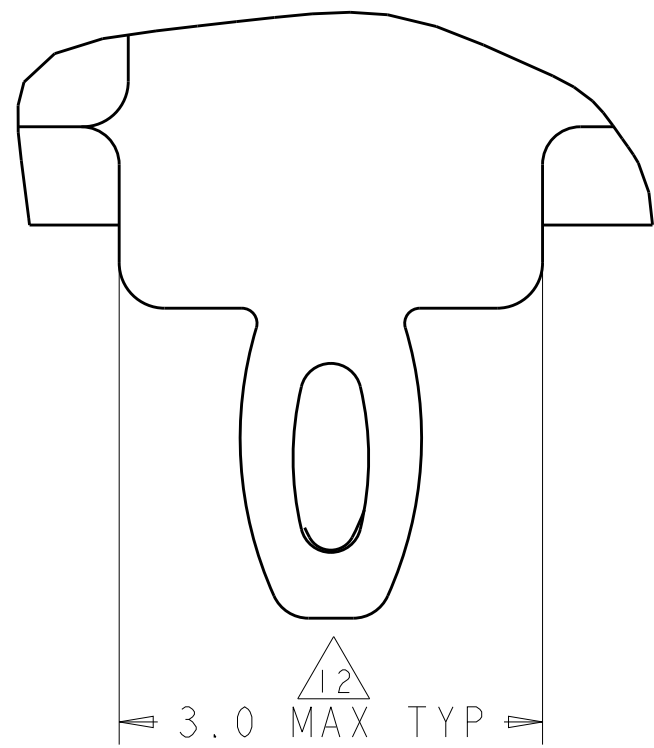


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		A	RELEASE PER ECO-16-002978	3MAR2016	RG	SH



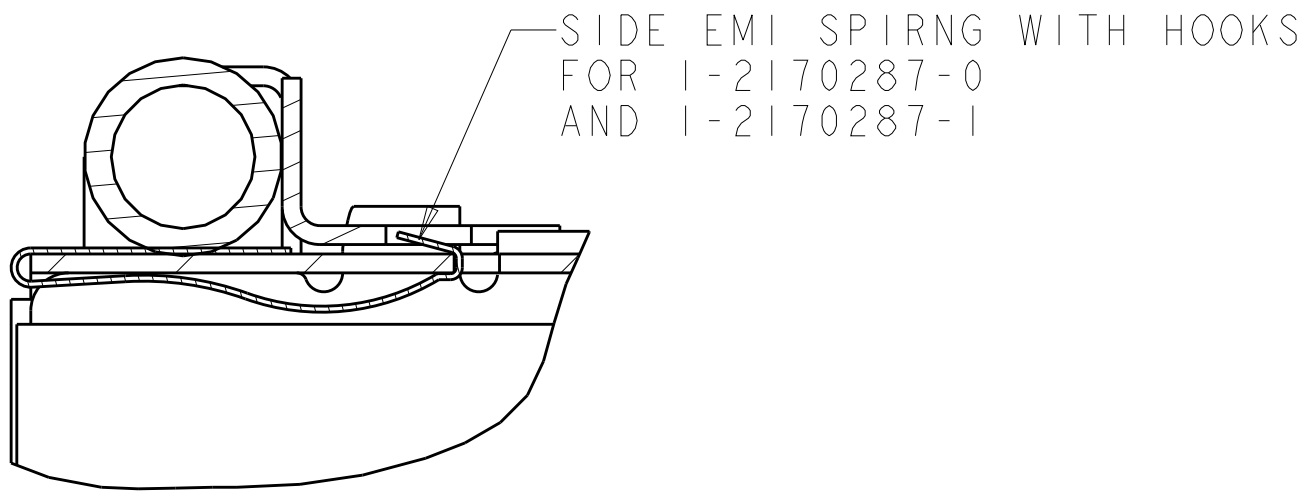
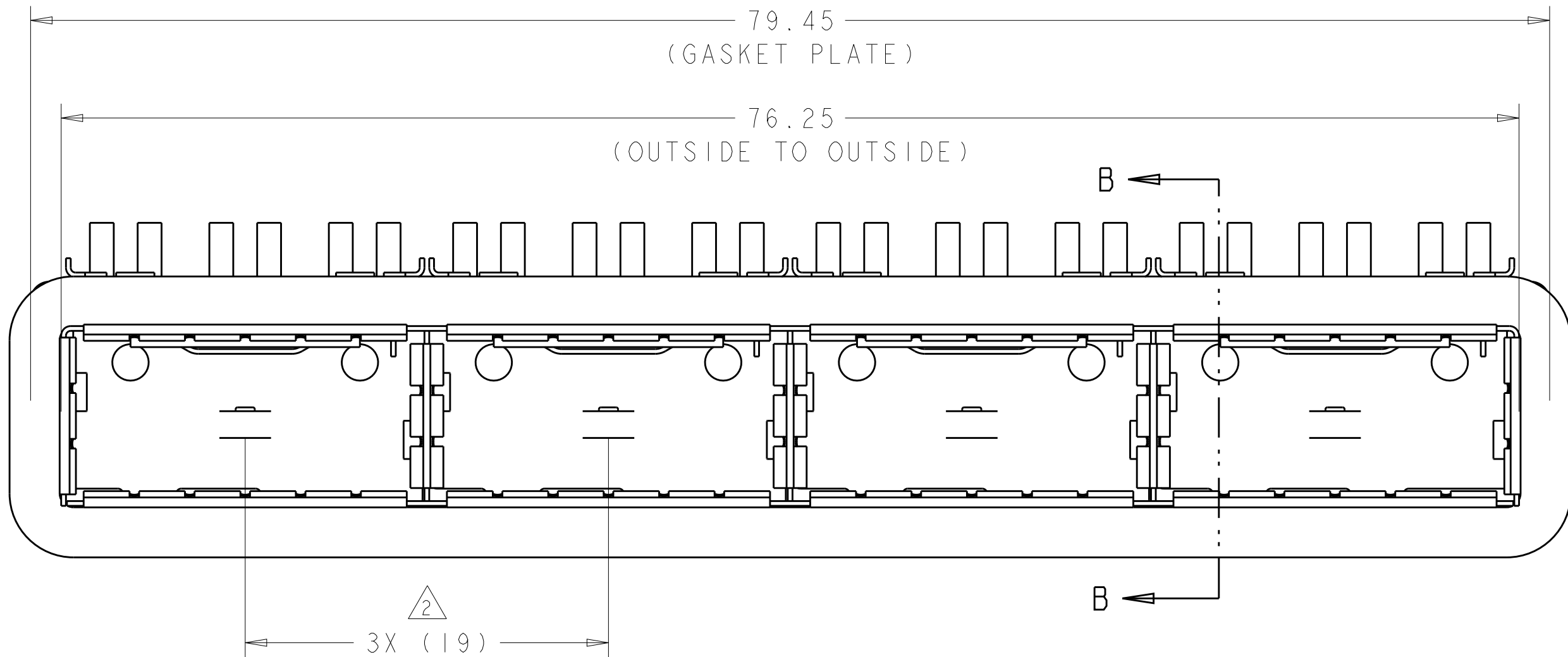
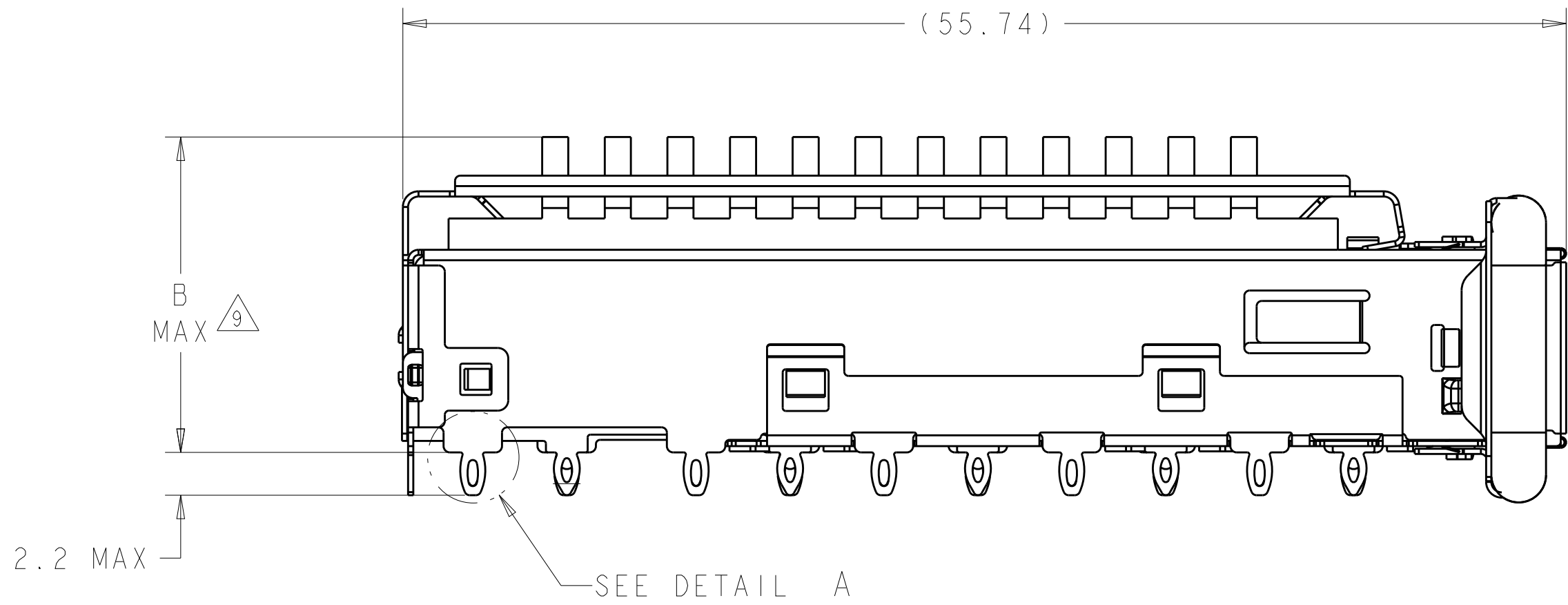
DETAIL A
SCALE 20:1

- 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

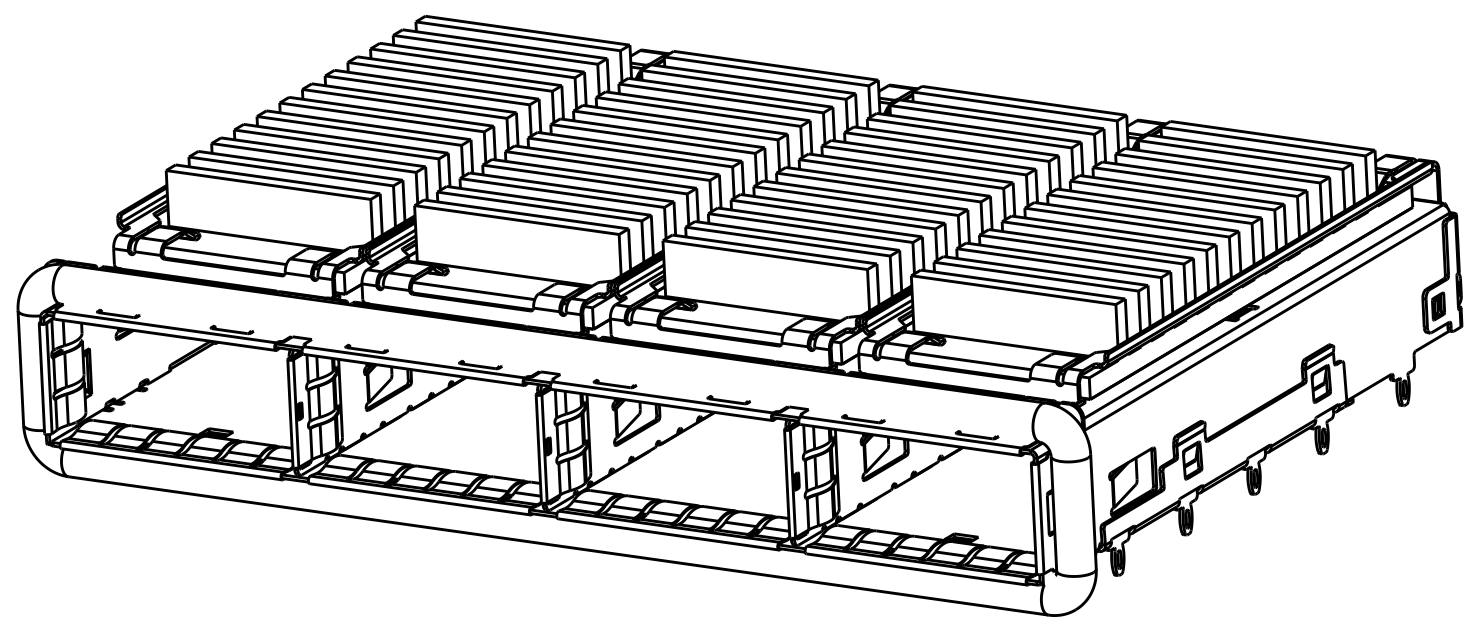
- 2 PITCH BETWEEN PORTS OF ONE 1X4 CAGE ASSEMBLY.
- 3 SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- 4 REFERENCE APPLICATION SPEC 114-13217 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 5 DATUMS AND BASIC DIMENSIONS 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.

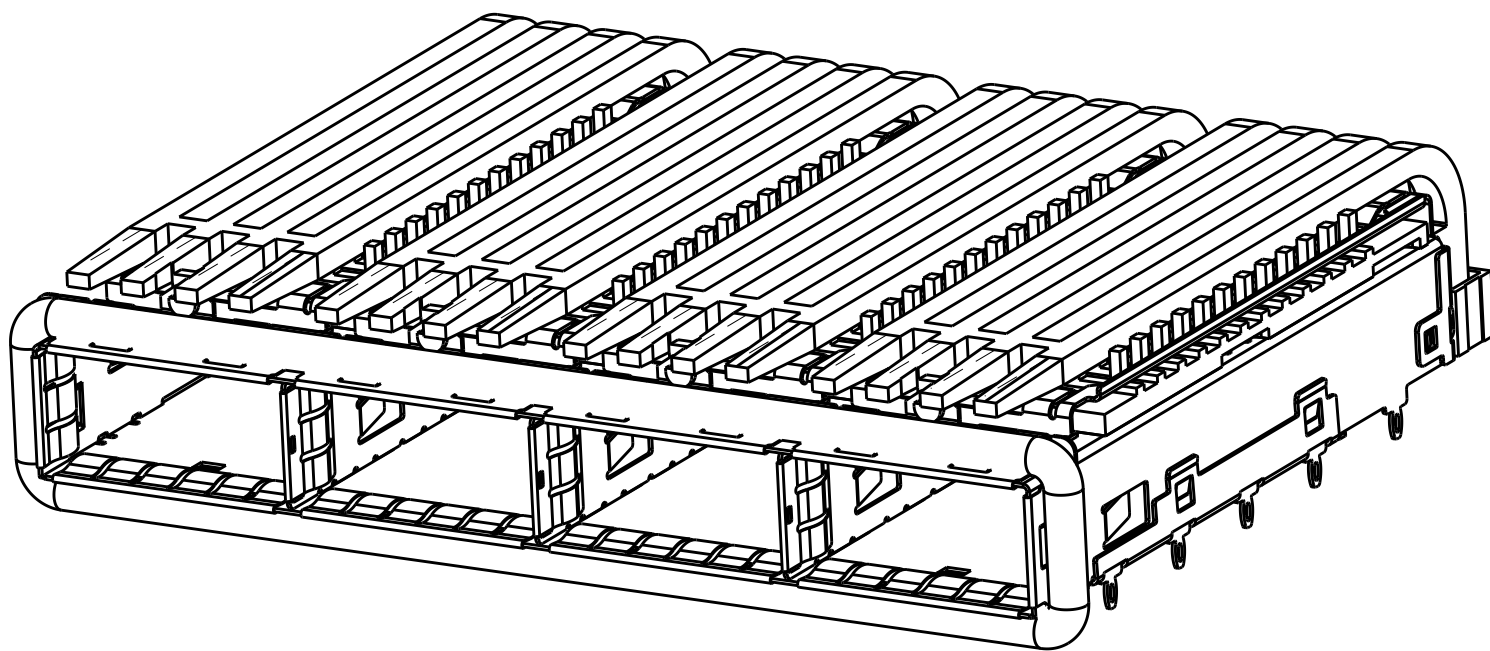
- 12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL A, CONTACT PC BOARD.
- 13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 14 DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.
- 15 REFERENCE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



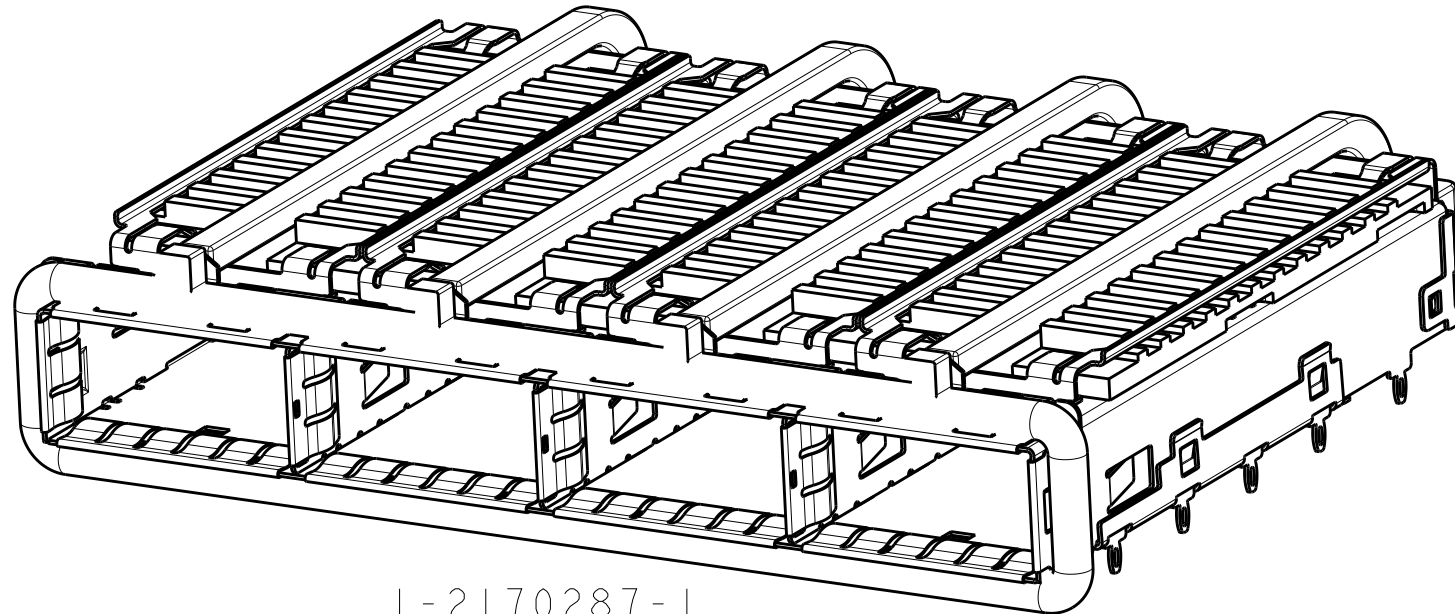
SECTION B-B
SCALE 10:1



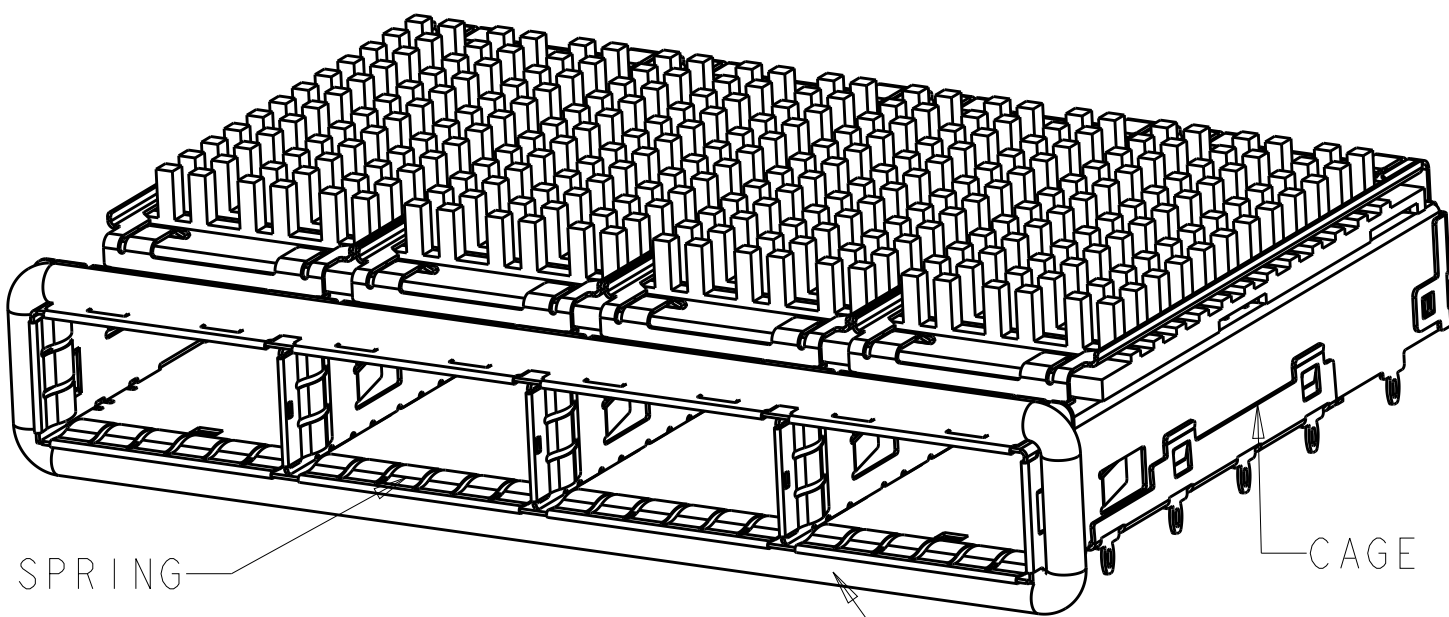
2170287-4, 2170287-5, 2170287-6
SCALE 2:1



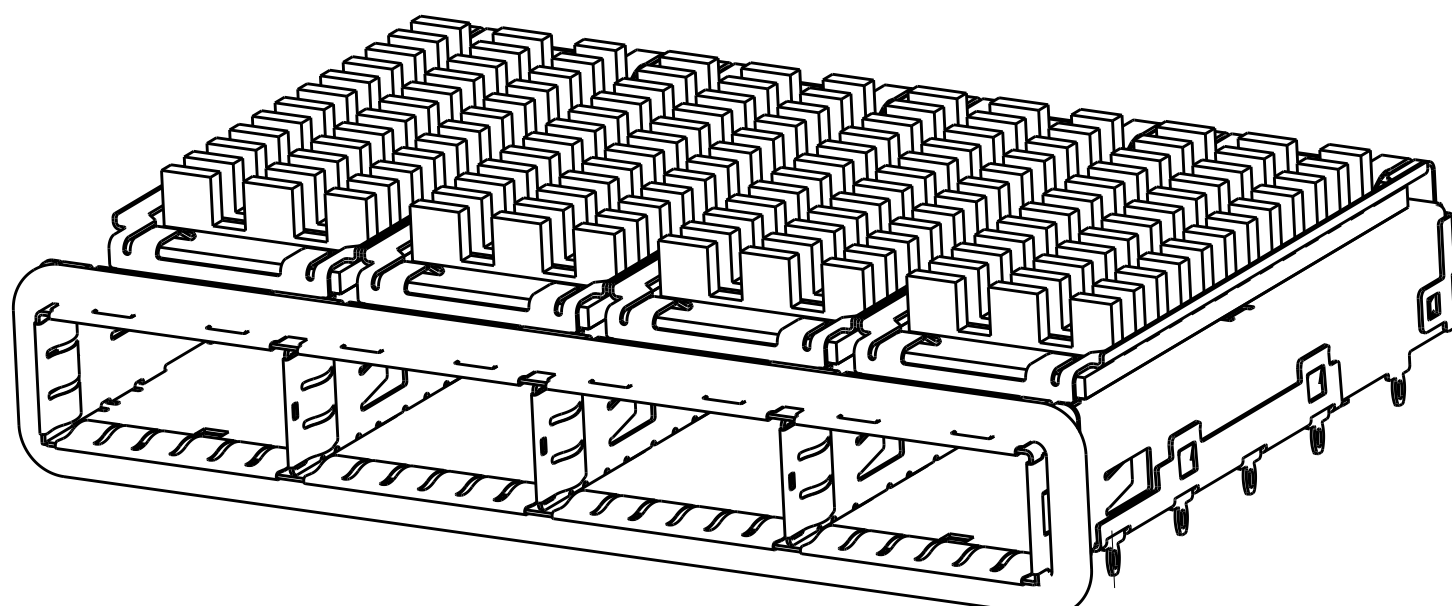
1-2170287-0
SCALE 2:1



1-2170287-1
SCALE 2:1



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

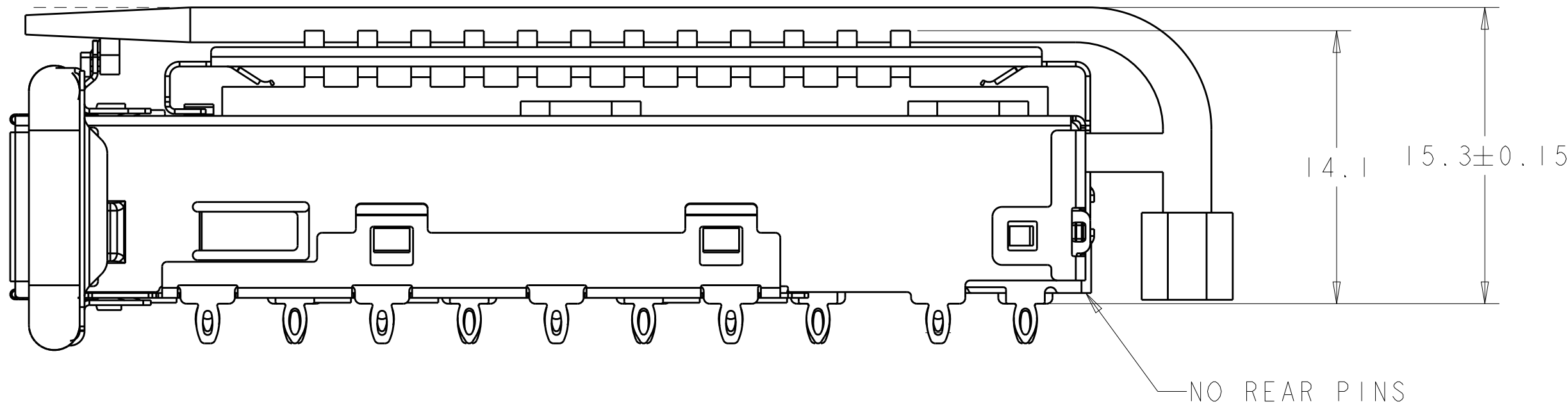
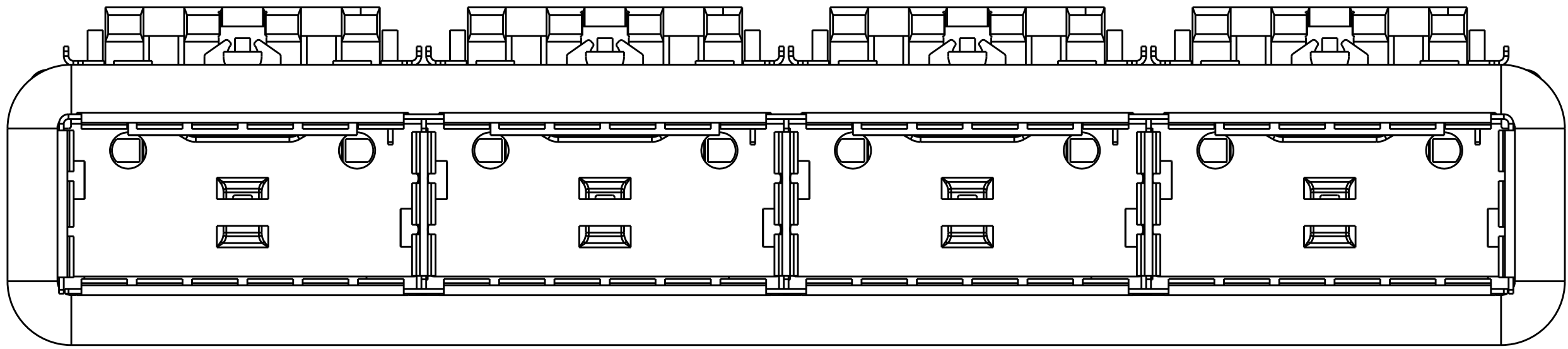


2170287-7, 2170287-8, 2170287-9
SCALE 2:1

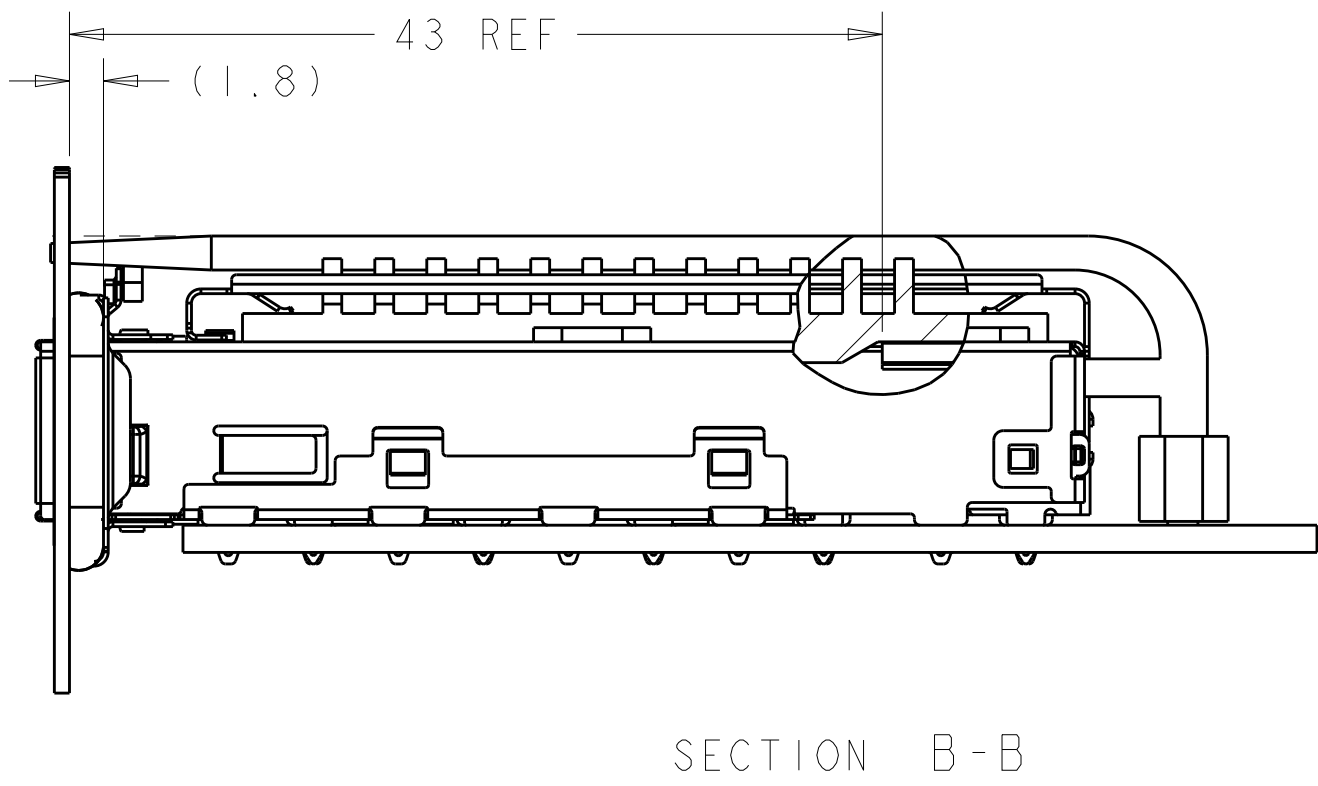
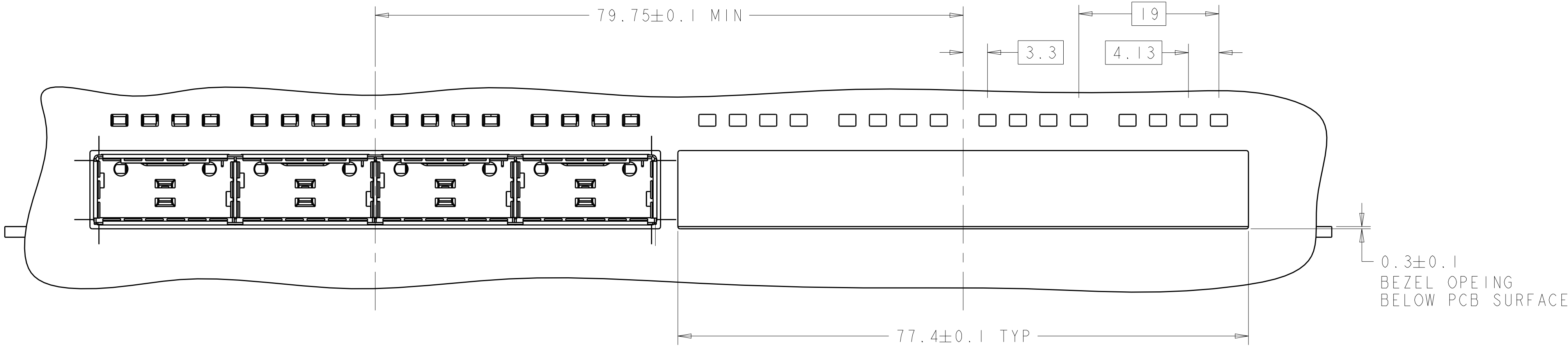
1		
13.7	PCI(FIN TYPE)	1-2170287-1
15.0	CUSTOMIZED HEAT SINK	1-2170287-0
23.0	NETWORKING(FIN TYPE)	2170287-9
16.0	SAN(FIN TYPE)	2170287-8
13.7	PCI(FIN TYPE)	2170287-7
23.0	NETWORKING(FIN TYPE)	2170287-6
16.0	SAN(FIN TYPE)	2170287-5
13.7	PCI(FIN TYPE)	2170287-4
23.0	NETWORKING(PIN TYPE)	2170287-3
16.0	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 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 ±0.25 2 PLC ±.25 3 PLC ±.25 4 PLC ±.25 ANGLES ±.25		PRODUCT SPEC	
MATERIAL		FINISH		APPLICATION SPEC	
1		16		114-13217	
CUSTOMER DRAWING		WEIGHT		SIZE CAGE CODE DRAWING NO	
				A100779C=2170287	
				RESTRICTED TO	
				SCALE 4:1 SHEET 1 OF 8 REV A	

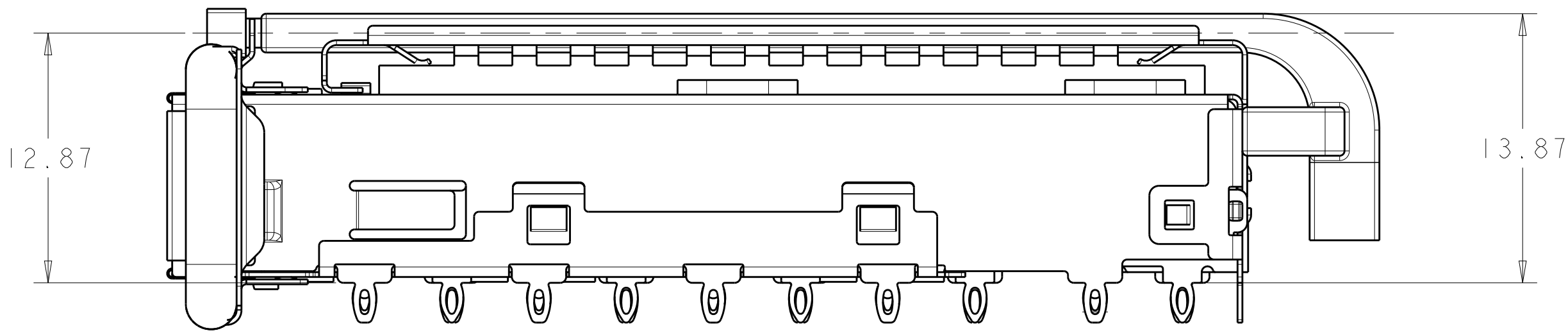
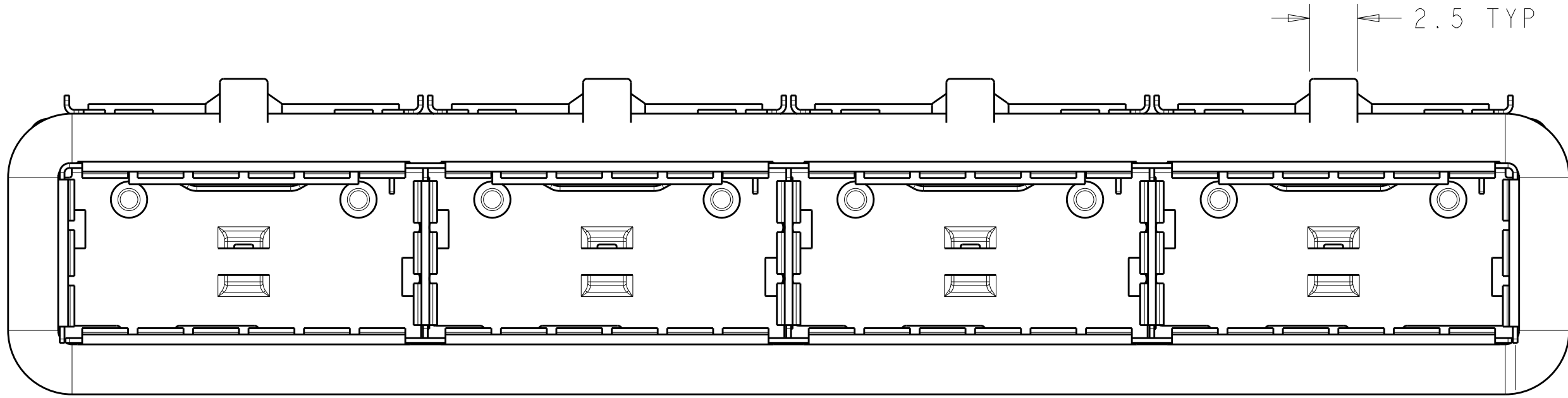
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00	-	-	SEE SHEET 1	-	-	-



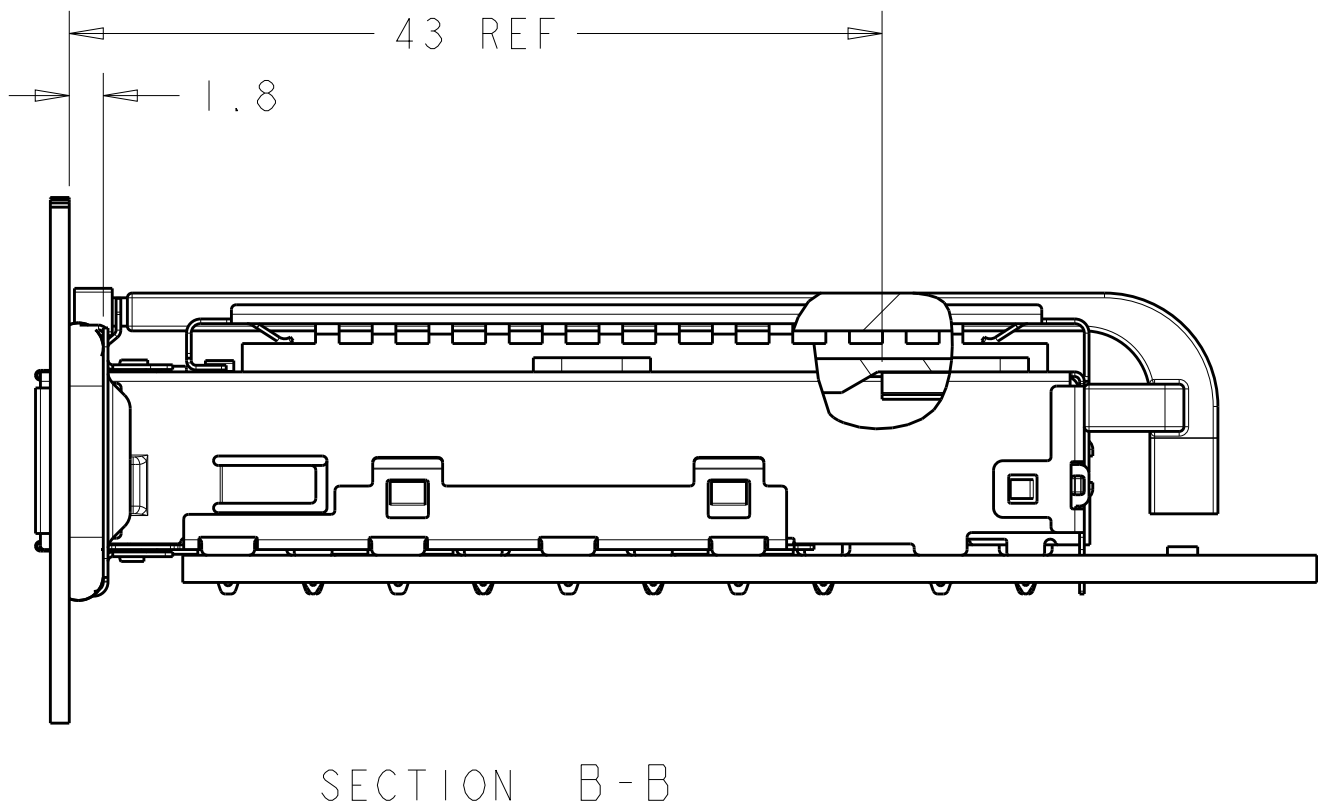
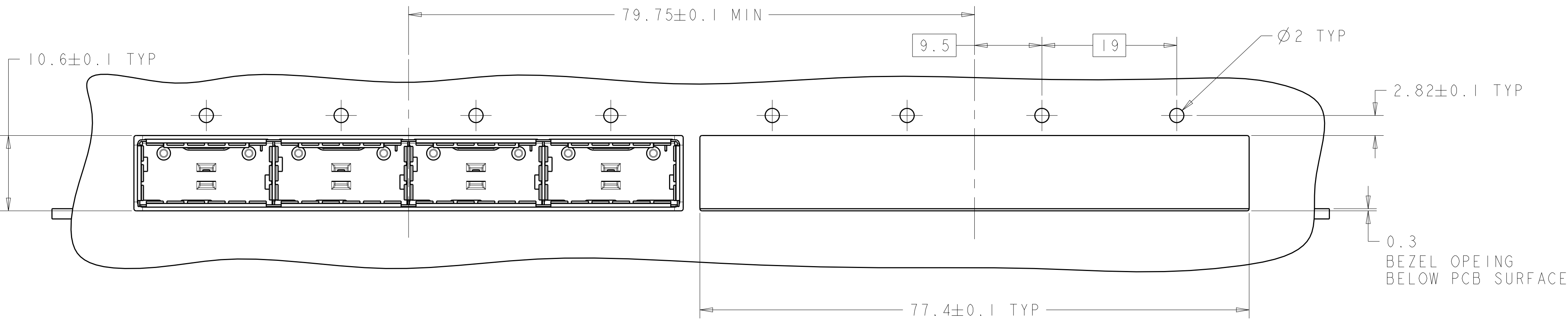
1-2170287-0 shown
SCALE 4:1



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



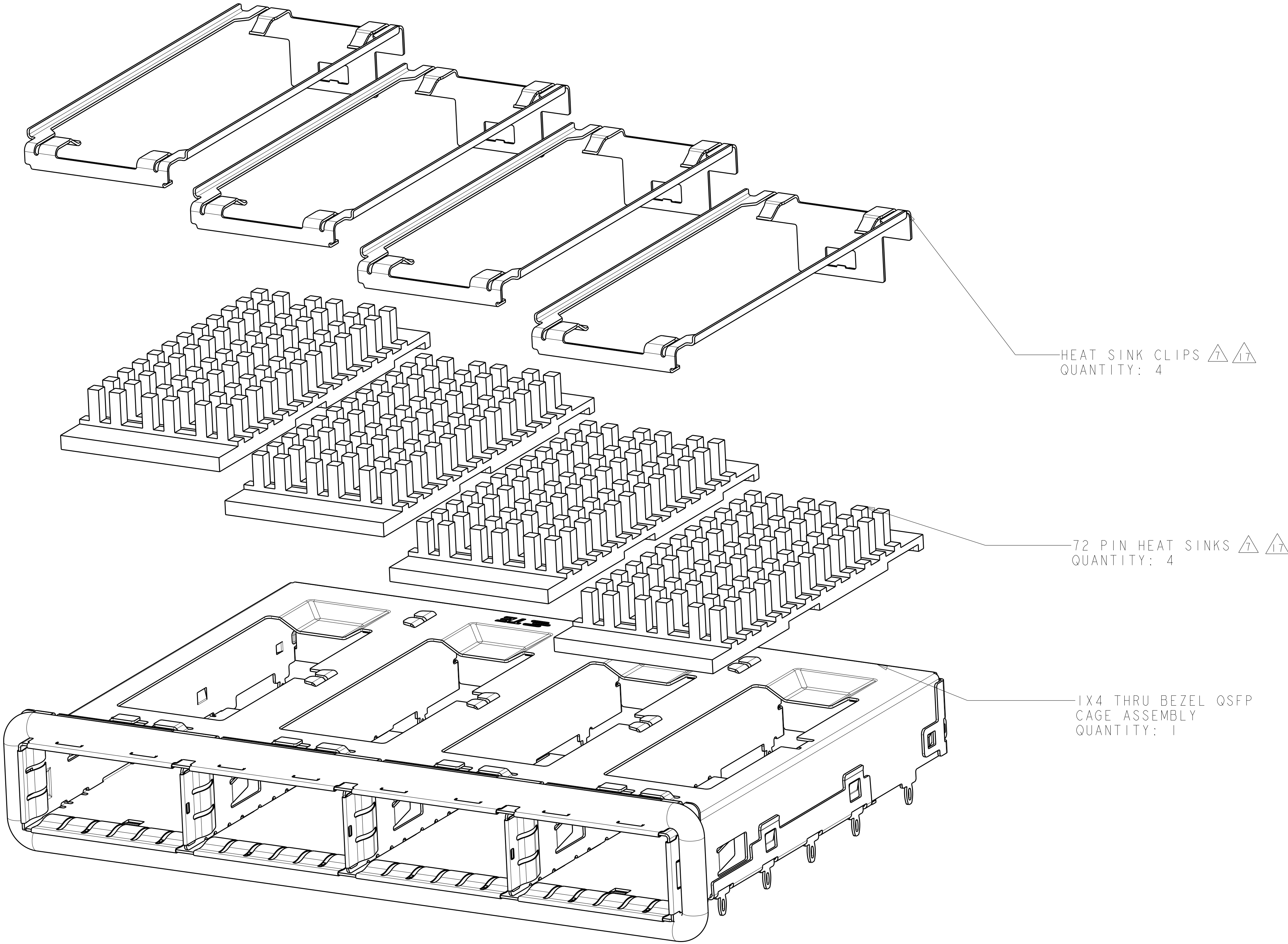
1-2170287-1 SHOWN
SCALE 4:1



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

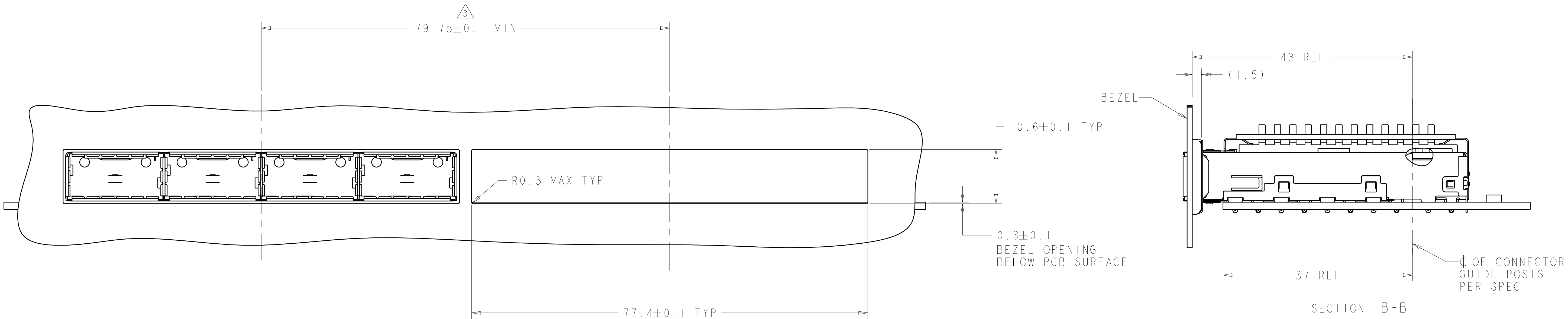
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN CHK DENNY ZHU APVD ALEX CAI	29FEB2012 29FEB2012 29FEB2012	TE Connectivity	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	NAME	1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP	
mm	0 PLC ±0.35 1 PLC ±0.25 2 PLC ± 3 PLC ± 4 PLC ± ANGLES ± FINISH	APPLICATION SPEC	SIZE	CAGE CODE	DRAWING NO
MATERIAL		WEIGHT	A100779	C=2170287	RESTRICTED TO
CUSTOMER DRAWING		SCALE	1:1	SHEET	2 OF 8
		REV	A		

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

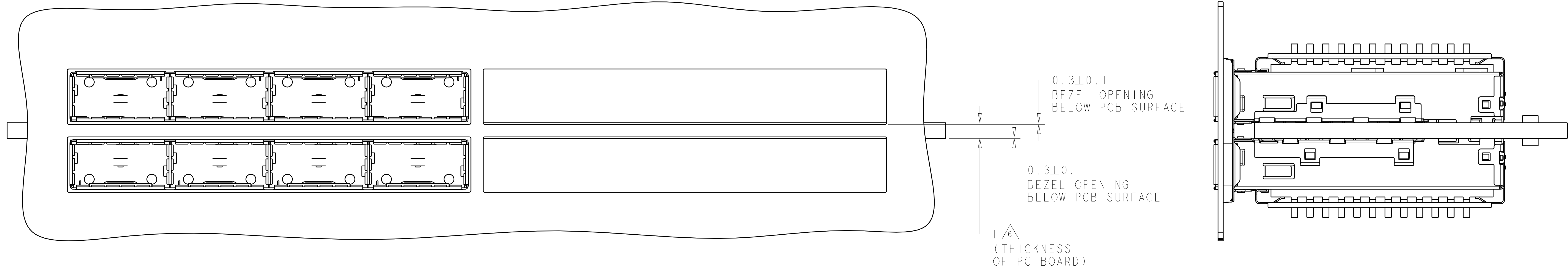


THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN	KINSEN SUN	29FEB2012	 TE Connectivity			
				CHK	DENNY ZHU	29FEB2012				
				APVD	AILEX CAI	29FEB2012	NAME			
				PRODUCT SPEC			1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP			
				APPLICATION SPEC						
				WEIGHT			RESTRICTED TO			
				CUSTOMER DRAWING						
							SCALE			
							SHEET			
							REV			

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

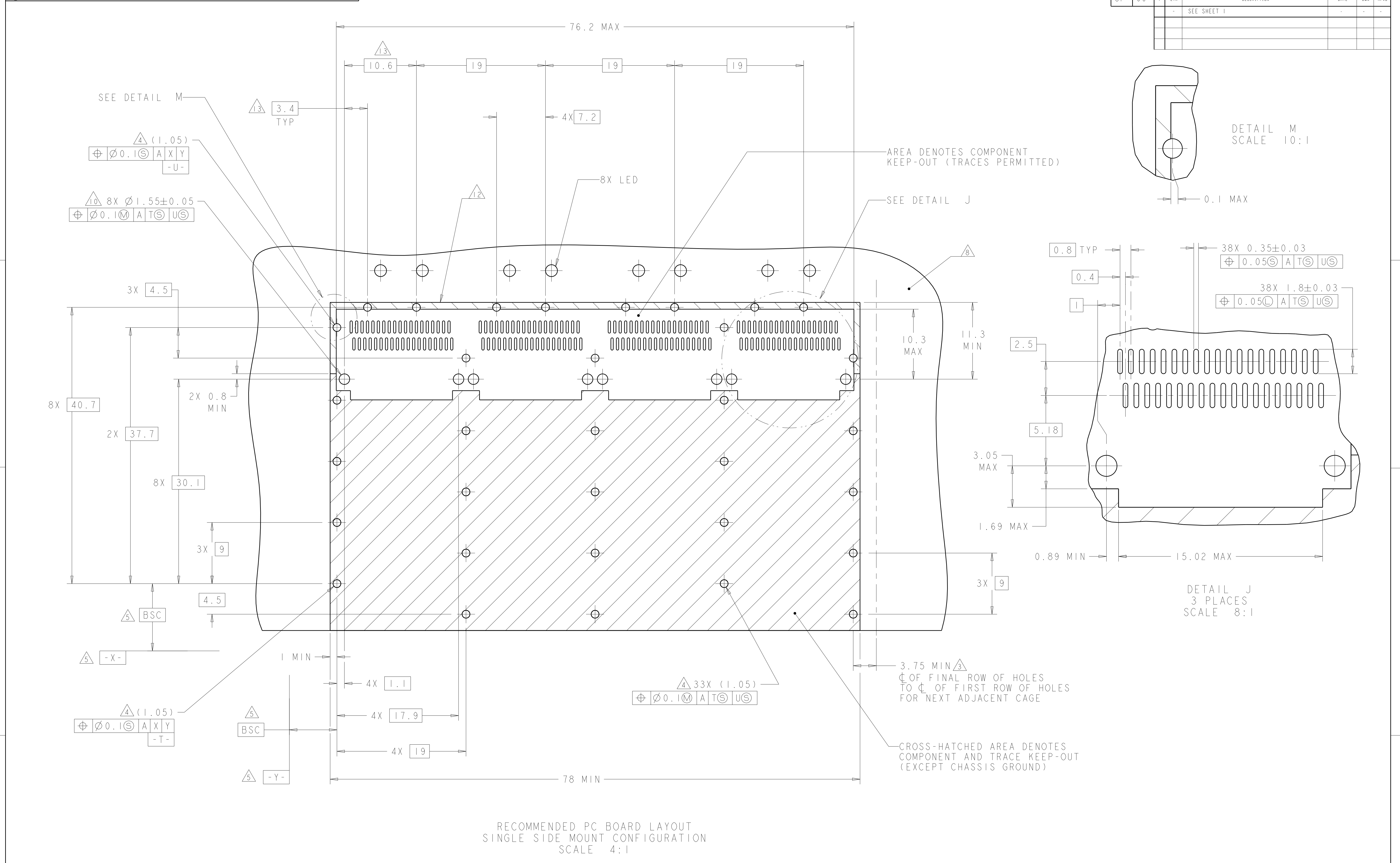


ONE SIDED CONFIGURATION
SCALE 5:2



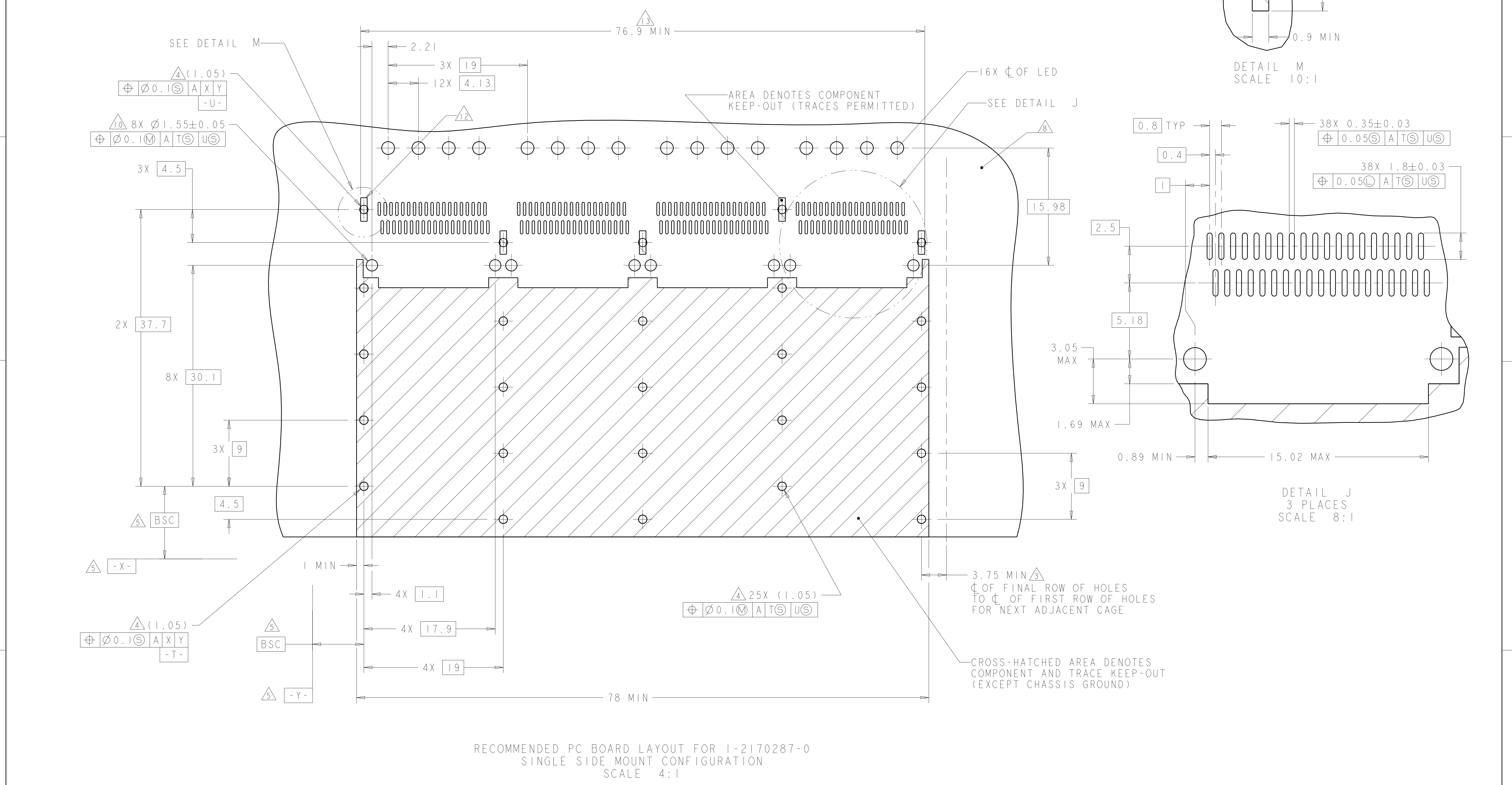
BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 5:2

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 ± 4 PLC ± ANGLES ± FINISH		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13217	
MATERIAL		WEIGHT		SIZE CAGE CODE DRAWING NO	
-		-		A100779C=2170287	
CUSTOMER DRAWING		SCALE		SHEET 4 OF 8	
		1:1		REV A	



RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN 29FEB2012	 TE Connectivity				
		CHK DENNY ZHU 29FEB2012					
DIMENSIONS: mm		TOLERANCES UNLESS SPECIFIED: 0 PLC ±0.35 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES FINISH	NAME ALEX CAI 29FEB2012				
			PRODUCT SPEC 108-2286				
MATERIAL -			APPLICATION SPEC 114-13217				
			WEIGHT -				
CUSTOMER DRAWING			SCALE 1:1	SHEET 5 OF 8	REV A		

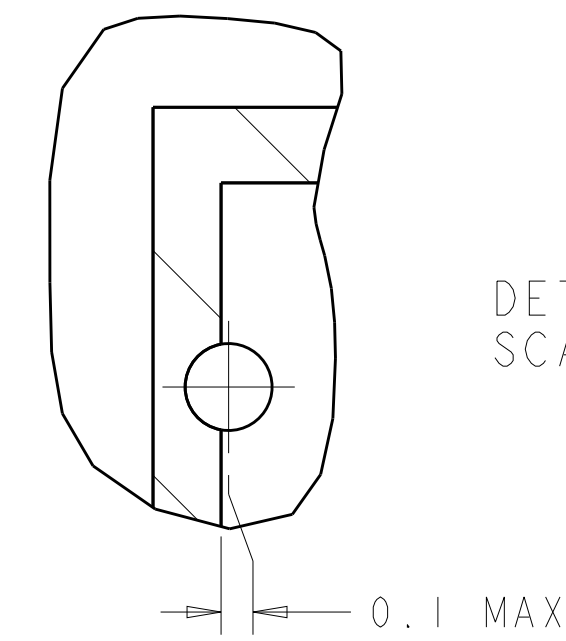


DETAIL M
SCALE 10:1

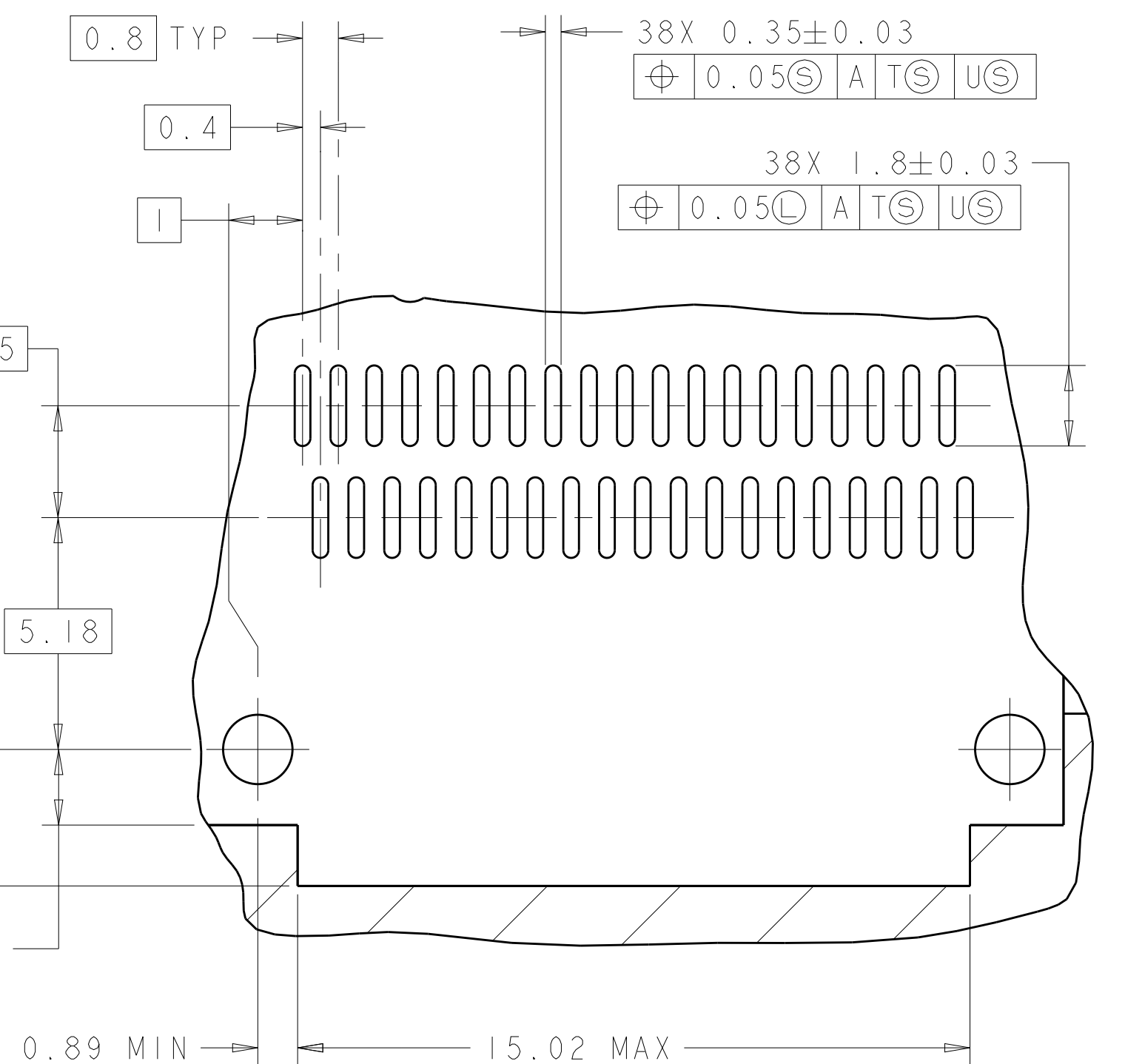
DETAIL J
3 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT FOR 1-2170287-0
SINGLE SIDE MOUNT CONFIGURATION
SCALE 4:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING



DETAIL M
SCALE 10:1



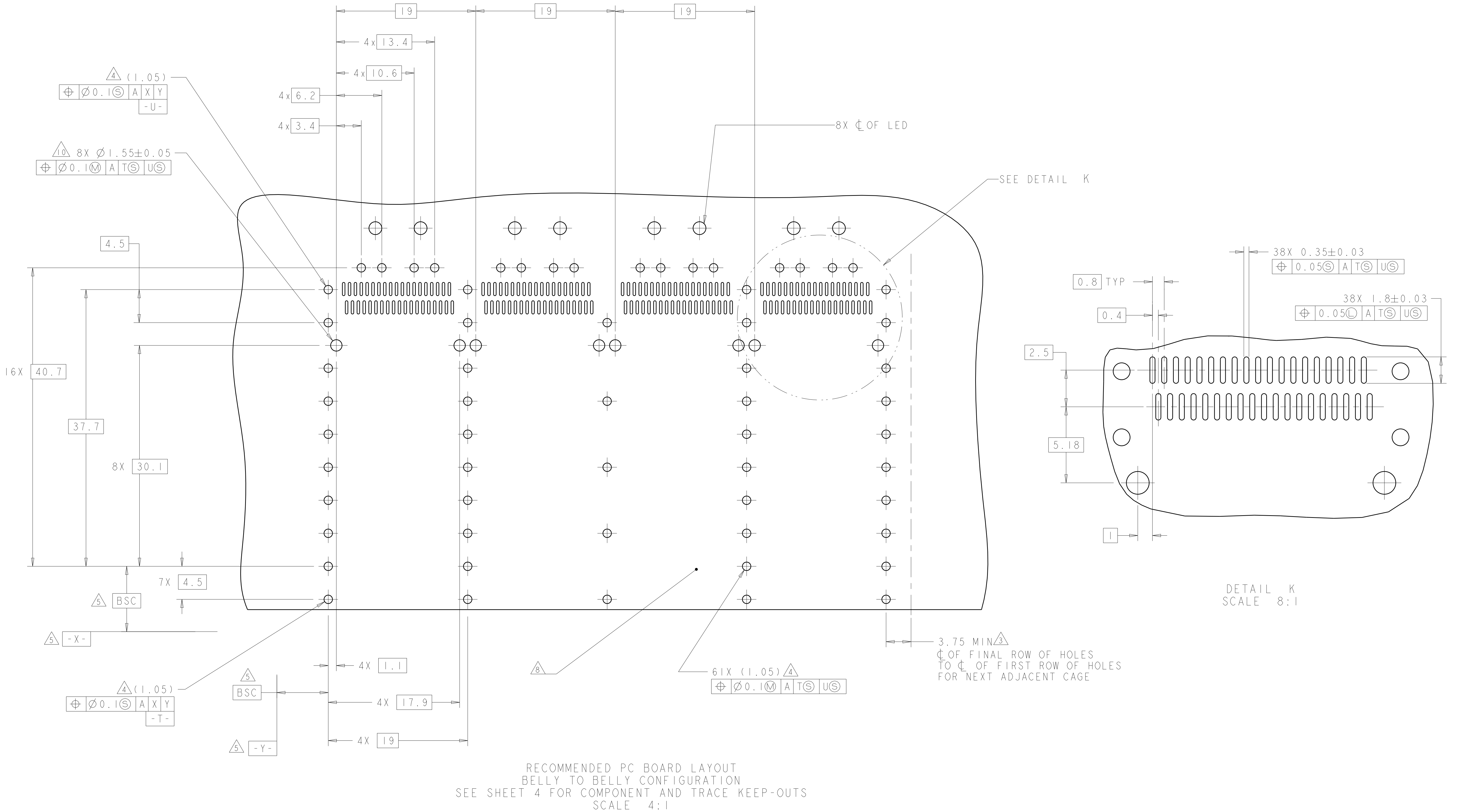
DETAIL J
3 PLACES
SCALE 8:1

— 3.75 MIN $\triangle_3$
 ⌀ OF FINAL ROW OF HOLES
 TO ⌀ OF FIRST ROW OF HOLES
 FOR NEXT ADJACENT CAGE

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN 29FEB2012 CHK DENNY ZHU 29FEB2012 APPV ALEX CAI 29FEB2012		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.01 1 PLC ±0.25 2 PLC ±.01 3 PLC ±.01 4 PLC ±.01		NAME 1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSPF	
		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13217		SIZE CAGE CODE DRAWING NO A100779 ©2170287	
MATERIAL FINISH - -		WEIGHT -		RESTRICTED TO -	
		CUSTOMER DRAWING		SCALE 1:1 SHEET 7 OF 8 REV A	

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



THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN KINSEN SUN 29FEB2012	TE Connectivity	
DIMENSIONS:		CHK DENNY ZHU 29FEB2012		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD ALEY CAI 29FEB2012	NAME 1X4 CAGE ASSEMBLY, THRU BEZEL, W/ELASTOMERIC GASKET AND HEAT SINKS, QSFP	
	0 PLC ±	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO	
	1 PLC ±0.35	108-2286	A100779C=2170287	
	2 PLC ±0.25	APPLICATION SPEC	RESTRICTED TO	
	3 PLC ±	114-13217	-	
MATERIAL	FINISH	WEIGHT	CUSTOMER DRAWING	
-	-	-	SCALE 1:1 SHEET 8 OF 8 REV A	