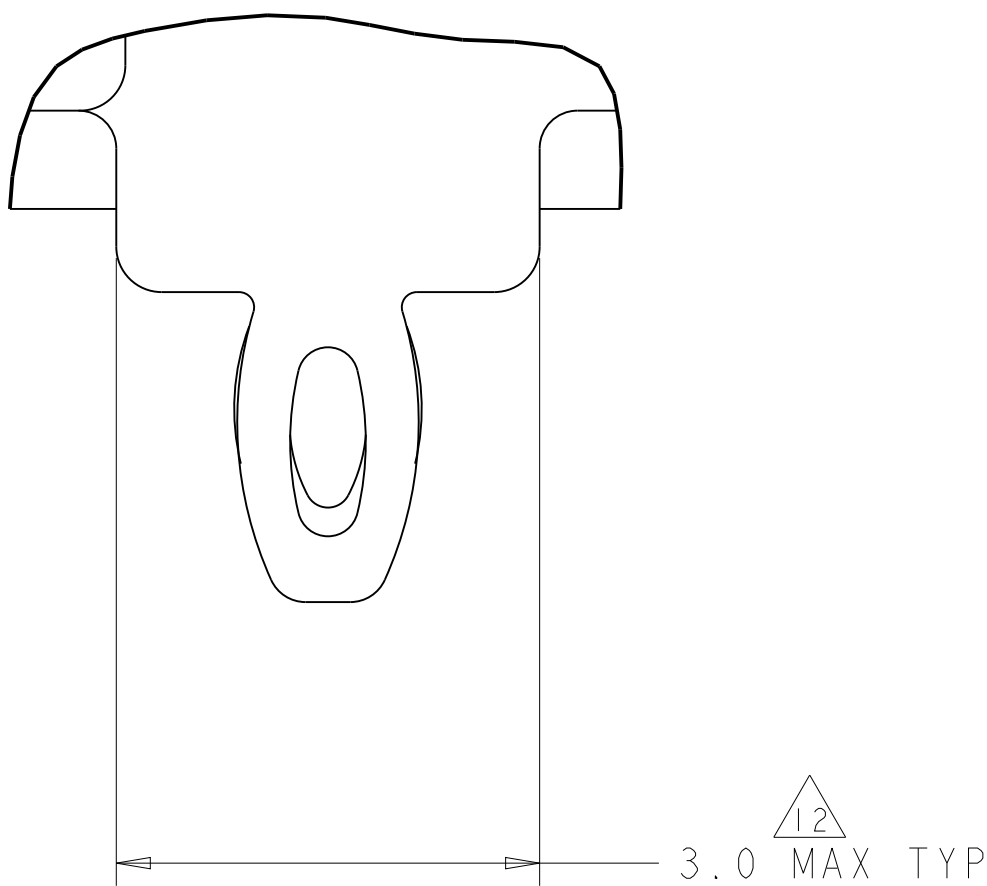


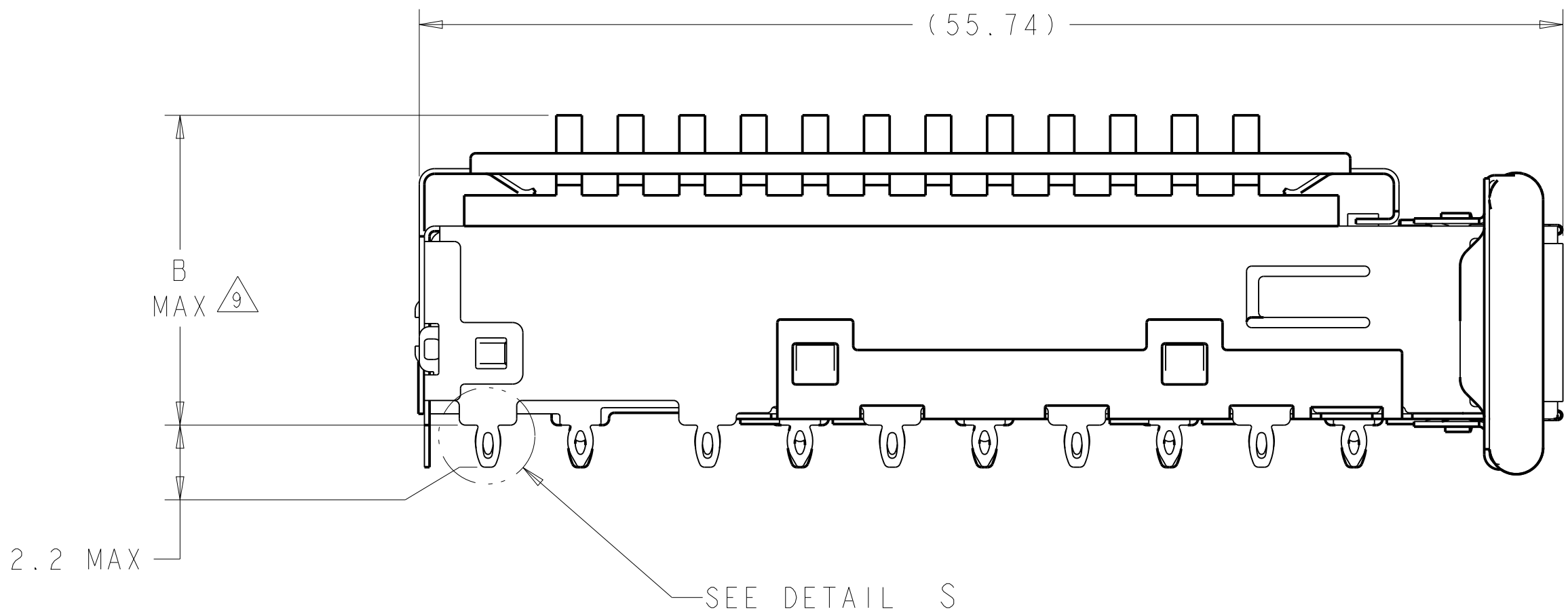
LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			7	ADD -10 PART NUMBER	21MAR2014	RG	MC
			8	ADD -11 PART NUMBER	16APR2014	RG	MC
			9	MODIFY -10 LIGHT PIPE	15JUL2014	RG	MC
			10	ADD ORGANIZER ON -10	9DEC2014	RG	MC



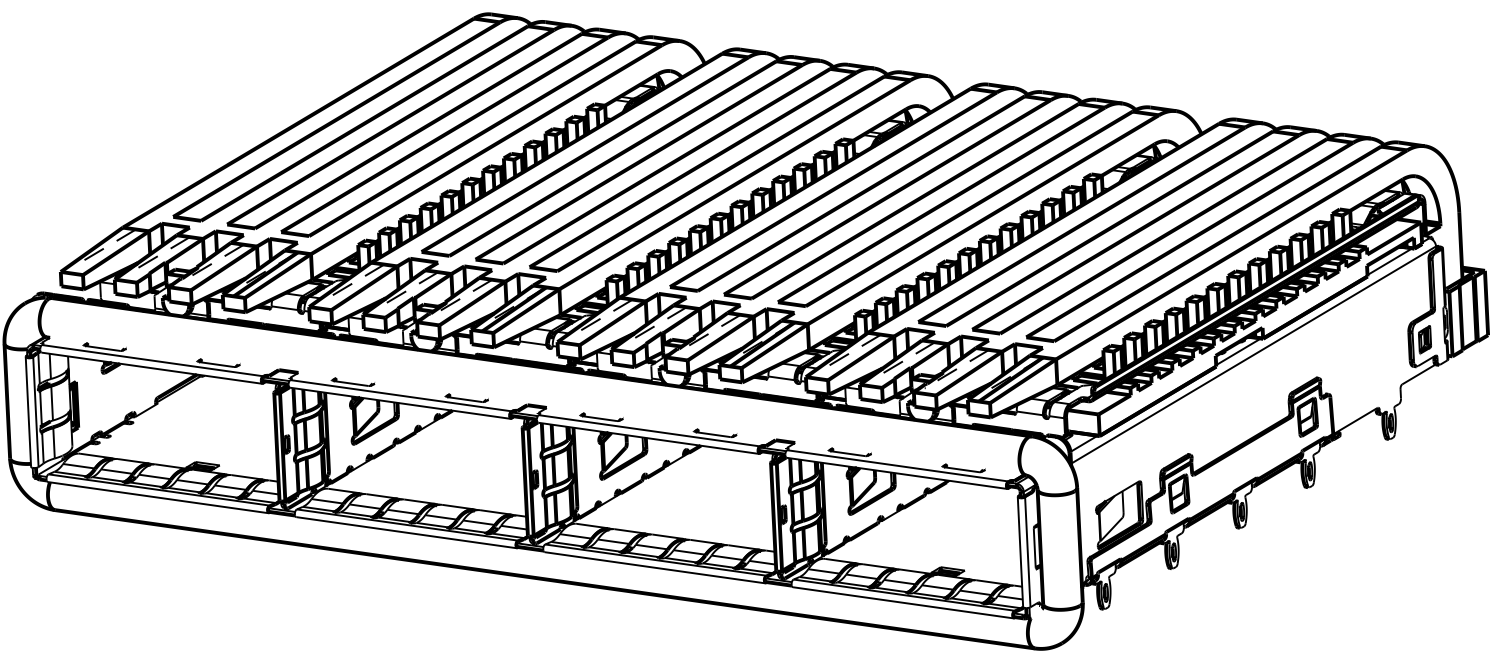
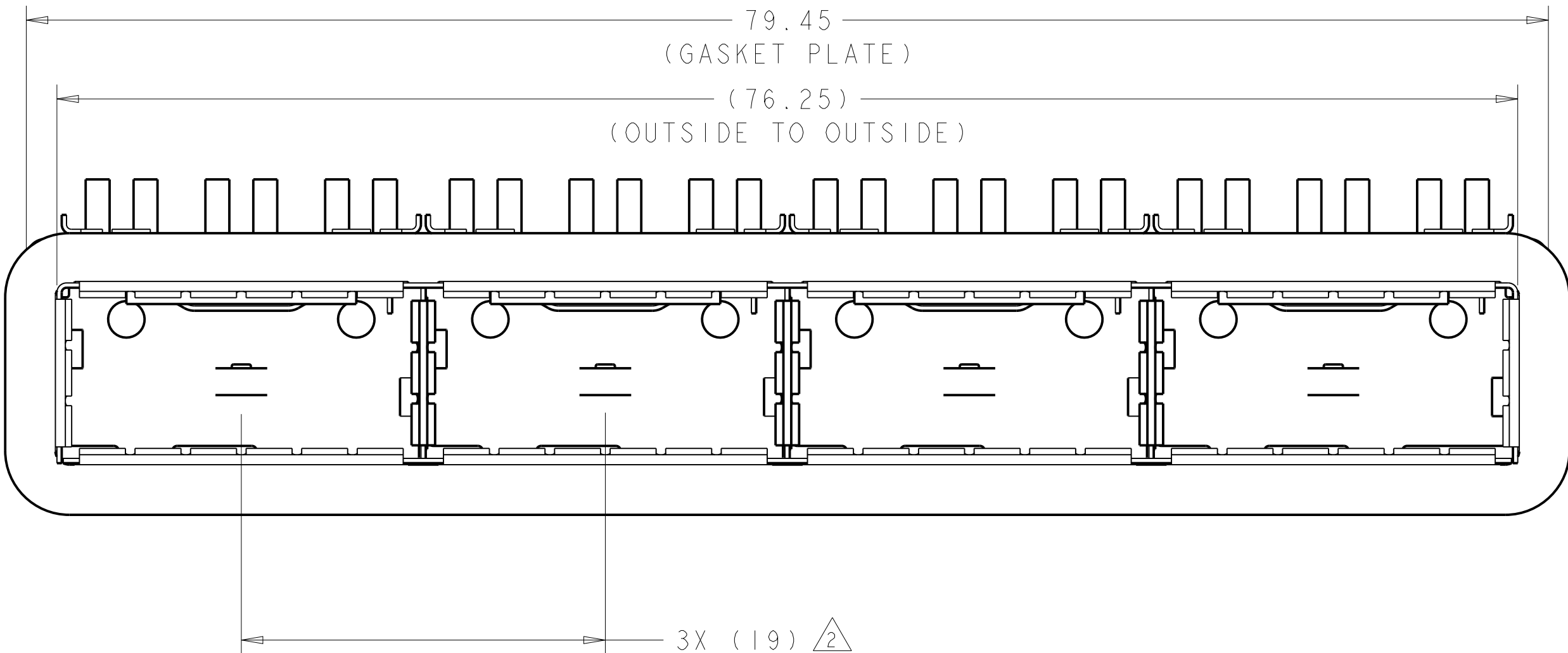
DETAIL S
SCALE 20:1

- 1 CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
EMI SPRING MATERIAL: COPPER ALLOY
EMI GASKET MATERIAL: CONDUCTIVE RUBBER,UL 94V-0 RATED
EMI GASKET PLATE MATERIAL: STAINLESS STEEL
- 2 PITCH BETWEEN PORTS OF ONE 1X4 CAGE ASSEMBLY.
- 3 SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- 4 REFERENCE APPLICATION SPEC 114-13217 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 5 DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 6 DIMENSION F IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,
SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm
DOUBLE SIDED PC BOARD MINIMUM THICKNESS = 5.0mm PER CUSTOM.
- 7 HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- 8 DATUM -A- IS TOP SURFACE OF PC BOARD.
- 9 DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- 10 UNPLATED THRU HOLE.

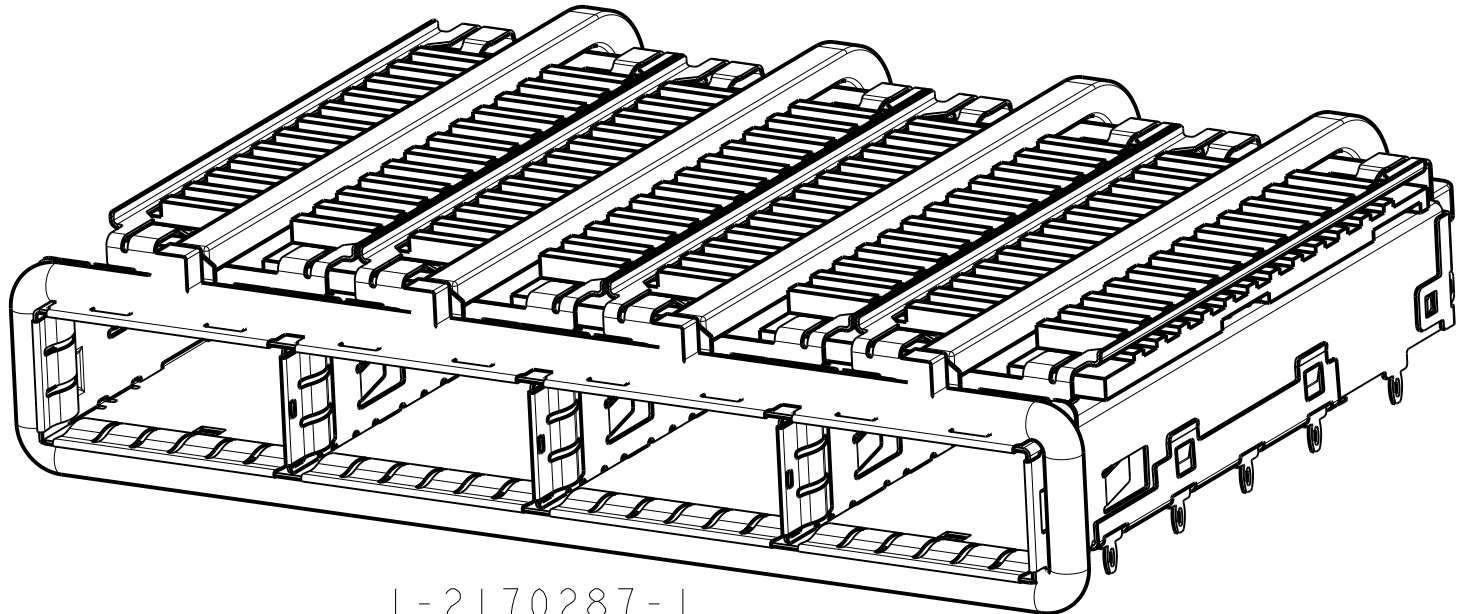
11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- 13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 14 DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.
- 15 REFERENCE APP SPEC 114-13217 FOR GASKET THICKNESS CALCULATION.
- 16 EMI SPRING FINISH: TIN PLATING OVER NICKEL
HEAT SINK FINISH: ANODIZED OR NICKEL PLATING.



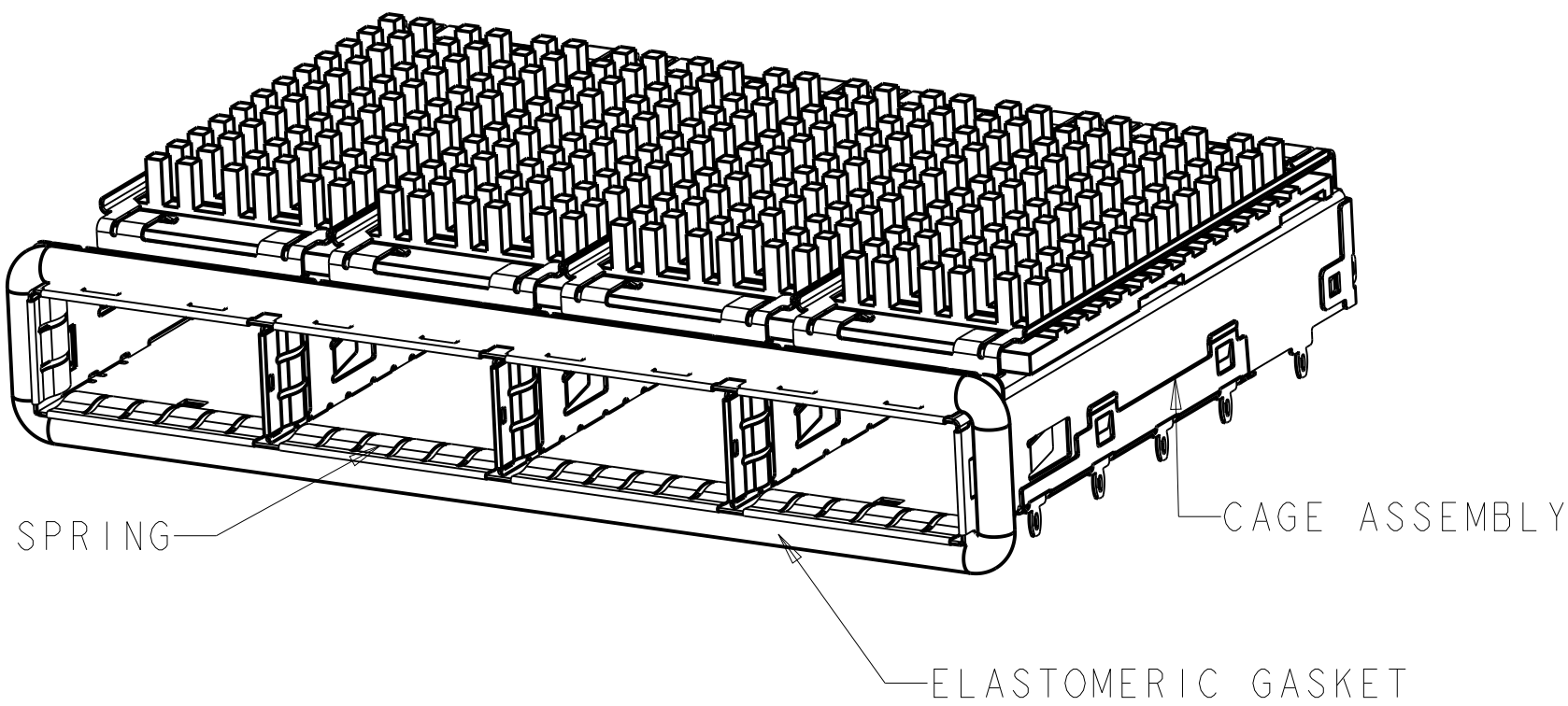
2170287-4, 2170287-5, 2170287-6
SCALE 2:1



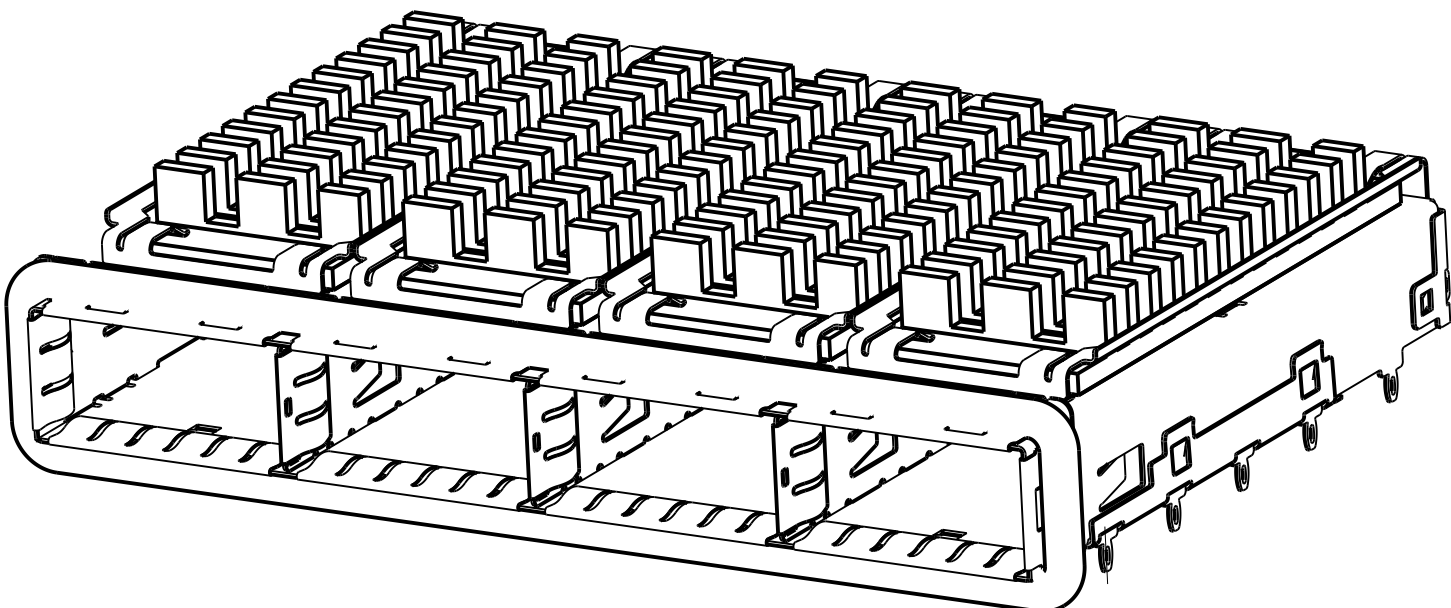
1-2170287-0
SCALE 2:1



1-2170287-1
SCALE 2:1



2170287-1, 2170287-2, 2170287-3
SCALE 2:1



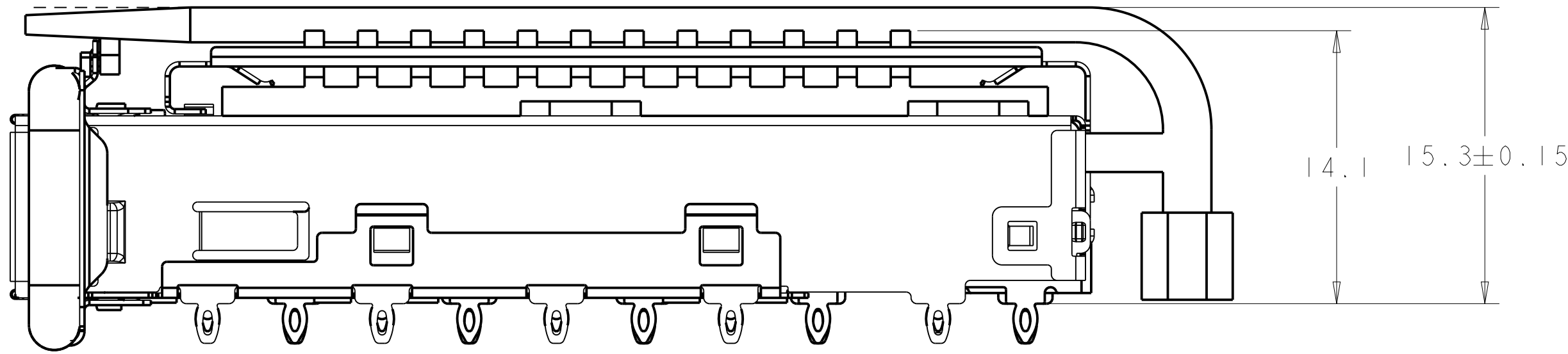
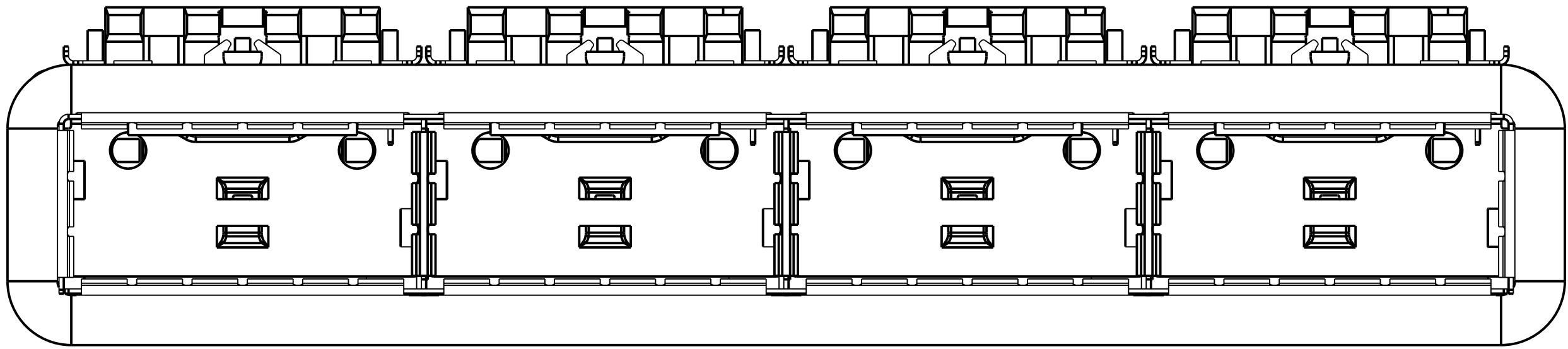
2170287-7, 2170287-8, 2170287-9
SCALE 2:1

1

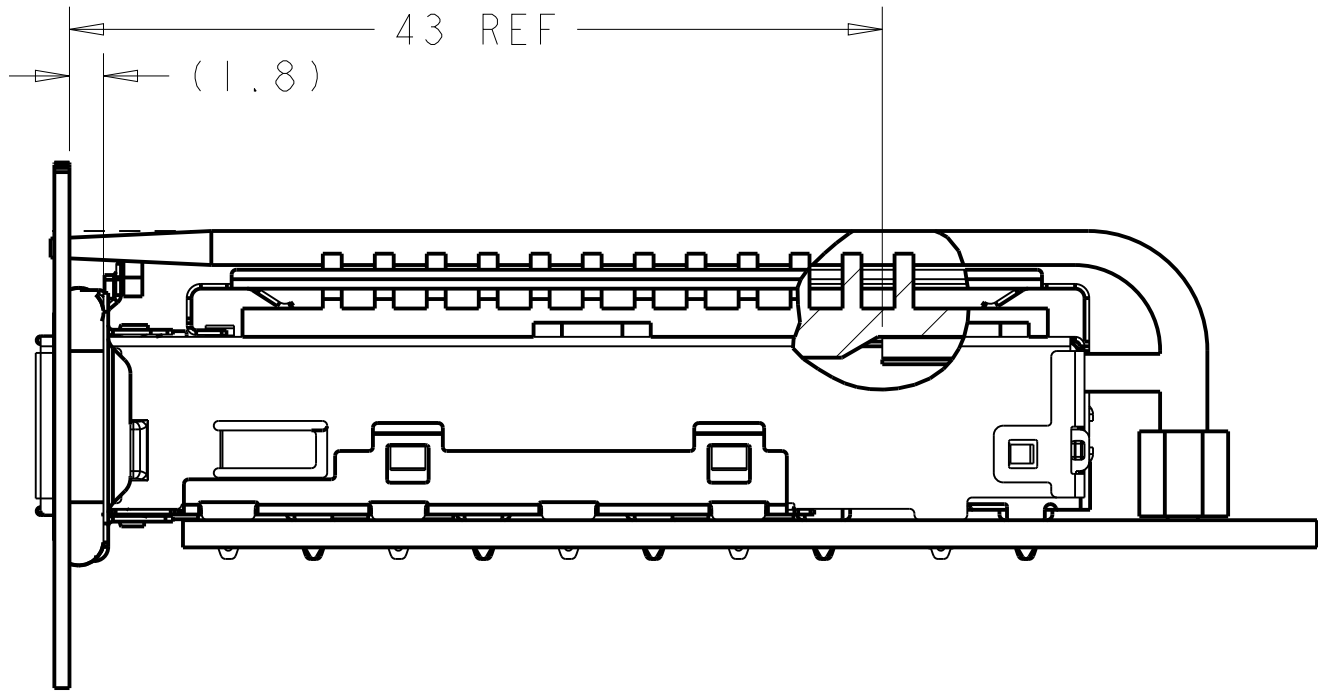
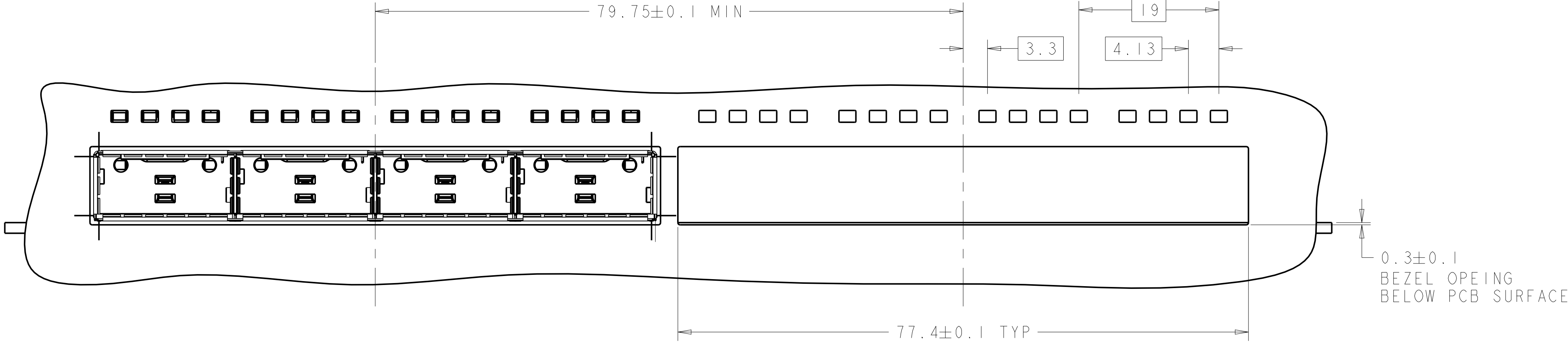
13.7	PCI(FIN TYPE)	1-2170287-1
15.0	CUSTOMIZED HEAT SINK	1-2170287-0
23.0	NETWORKING(FIN TYPE)	2170287-9
16.0	SAN(FIN TYPE)	2170287-8
13.7	PCI(FIN TYPE)	2170287-7
23.0	NETWORKING(FIN TYPE)	2170287-6
16.0	SAN(FIN TYPE)	2170287-5
13.7	PCI(FIN TYPE)	2170287-4
23.0	NETWORKING(PIN TYPE)	2170287-3
16.0	SAN(PIN TYPE)	2170287-2
13.7	PCI(PIN TYPE)	2170287-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	29FEB2012		
		CHK	KINSEN SUN		
		APVD	DENNY ZHU		
		APVD	ALEX CAI		
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC ±.35		PRODUCT SPEC	
		1 PLC ±0.25		108-2286	
		2 PLC ±		APPLICATION SPEC	
		3 PLC ±		114-13217	
		4 PLC ±		WEIGHT	
MATERIAL		FINISH		SIZE	
1		16		A100779C=2170287	
				Customer Drawing	
				SCALE 4:1	
				SHEET 1 OF 8	
				REV 10	

LOC		DIST		REVISONS			
P	LYR	DESCRIPTION		DATE	DWN	APVD	
-	-	SEE SHEET 1		-	-	-	

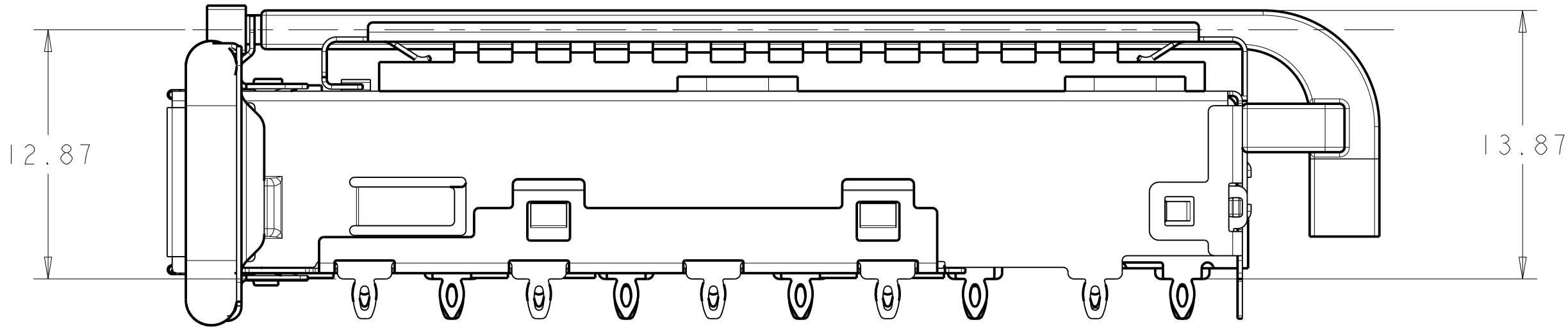
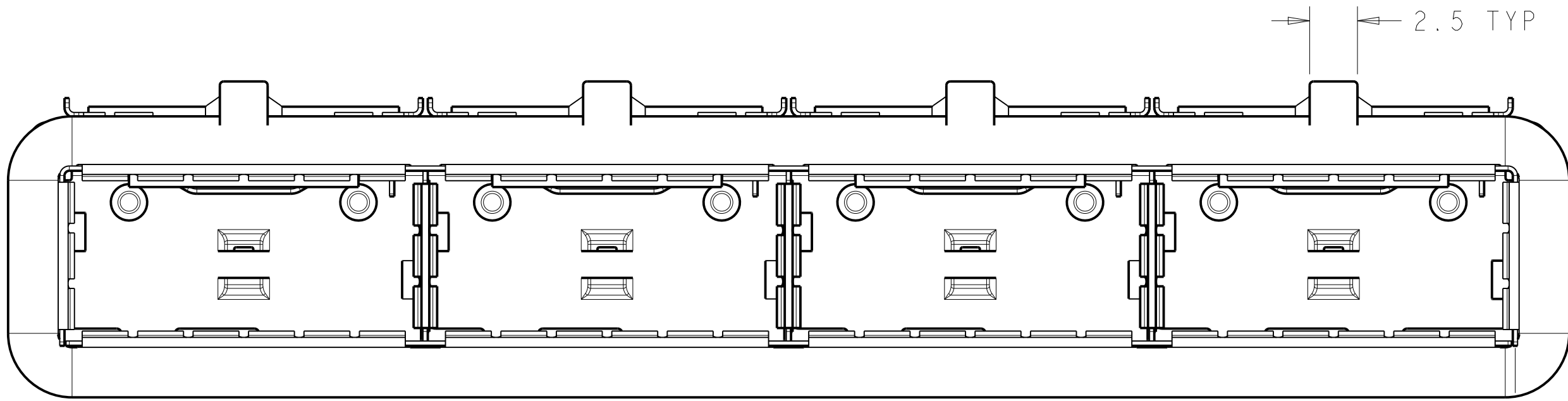


1-2170287-0 shown
SCALE 4:1

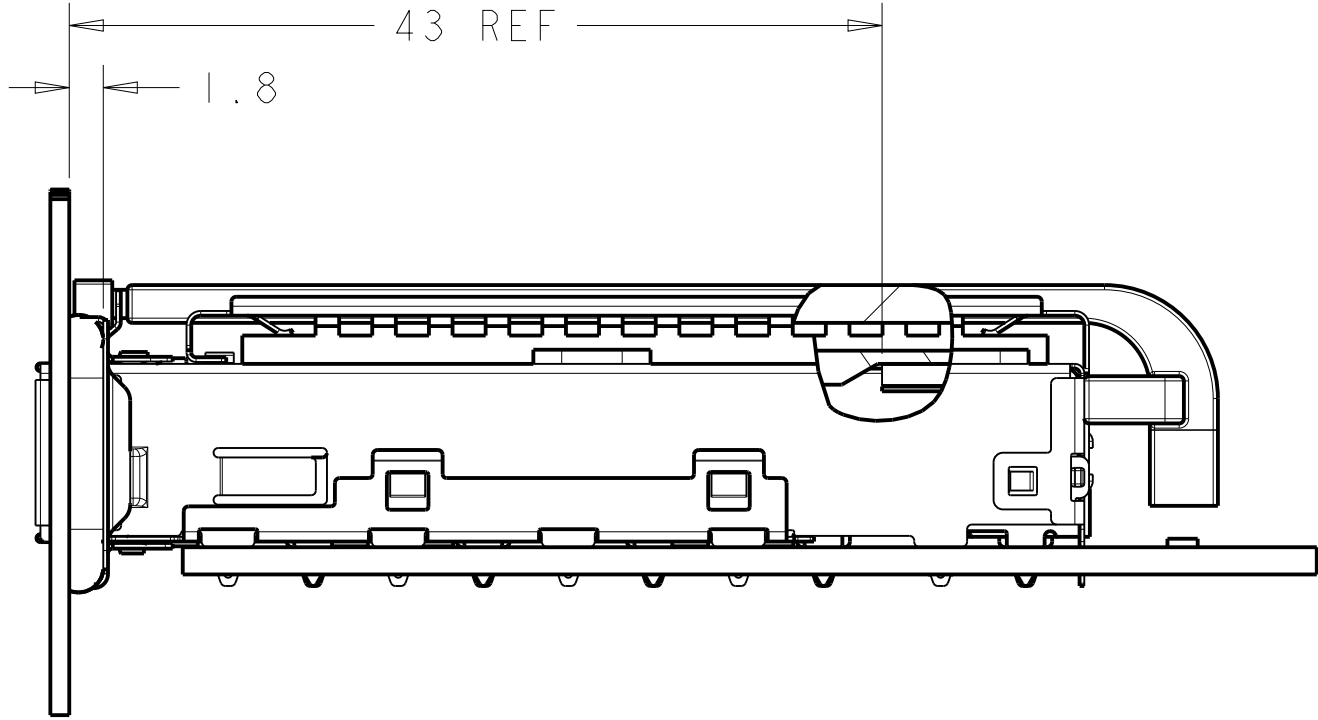
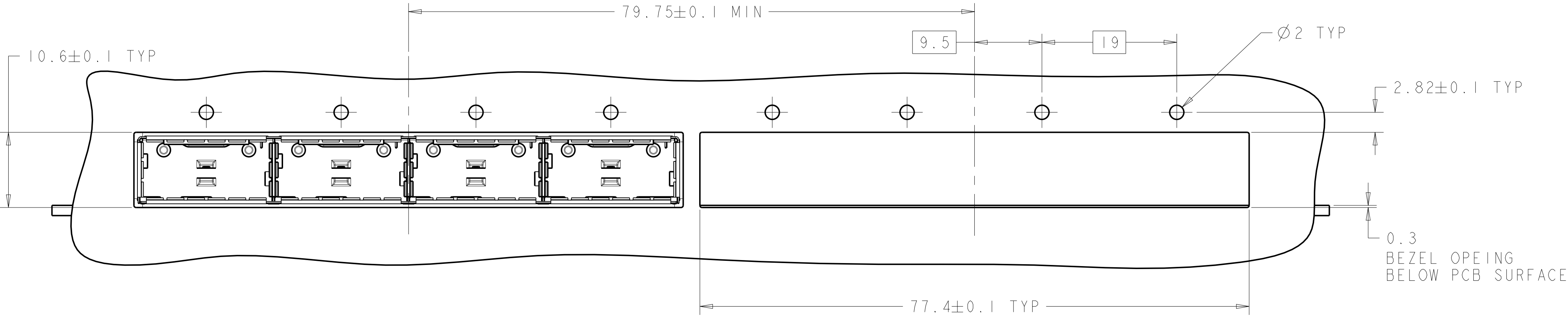


SECTION B-B

1-2170287-0
ONE SIDED CONFIGURATION
SCALE 5:2

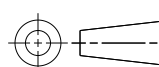


1-2170287-1 SHOWN
SCALE 4:1

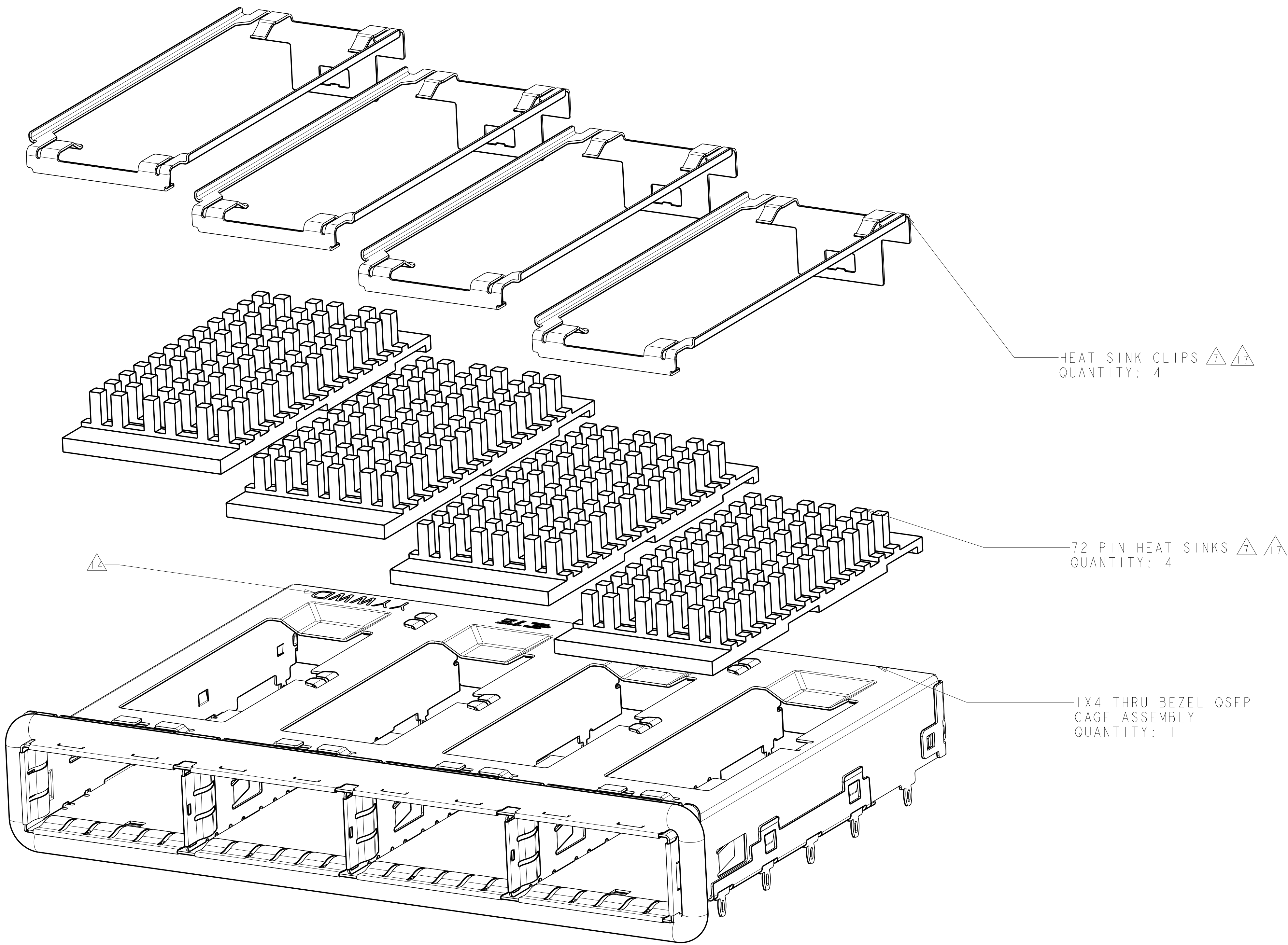


SECTION B-B

1-2170287-1
ONE SIDED CONFIGURATION
SCALE 5:2

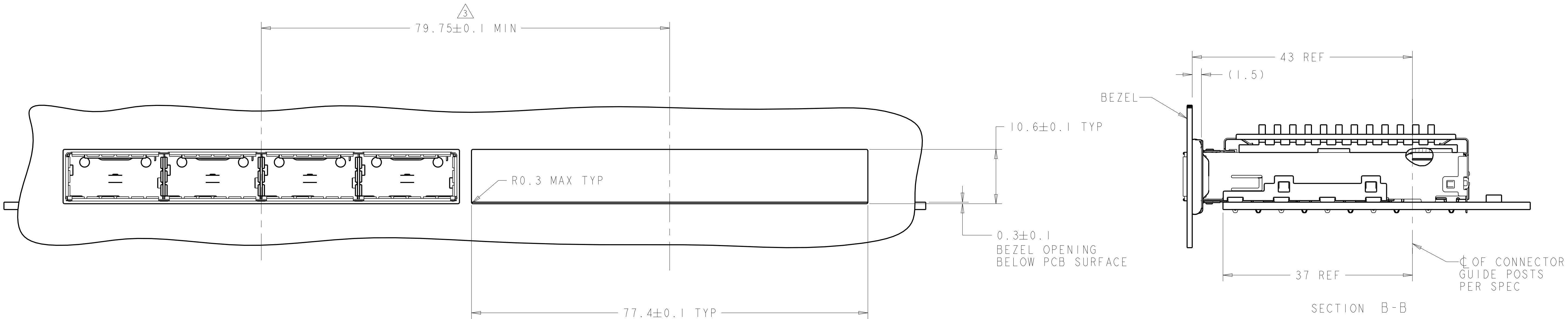
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN 29FEB2012	 TE Connectivity	
DIMENSIONS:		CHK DENNY ZHU 29FEB2012		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD ALEX CAI 29FEB2012	NAME 1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP	
	0 PLC ± 1 PLC ±0.35 2 PLC ±0.25 3 PLC ± 4 PLC ±	PRODUCT SPEC 108-2286	SIZE A100779	
MATERIAL	FINISH	APPLICATION SPEC 114-13217	CAGE CODE C=2170287	
		WEIGHT	RESTRICTED TO	
		Customer Drawing	SCALE 4:1 SHEET 2 OF 8 REV 10	

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

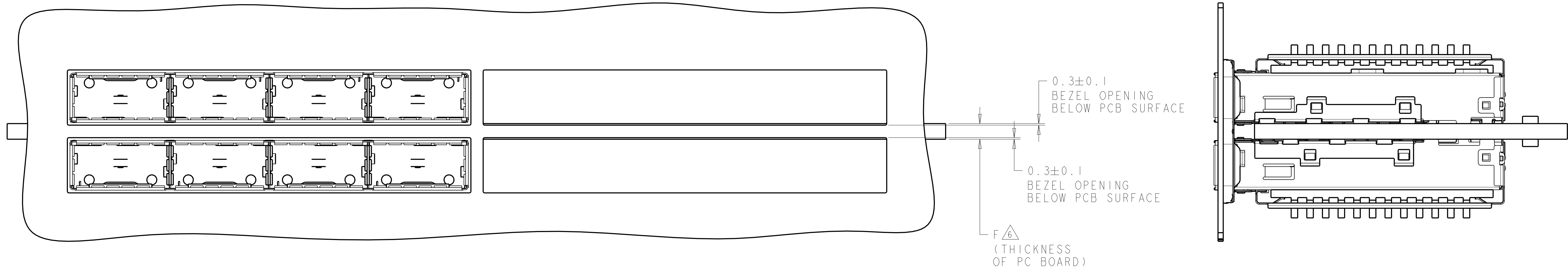


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	KINSEN SUN	29FEB2012	TE Connectivity	
		CHK	DENNY ZHU	29FEB2012		
		APVD	AILEY CAI	29FEB2012	NAME	
		PRODUCT SPEC			1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP	
		APPLICATION SPEC			SIZE	
		114-13217			A100779C=2170287	
		WEIGHT			RESTRICTED TO	
		Customer Drawing			-	
					SCALE	
		4:1			SHEET	
		3			OF	
		8			REV	
		10				

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

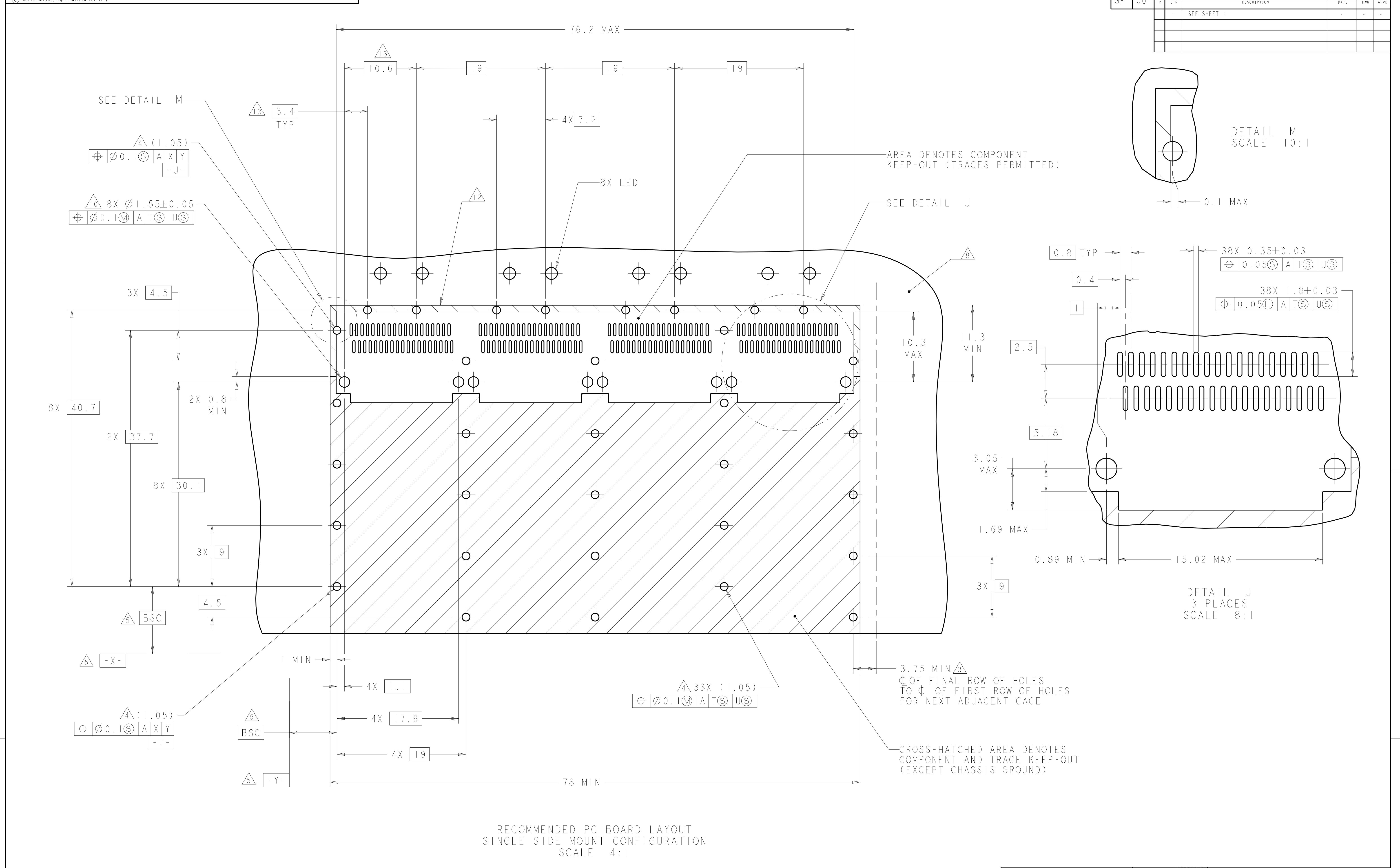


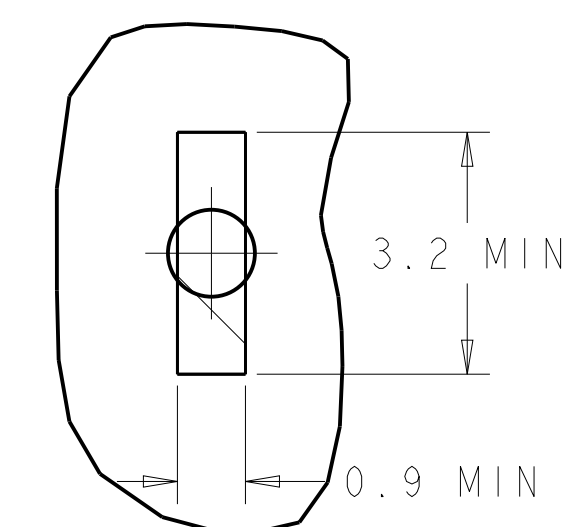
ONE SIDED CONFIGURATION
SCALE 5:2



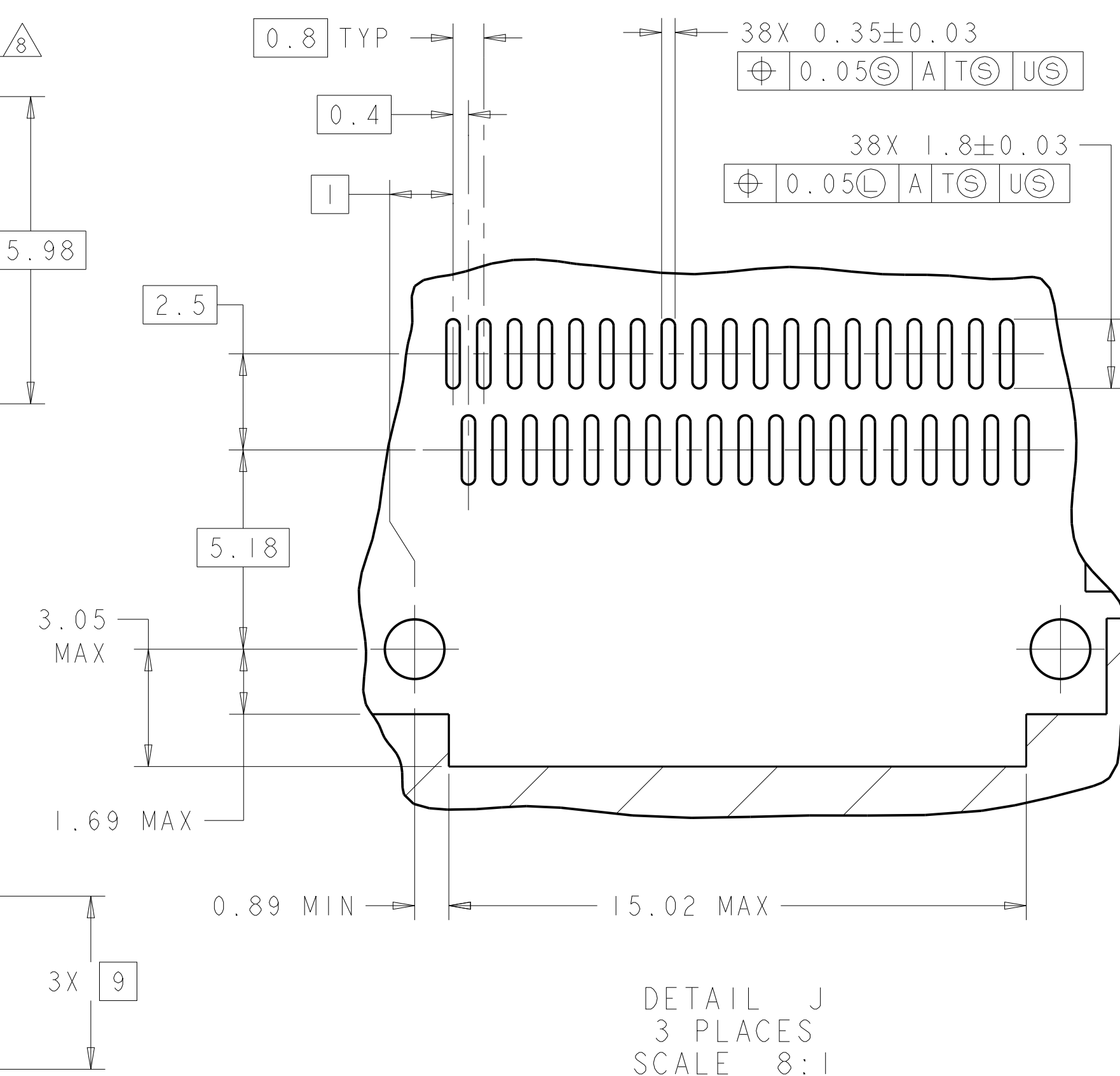
BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 5:2

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN CHK DENNY ZHU APVD ALEX CAI	29FEB2012 29FEB2012 29FEB2012	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC ±.35 1 PLC ±0.35 2 PLC ±0.25 3 PLC ±.35 4 PLC ±.35 ANGLES ±.35 FINISH -		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13217	
MATERIAL		WEIGHT		SIZE CAGE CODE DRAWING NO	
-		-		A100779C=2170287	
Customer Drawing		SCALE 4:1		SHEET 4 OF 8	
				REV 10	



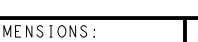


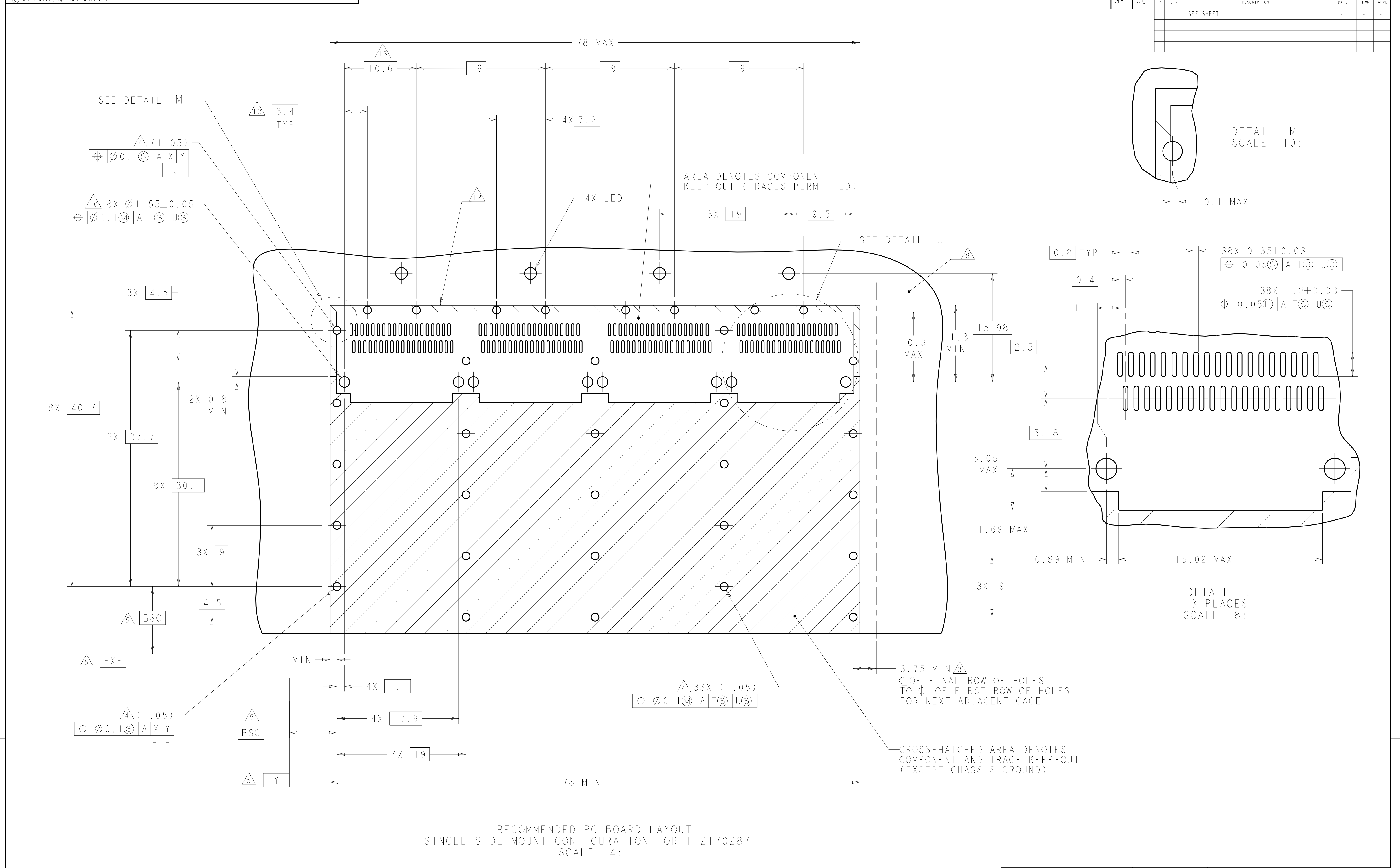
DETAIL M
SCALE 10:1



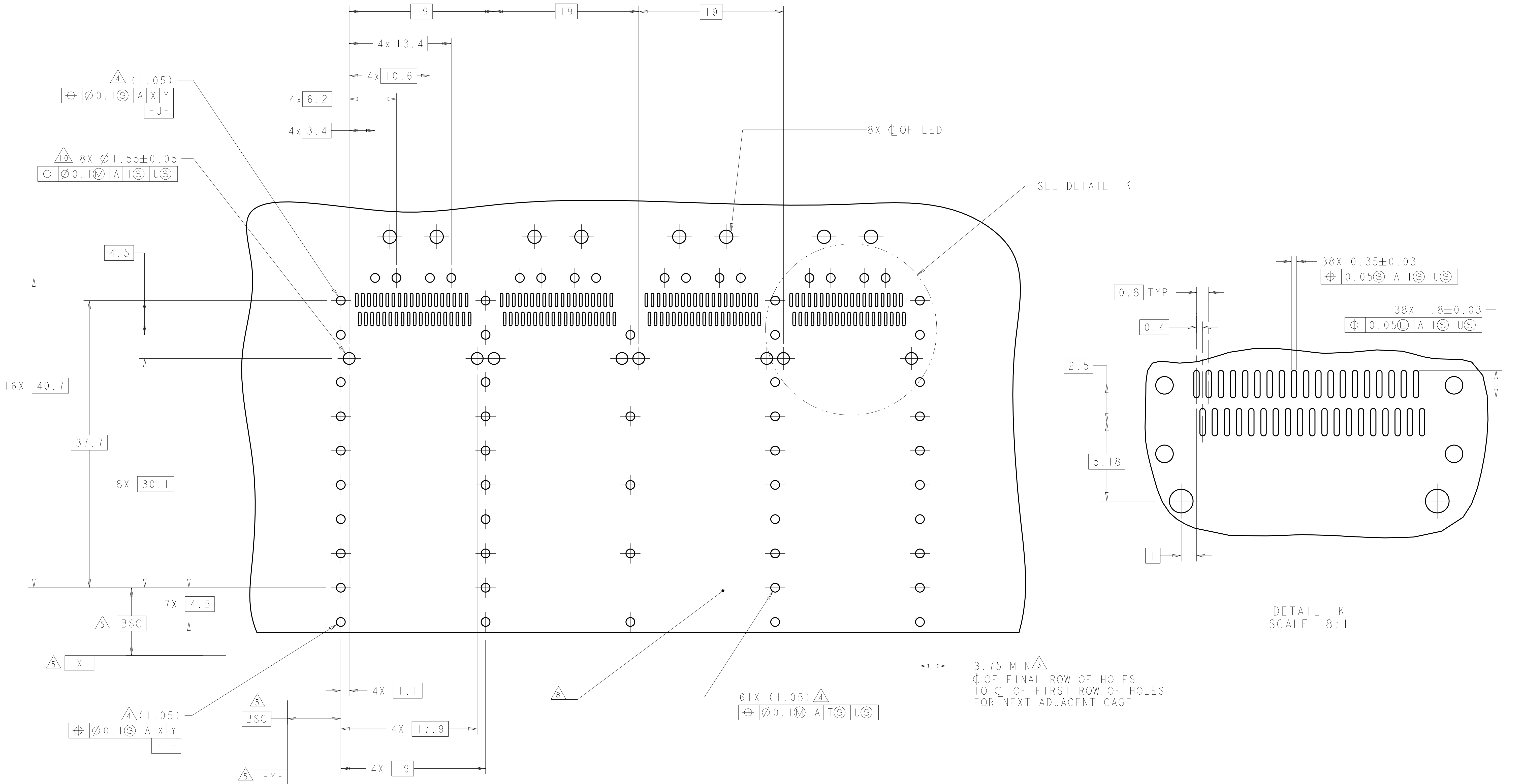
DETAIL J
3 PLACES
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN	29FEB2012	 TE Connectivity
		CHK DENNY ZHU	29FEB2012	
		APVD ALEX CAI	29FEB2012	
		NAME		
DIMENSIONS: mm 		0 PLC ± 1 PLC ±0.35 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLE FINISH ±		IX4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSPF
MATERIAL -		APPLICATION SPEC 108-2286 114-13217		SIZE A100779
		WEIGHT -		DRAWING NO C-2170287
		Customer Drawing		RESTRICTED TO SCALE 1:1 SHEET 6 OF 8 REV 1



LOC		DIST		REVISONS			
P	LYR	DESCRIPTION		DATE	DWN	APVD	
-		SEE SHEET 1		-	-	-	



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT AND TRACE KEEP-OUTS
SCALE 4:1

DETAIL K
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN CHK DENNY ZHU APVD ALEX CAI	29FEB2012 29FEB2012 29FEB2012	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC ±0.35 1 PLC ±0.35 2 PLC ±0.25 3 PLC ± 4 PLC ±		1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP	
MATERIAL		FINISH		SIZE CAGE CODE DRAWING NO	
-		-		A100779C=2170287	
Customer Drawing		Customer Drawing		RESTRICTED TO	
SCALE 4:1		SHEET 8 OF 8		REV 10	