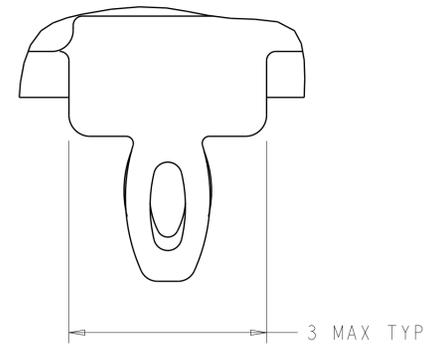


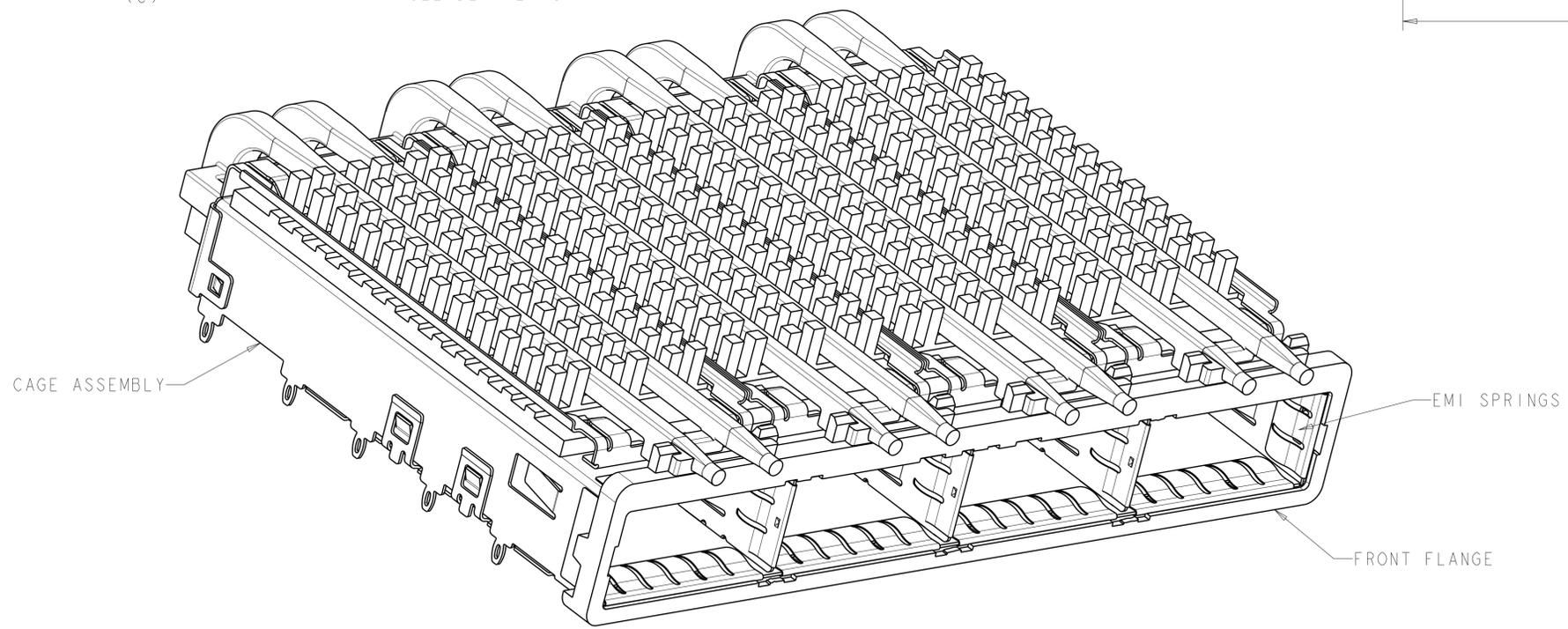
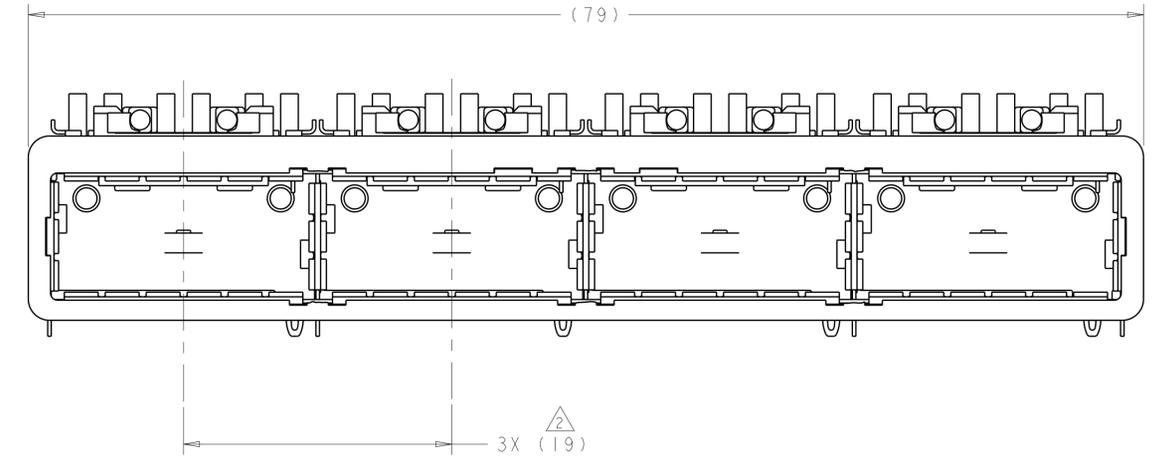
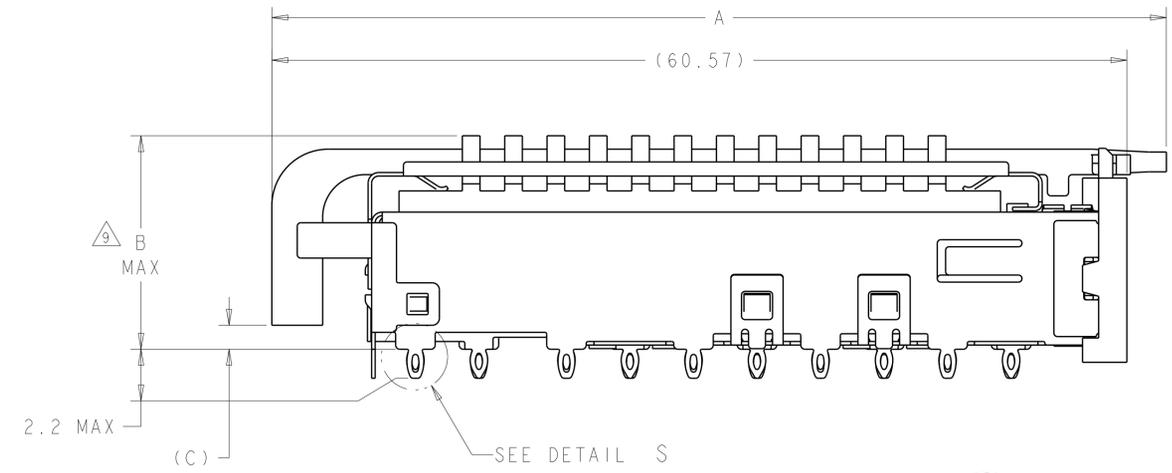
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		P	LTN	DESCRIPTION	DATE	DWN	APVD
GP	00	A		ACTIVE THE DRAWING	03JAN2014	ZJ	JY
		B		REVISE PER ECO-15-000289	8JAN2015	RG	MC



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
 FRONT FLANGE MATERIAL: ZINC ALLOY
 LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
- 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 114-13218 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 = 2.2mm PER QSFP.
- 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 114-13218 FOR GASKET THICKNESS CALCULATION.
- 16 EMI SPRING FINISH: 2µm MINIMUM TIN
 FRONT FLANGE FINISH: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL OVER 5.08µm MINIMUM COPPER.
 HEAT SINK FINISH: BLACK ANODIZE PROCESS



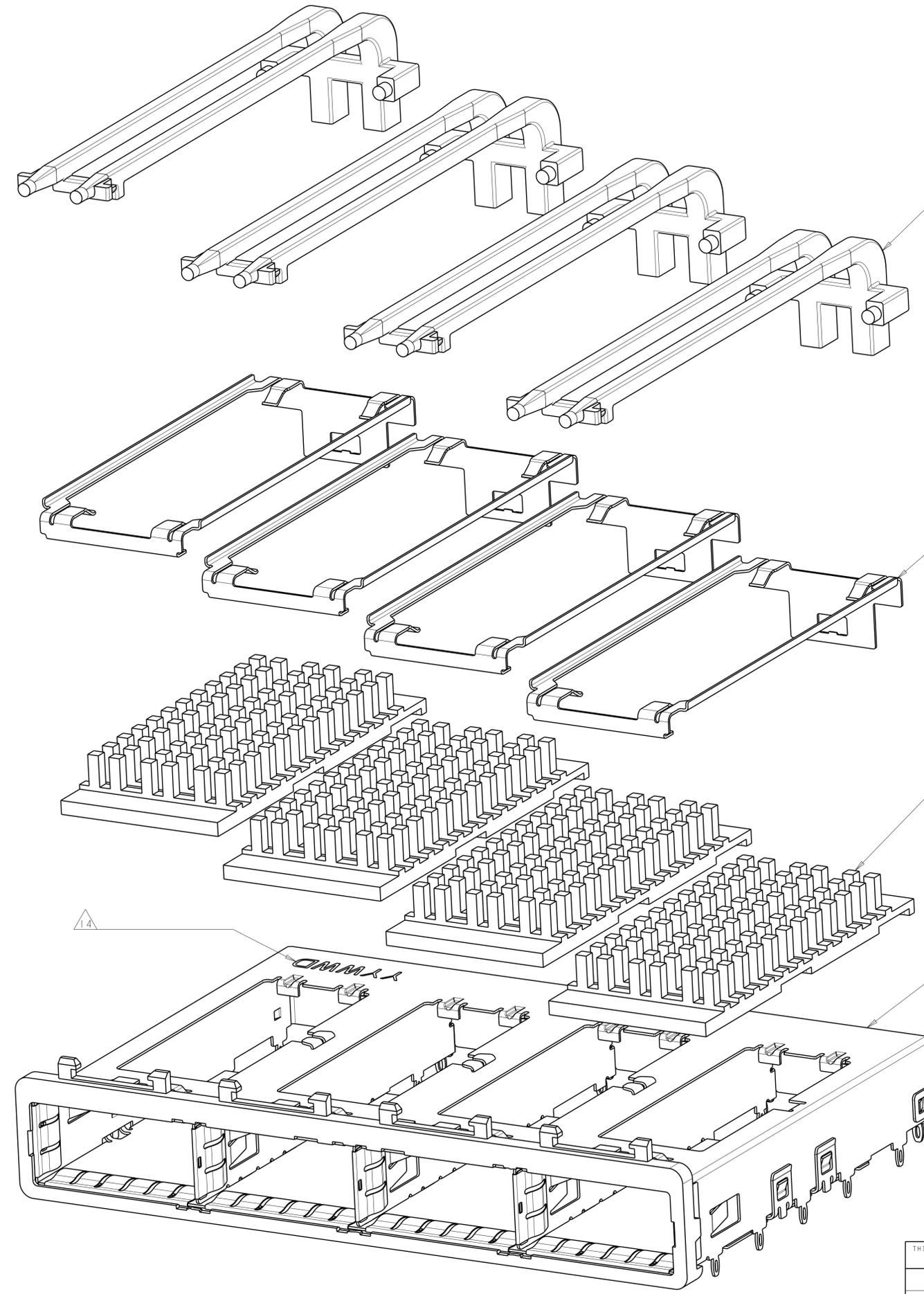
62.15	16.8	CUSTOMIZED	2170567-5
64.07	23.0	NETWORKING	2170567-4
64.07	16.0	SAN	2170567-3
64.07	16.8	CUSTOMIZED	2170567-2
64.07	13.7	PCI	2170567-1
A	B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN: ZJ 01JUL2013	CHK: JASON 01JUL2013	APVD: AC 01JUL2013
mm	0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ± ANGLES ±	PRODUCT SPEC: 108-2286	APPLICATION SPEC: 114-13218	WEIGHT: -
MATERIAL:	FINISH:	SIZE: A1	CAGE CODE: -	DRAWING NO: C=2170567
		Customer Drawing	SCALE: 4:1	SHEET 1 OF 5

TE Connectivity
 NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
 RESTRICTED TO: -
 REV: B

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



DOUBLE LIGHT PIPES \triangle
 QUANTITY: 4

HEAT SINK CLIPS \triangle
 QUANTITY: 4

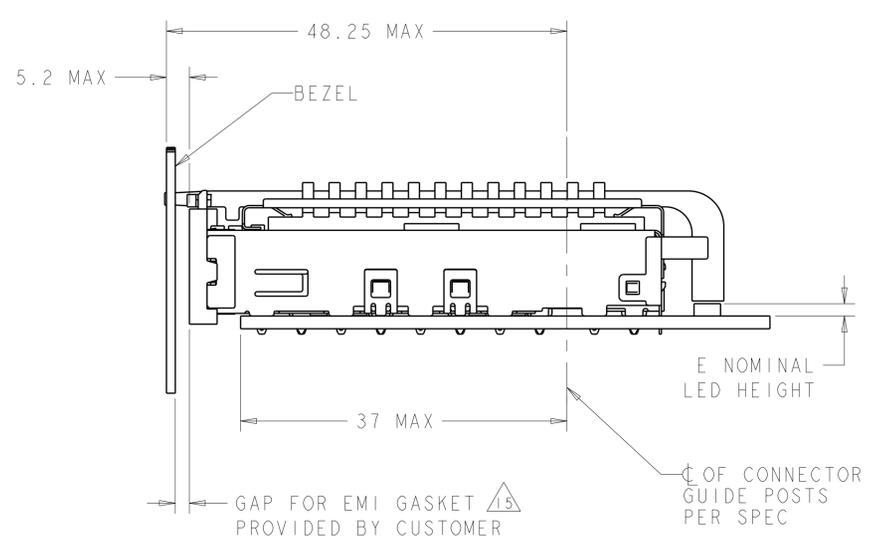
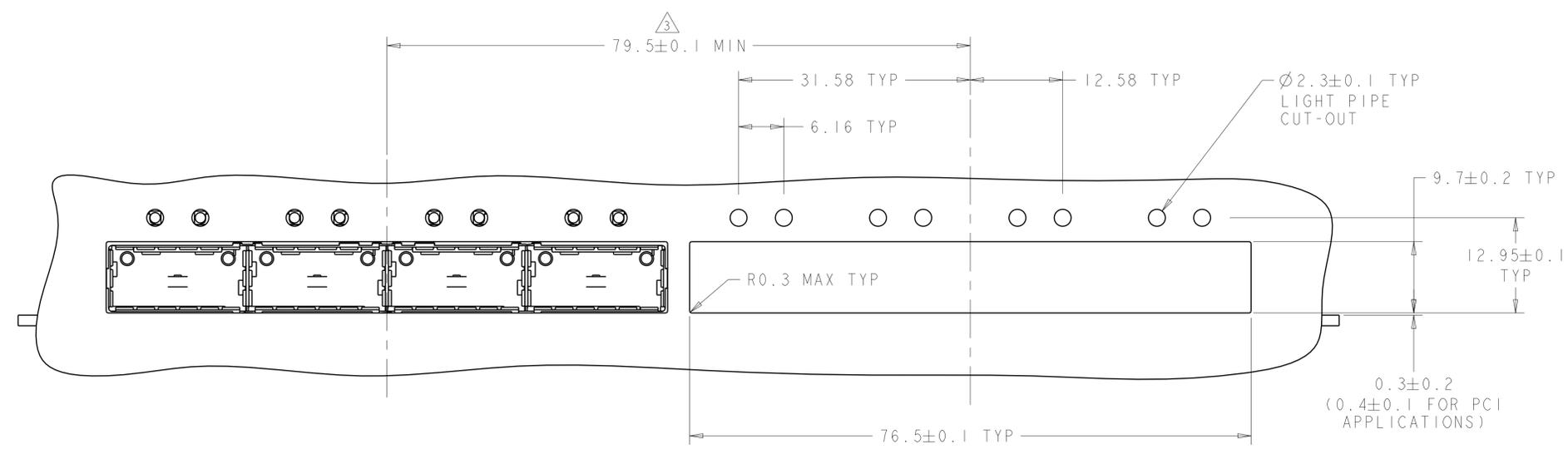
72 PIN HEAT SINKS \triangle
 QUANTITY: 4

1X4 BEHIND BEZEL QSPF
 CAGE ASSEMBLY
 QUANTITY: 1

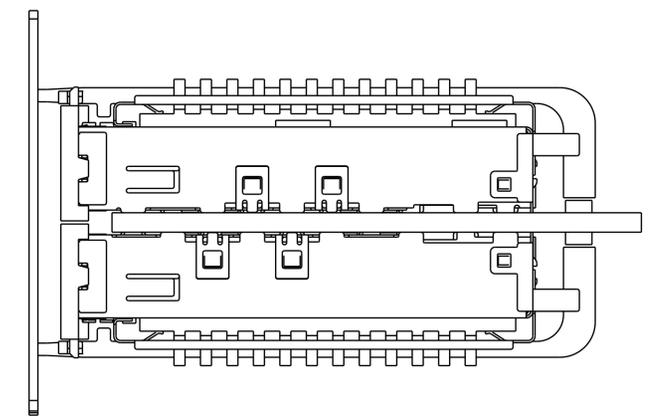
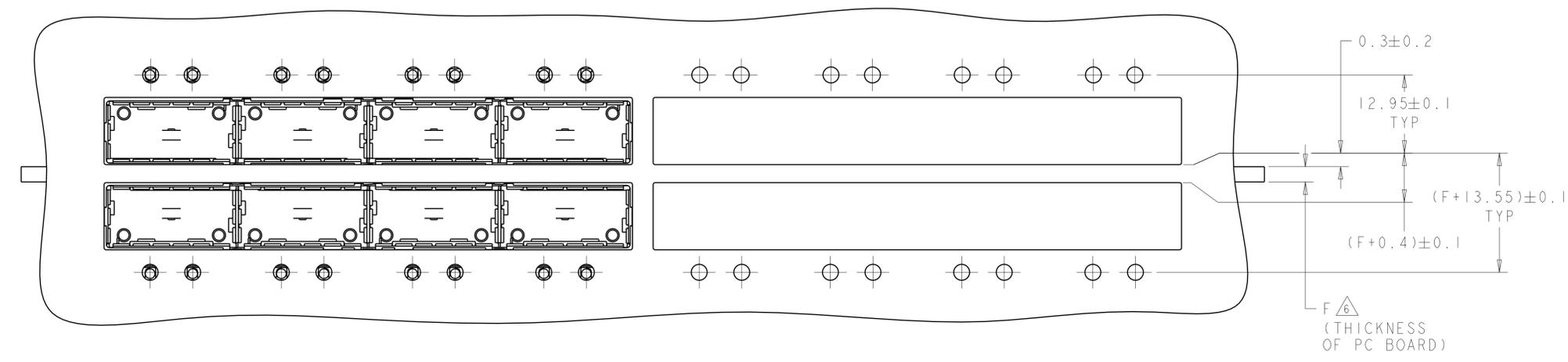
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	01JUN2013	STE TE Connectivity
DIMENSIONS:		CHK	01JUL2013	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD	JASON	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSPF
	0 PLC \pm	AC	01JUL2013	
	1 PLC ± 0.1	PRODUCT SPEC		SIZE
	2 PLC ± 0.1	108-2286		A1
	3 PLC \pm	APPLICATION SPEC		CAGE CODE
	4 PLC \pm	114-13218		2170567
	ANGLES \pm	WEIGHT		DRAWING NO
	FINISH			Customer Drawing
MATERIAL				RESTRICTED TO
				SCALE
				4:1
				SHEET
				2
				OF
				5
				REV
				B

LOC	DIST	REV	DATE	BY	APPD
GP	00				

REVISIONS			
REV	DATE	BY	APPD
-	-	-	-
-	-	-	-



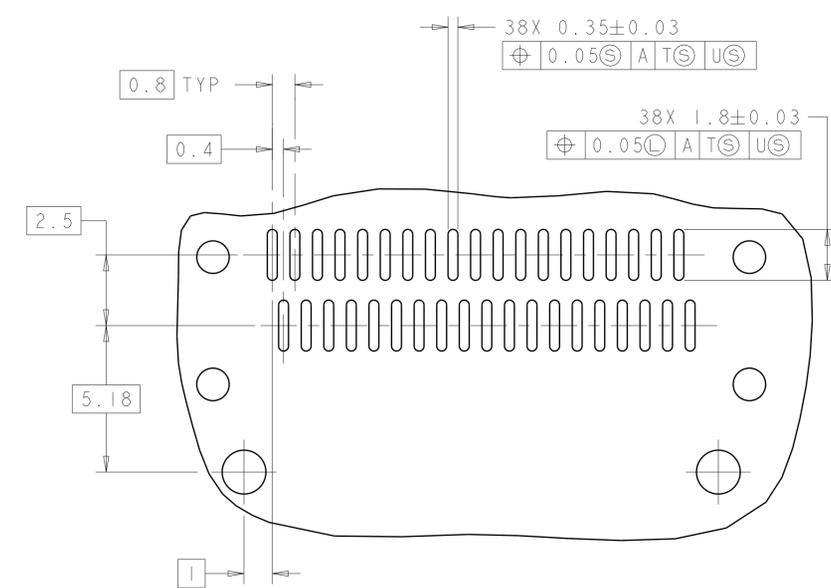
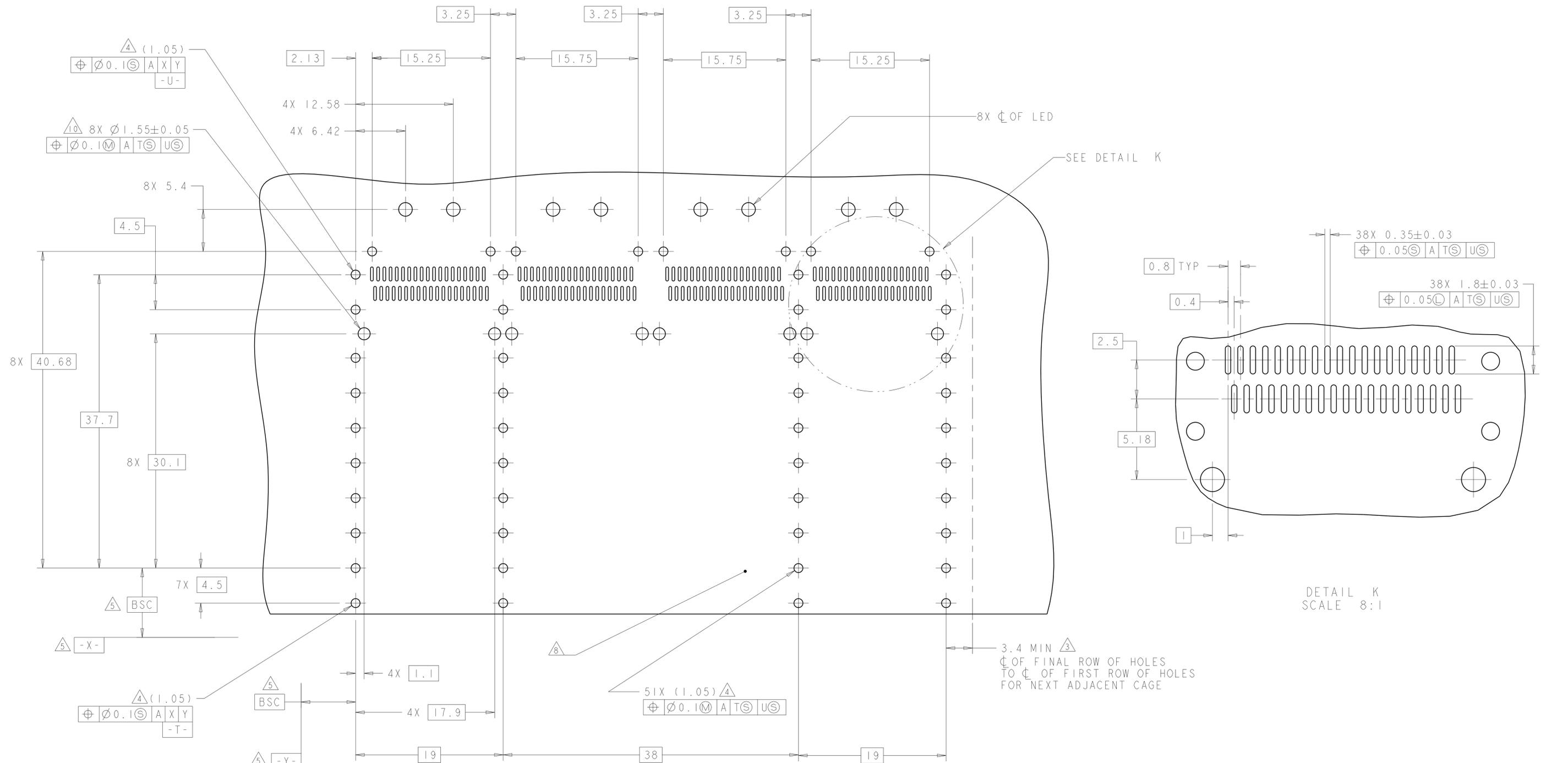
ONE SIDED CONFIGURATION
 SCALE 5:2



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: 01JUL2013	TE Connectivity
DIMENSIONS: mm		CHK: JASON 01JUL2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD: AC 01JUL2013	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
0 PLC ±	1 PLC ±0.1	PRODUCT SPEC	SIZE: A1
2 PLC ±0.1	3 PLC ±	108-2286	CAGE CODE: -
4 PLC ±	ANGLES ±	APPLICATION SPEC	DRAWING NO: C=2170567
MATERIAL: -	FINISH: -	114-13218	RESTRICTED TO: -
Customer Drawing		WEIGHT: -	SCALE: 4:1
			SHEET 3 OF 5
			REV B

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



DETAIL K
SCALE 8:1

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN: 01 JUL 2013	STE TE Connectivity
DIMENSIONS: mm		CHK: JASON 01 JUL 2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: AC 01 JUL 2013	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP
0 PLC ±0.1		PRODUCT SPEC: 108-2286	
2 PLC ±0.1		APPLICATION SPEC: 114-13218	
4 PLC ±0.1		WEIGHT: -	
ANGLES ±0.1		SIZE: A1	RESTRICTED TO: -
FINISH: -		CAGE CODE: -	DRAWING NO: C=2170567
MATERIAL: -		Customer Drawing	SCALE: 4:1 SHEET 5 OF 5 REV B