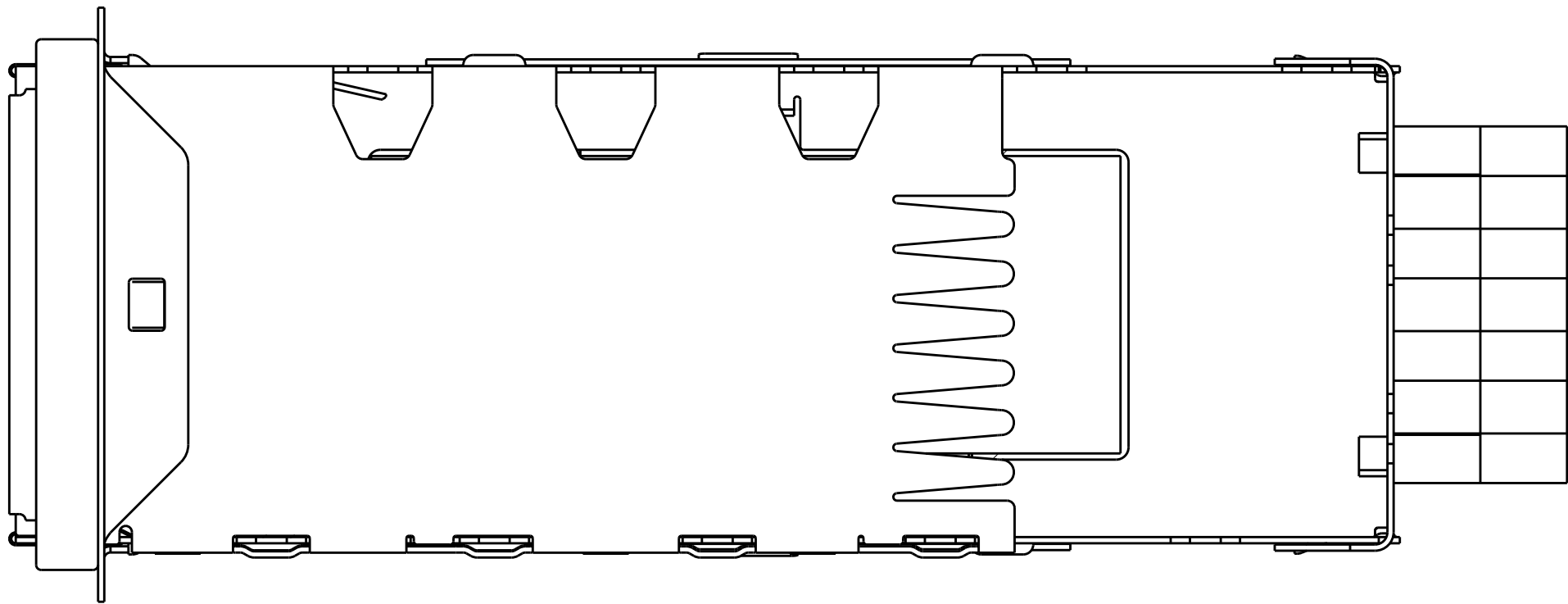
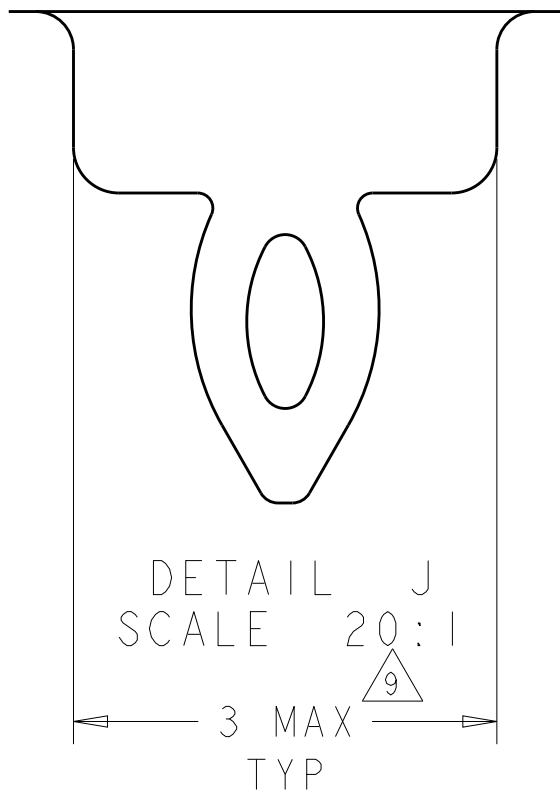
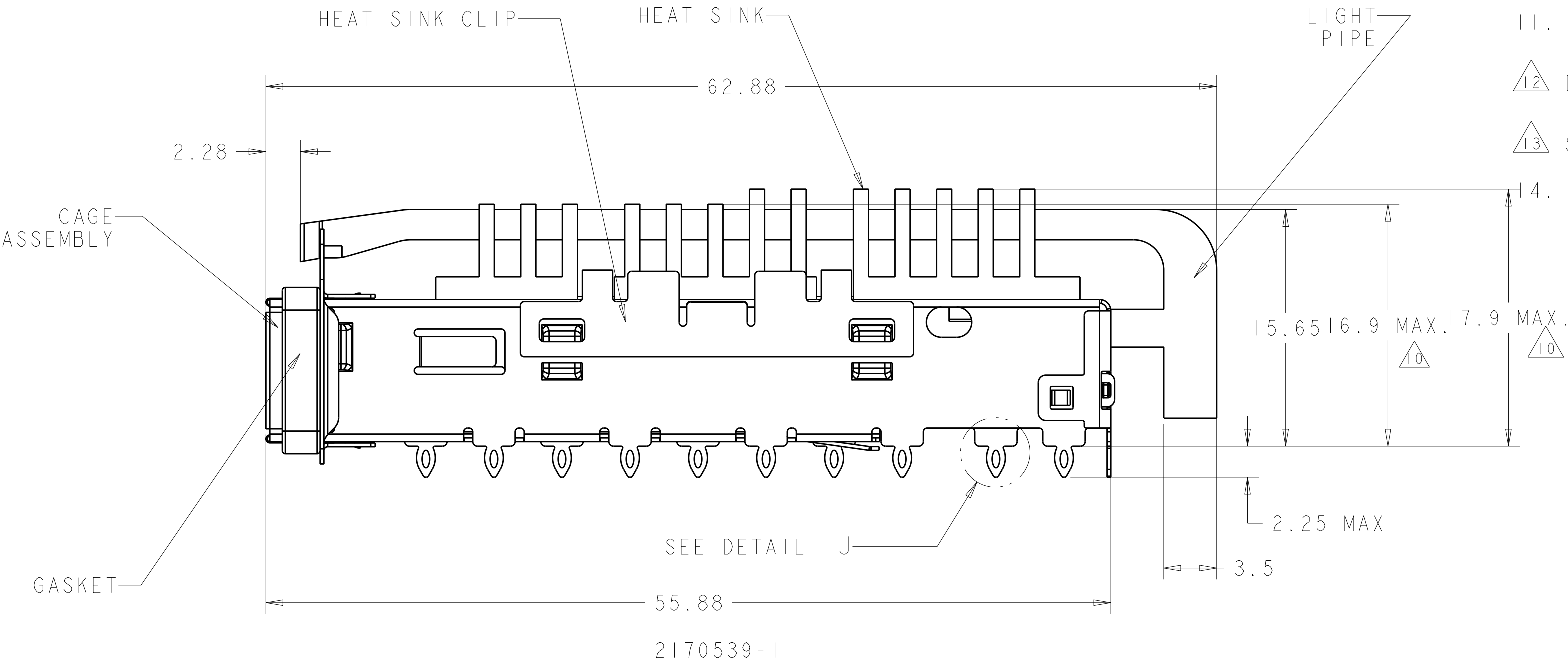
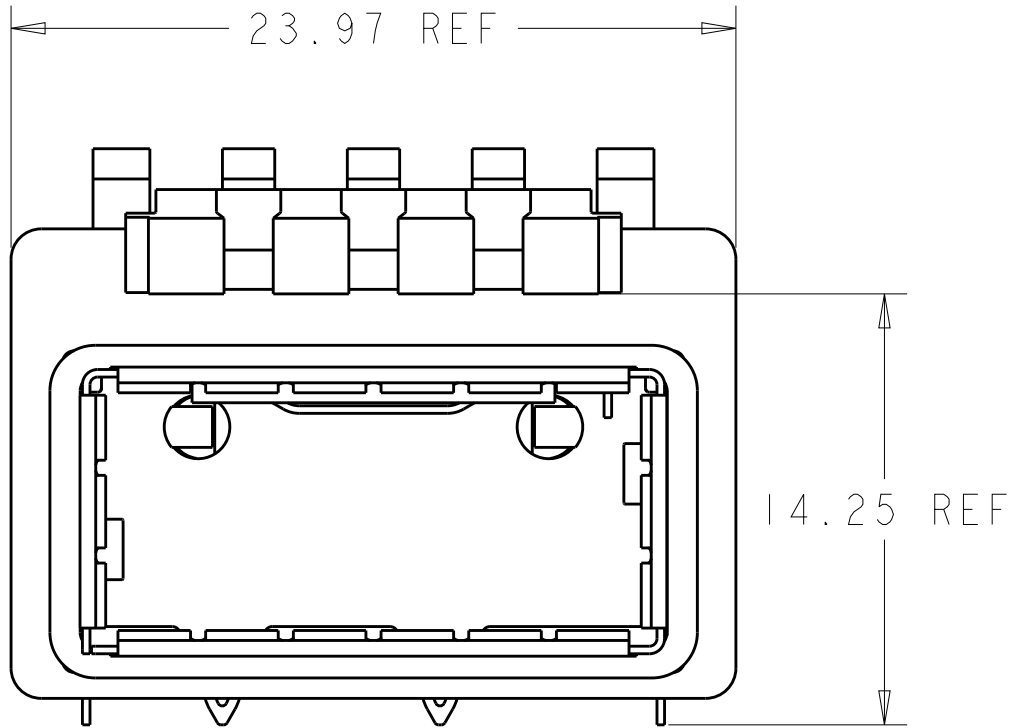
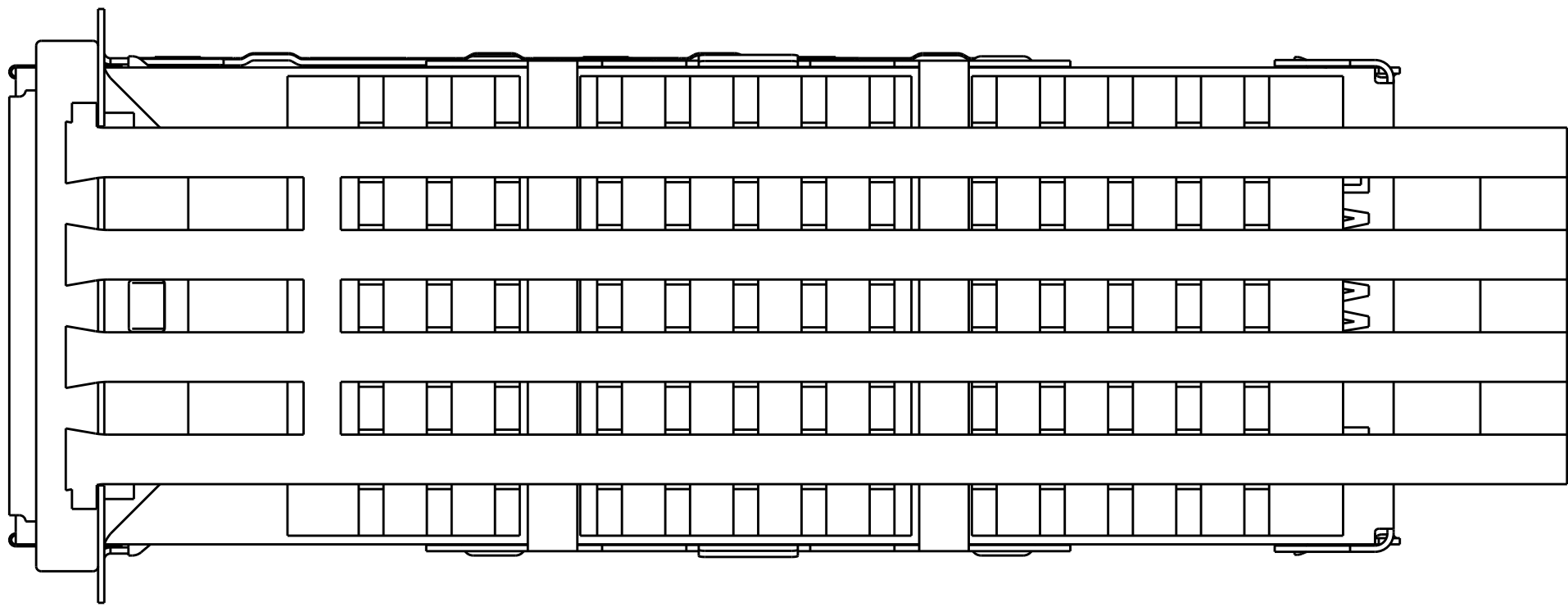
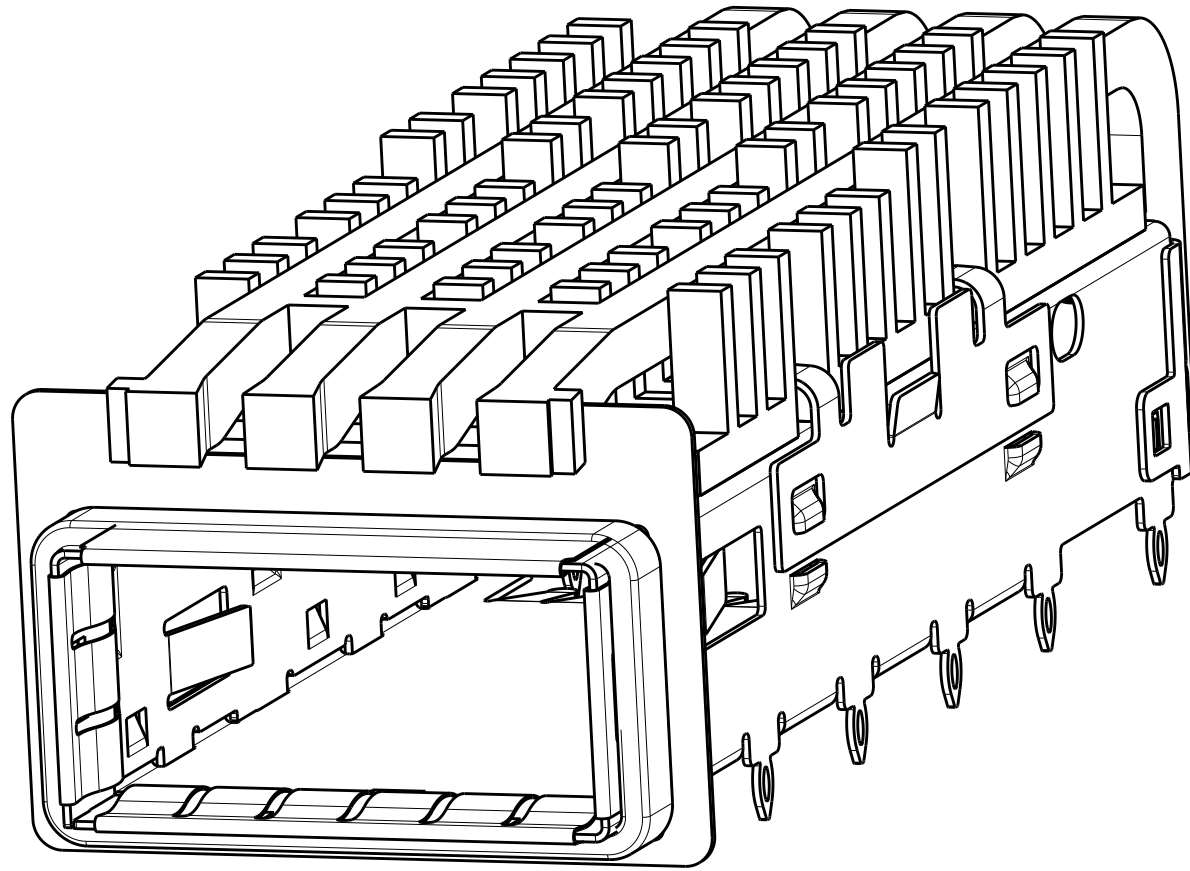


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			2	PRELIMINARY	20JAN2014	HW	MC
			3	PRELIMINARY	02APR2014	HW	MC
			4	PRELIMINARY	04MAY2014	HW	MC
			5	ADD 2170539-5	04MAY2014	HW	MC



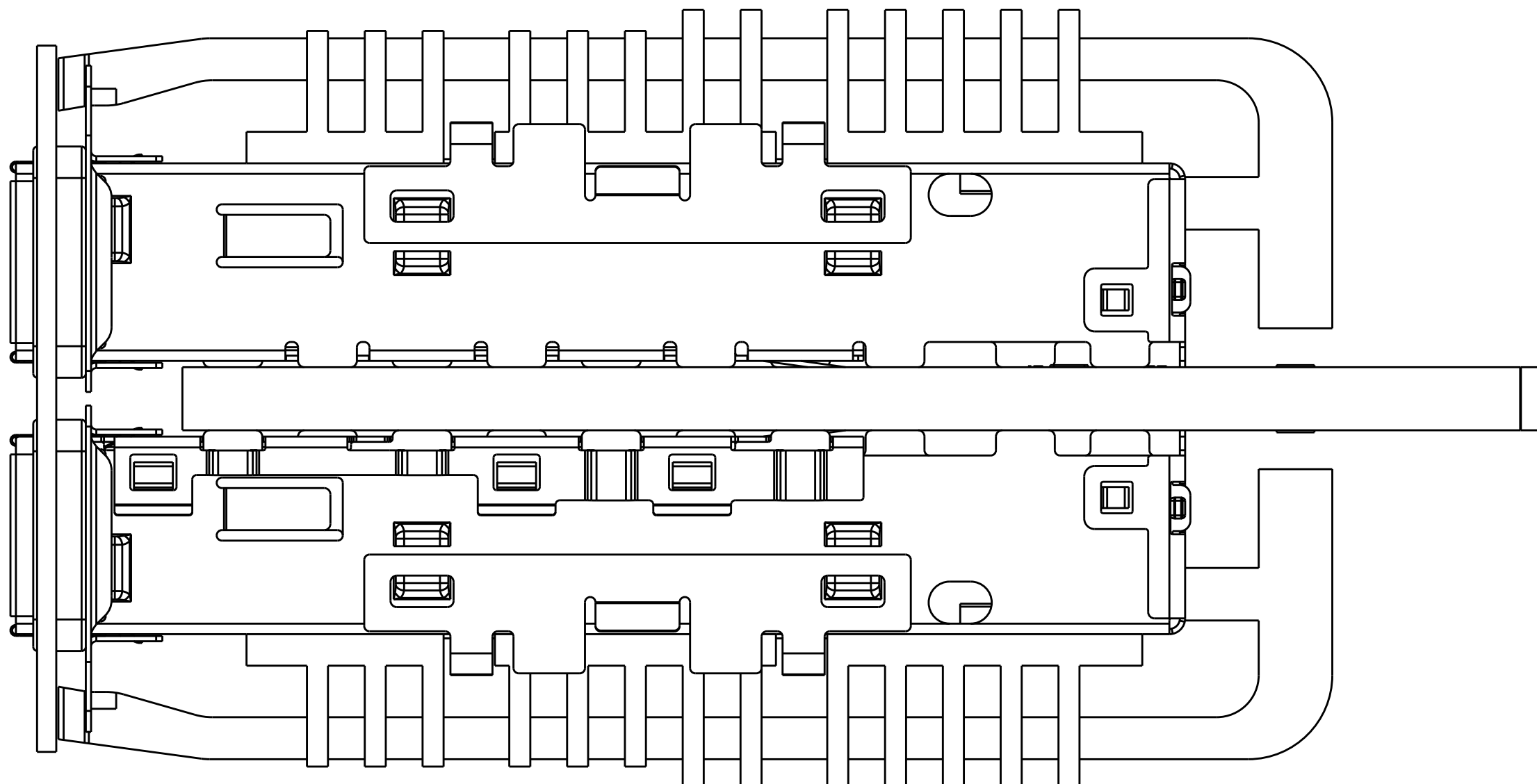
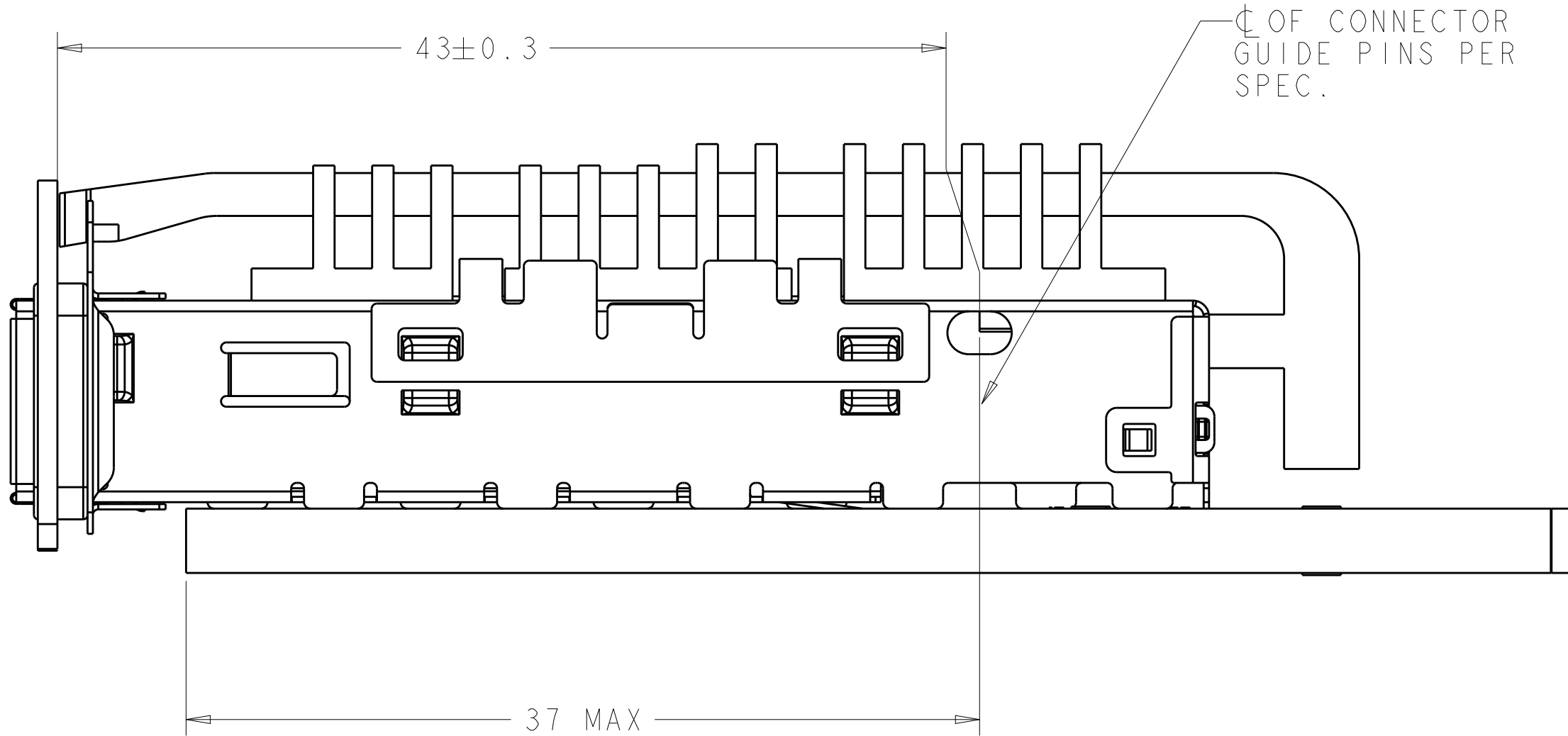
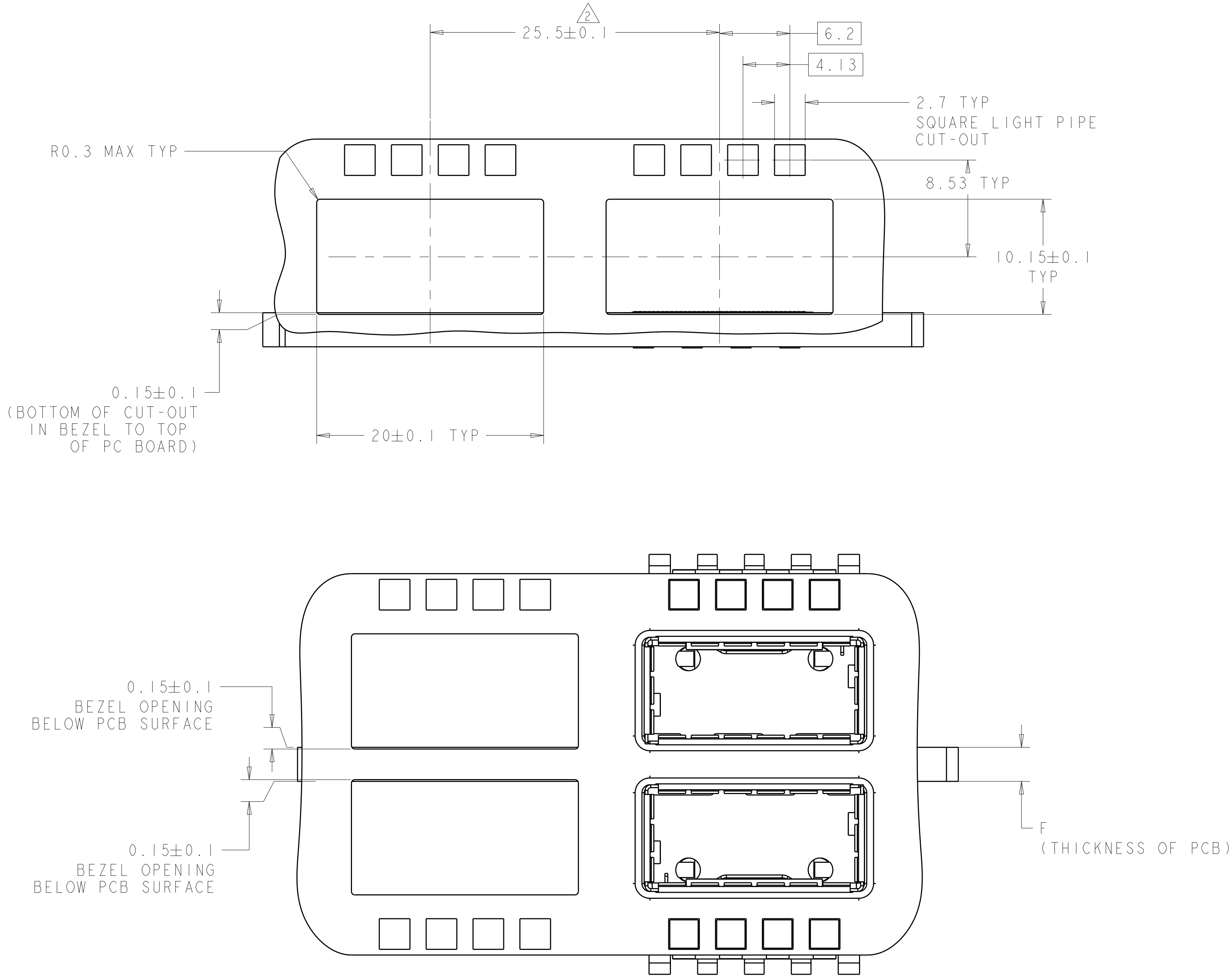
1. CAGE MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE, UL-94V-O RATED.
EMI SPRING MATERIAL: COPPER ALLOY
2. MINIMUM PITCH DIMENSION.
3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
4. REFERENCE APPLICATION SPEC 114-13217 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
5. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
6. MINIMUM PC BOARD THICKNESS:
SINGLE SIDED = 1.45mm (shown, pg. 4)
7. HEAT SINK, CLIP, AND LIGHT PIPE SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
8. DATUM **-A-** IS TOP SURFACE OF HOST BOARD.
9. SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.
10. DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE TO TOP OF HEAT SINK.
11. MAXIMUM HEIGHT OF CUSTOMER SUPPLIED LED OFF PC BOARD: 1.70mm.
12. DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINK APPLIES TO CAGE ASSEMBLY ONLY.
13. SPRING FINISH: MATT TIN 2µm MIN, NON-PLATED EDGES PERMISSIBLE.
14. PRODUCT HAS NOT COMPLETED QUALIFICATION TESTING.

DESIGN APPROVED THIS PRINT IS
PRELIMINARY
TO FIRST PIECE APPROVAL
CONTACT PRODUCT ENGINEERING
BEFORE USING THIS PRINT

SAN HEAT SINK WITH ONE PIN HEIGHT, HEAT SINK CLIP HORN SHAPE LP & SOLID GASKET	2170539-5
ONLY SOLID GASKET	2170539-4
SAN HEAT SINK WITH TWO PIN HEIGHT, HEAT SINK CLIP NRML LP & HOLLOW GASKET	2170539-3
ONLY HOLLOW GASKET	2170539-2
SAN HEAT SINK WITH TWO PIN HEIGHT, HEAT SINK CLIP HORN SHAPE LP & SOLID GASKET	2170539-1
DESCRIPTION	PART NO

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	14MAY2013
DIMENSIONS:		CHK	JASON WANG	14MAY2013
mm		APVD	ALEX CAI	14MAY2013
TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	CAGE ASSEMBLY, QSFP MSA W/ HEAT SINK, EMI GASKET AND LIGHT PIPE	
0 PLC ±0.5		PRODUCT SPEC	108-2286	
1 PLC ±0.13		APPLICATION SPEC	114-13217	
2 PLC ±0.13		SIZE	CAGE CODE	DRAWING NO
3 PLC ±0.013		WEIGHT	A100779C=2170539	
4 PLC ±0.0001		Customer Drawing	SCALE	4:1
ANGLES ±0.0001			SHEET	1 OF 5
FINISH			REV	5

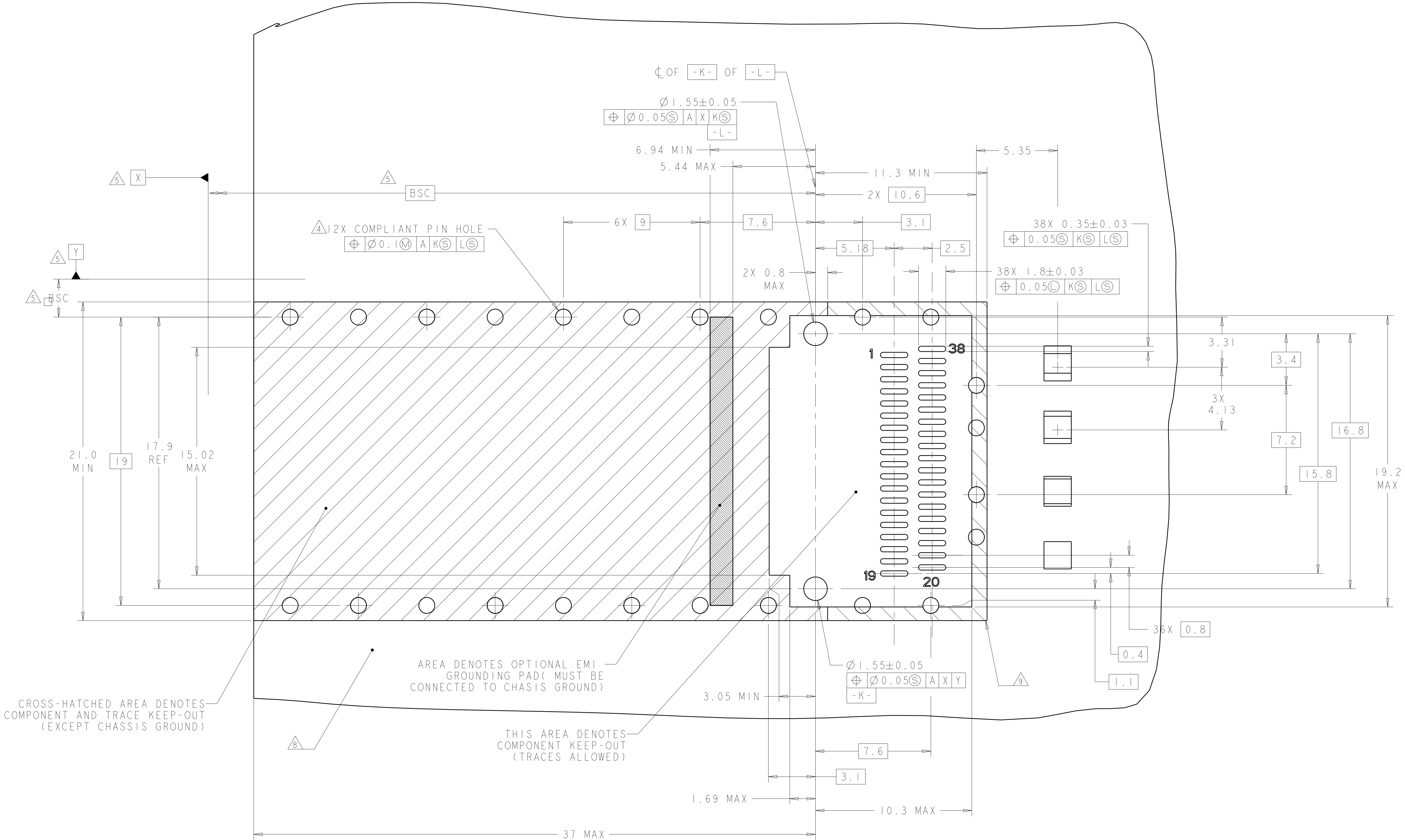
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-



SCALE 4:1

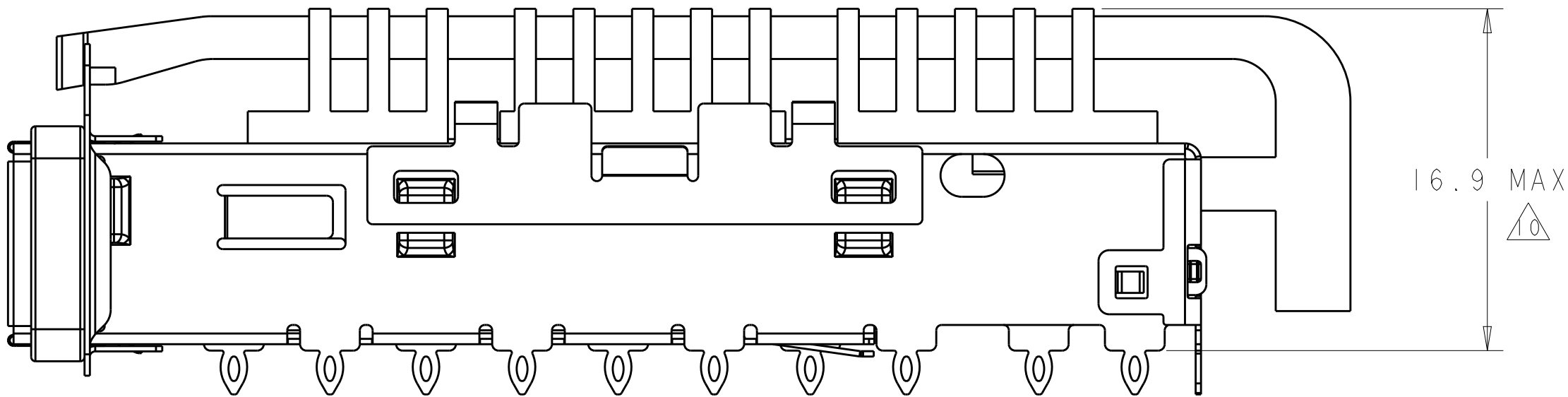
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 14MAY2013	TE Connectivity	
DIMENSIONS:		CHK JASON YANG 14MAY2013		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD ALEX CAI 14MAY2013	NAME CAGE ASSEMBLY, OSFP+, W/ HEAT SINK, EMI GASKET AND LIGHT PIPE	
	0 PLC ± 0.5 1 PLC ± 0.5 2 PLC ± 0.13 3 PLC ± 0.13 4 PLC ± 0.001 ANGLES ± 0.001 FINISH	PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13217	SIZE A100779	
MATERIAL	-	WEIGHT	Customer Drawing	
		SCALE	4:1	SHEET 2 OF 5
		REV	5	

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	14MAY2013		
		CHK	JASON YANG	14MAY2013		
DIMENSIONS:		APVD	ALEX CAI	14MAY2013	NAME	
mm		PRODUCT SPEC			CAGE ASSEMBLY, OSFP+, W/ HEAT SINK, EMI GASKET AND LIGHT PIPE	
		APPLICATION SPEC			SIZE	
		FINISH			CAGE CODE	
MATERIAL		WEIGHT			DRAWING NO	
		Customer Drawing			RESTRICTED TO	
					SCALE	
					SHEET	
					OF	
					REV	
					5	

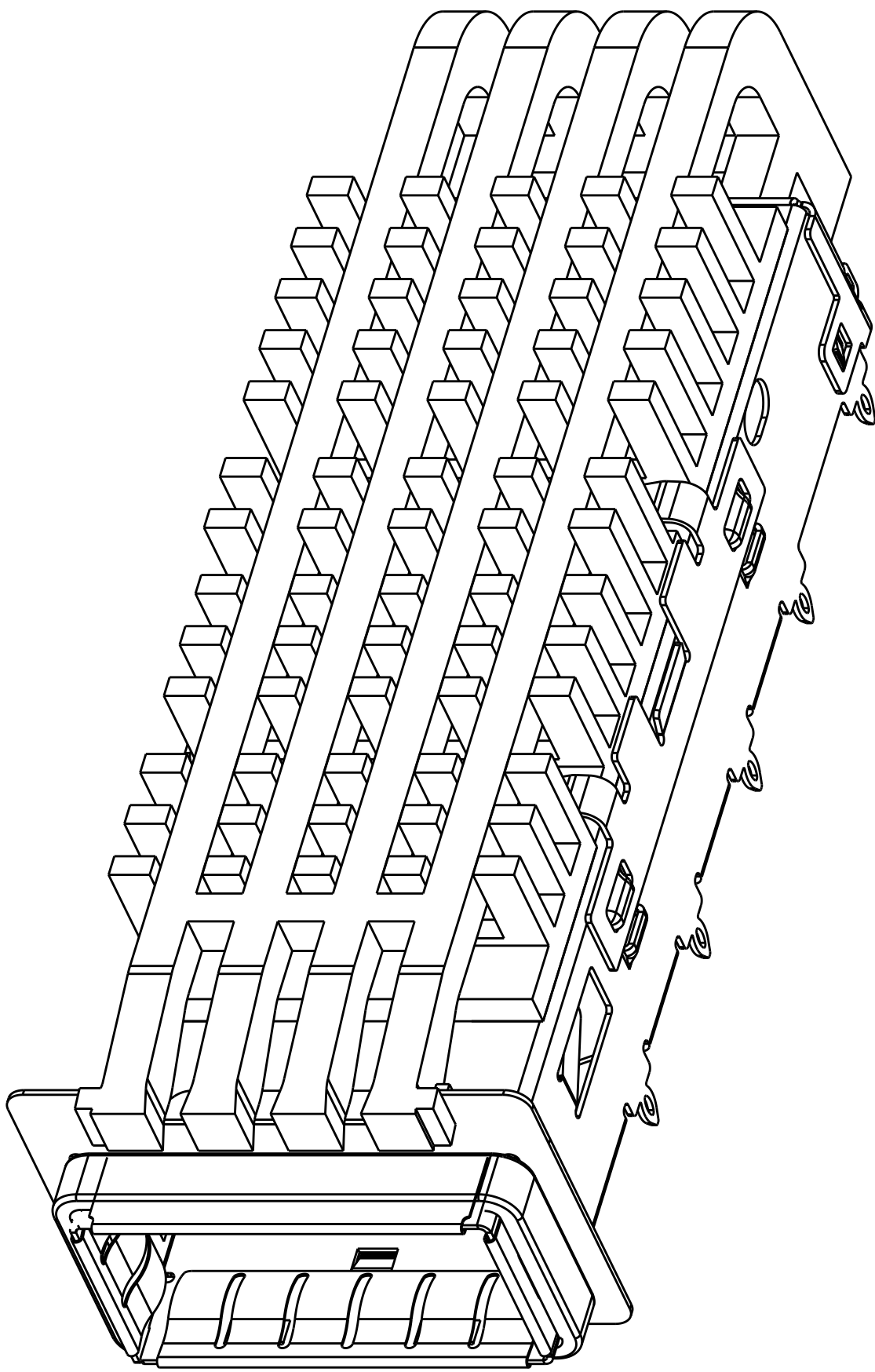
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-



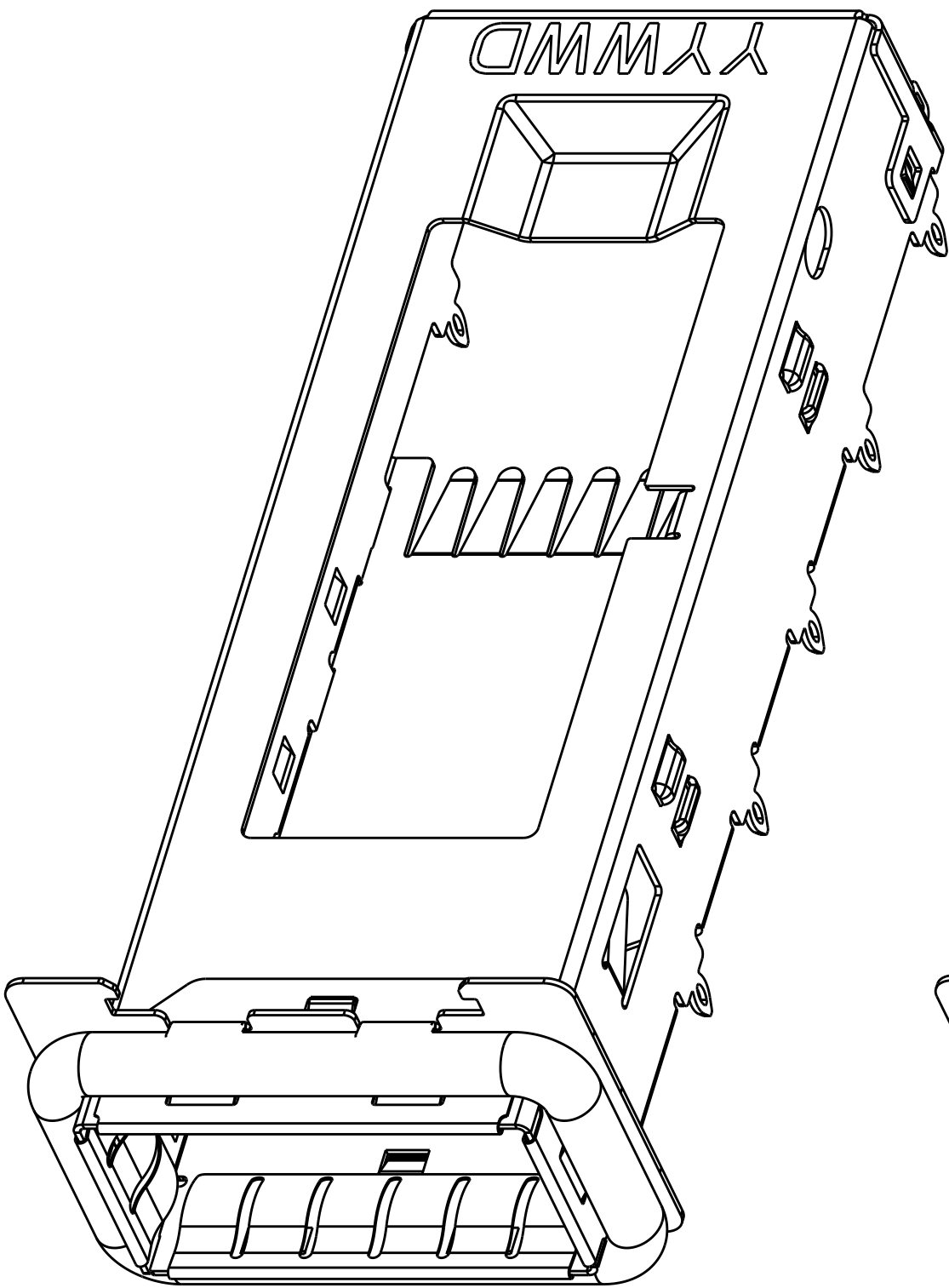
SCALE 4:1
2170539-5
EXCEPT INDICATED DIMENSION
OTHER DIMENSIONS ARE SAME AS 2170539-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	14MAY2013	 TE Connectivity		
		CHK	JASON YANG	14MAY2013			
		APVD	ALEX CAI	14MAY2013			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:			NAME		
mm		0 PLC ±.5			CAGE ASSEMBLY, OSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE		

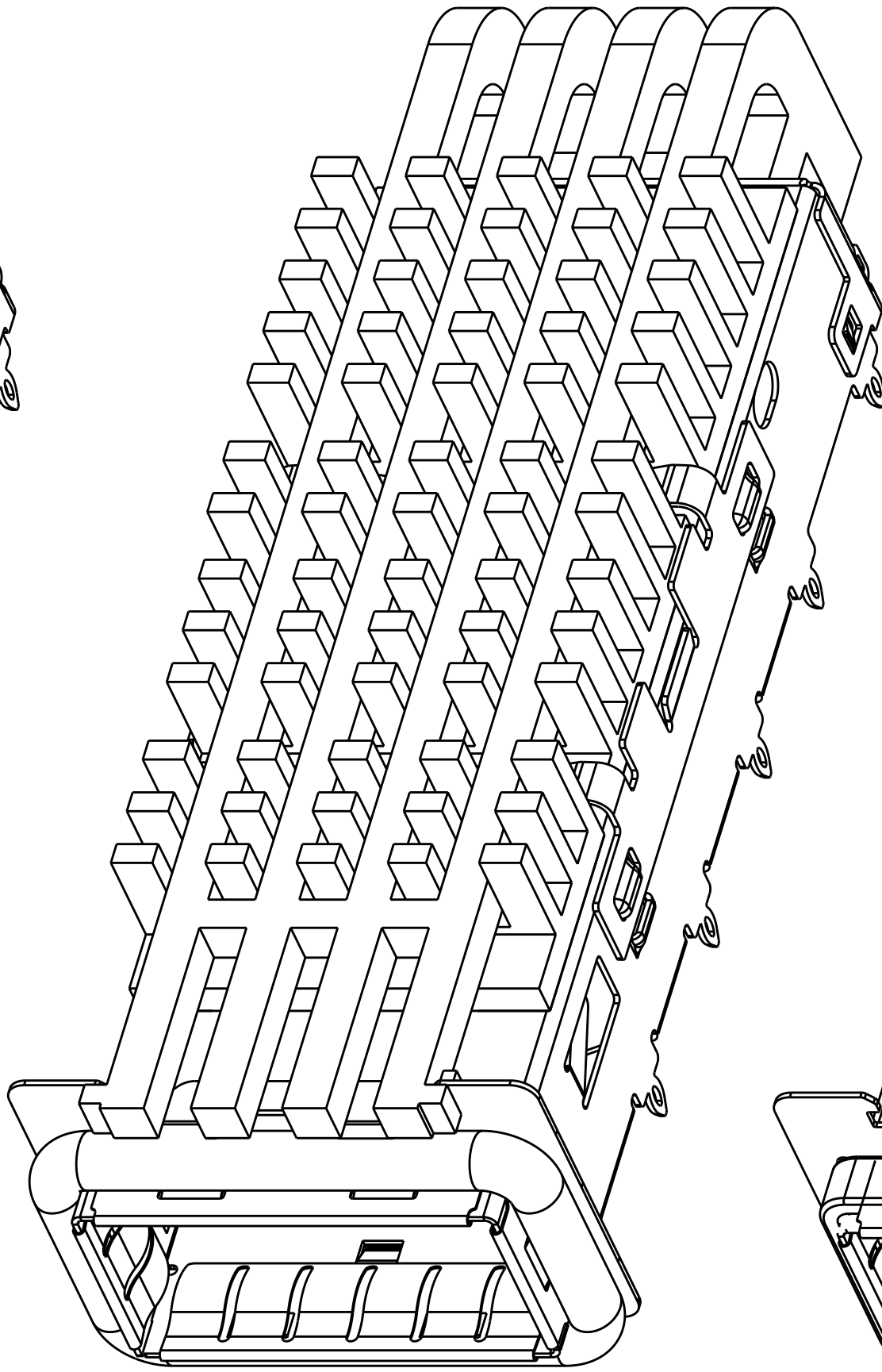
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-



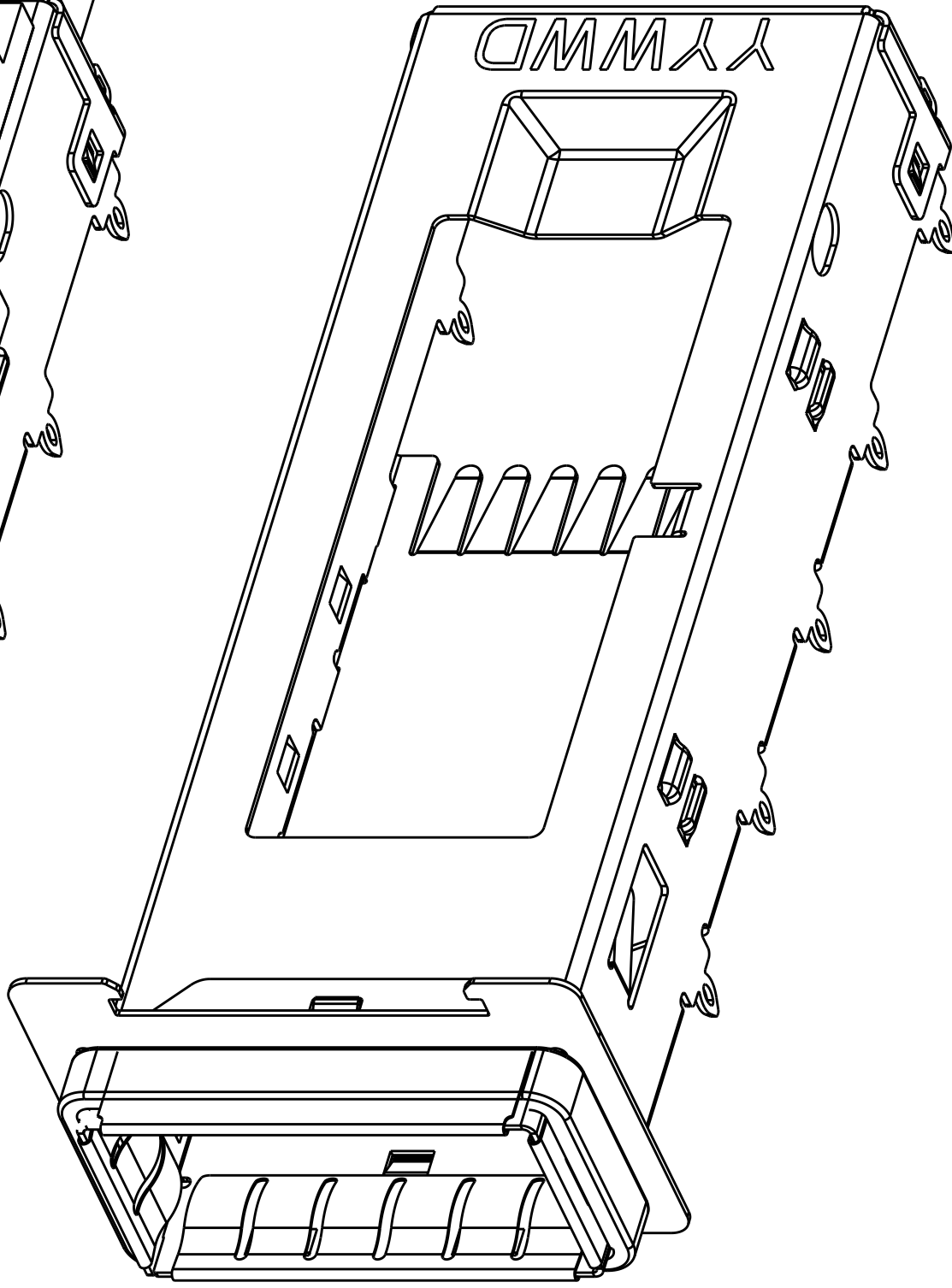
SCALE 4:1
2170539-1 AS SHOWN



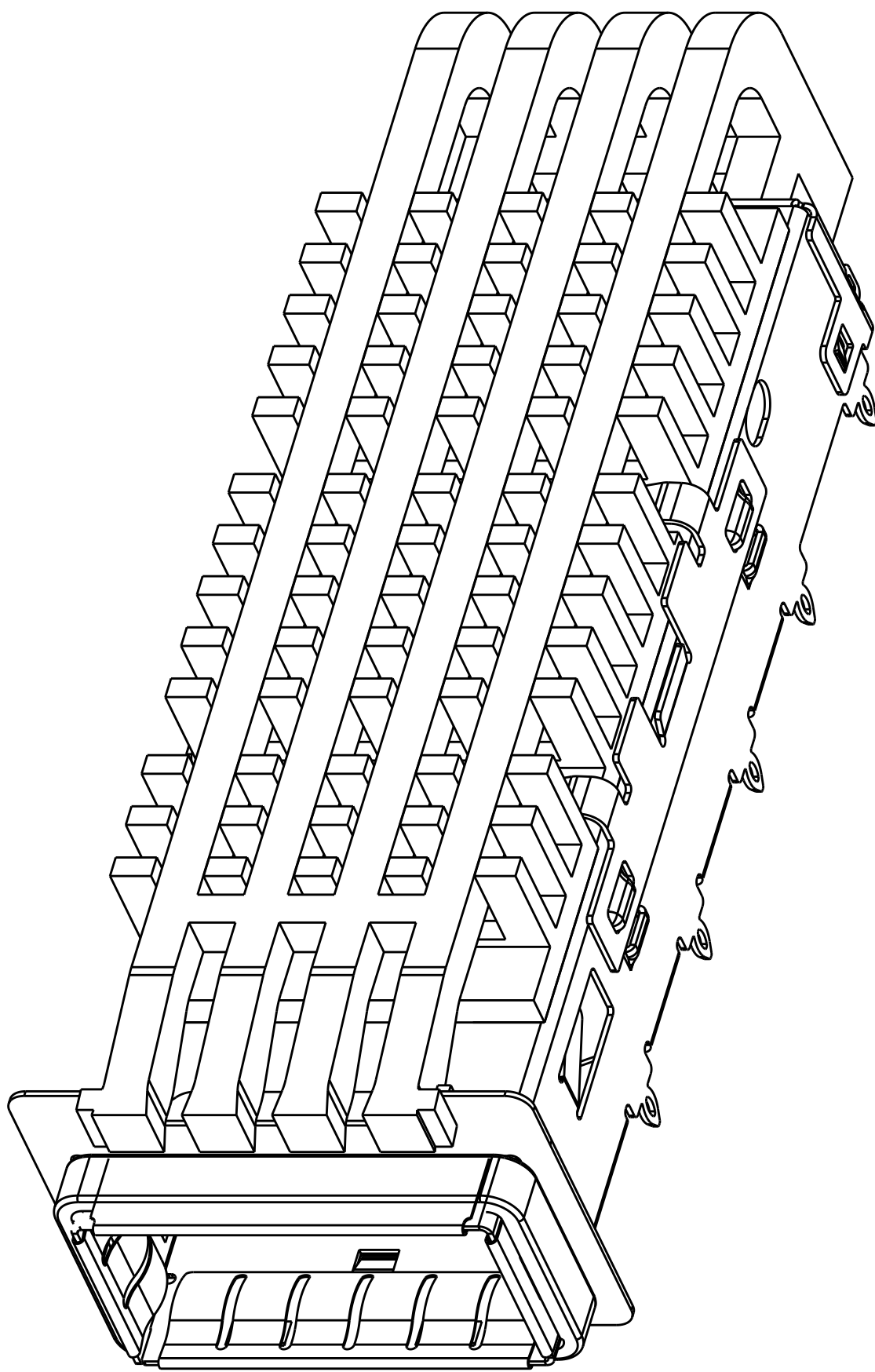
SCALE 4:1
2170539-2 AS SHOWN



SCALE 4:1
2170539-3 AS SHOWN



SCALE 4:1
2170539-4 AS SHOWN



SCALE 4:1
2170539-5 AS SHOWN

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	IM XUE	14MAY2013	 TE Connectivity	
		CHK	JASON YANG	14MAY2013		
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:			NAME	CAGE ASSEMBLY, QSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE	
	0 PLC ±.5 1 PLC ±0.5 2 PLC ±0.13 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±.5 FINISH					