

- 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.

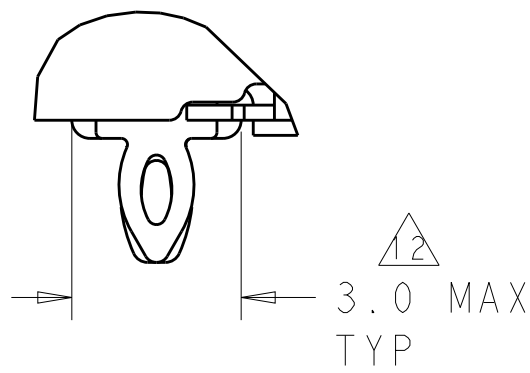
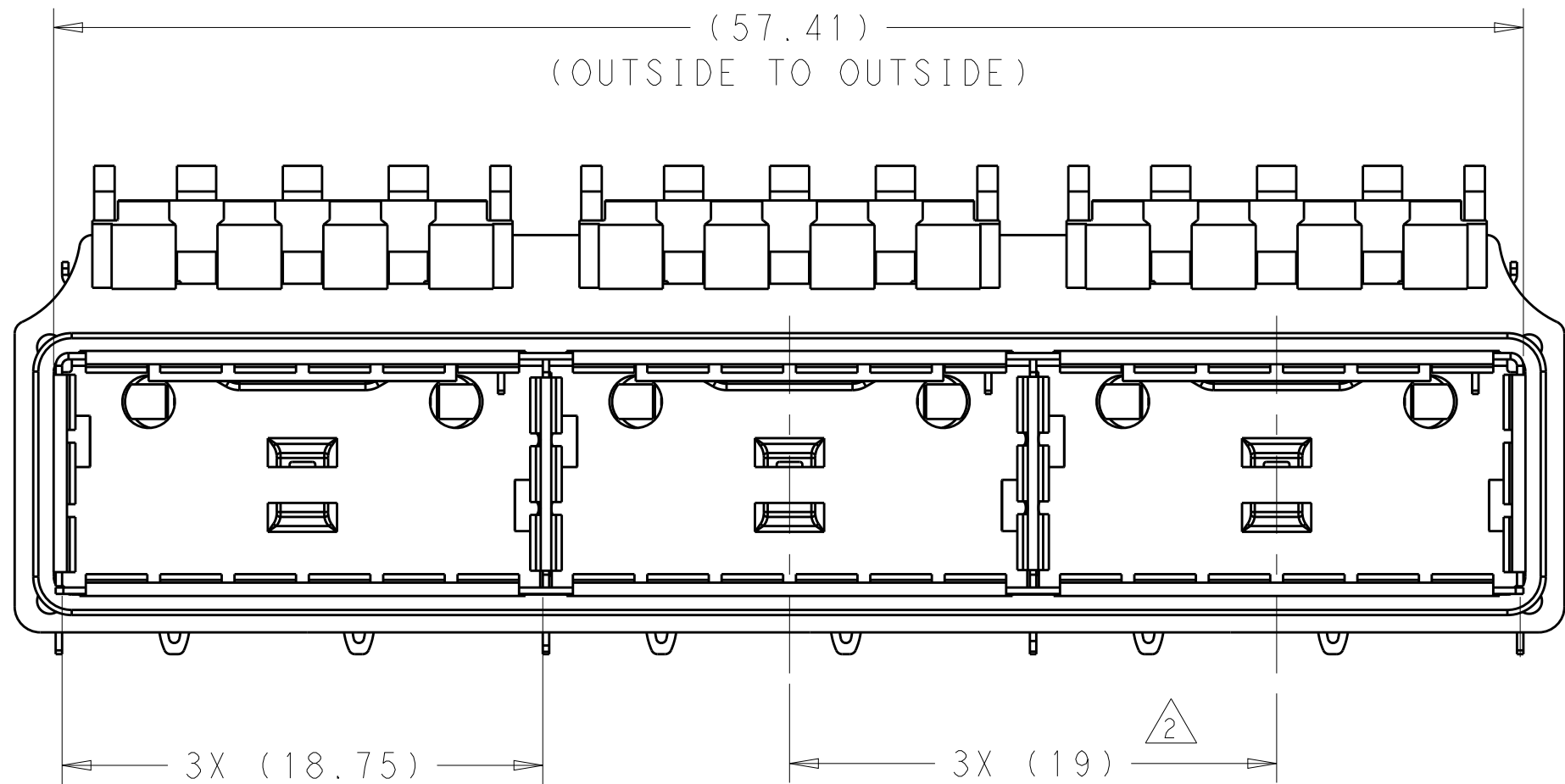
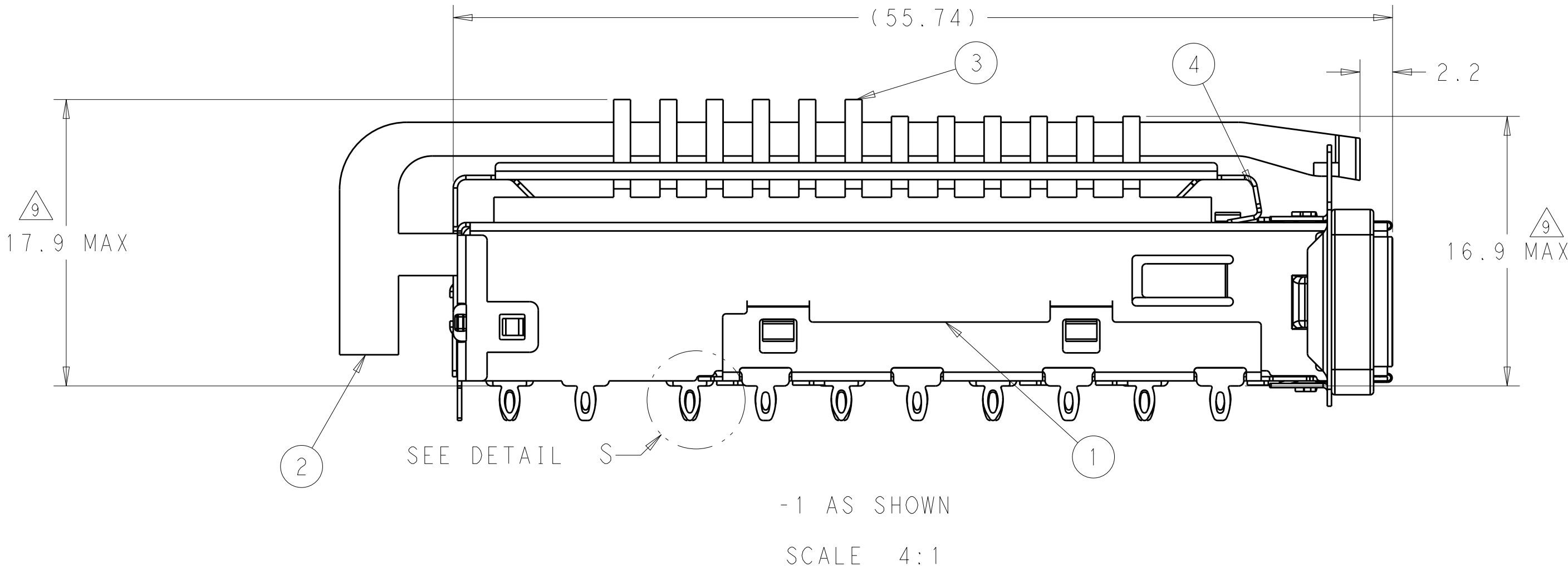
- 15

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.

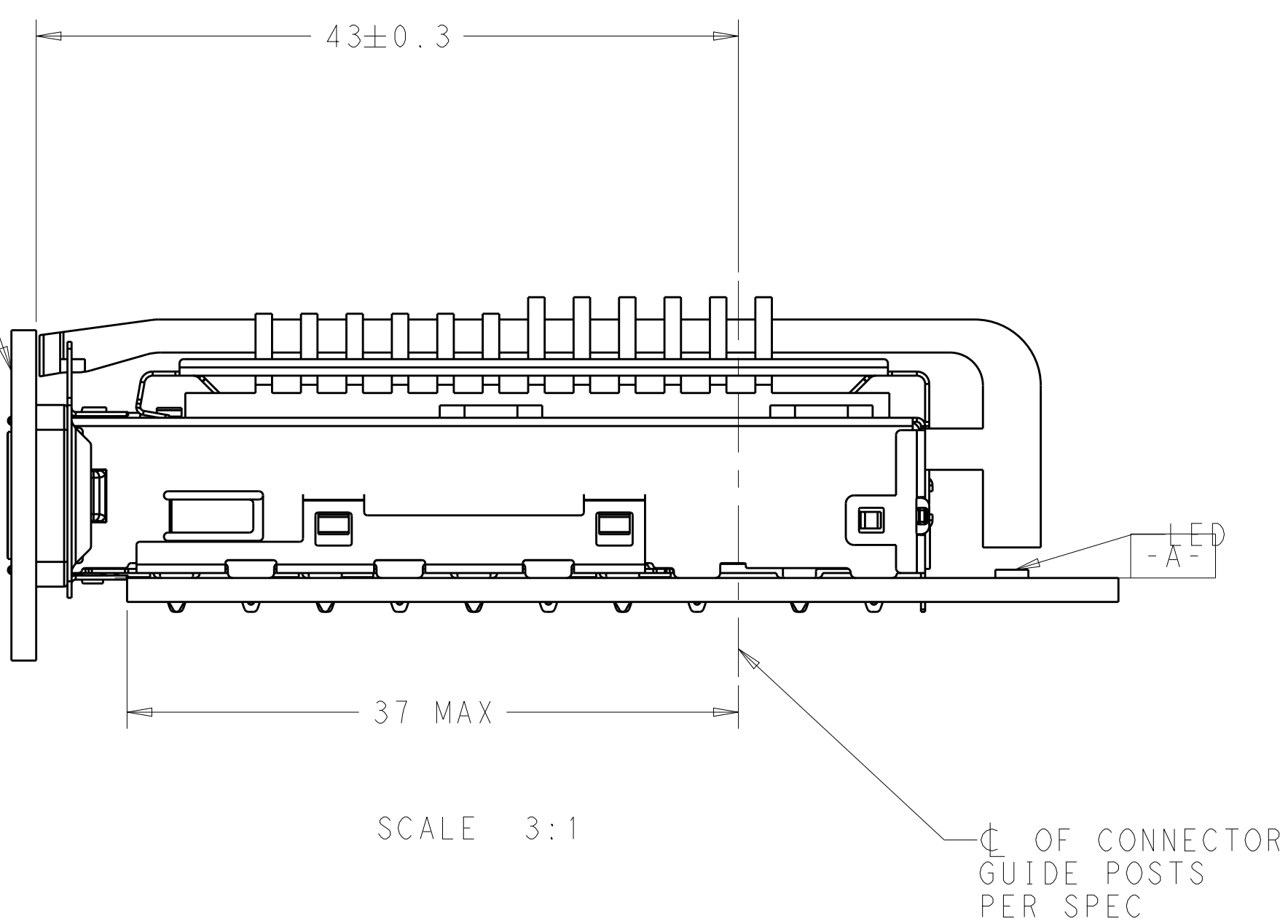
LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
-	-	5		REVISED	15JAN2014	BL
		6		REVISED	27MAY2014	BL
		7		ADD -4 PART NUMBER	27JAN2015	RG
		A		ADD -5 IN SHEET 6	7MAR2016	RG



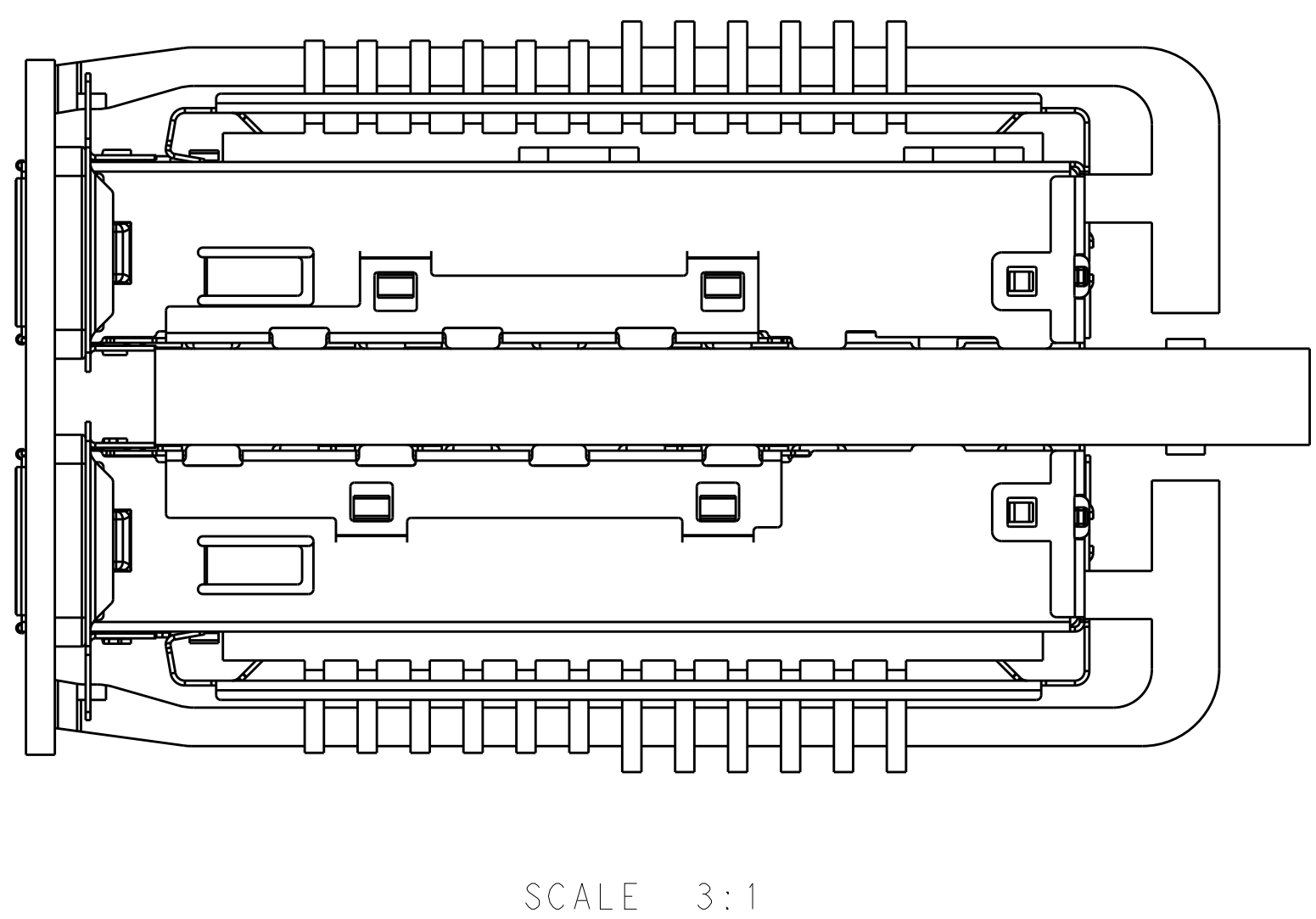
DETAIL S  
SCALE 8:1

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 108-2286	SIZE A100779	
		APPLICATION SPEC 114-13217		
MATERIAL		WEIGHT -	DRAWING NO C=2170507	
		CUSTOMER DRAWING	RESTRICTED TO -	
		SCALE 1:1	SHEET 1 OF 6	
			REV A	

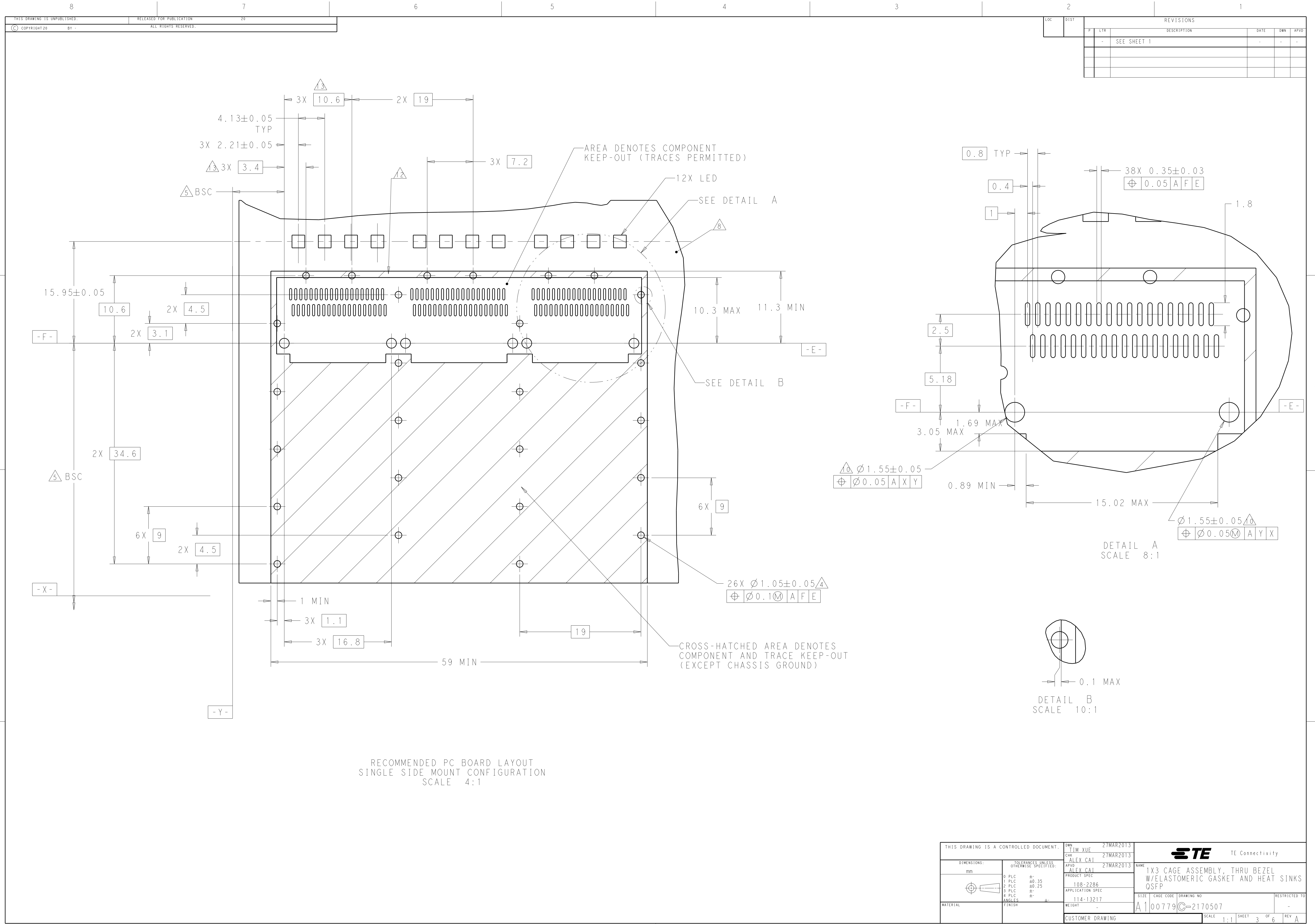


ONE SIDED CONFIGURATION  
SCALE 3:1

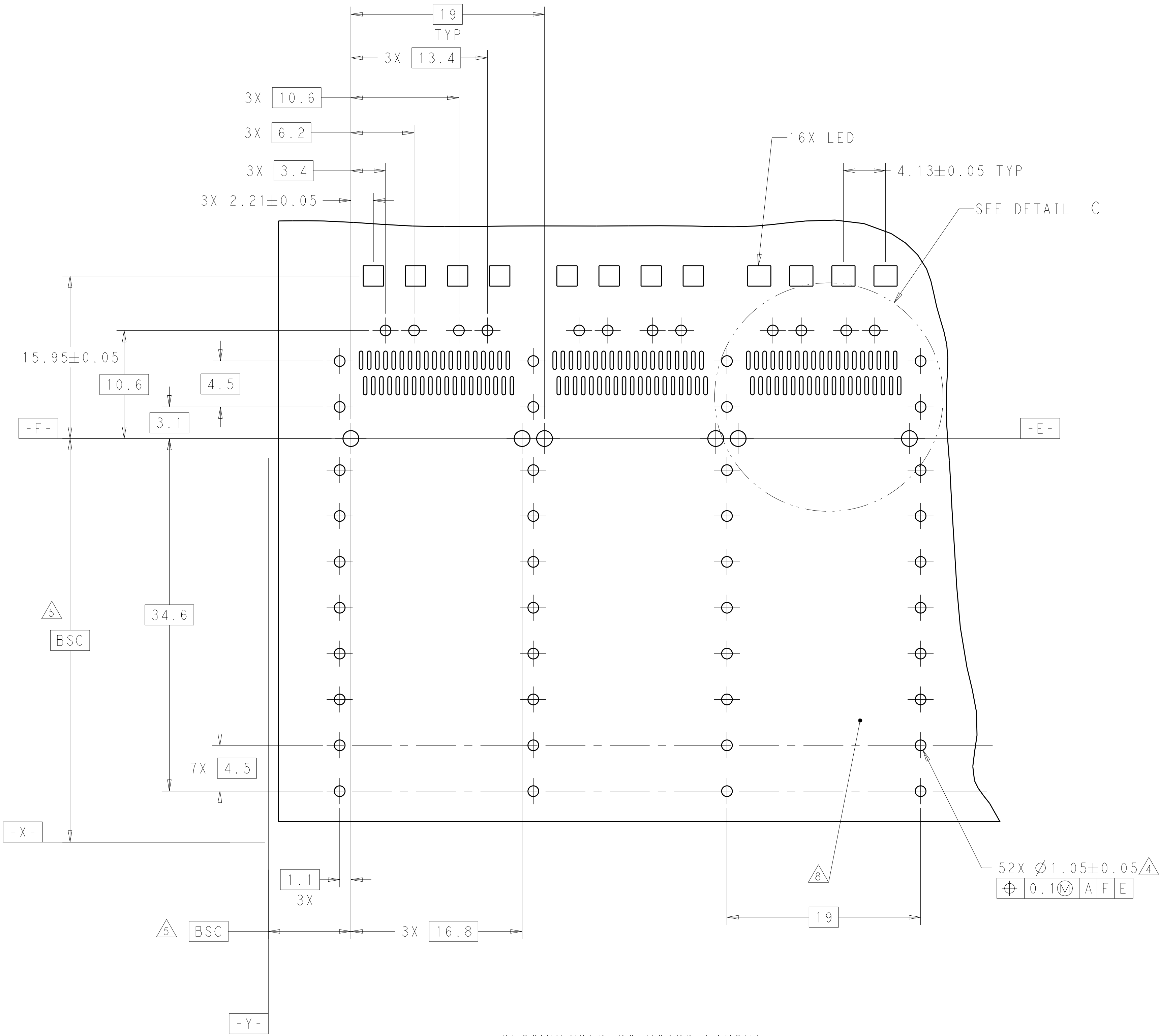


BELLY TO BELLY CONFIGURATION  
SIMILAR TO ONE SIDED  
EXCEPT WHERE NOTED  
SCALE 3:1

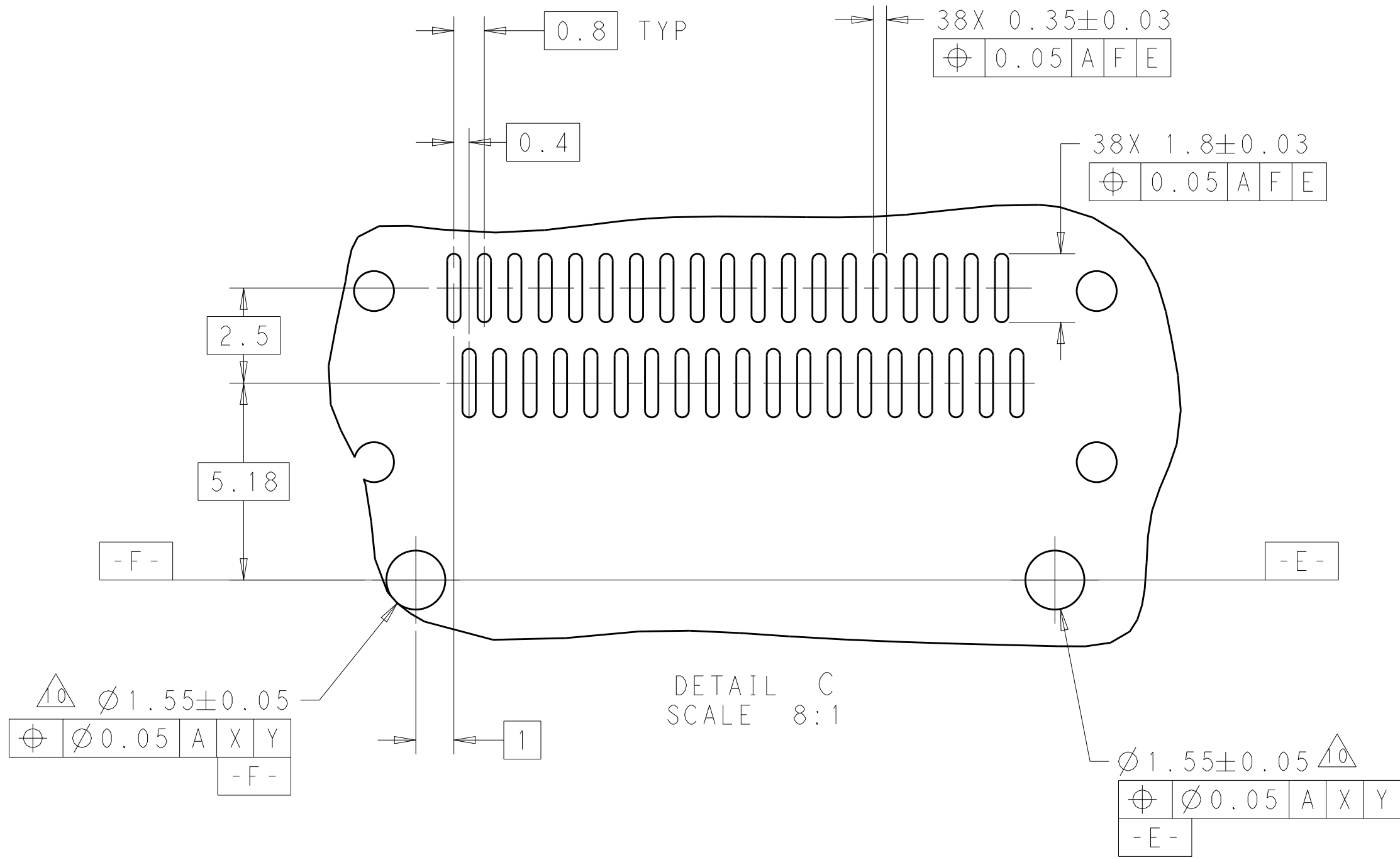
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: 27MAR2013 TIM XUF CHK: 27MAR2013 ALEX CAI APVD: 27MAR2013 ALEX CAI		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.35 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±		NAME 1X3 CAGE ASSEMBLY, THRU BEZEL WELASTOMERIC GASKET AND HEAT SINKS QSFP	
		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13217		SIZE A1	
MATERIAL		FINISH		WEIGHT -	
				CUSTOMER DRAWING SCALE 1:1 SHEET 2 OF 6 REV A	



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

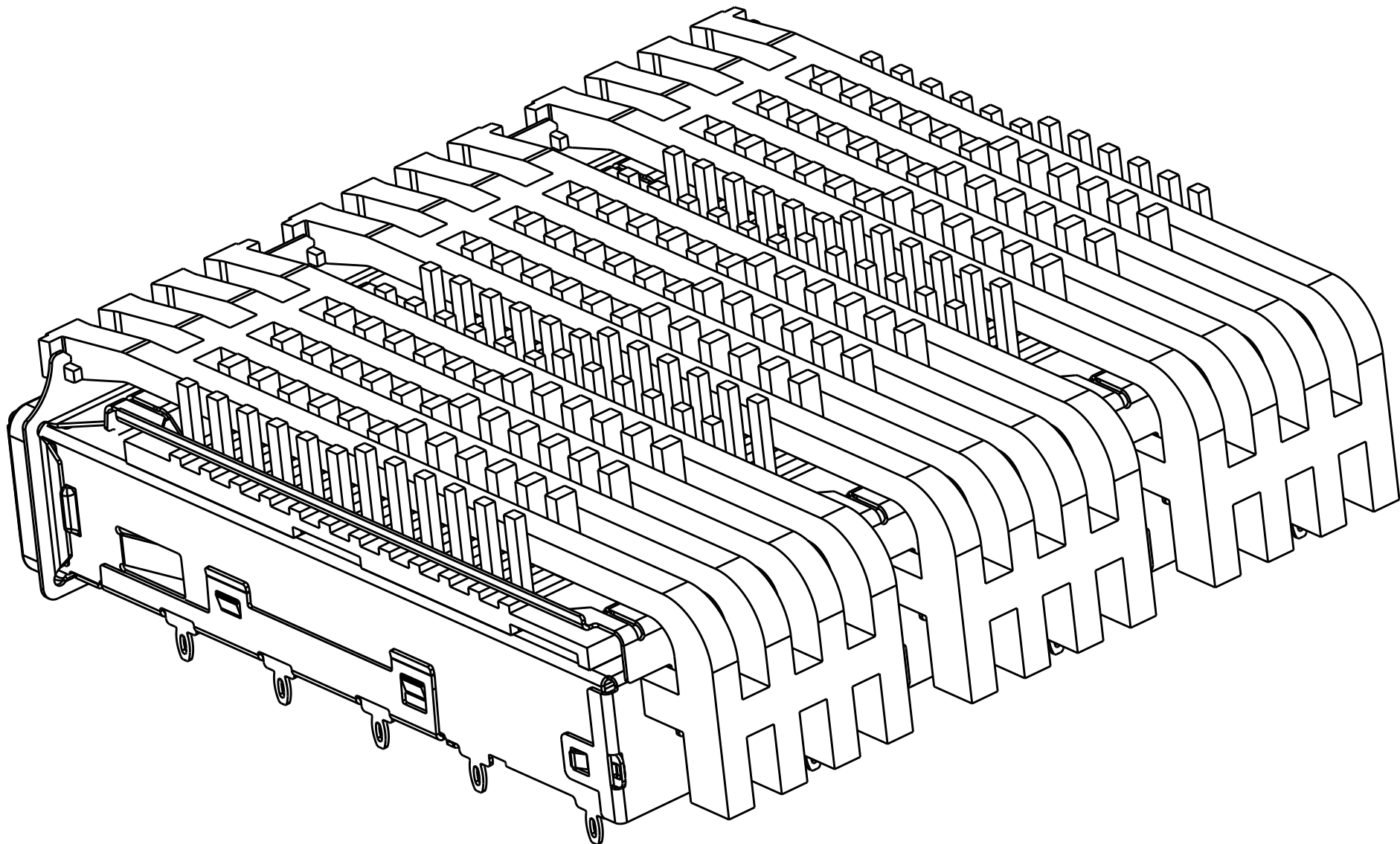


RECOMMENDED PC BOARD LAYOUT  
BELLY TO BELLY CONFIGURATION  
SEE SHEET 3 FOR COMPONENT AND TRACE KEEP-OUTS  
SCALE 4:1

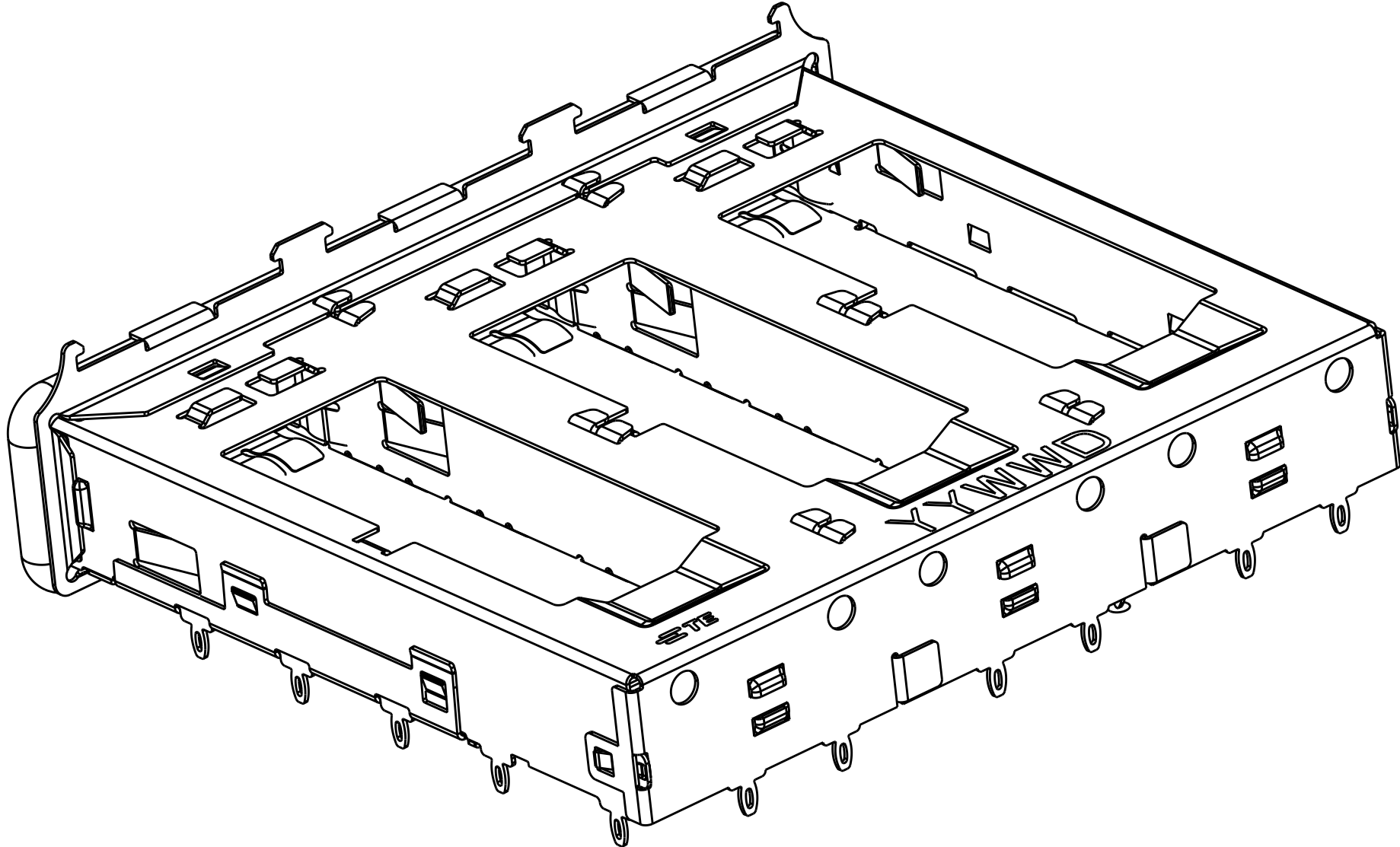


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE	27MAR2013	TE Connectivity	
DIMENSIONS:		CHK ALEX CAI	27MAR2013		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD ALEX CAI	27MAR2013	NAME	1X3 CAGE ASSEMBLY, THRU BEZEL W/ELASTOMERIC GASKET AND HEAT SINKS QSPF
	0 PLC ±	PRODUCT SPEC		SIZE	CAGE CODE DRAWING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

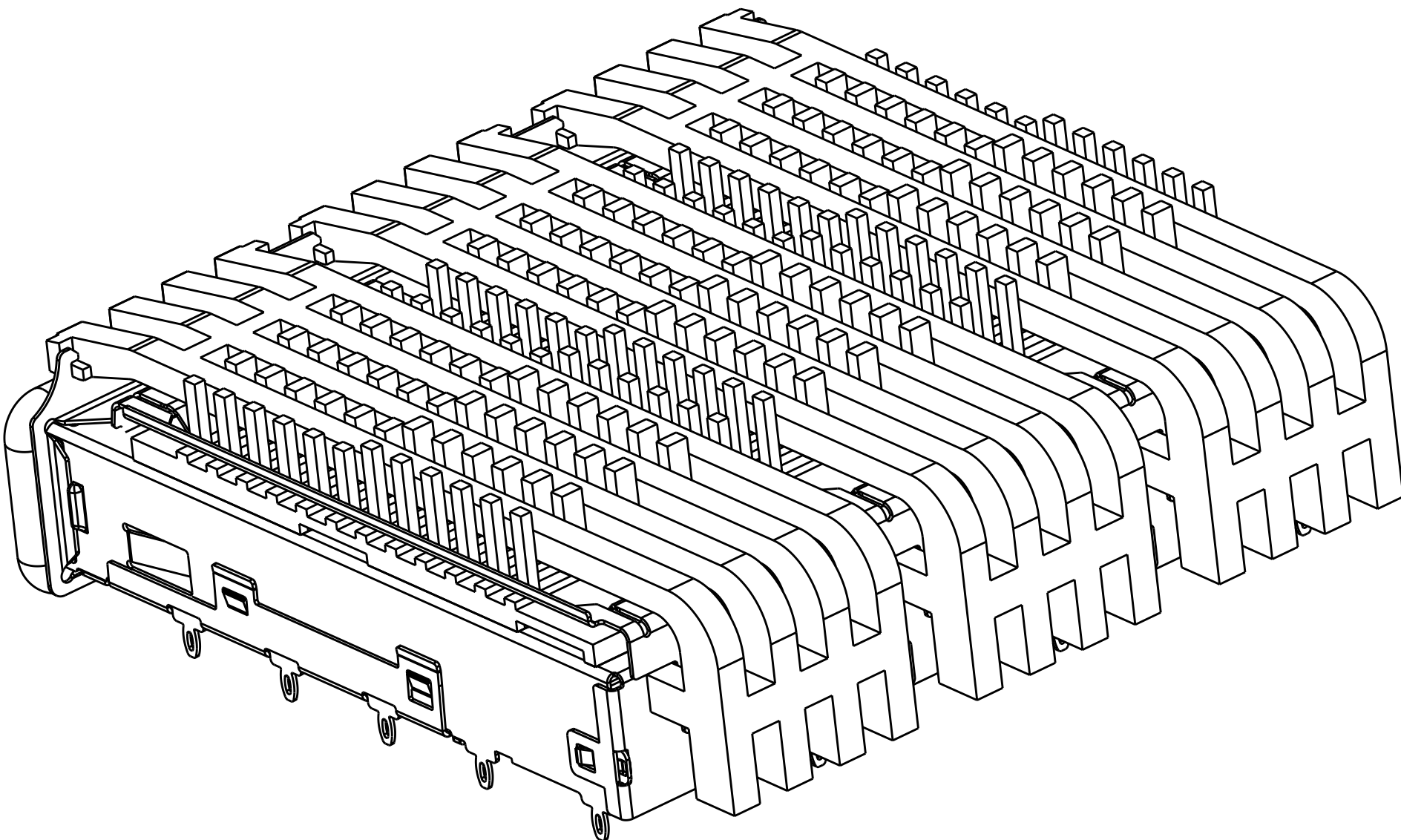
LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
-	-	SEE SHEET 1		-	-	-	



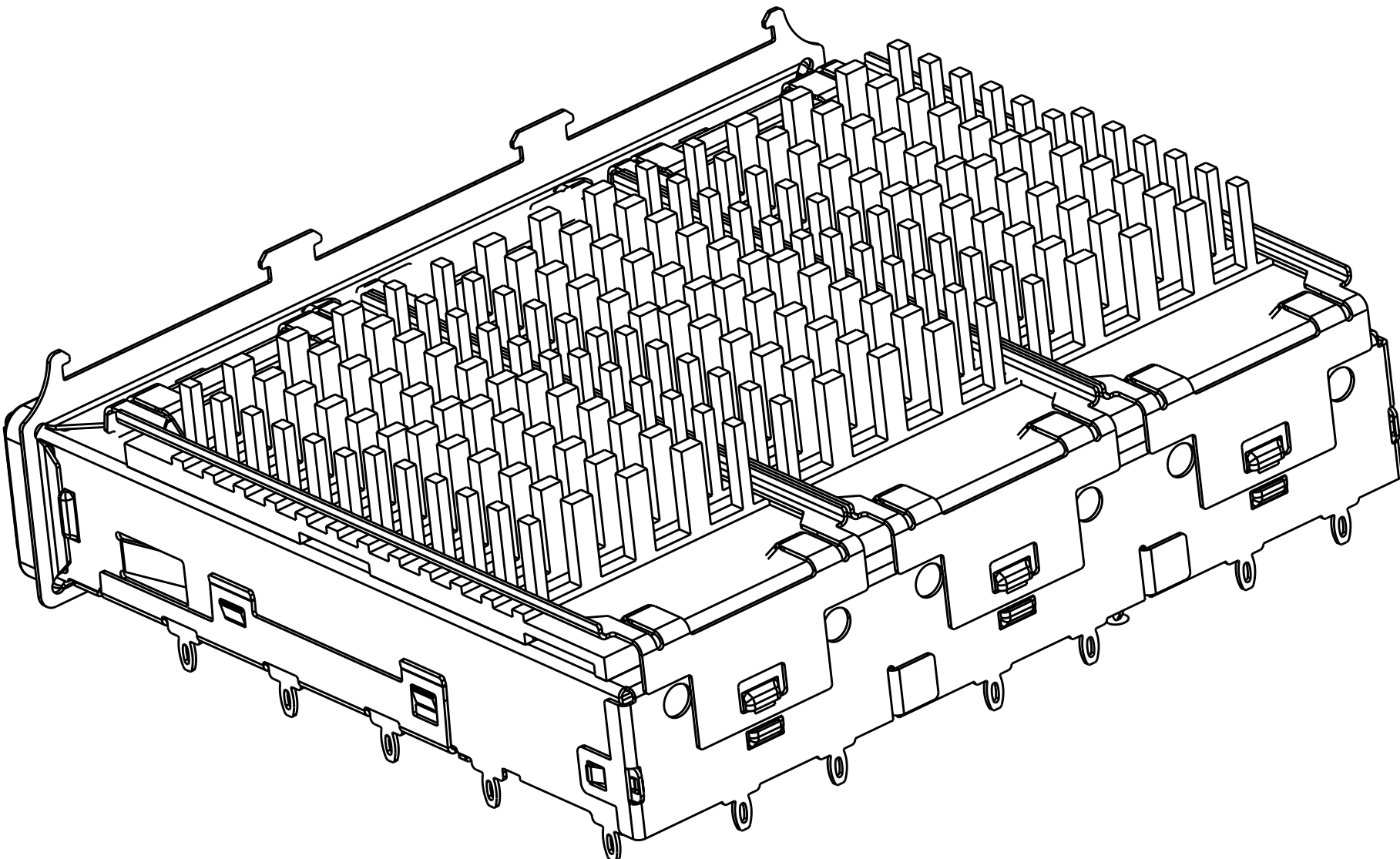
2170507-1 AS SHOWN  
SCALE 3:1



2170507-2 AS SHOWN  
SCALE 3:1



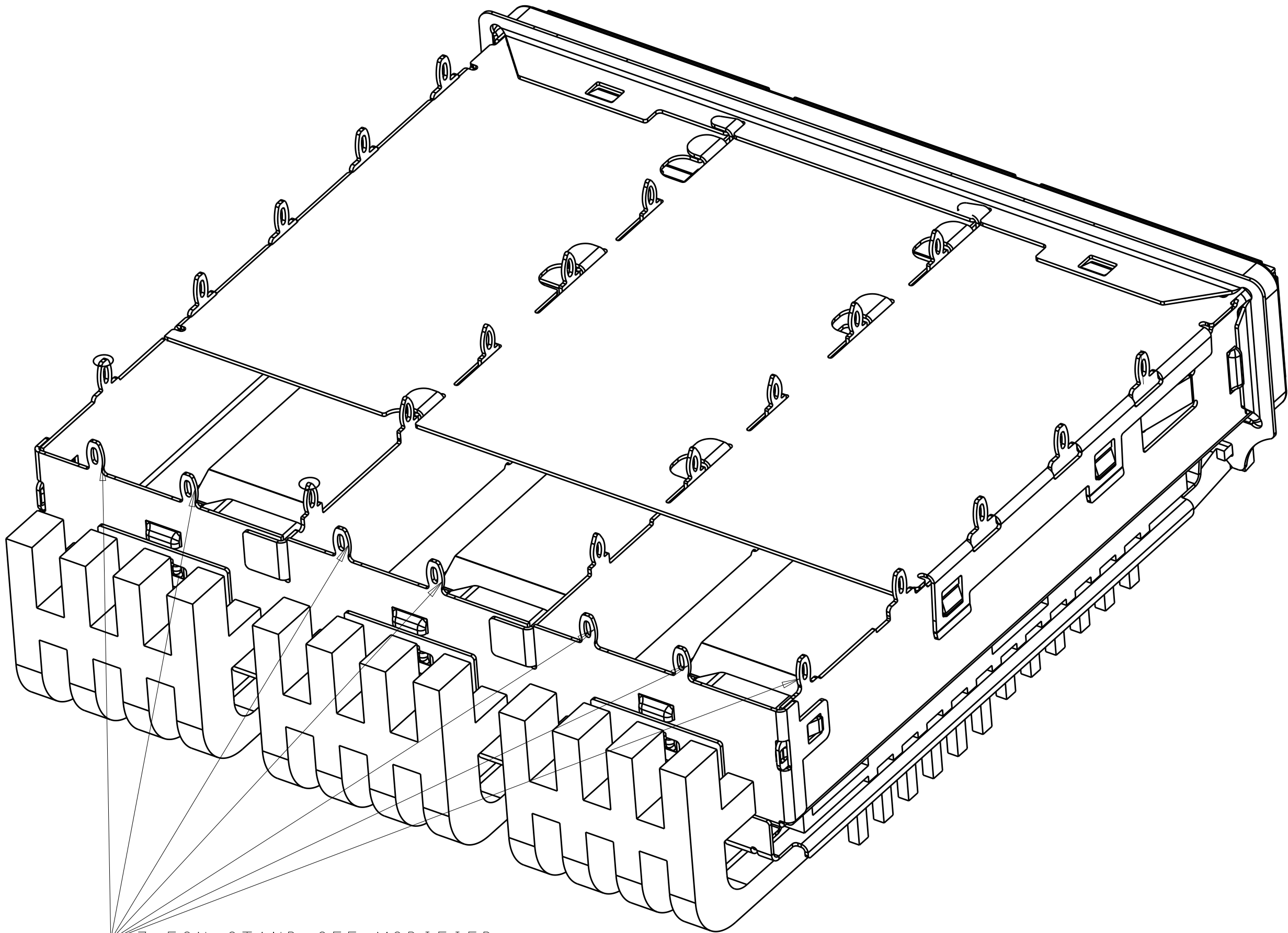
2170507-3 AS SHOWN  
SCALE 3:1



2170507-4 AS SHOWN  
SCALE 3:1

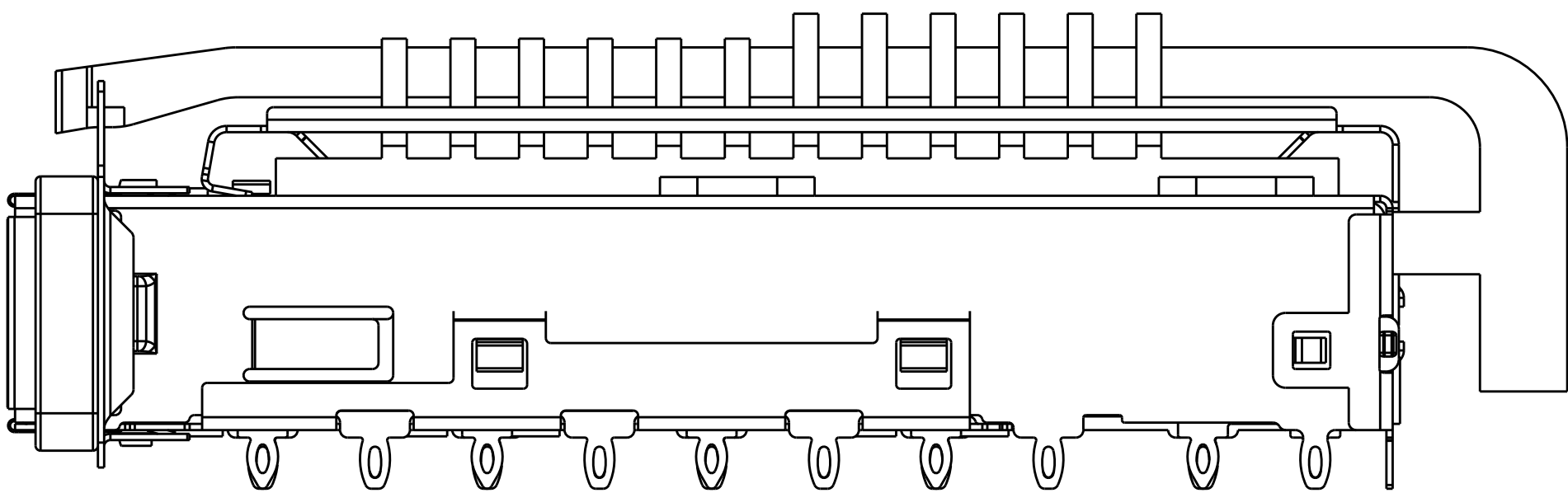
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	27MAR2013	TE Connectivity		
		CHKD	ALEX CAI	27MAR2013			
		APVD	ALEX CAI	27MAR2013	NAME		
		PRODUCT SPEC			1X3 CAGE ASSEMBLY, THRU BEZEL		
		APPLICATION SPEC			W/ELASTOMERIC GASKET AND HEAT SINKS		
		WEIGHT			QSPF		
		CUSTOMER DRAWING			RESTRICTED TO		
					-		
					A100779C=2170507		
					SCALE 1:1 SHEET 5 OF 6 REV A		

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

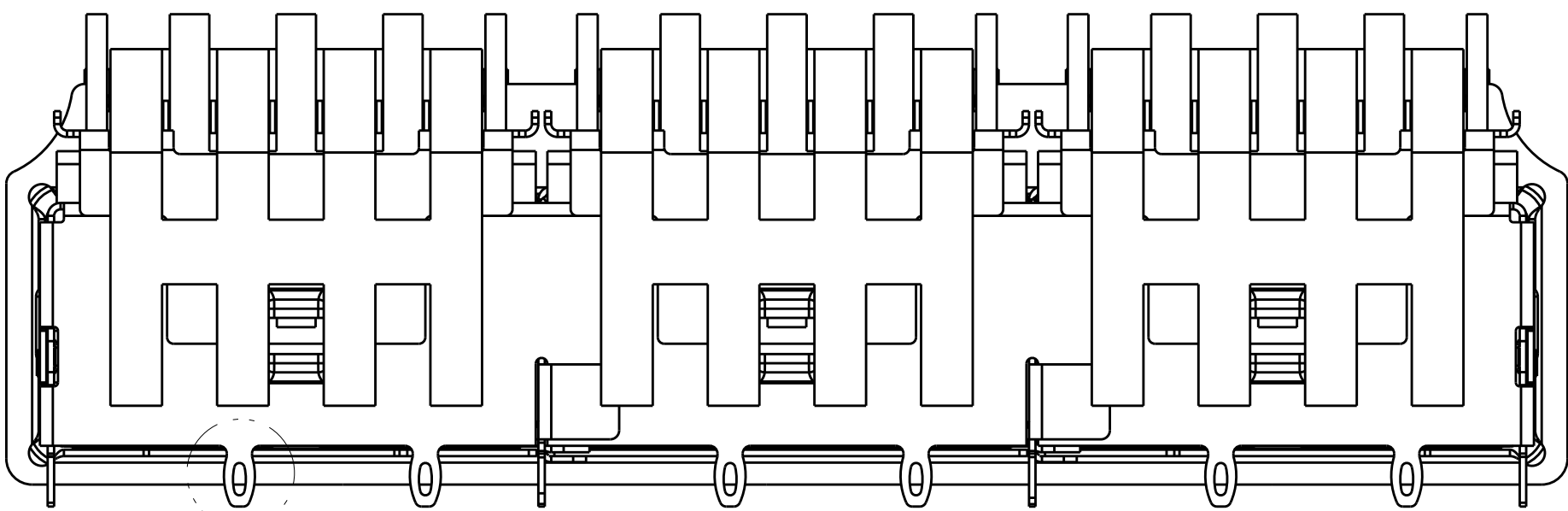


7 EON STAND OFF MODIFIED  
AS DETAIL D

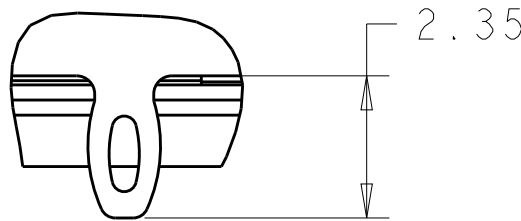
SCALE 4:1



SCALE 4:1




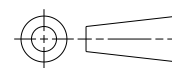
SEE DETAIL D



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:	APVD ALEX CAI 27MAR2013	NAME		
		PRODUCT SPEC	1X3 CAGE ASSEMBLY, THRU BEZEL		
	0 PLC ±.1 1 PLC ±0.35 2 PLC ±0.25 3 PLC ±.1 4 PLC ±.1 ANGLES ±.1	108-2286	W/ELASTOMERIC GASKET AND HEAT SINKS		
		APPLICATION SPEC	QSPF		
MATERIAL	FINISH	114-13217	SIZE		
		WEIGHT	CAGE CODE		
CUSTOMER DRAWING		2170507	DRAWING NO		
		SCALE 1:1	SHEET 6 OF 6		
			REV A		