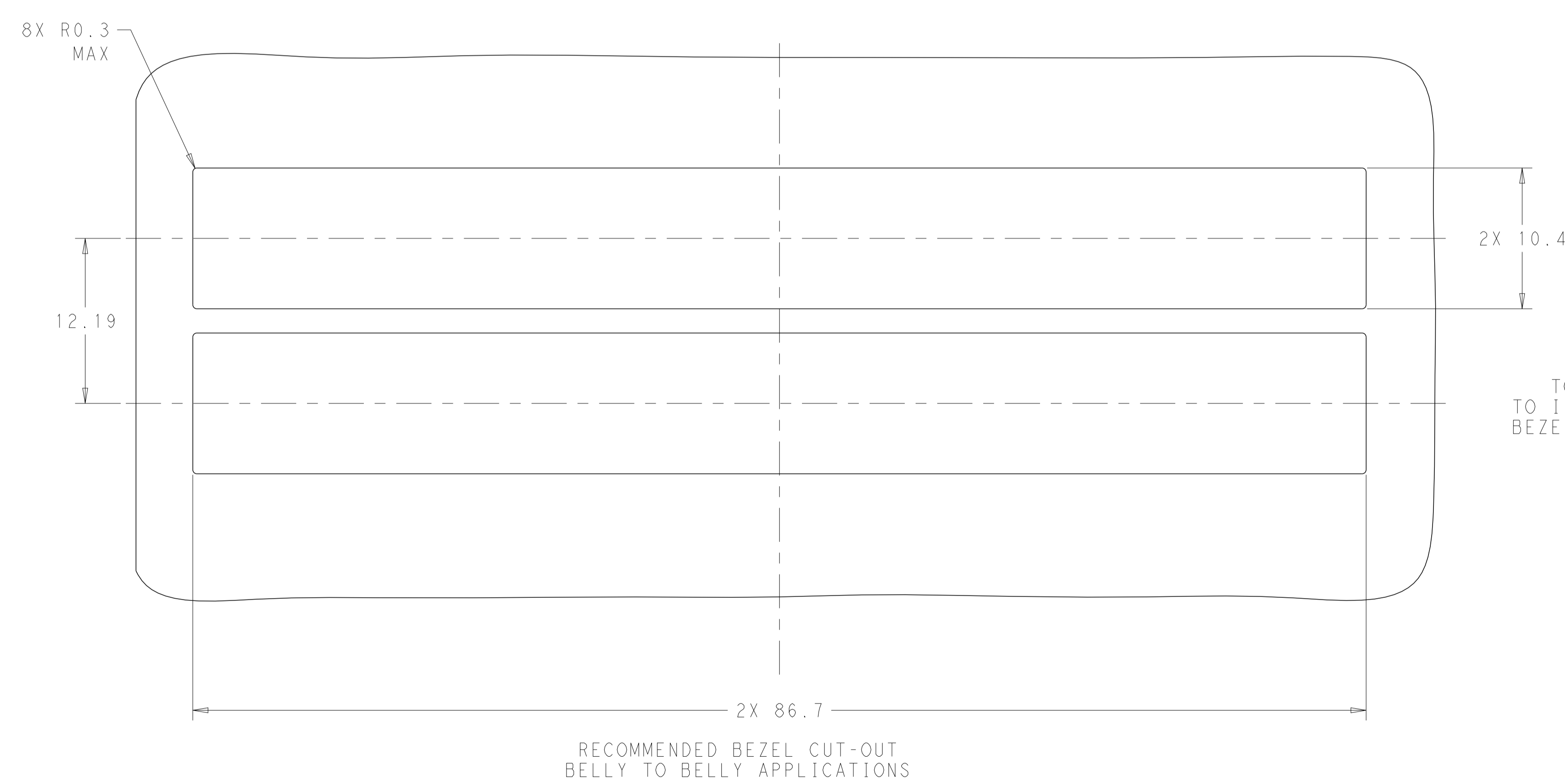
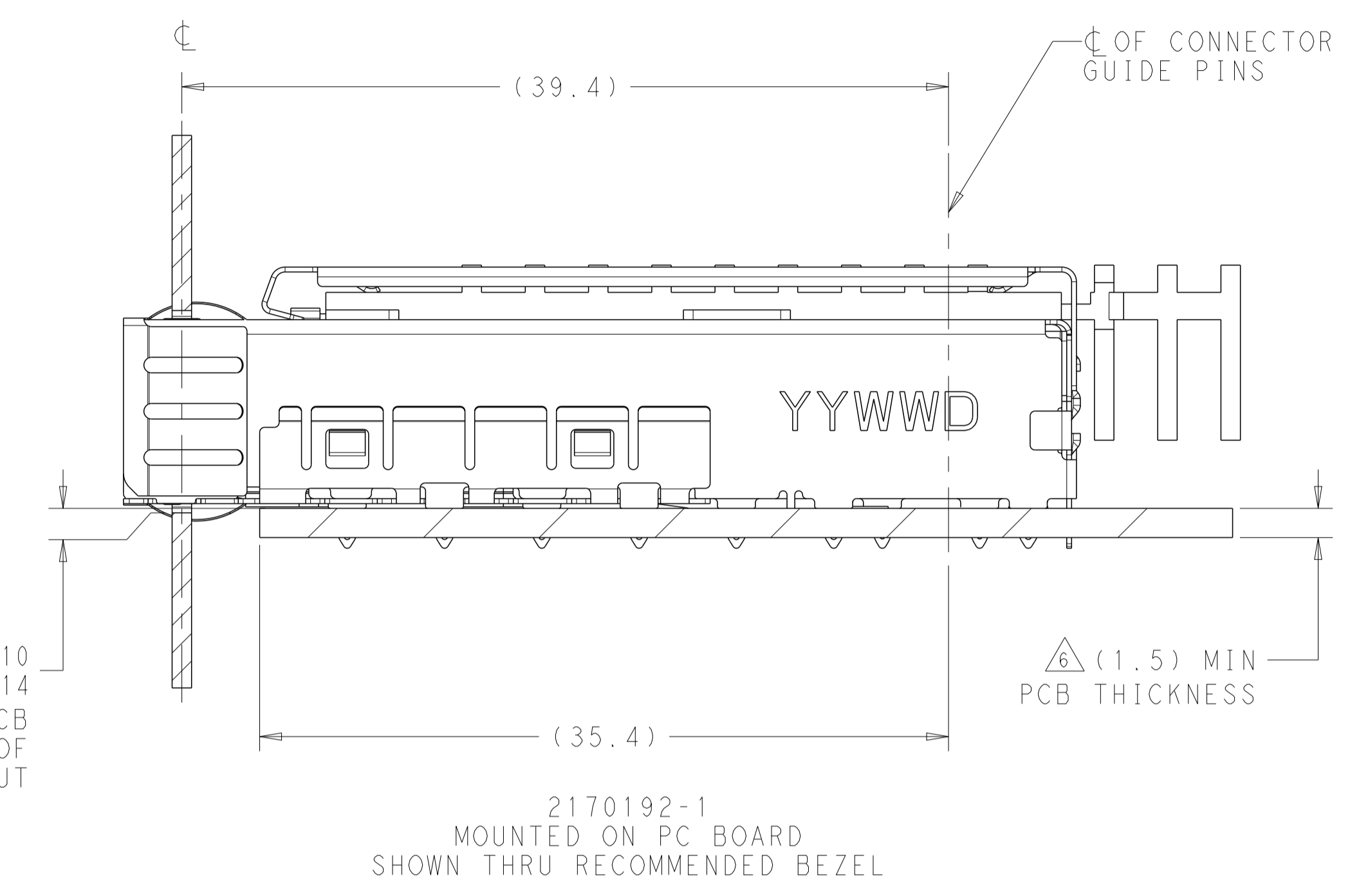
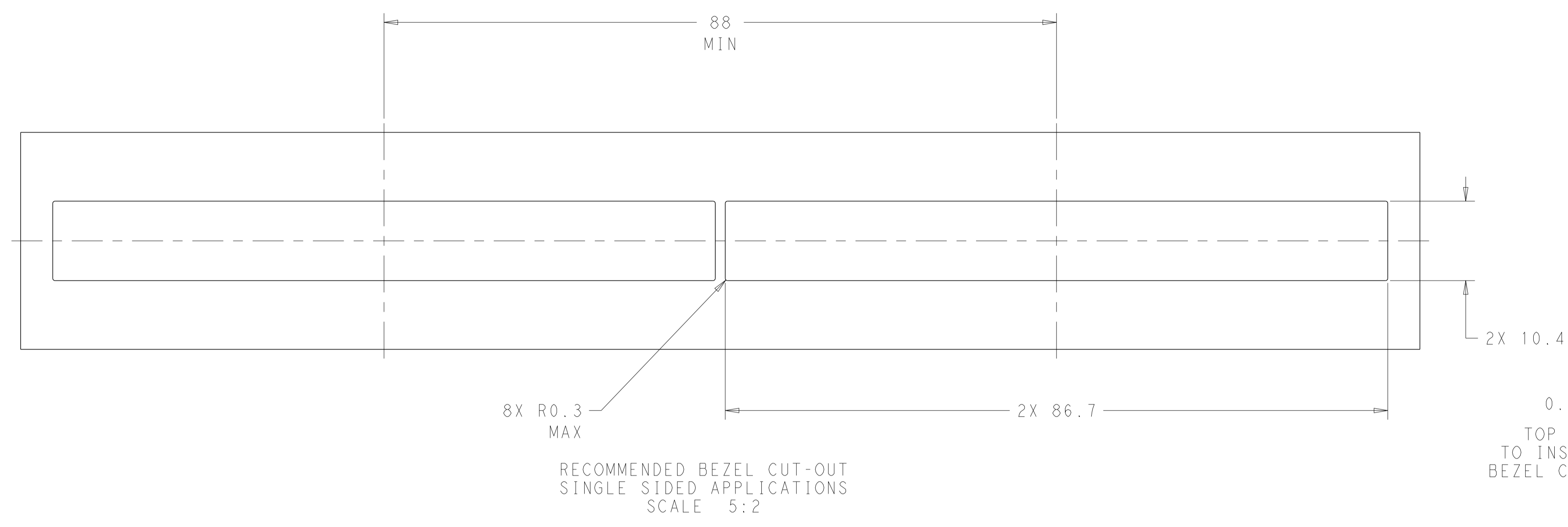
2170192-3 AS SHOWN



2170192-3 AS SHOWN

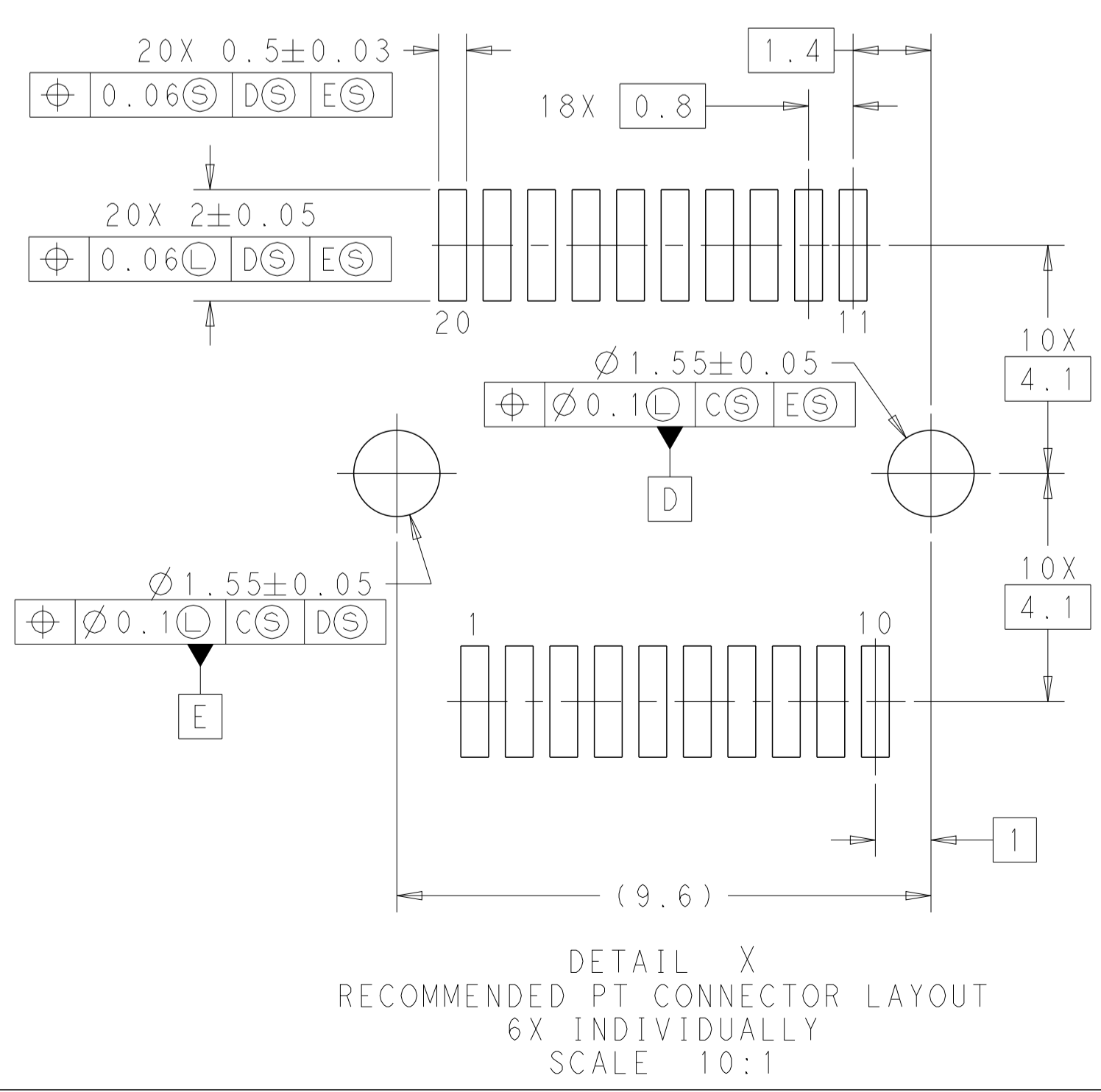
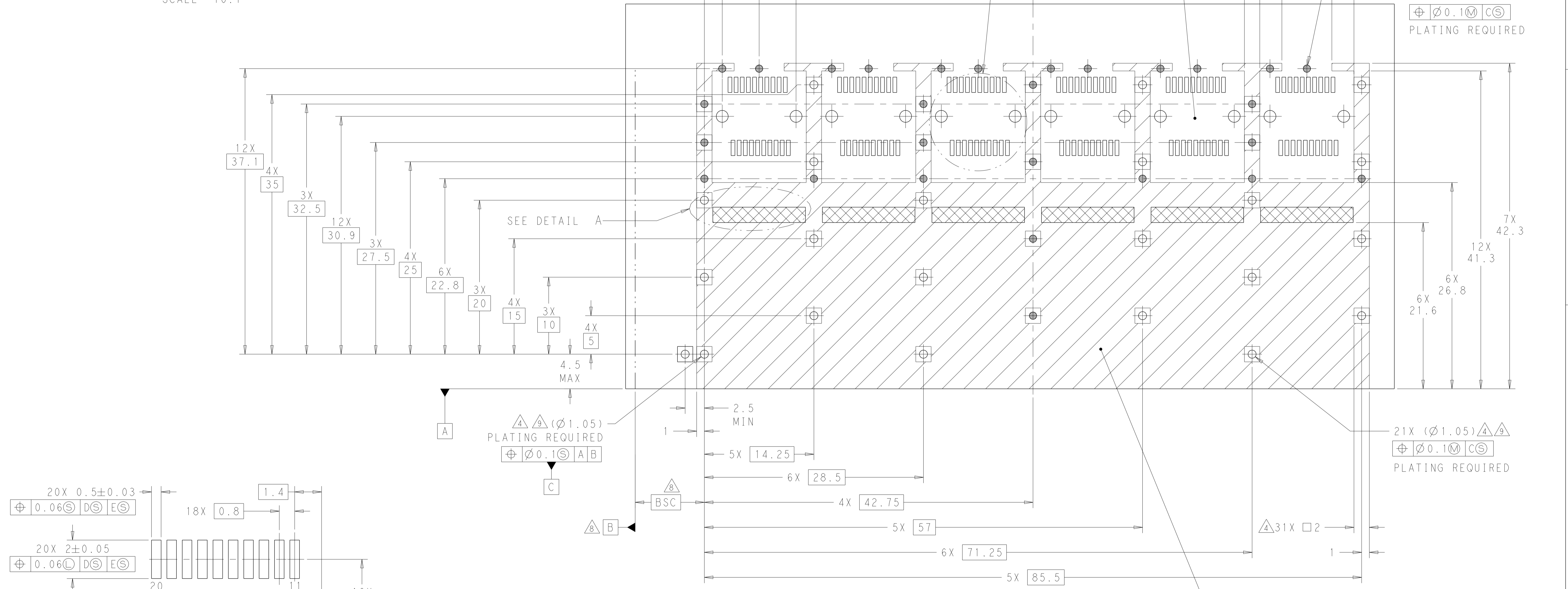
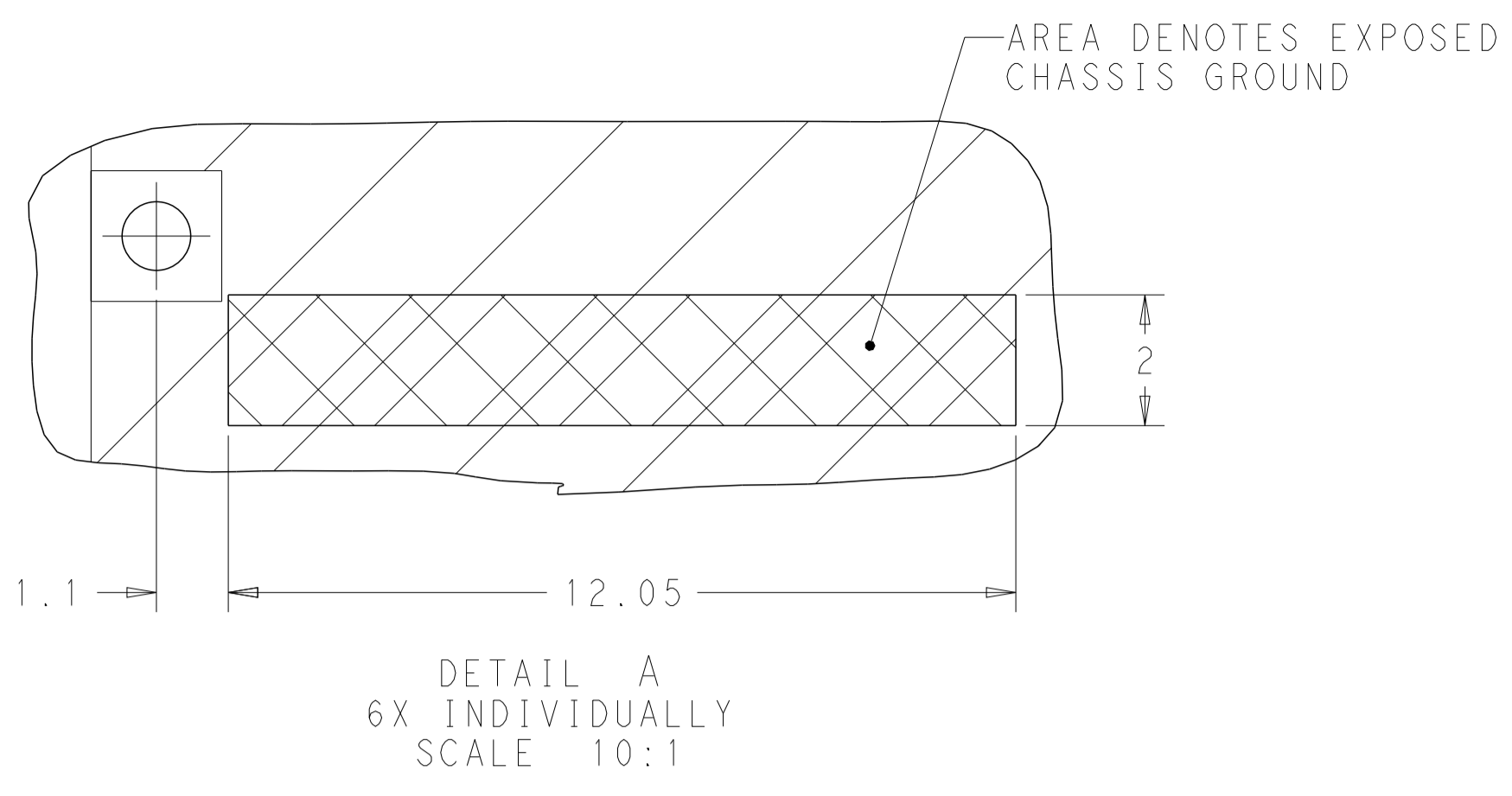
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: TIM XUE 22NOV2011	<b>STE</b> TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 22NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 22NOV2011	NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.25		PRODUCT SPEC: 108-2364	
1 PLC ±0.20		APPLICATION SPEC: 114-13120	SIZE: A1
2 PLC ±0.15		WEIGHT: -	CAGE CODE: -
3 PLC ±0.1		RESTRICTED TO: -	DRAWING NO: 2170192
4 PLC ±0.1		SCALE: 4:1	SHEET 2 OF 5
ANGLES ±1°		Customer Drawing	REV: A1
FINISH			

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



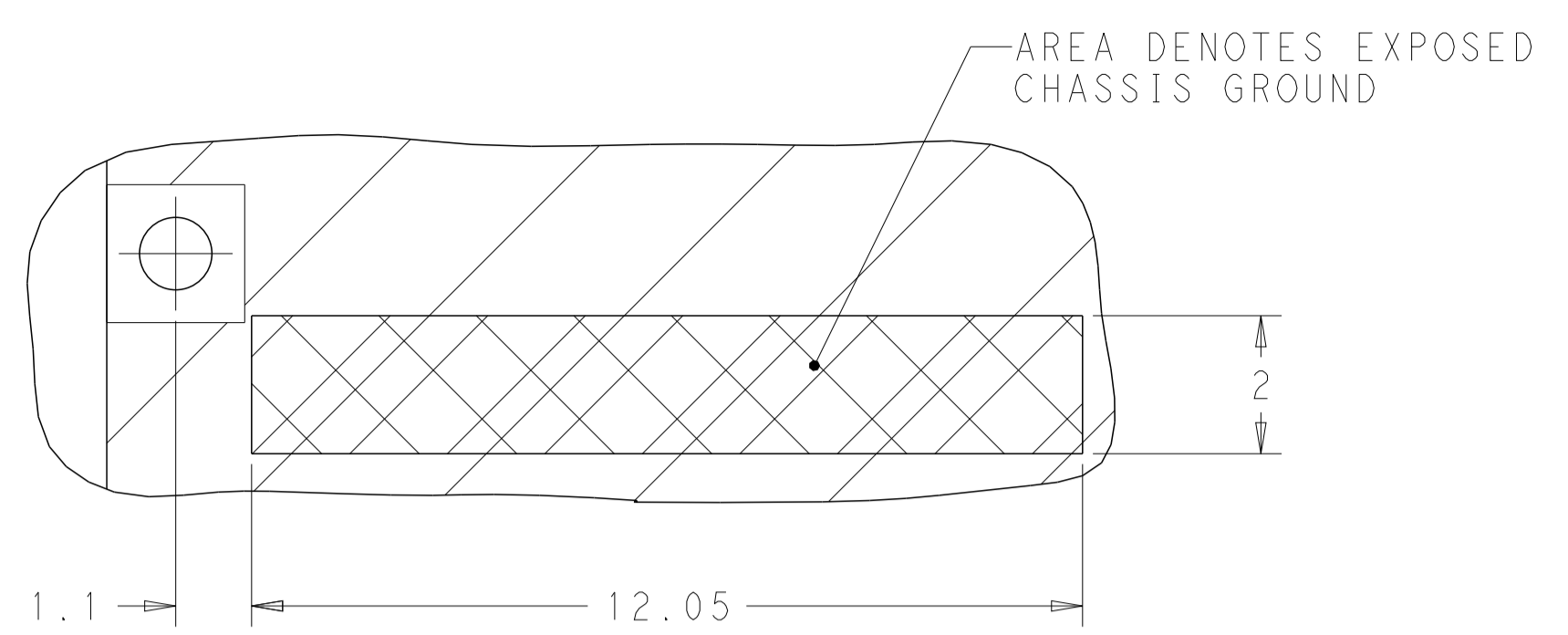
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN: TIM XUE 22NOV2011	<b>STE</b> TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 22NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 22NOV2011	NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.25		PRODUCT SPEC: 108-2364	
1 PLC ±0.20		APPLICATION SPEC: 114-13120	SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2170192
2 PLC ±0.15		WEIGHT: -	
3 PLC ±0.1		RESTRICTED TO: -	SCALE: 4:1 SHEET: 3 OF 5 REV: A1
4 PLC ±0.1		MATERIAL: -	
ANGLES ±0.1		Customer Drawing	
FINISH: -			

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

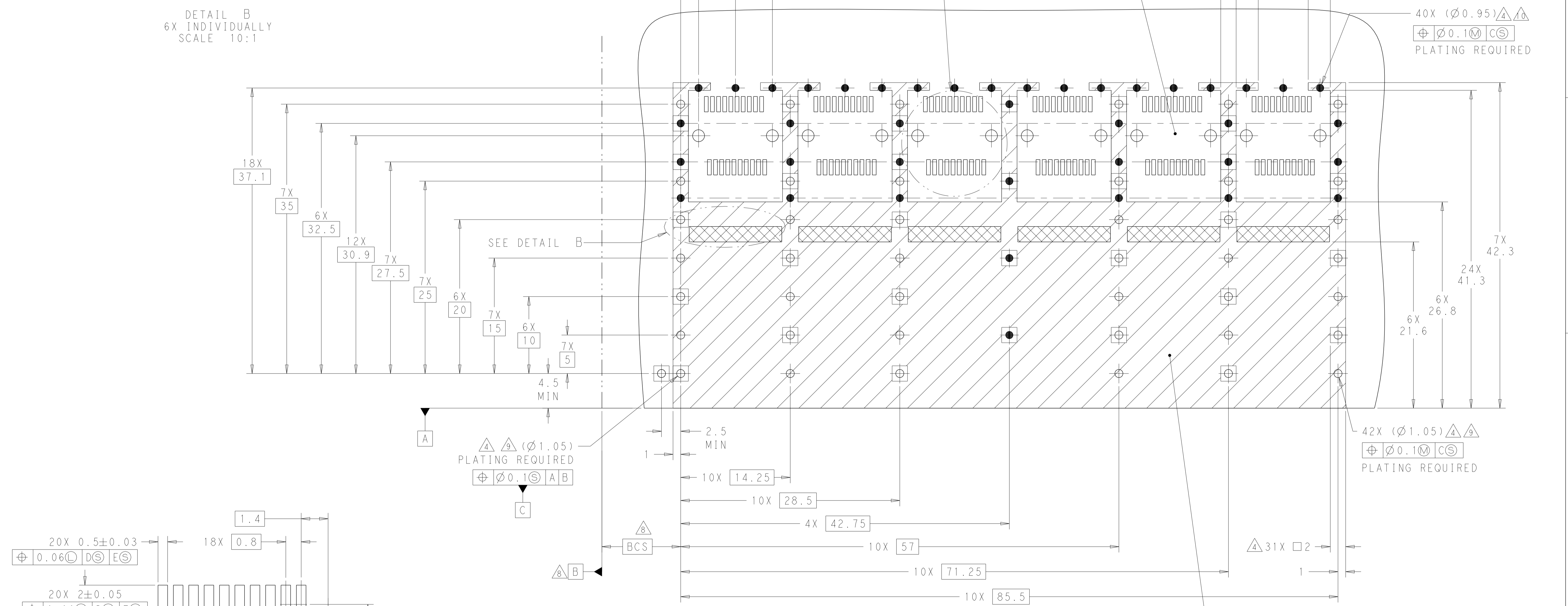


THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN: TIM XUE 22NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 22NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 22NOV2011	NAME: SFP+ ENHANCED 1X6 CAGE ASSEMBLY, PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120
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:	SCALE: 4:1 SHEET 4 OF 5 REV: A1

LOC	DIST	REV	DATE	BY	APPD
GP	00				
REVISIONS					

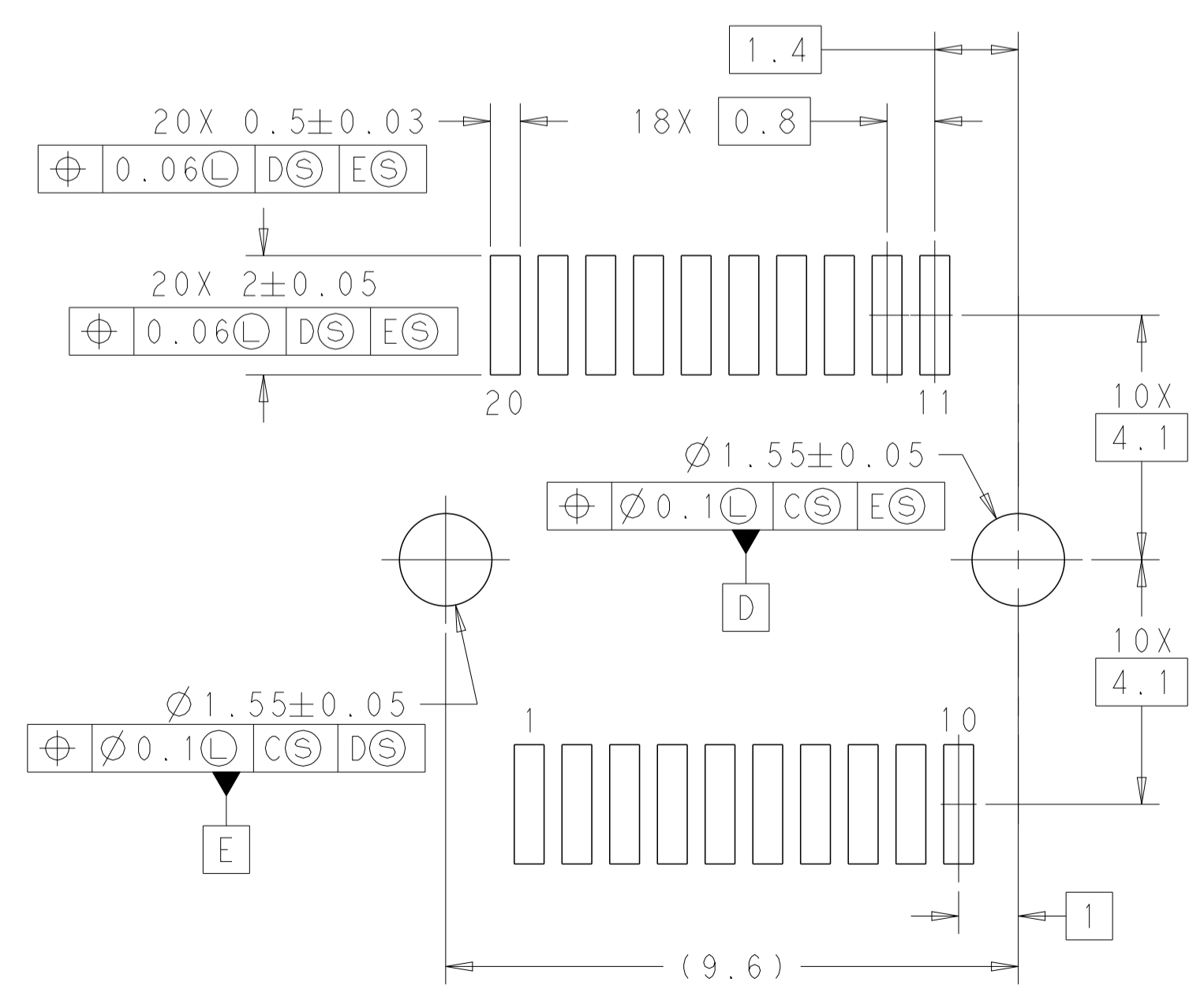


DETAIL B  
6X INDIVIDUALLY  
SCALE 10:1



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:		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
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: A1