

LOC	DIST	REVISIONS						
-	-	P	LTR	DESCRIPTION	DATE	DWN	APVD	
			5	REVISED	15JAN2014	BL	JY	
			6	REVISED	27MAY2014	BL	JY	
			7	ADD -4 PART NUMBER	27JAN2015	RG	MC	
			A	ADD -5 IN SHEET 6	7MAR2016	RG	SH	

- 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 PLATE MATERIAL: STAINLESS STEEL
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
- 2

PITCH BETWEEN PORTS OF ONE 1X3 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 CUSTOMER.
- 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

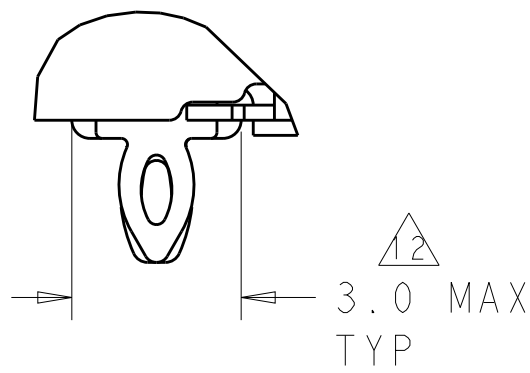
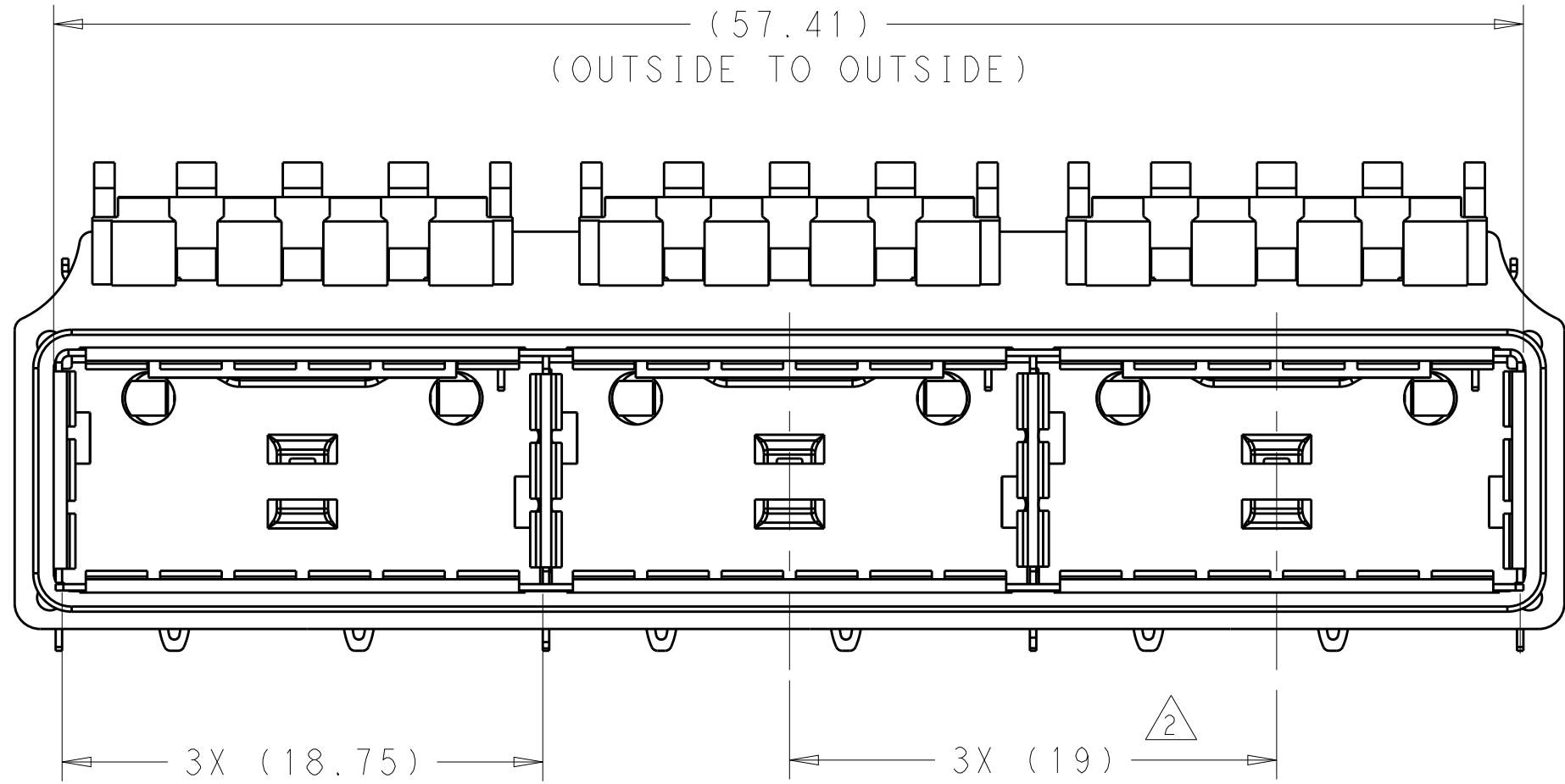
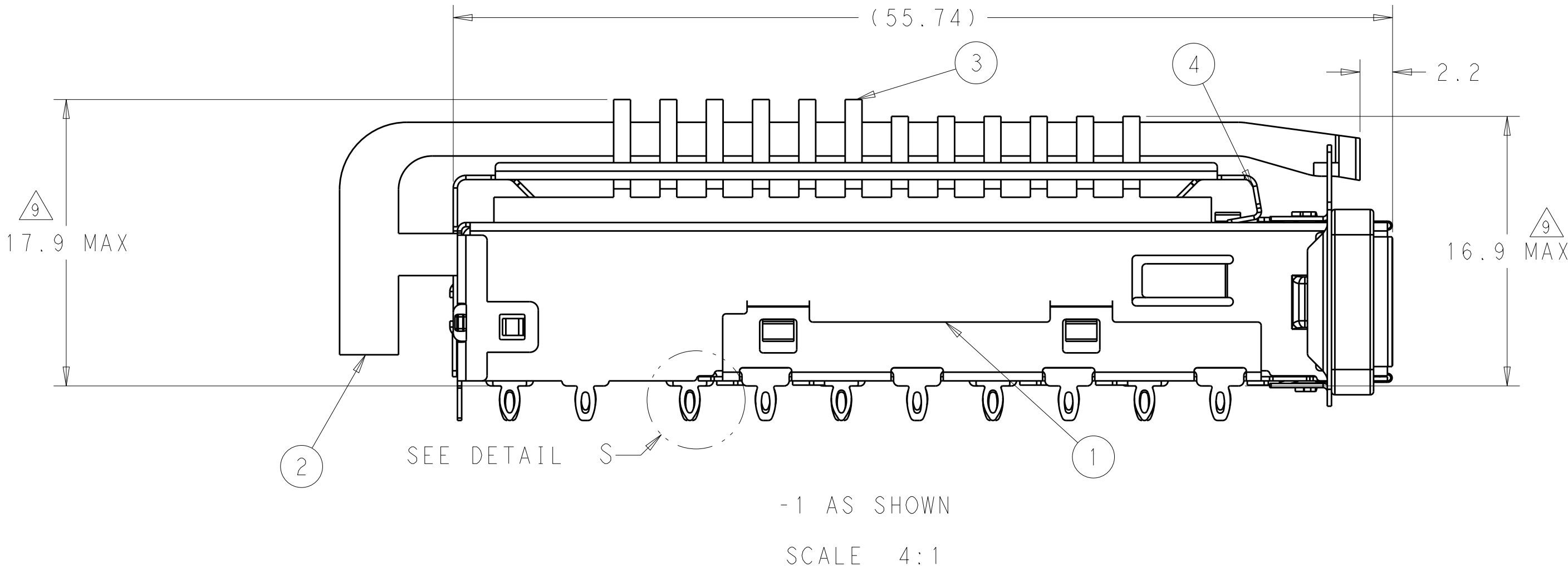
DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.

- 15

REFERENCE APP SPEC 114-13217 FOR GASKET THICKNESS CALCULATION.
- 16

EMI SPRING FINISH: 2um MINIMUM TIN
HEAT SINK FINISH: BLACK ANODIZED.
- 17

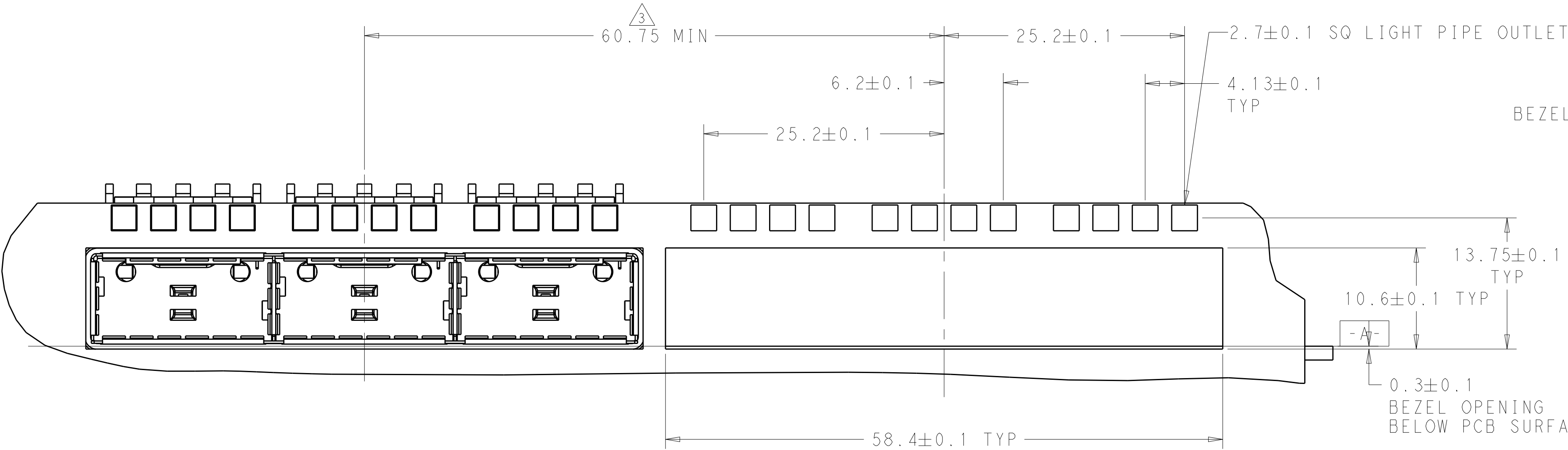
HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED. LIGHT PIPES, SHIPPED UNATTACHED, MUST BE ASSEMBLED BY CUSTOMER AFTER THE CAGE IS SEATED IN THE PCB.



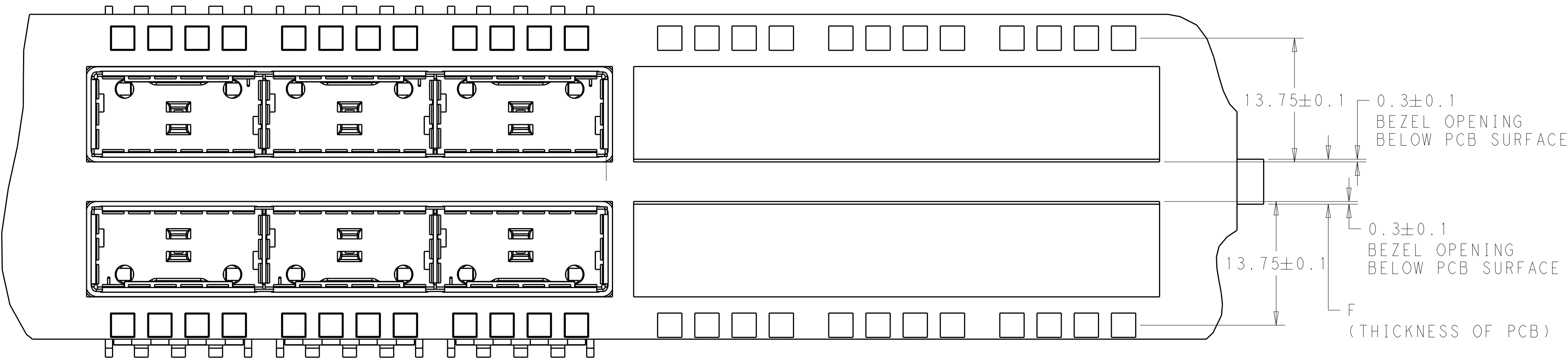
SOLID, SQUARE GASKET	WITHOUT LP	WITH HS	2170507-4
HOLLOW, ROUND GASKET	WITH LP	WITH HS	2170507-3
HOLLOW, ROUND GASKET	WITHOUT LP	WITHOUT HS	2170507-2
SOLID, SQUARE GASKET	WITH LP	WITH HS	2170507-1
GASKET	LIGHT PIPE	HEAT SINK	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 27MAR2013	TE Connectivity	
DIMENSIONS:		CHK ALEX CAI 27MAR2013		
mm		APVD ALEX CAI 27MAR2013	NAME 1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSFP	
		PRODUCT SPEC	SIZE CAGE CODE DRAWING NO	
		108-2286		
		APPLICATION SPEC	RESTRICTED TO	
		114-13217		
MATERIAL		WEIGHT	A100779C=2170507	
		-		
		CUSTOMER DRAWING	SCALE 1:1 SHEET 1 OF 6 REV A	

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

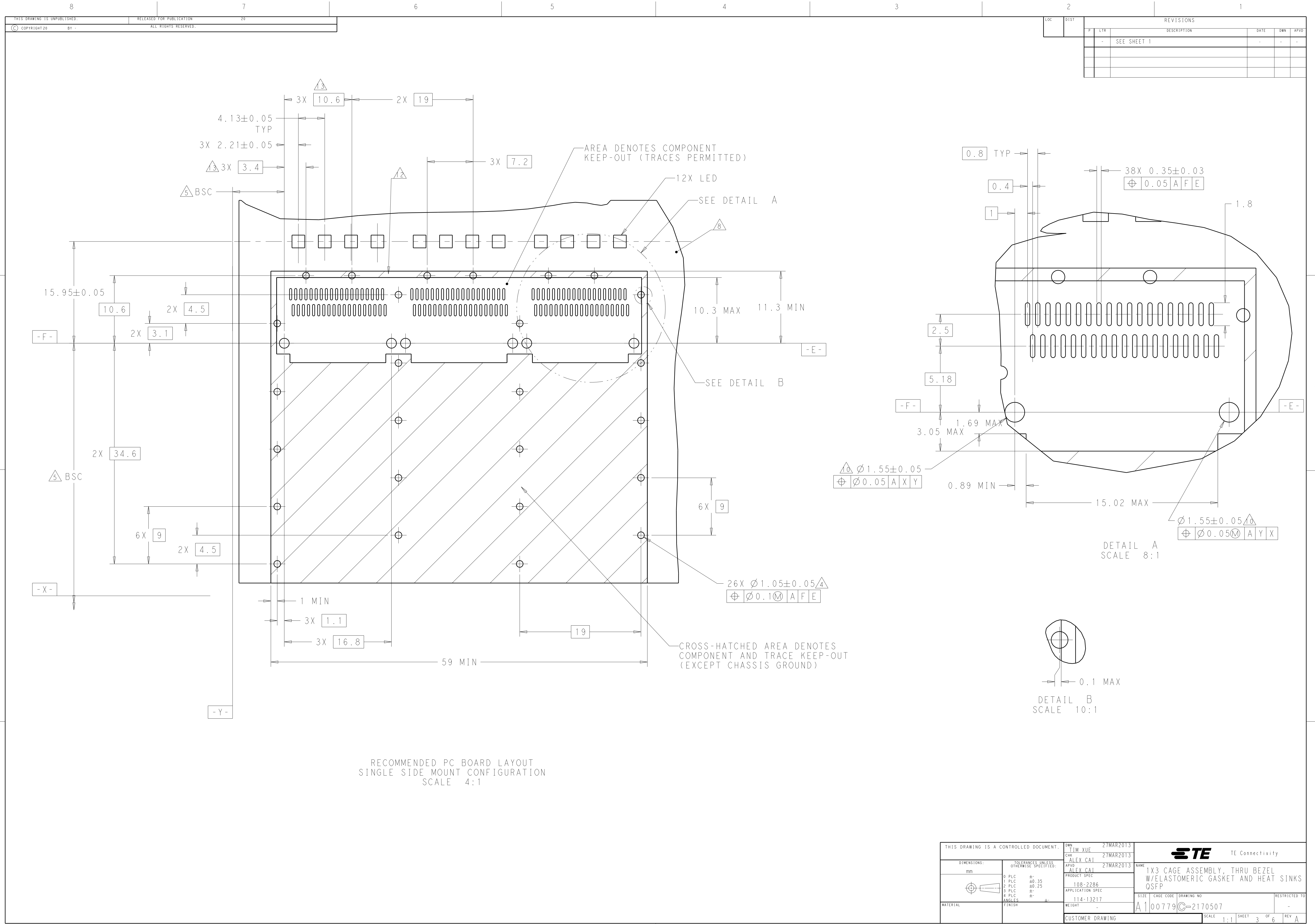


ONE SIDED CONFIGURATION
SCALE 3:1

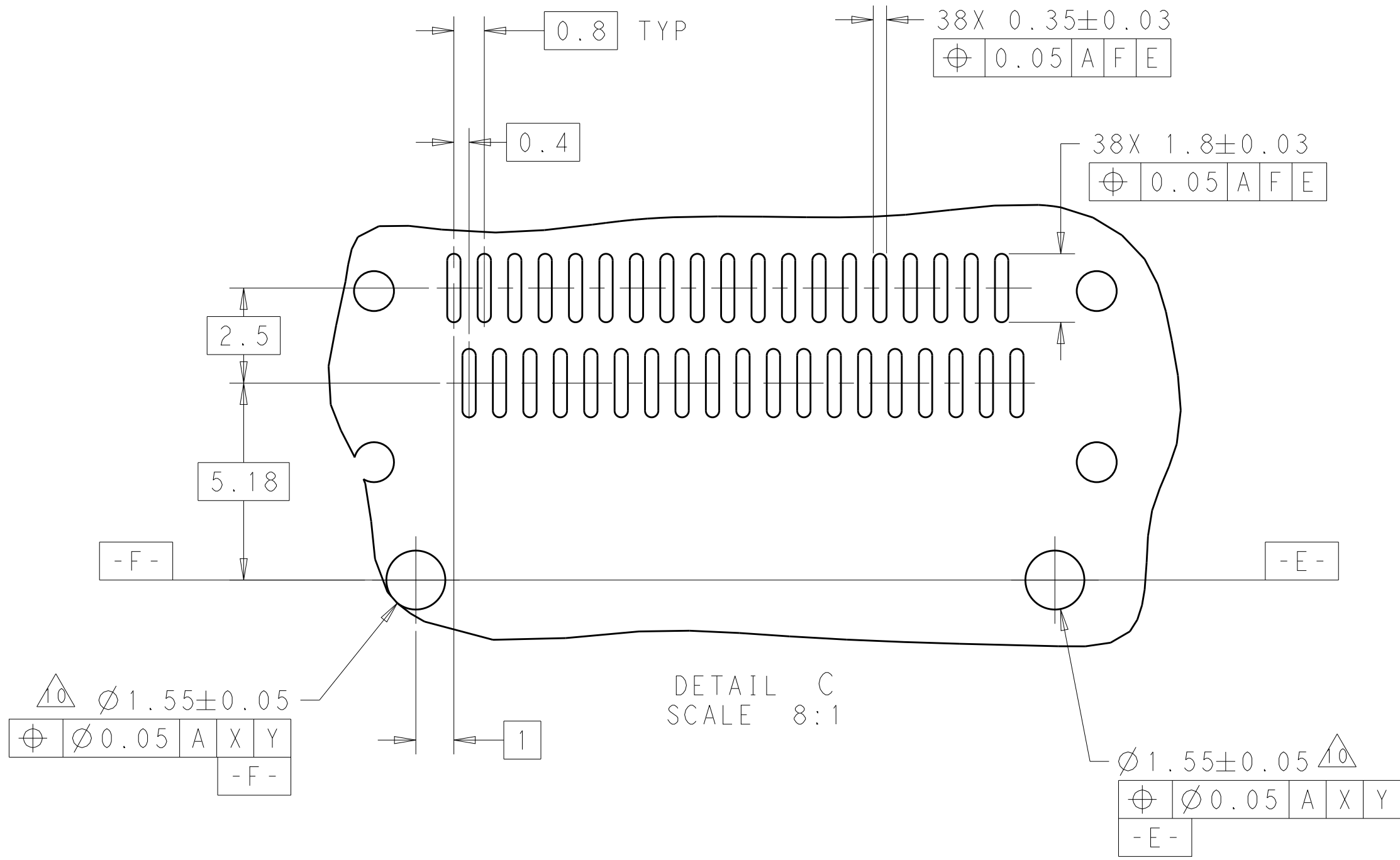
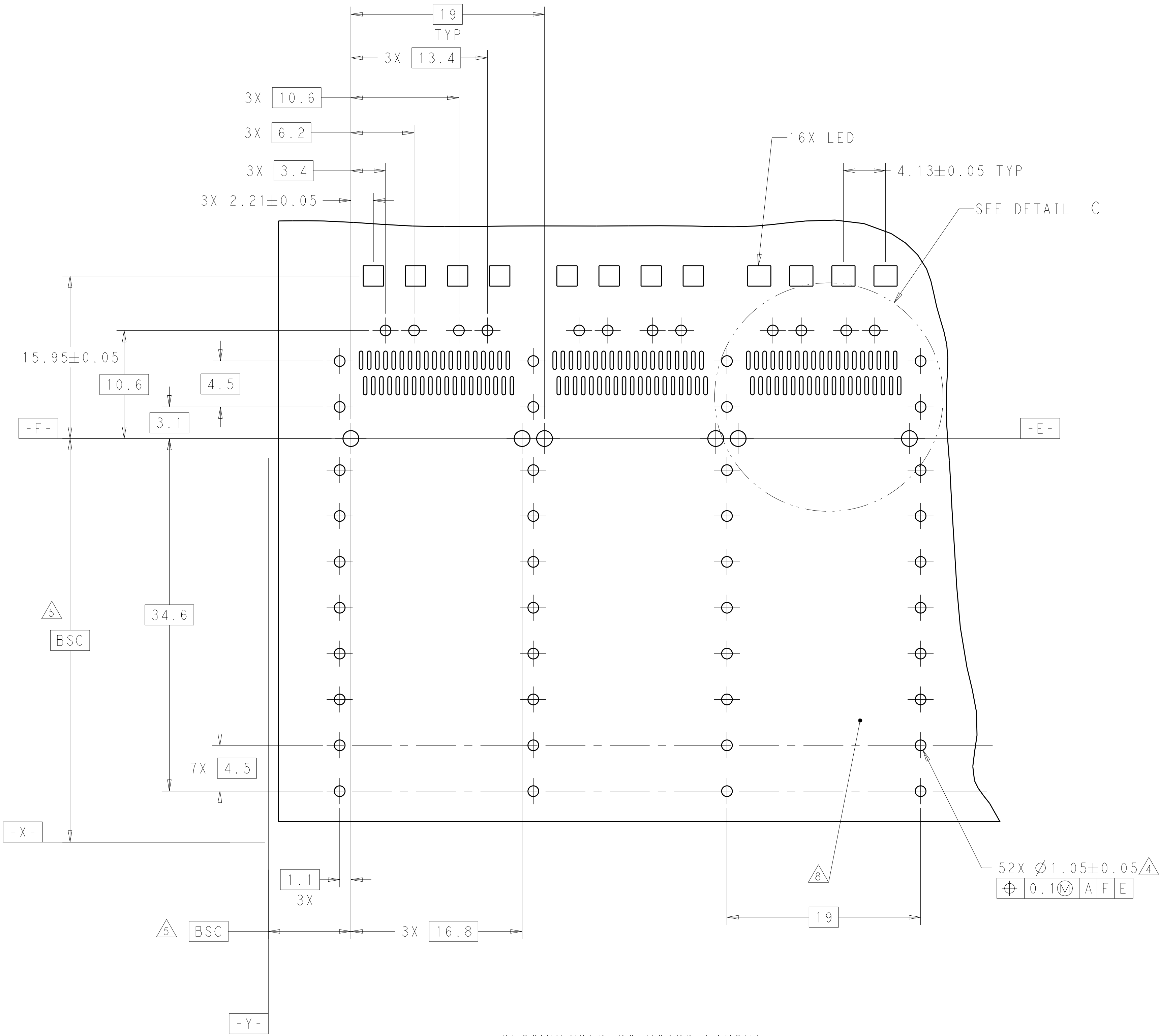


BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 27MAR2013	TE Connectivity	
DIMENSIONS:		CHK ALEX CAI 27MAR2013		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD ALEX CAI 27MAR2013	NAME 1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSPF	
	0 PLC ±.35	PRODUCT SPEC	SIZE A100779C=2170507	
	1 PLC ±0.25	APPLICATION SPEC		
MATERIAL	FINISH	WEIGHT	RESTRICTED TO	
CUSTOMER DRAWING		SCALE 1:1	SHEET 2 OF 6	REV A



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



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 3 FOR COMPONENT AND TRACE KEEP-OUTS
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN
TIM XUE
27MAR2013

CHK
ALEX CAI
27MAR2013

APVD
ALEX CAI
27MAR2013

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.35

1 PLC ±0.35

2 PLC ±0.25

3 PLC ±0.25

4 PLC ±0.25

ANGLES ±0.5

FINISH

PRODUCT SPEC

108-2286

APPLICATION SPEC

114-13217

WEIGHT

-

MATERIAL

CUSTOMER DRAWING

NAME

1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSPF

SIZE

CAGE CODE

DRAWING NO

A100779

©=2170507

RESTRICTED TO

-

SCALE

1:1

SHEET

4

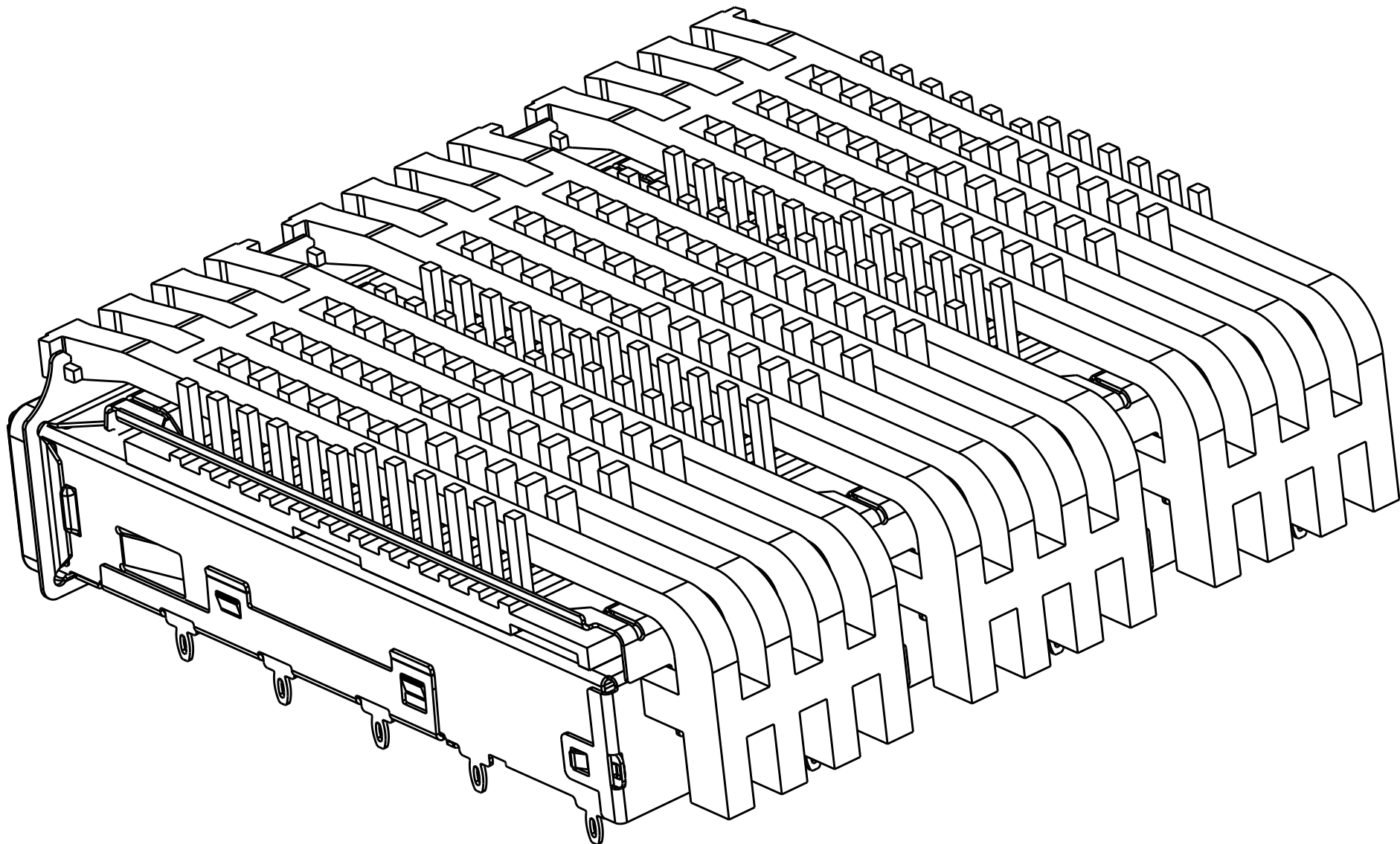
OF

6

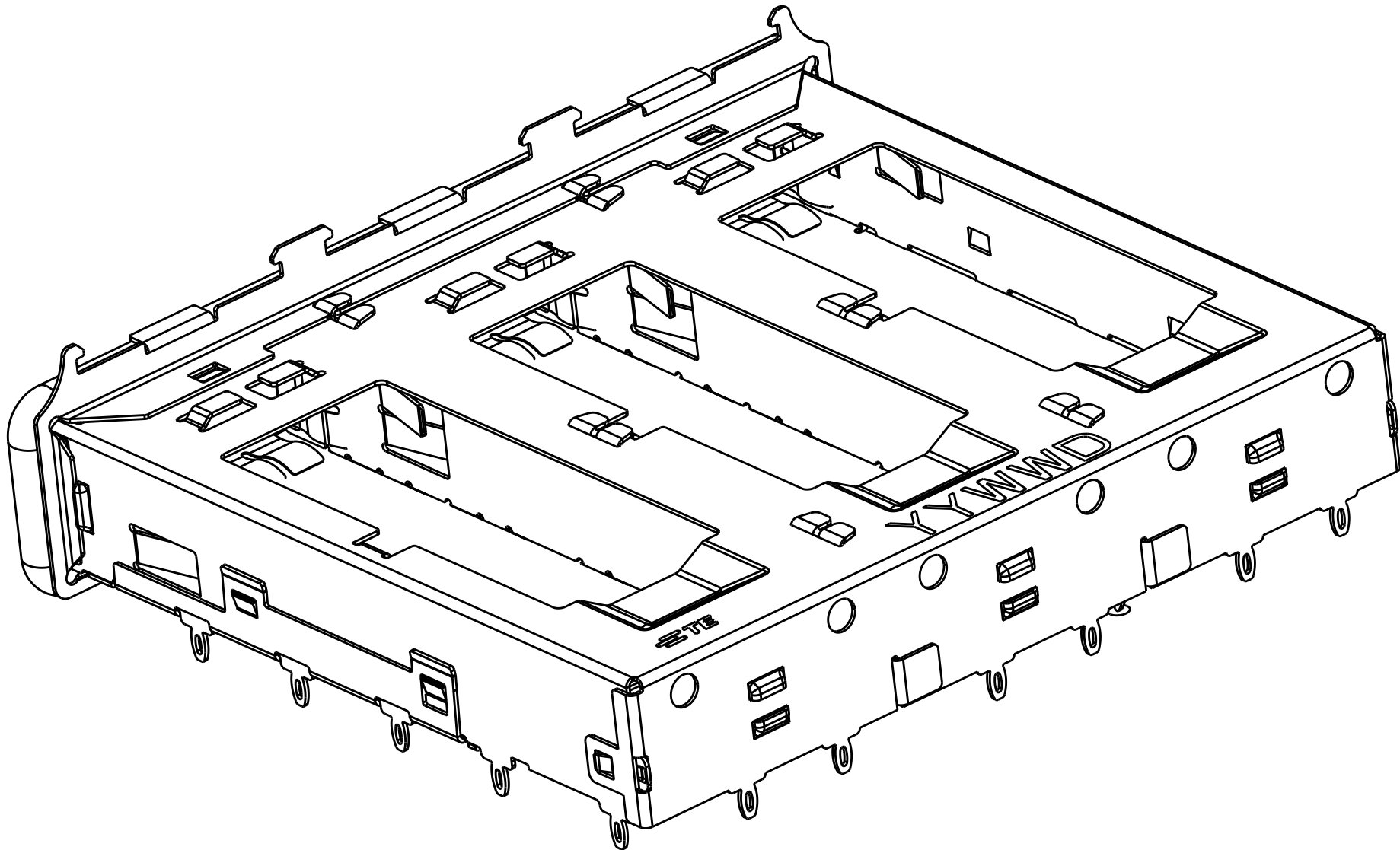
REV

A

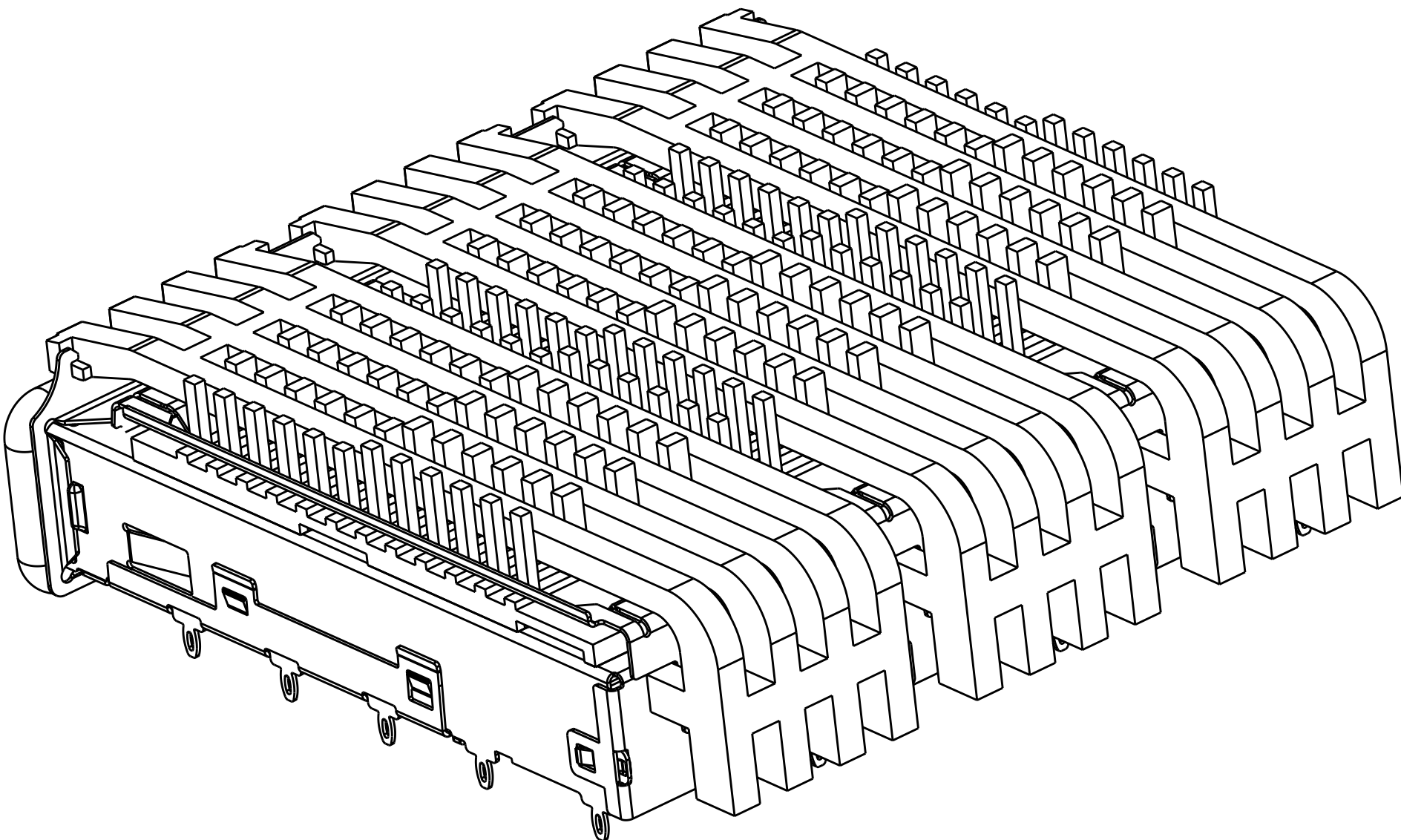
LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
-	-	SEE SHEET 1		-	-	-	



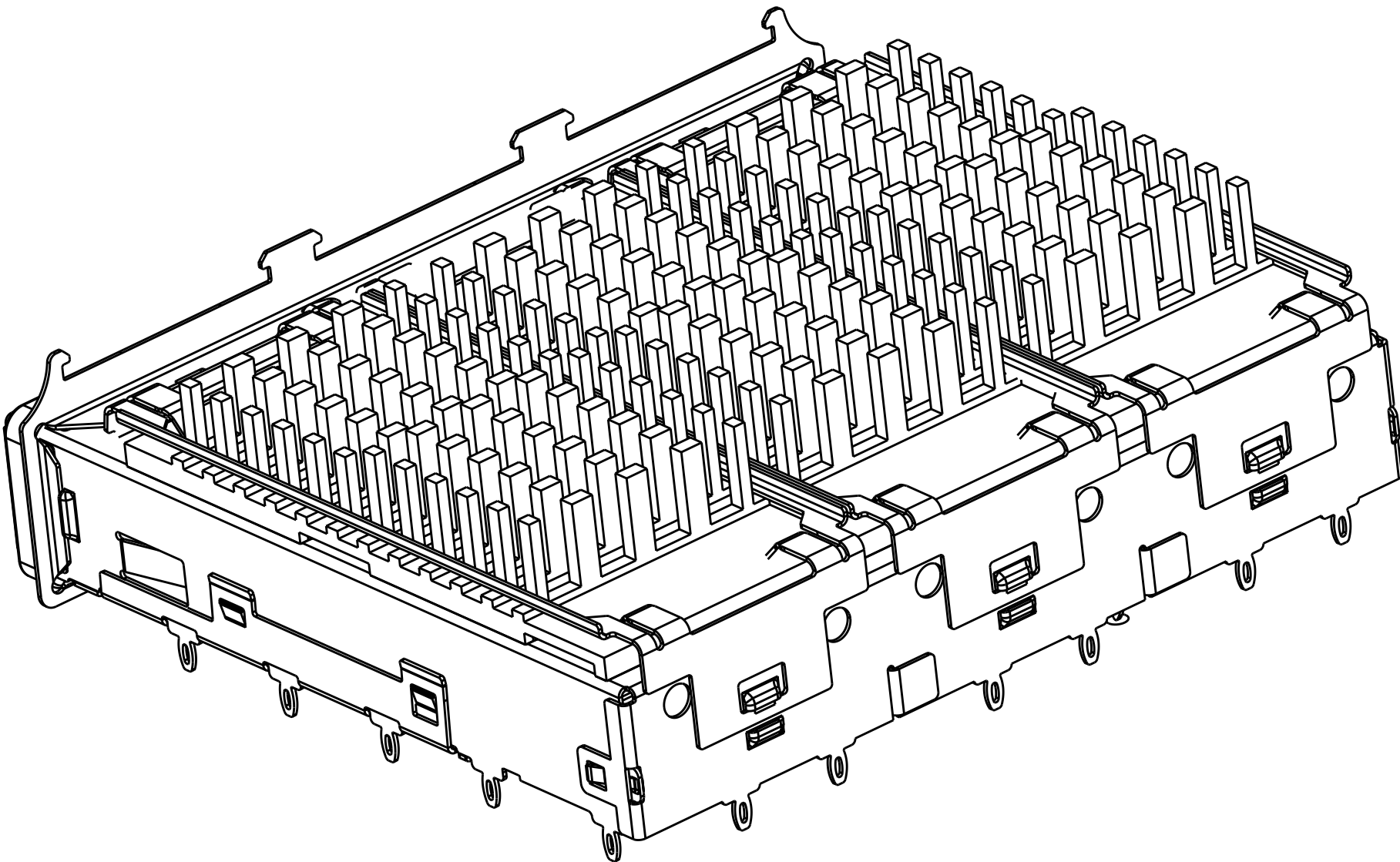
2170507-1 AS SHOWN
SCALE 3:1



2170507-2 AS SHOWN
SCALE 3:1



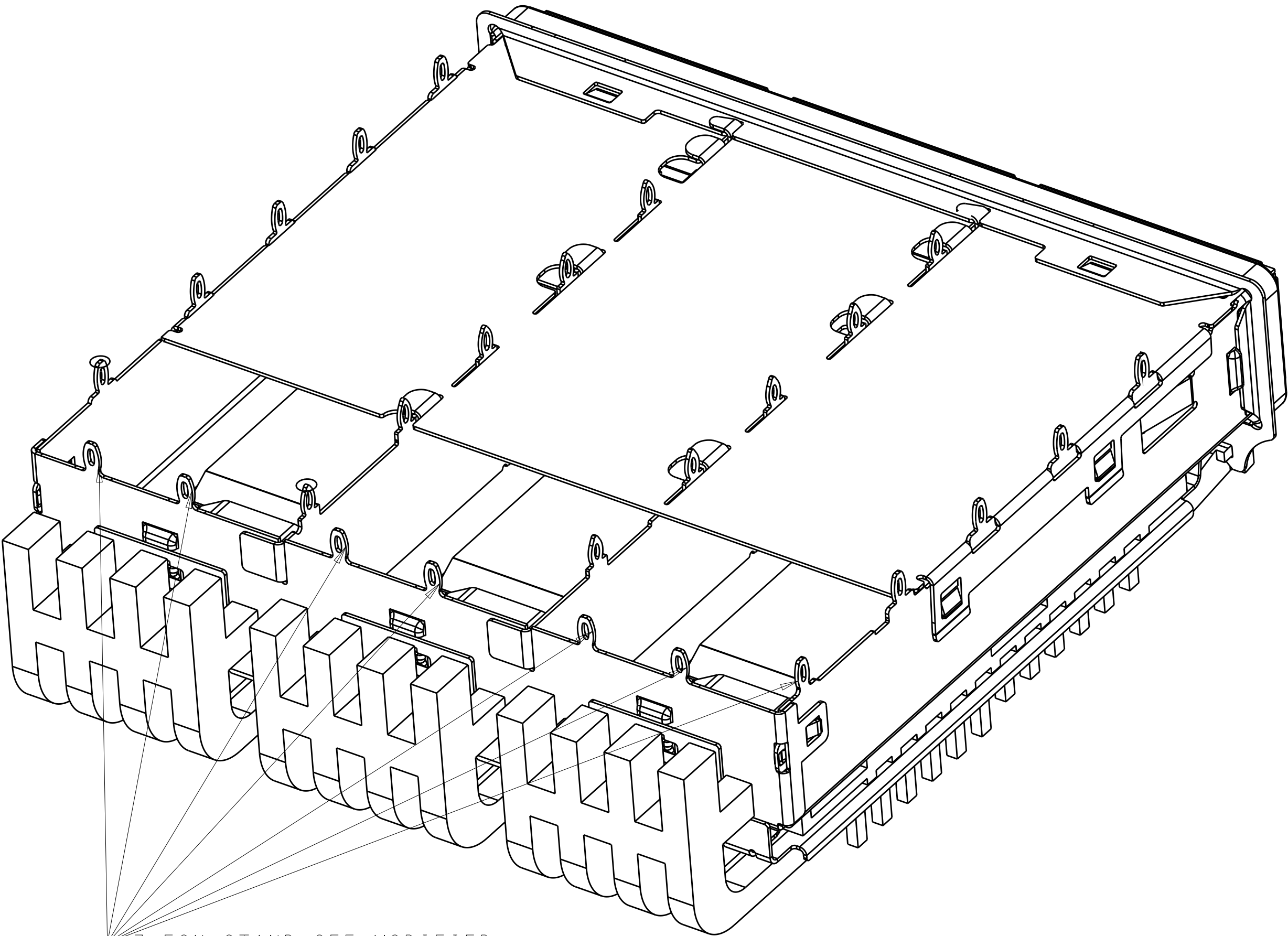
2170507-3 AS SHOWN
SCALE 3:1



2170507-4 AS SHOWN
SCALE 3:1

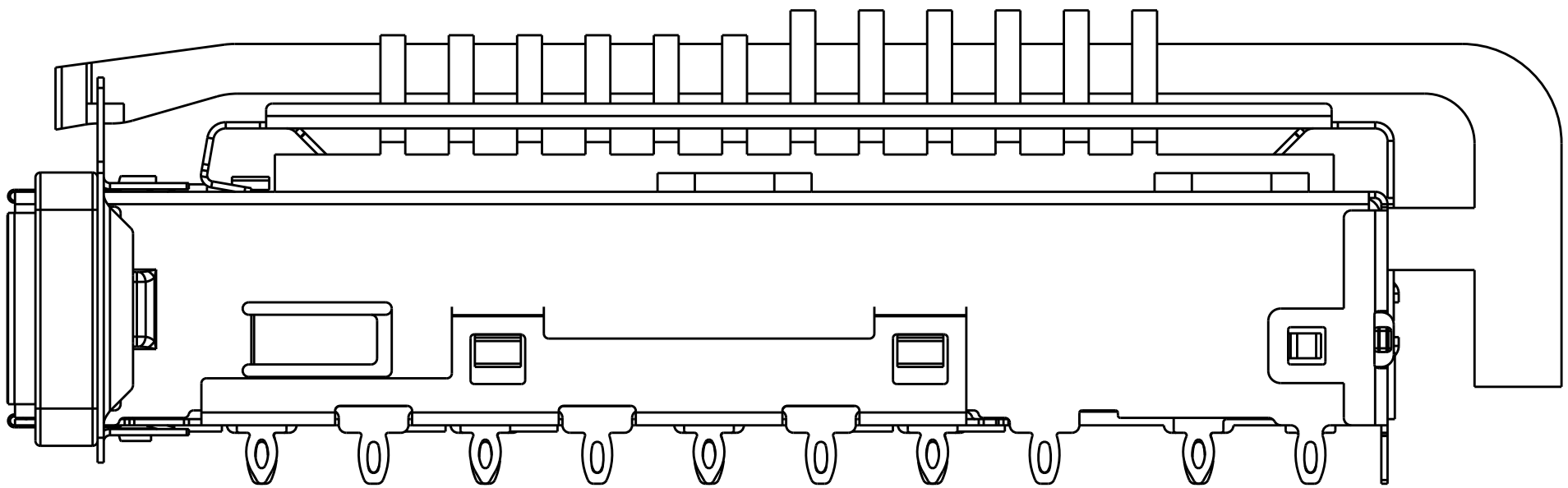
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	27MAR2013	TE Connectivity		
		CHKD	ALEX CAI	27MAR2013			
		APVD	ALEX CAI	27MAR2013	NAME	1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSFP	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	SIZE	CAGE CODE	DRAWING NO
mm		0 PLC ±.1		108-2286	A1	00779	C=2170507
		1 PLC ±0.35		APPLICATION SPEC	RESTRICTED TO		
		2 PLC ±0.25		114-13217			
		3 PLC ±.1		WEIGHT			
		4 PLC ±.1		CUSTOMER DRAWING			
		ANGLES ±.1		SCALE	1:1	SHEET	5 OF 6
		FINISH		REV	A		

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

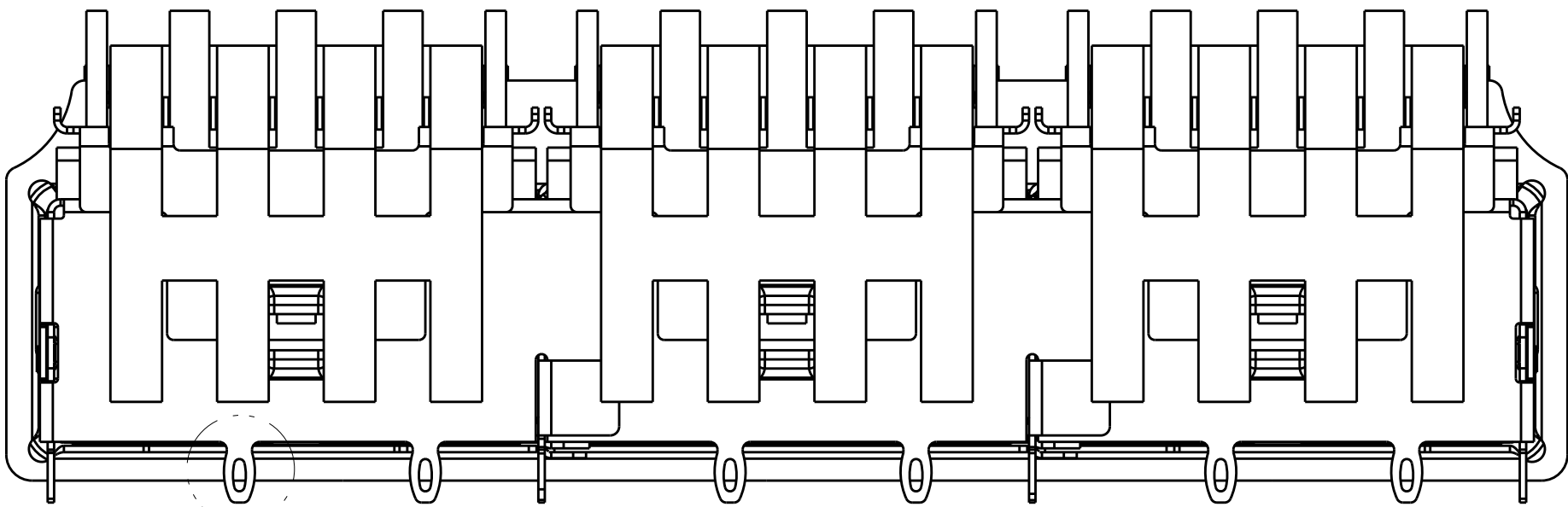


7 EON STAND OFF MODIFIED
AS DETAIL D

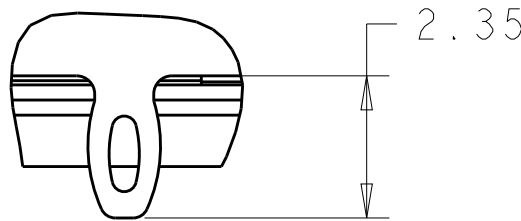
SCALE 4:1



SCALE 4:1




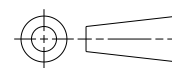
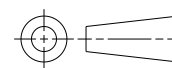
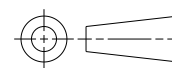
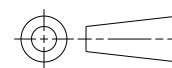
SEE DETAIL D



DETAIL D
SCALE 8:1

EXCEPT 7 EON STAND OFF MODIFICATION
THE OTHER FEATURES ARE SAME WITH 2170507-1

SOLID,SQUARE GASKET	WITH LP	WITH HS	2170507-5
GASKET	LIGHT PIPE	HEAT SINK	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 27MAR2013	 TE Connectivity				
DIMENSIONS:		CHK ALEX CAI 27MAR2013					
mm		TOLERANCES UNLESS OTHERWISE SPECIFIED		NAME			
		APPRO ALEX CAI 27MAR2013		1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSPF			
		PRODUCT SPEC		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
		108-2286					
		APPLICATION SPEC		A1	00779	C=2170507	-
		114-13217					
MATERIAL		WEIGHT		CUSTOMER DRAWING			
		FINISH		SCALE 1:1 SHEET 6 OF 6 REV A			