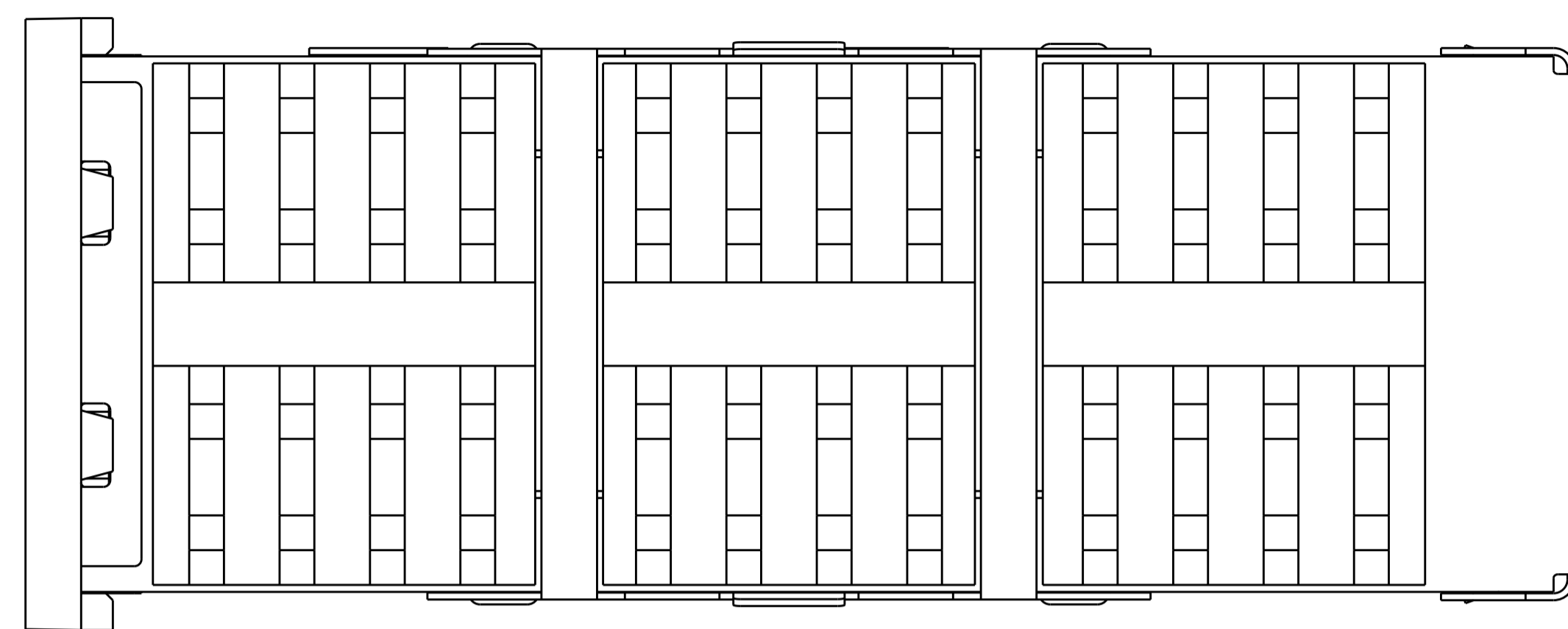
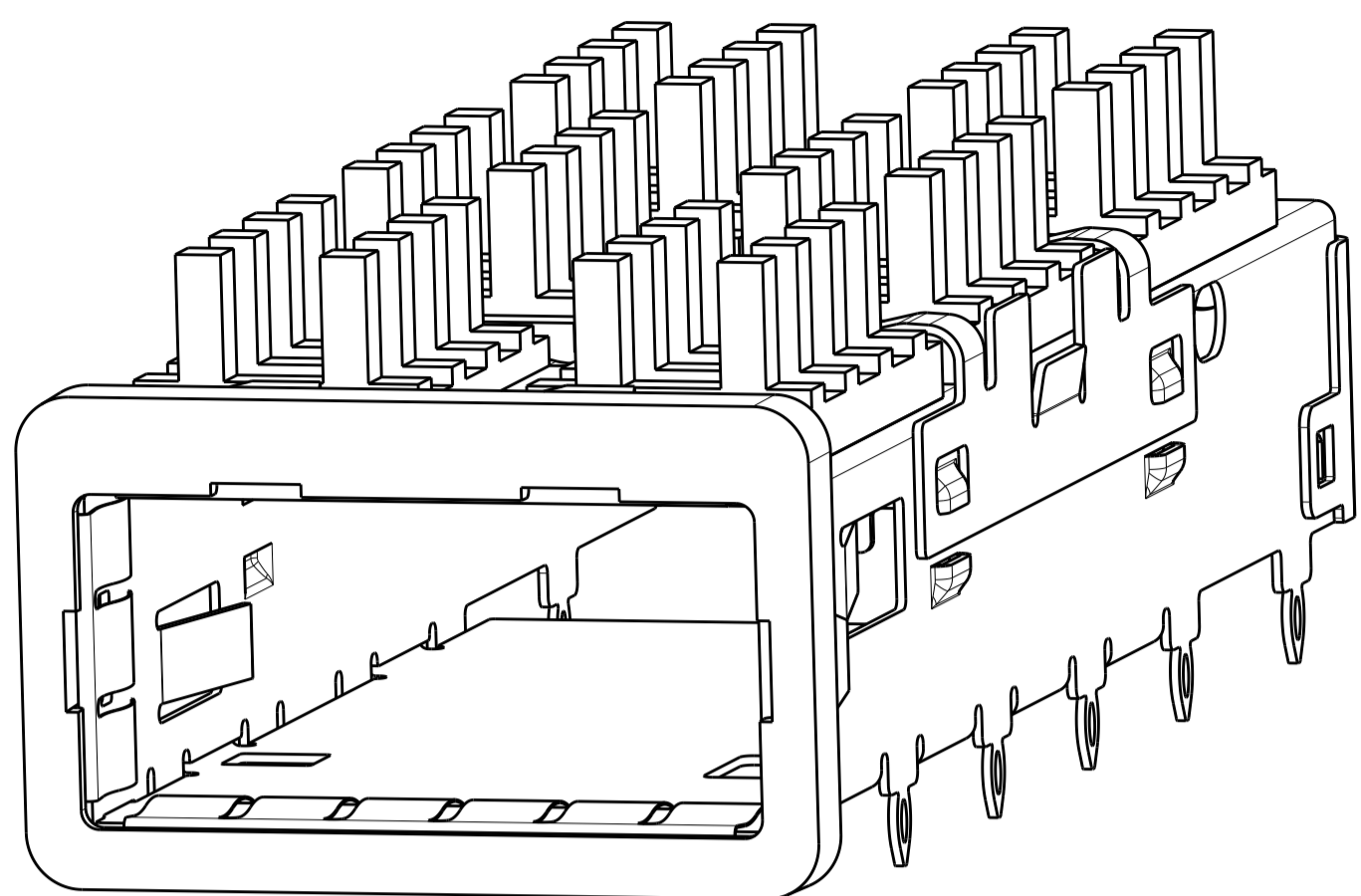
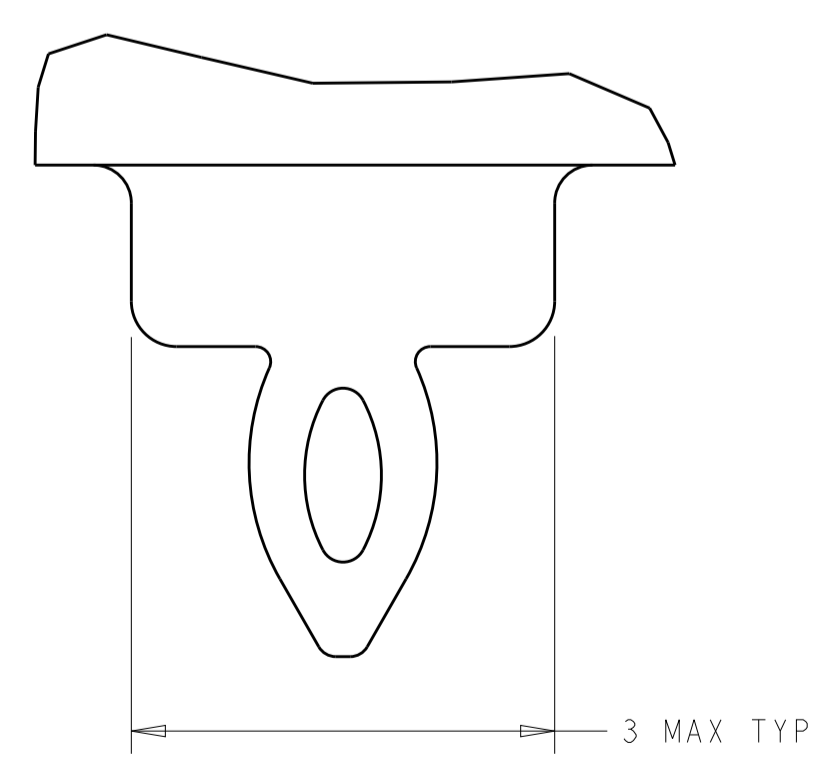
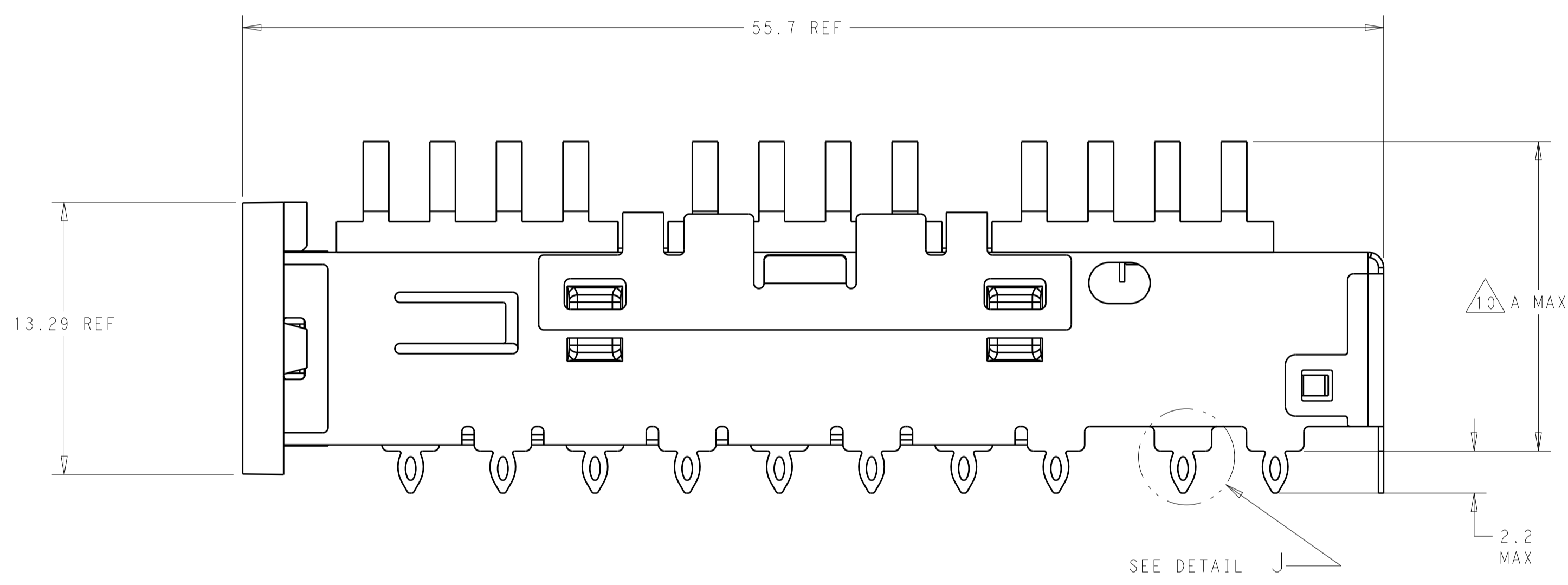
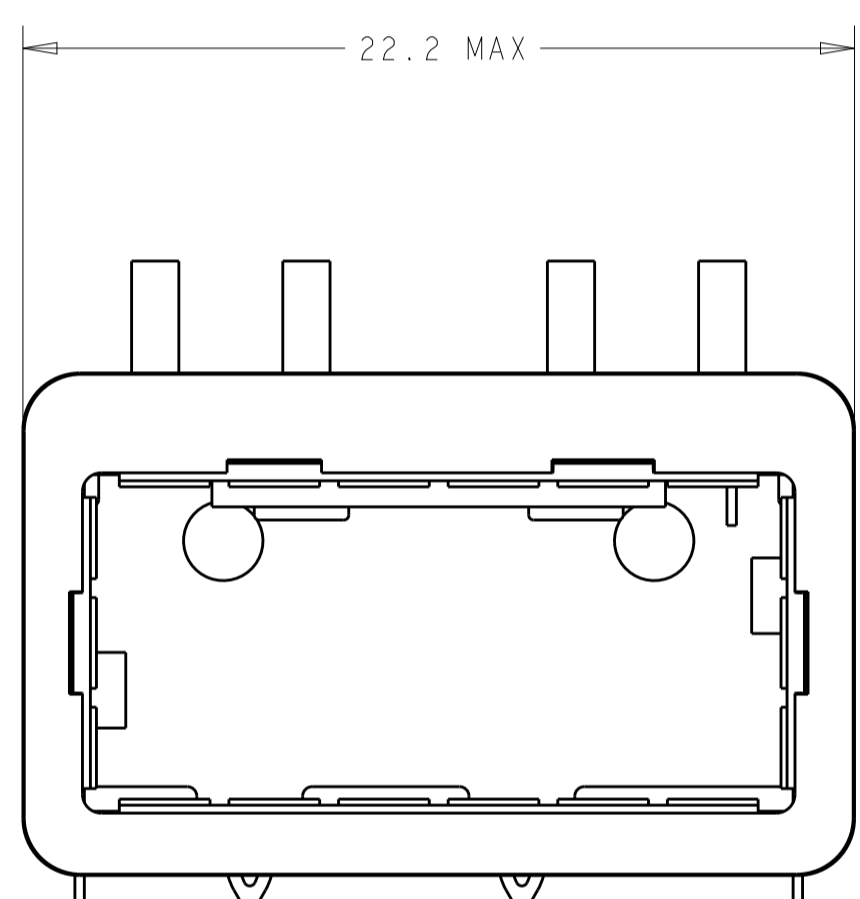


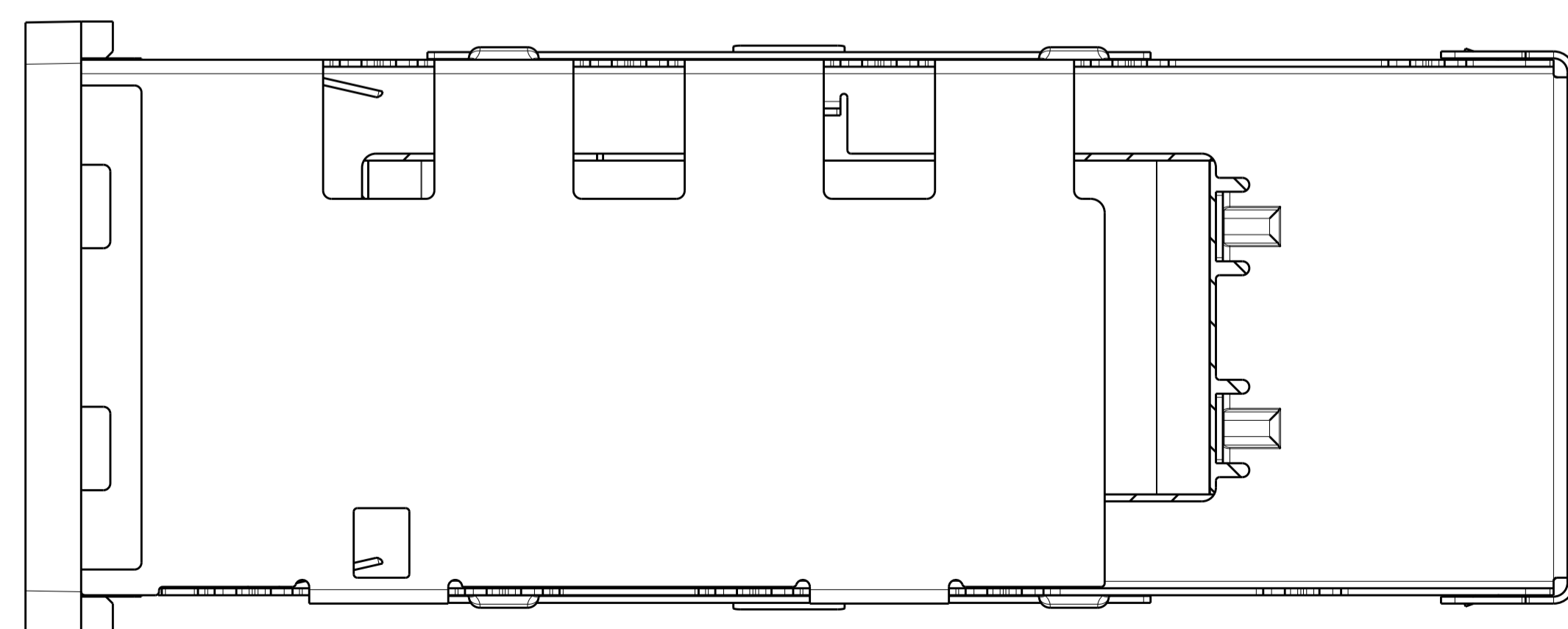
LOC	DIST	REVISIONS			
P	LTN	DESCRIPTION	DATE	DWN	APVD
A		RELEASED PER ECO-13-000076	17JAN2013	CJV	EDB



- 1. CAGE 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
- 2. MINIMUM PITCH DIMENSION.
- 3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 4. REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 5. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 6. DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
 SINGLE SIDED PC BOARD MINIMUM THICKNESS: 1.45
 DOUBLE SIDED PC BOARD MINIMUM THICKNESS: 2.7.
- 7. HEAT SINK AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY
 CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- 8. DATUM A IS TOP SURFACE OF HOST BOARD.
- 9. SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.
- 10. DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE.
- 11. DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINK APPLIES TO CAGE ASSEMBLY ONLY.
- 12. EMI SPRING FINISH: 2µm MIN TIN.
 FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL OVER 5.08µm MIN COPPER.
 HEAT SINK FINISH: 0.076µm MIN NICKEL.



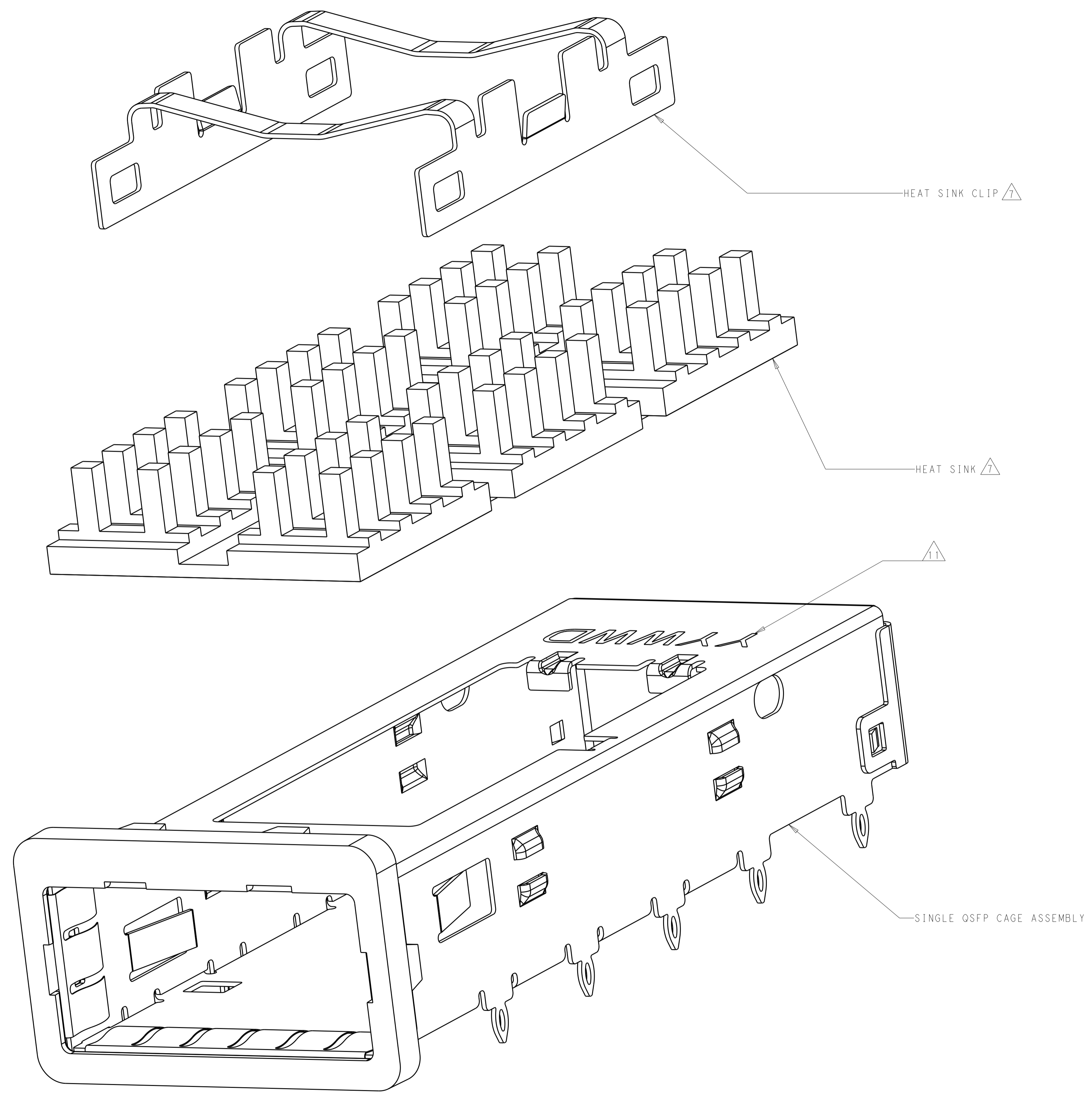
DETAIL J
 SCALE 20:1



23.0	NETWORKING HEAT SINK	1551892-3
16.0	SAN HEAT SINK (SHOWN)	1551892-2
13.7	PCI HEAT SINK	1551892-1
A	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DWN E. ZIJLSTRA CHK R. VERBEET APVD T. D. ROER	08NOV2010 08NOV2010 08NOV2010	TE Connectivity	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME		CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK	
mm	0 PLC ±0.13 1 PLC ±0.13 2 PLC ±0.13 3 PLC ±0.13 4 PLC ±0.13 ANGLES ±0.13	PRODUCT SPEC		-	
MATERIAL		APPLICATION SPEC		-	
FINISH		WEIGHT		-	
CUSTOMER DRAWING		SIZE CAGE CODE DRAWING NO		RESTRICTED TO	
		A100779C=1551892		-	
		SCALE 5:1		SHEET 1 OF 5 REV A	

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

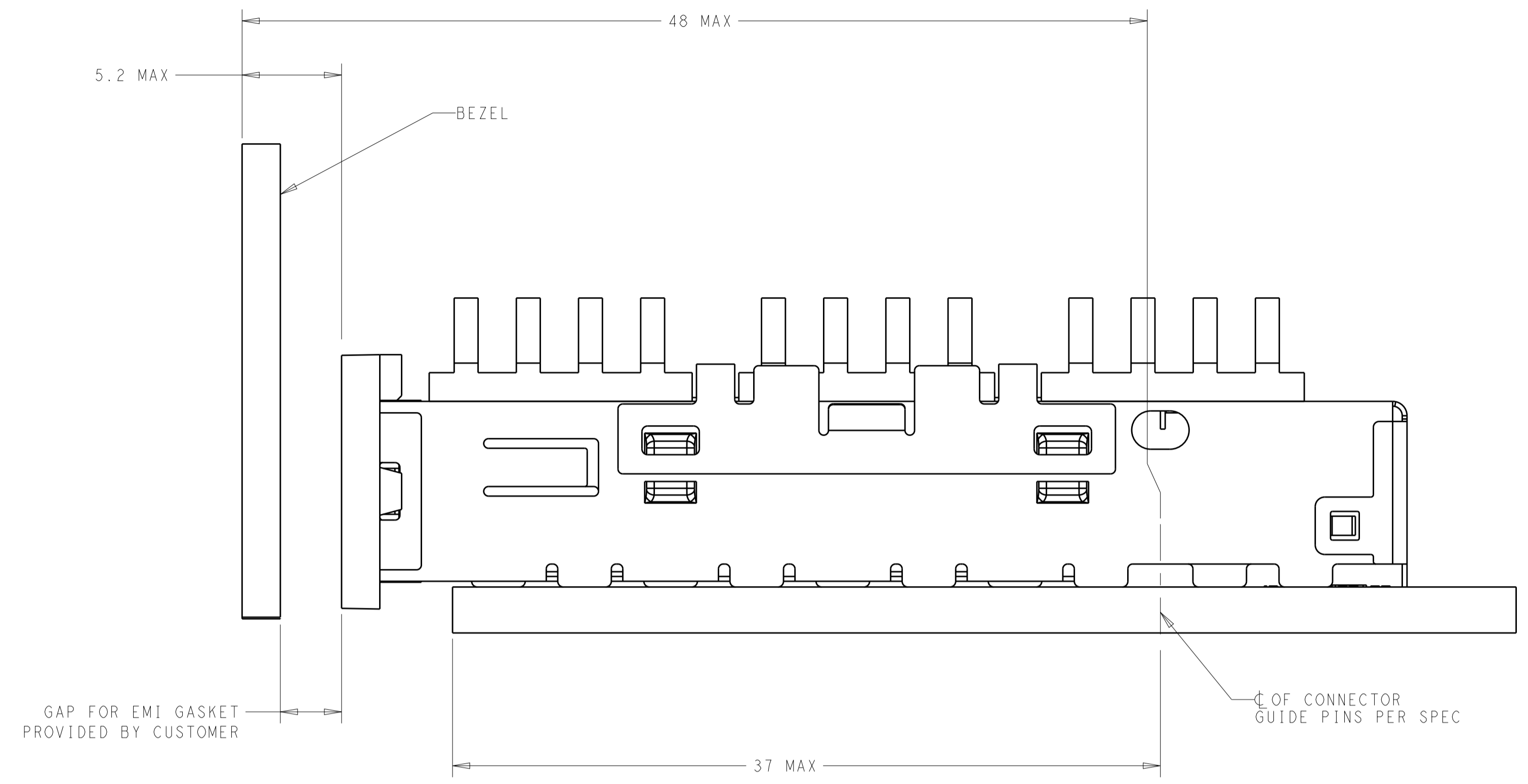
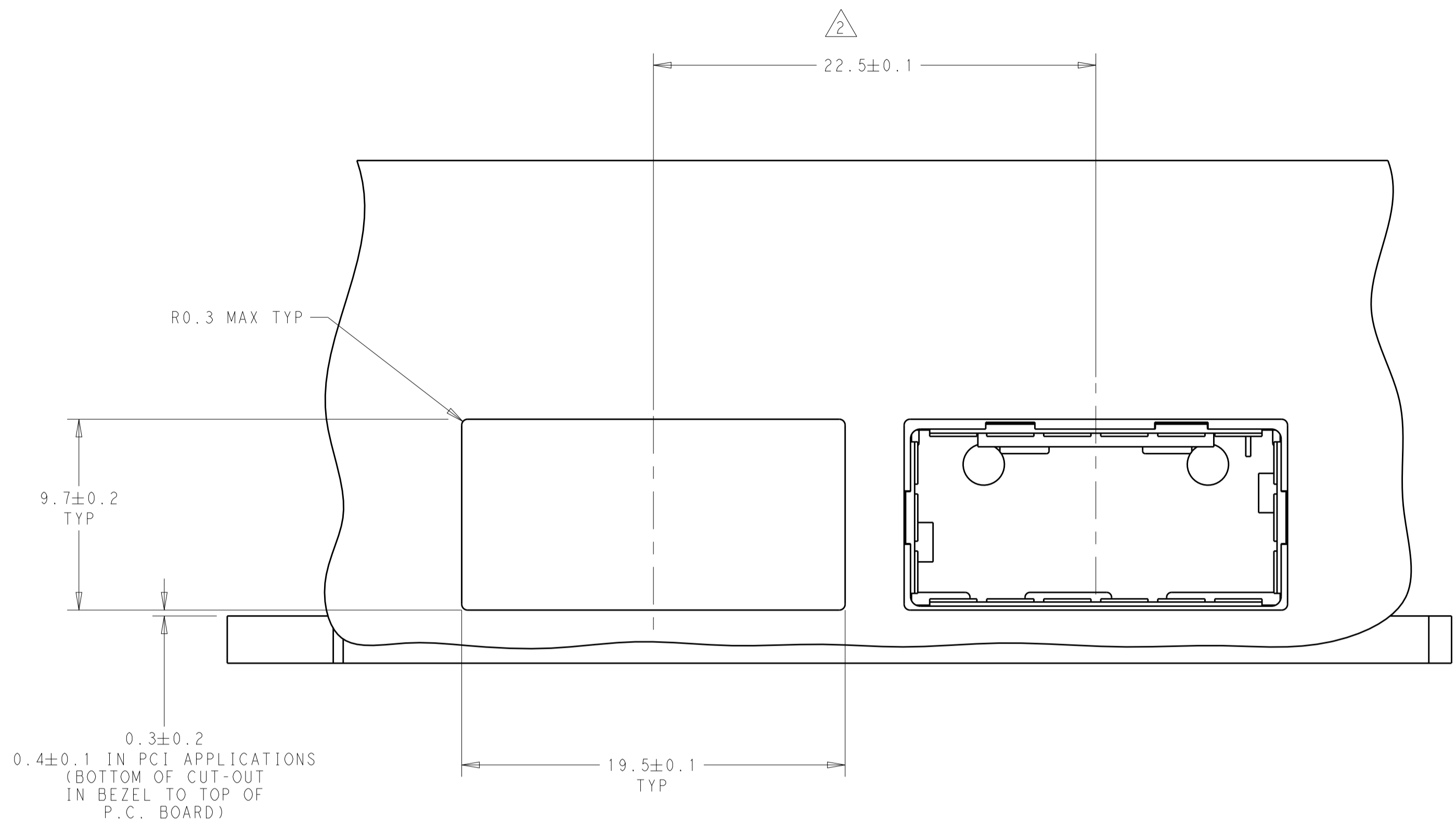


EXPLODED VIEW
SCALE 8:1

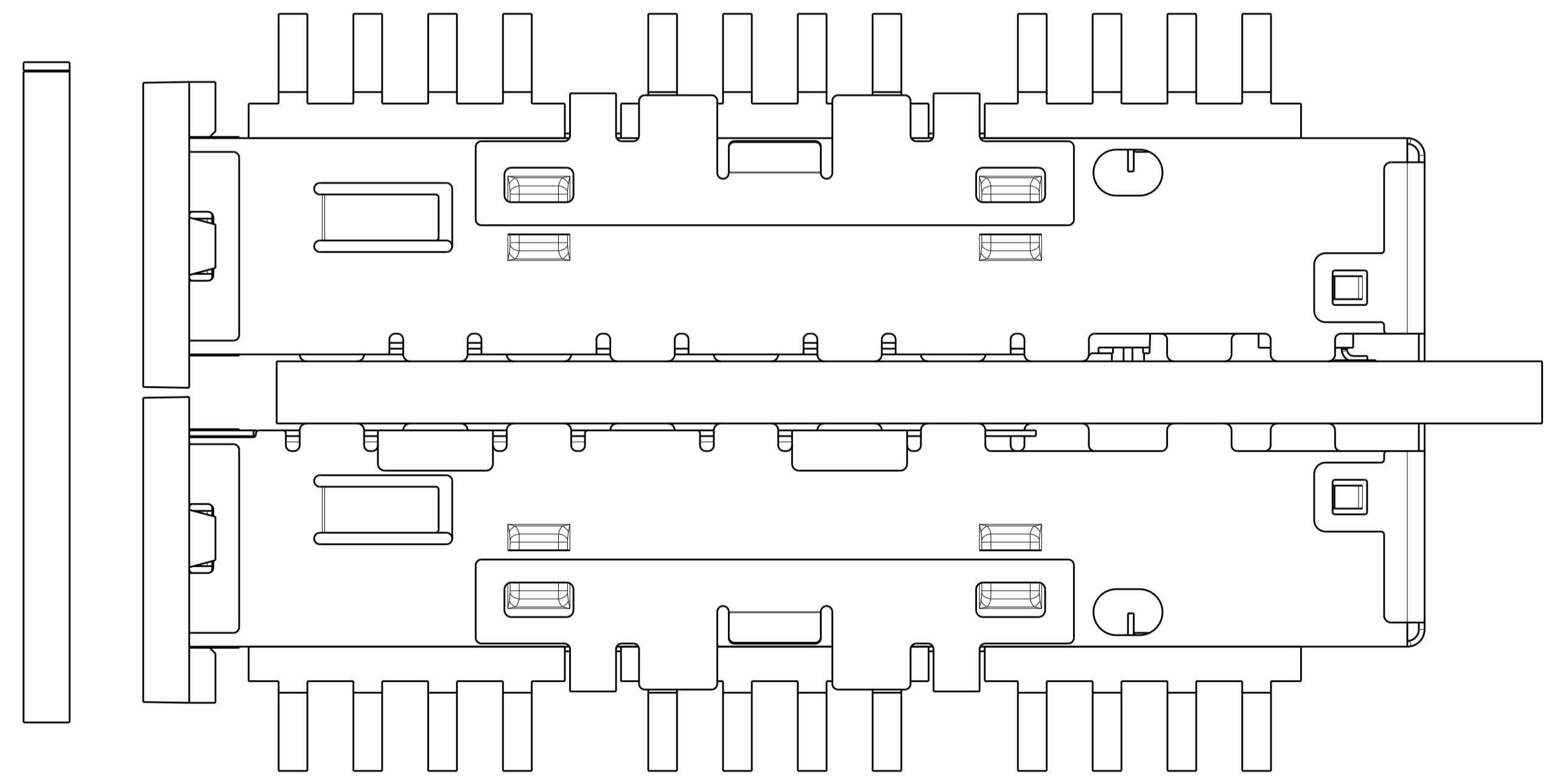
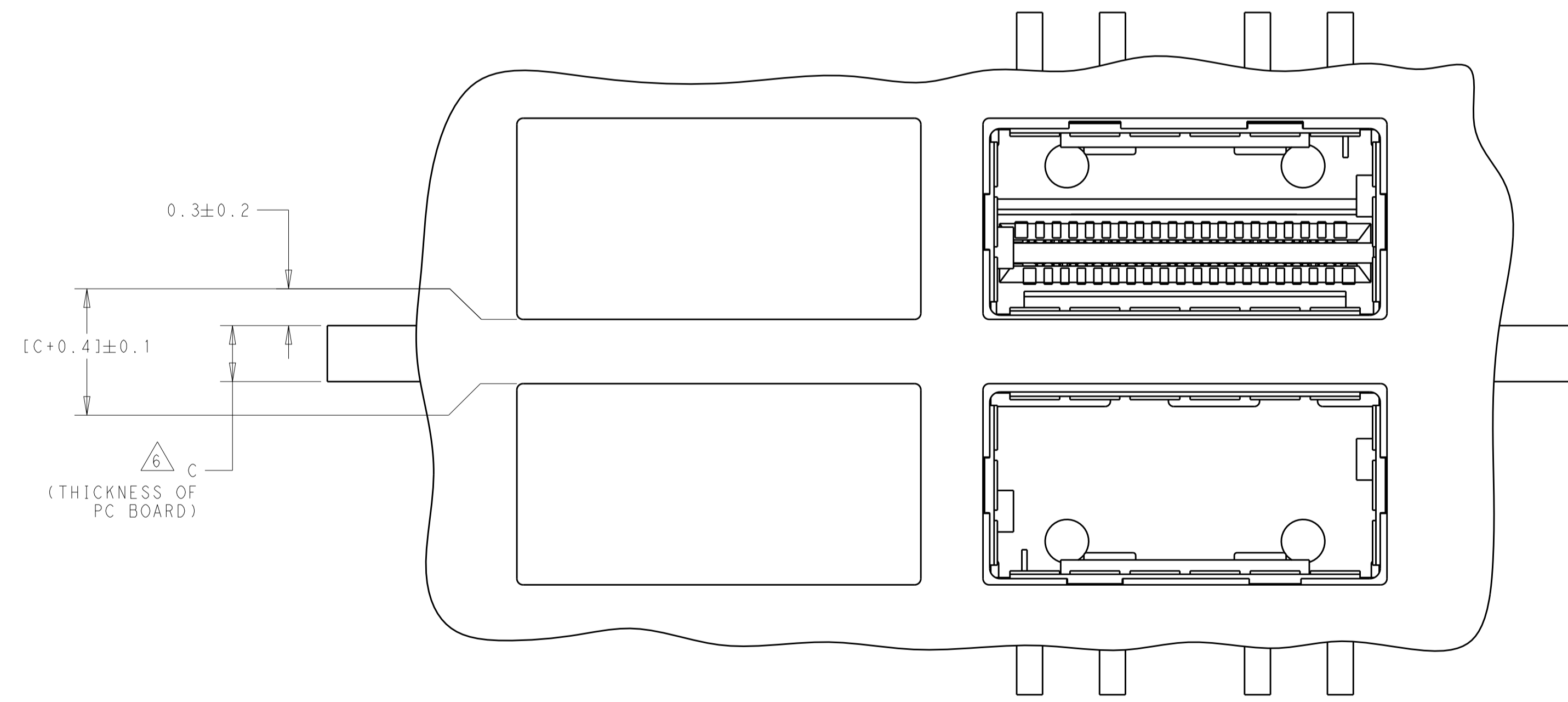
THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DMN E.ZIJLSTRA 08NOV2010 CHK R.VERBEET 08NOV2010 APVD T.D.ROER 08NOV2010	TE Connectivity NAME CAGE ASSEMBLY, BEHIND BEZEL, ZQSFP, WITH HEAT SINK	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC		
mm	0 PLC ±0.13 1 PLC ±0.13 2 PLC ±0.13 3 PLC ±0.13 4 PLC ±0.13 ANGLES ±0.13			
MATERIAL	FINISH	WEIGHT	RESTRICTED TO	
		A100779	SCALE 5:1 SHEET 2 OF 5 REV A	
CUSTOMER DRAWING		C=1551892		

LOC	DIST	REV	DATE	BY	APPD
GP	00				

REVISIONS			
REV	DATE	BY	APPD
-	-	-	-
SEE SHEET 1			



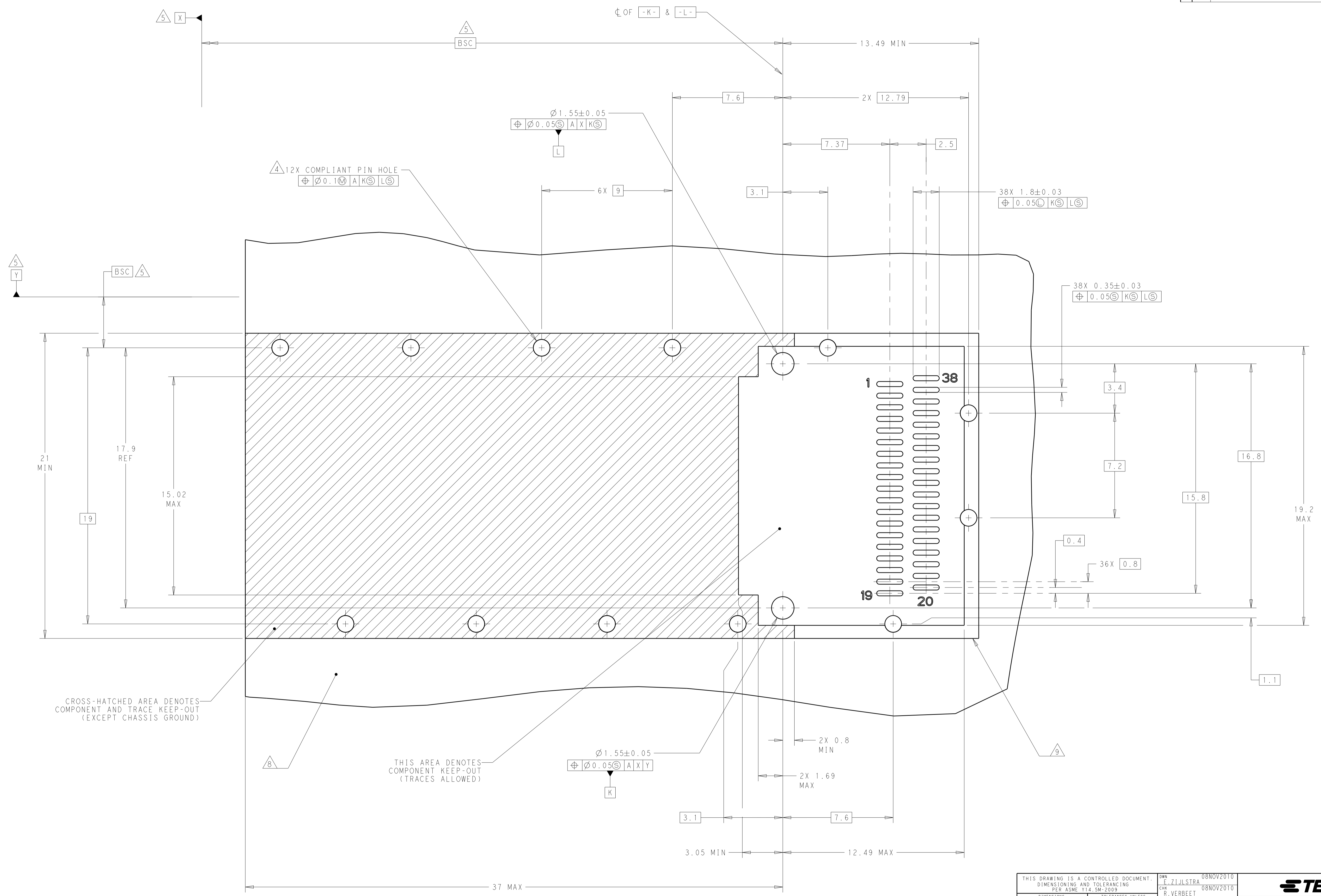
ONE SIDED CONFIGURATION



BELLY TO BELLY CONFIGURATION
 SIMILAR TO ONE SIDED EXCEPT
 WHERE NOTED

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWN: E.ZIJLSTRA 08NOV2010 CHK: R.VERBEEF 08NOV2010 APPD: T.D.ROER 08NOV2010	TE Connectivity	
DIMENSIONS: mm		NAME: CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK		RESTRICTED TO: -
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC: -		SIZE: A1
0 PLC ±0.13		APPLICATION SPEC: -		CAGE CODE: 1551892
1 PLC ±0.13		WEIGHT: -		SCALE: 5:1
2 PLC ±0.13		CUSTOMER DRAWING		SHEET 3 OF 5
3 PLC ±0.13				REV A
4 PLC ±0.13				
ANGLES ±0.13				
FINISH: -				

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



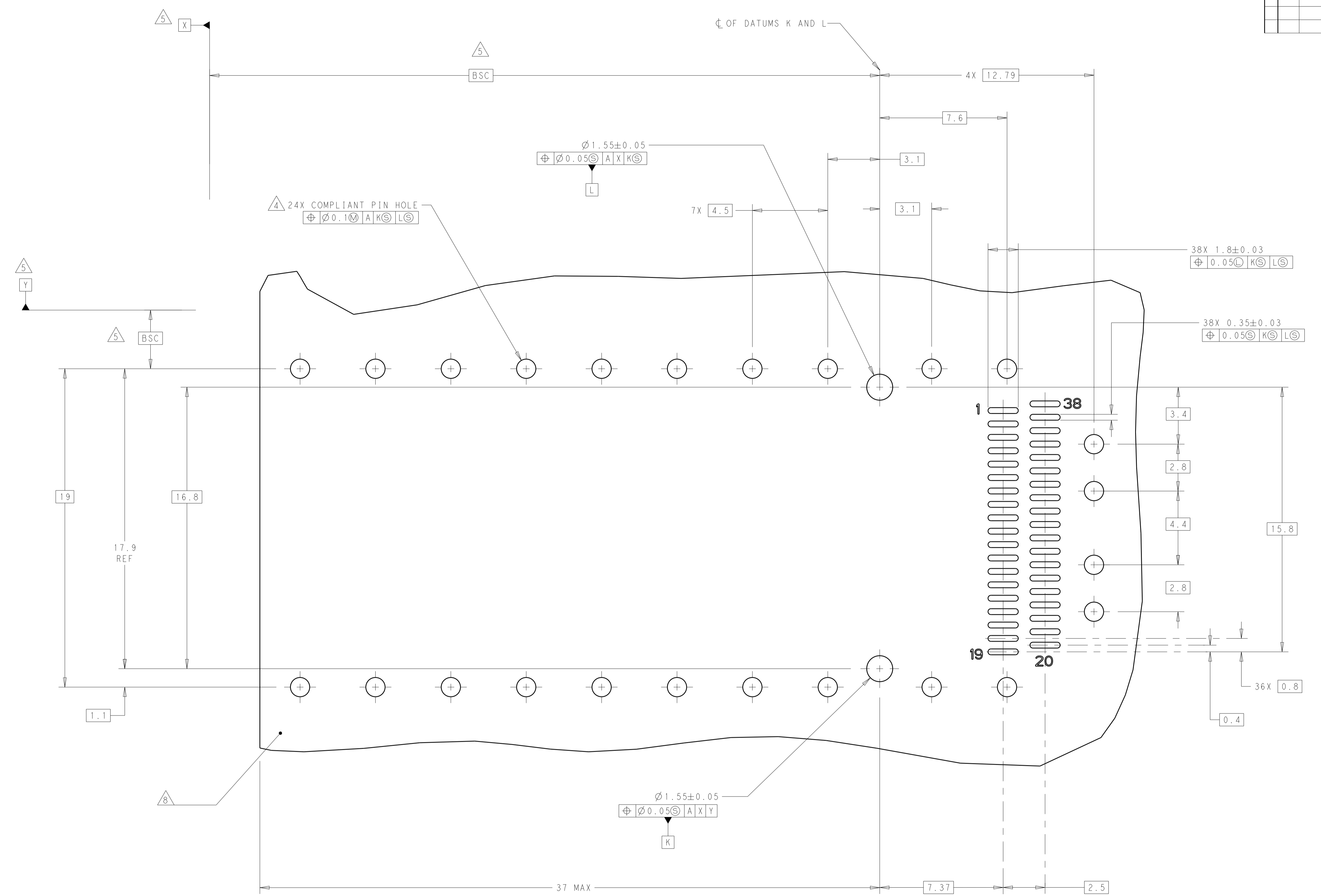
CROSS-HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

RECOMMENDED PCB LAYOUT
 SINGLE SIDED CONFIGURATION
 SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DMN E.ZIJLSTRA 08NOV2010	TE Connectivity
DIMENSIONS: mm		CHK R.VERBEET 08NOV2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD T.D.ROER 08NOV2010	NAME CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK
0 PLC ±0.13	1 PLC ±0.13	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO
2 PLC ±0.13	3 PLC ±0.13	APPLICATION SPEC	RESTRICTED TO
4 PLC ±0.13	ANGLES ±0.13	WEIGHT	A100779C=1551892
MATERIAL FINISH	SCALE 4:1	CUSTOMER DRAWING	SHEET 4 OF 5 REV A

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



RECOMMENDED PCB LAYOUT
 BELLY TO BELLY CONFIGURATION
 SEE SHEET 4 FOR KEEP OUT AREAS
 SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWN E.ZIJLSTRA 08NOV2010 CHK R.VERBEET 08NOV2010 APVD T.D.ROER 08NOV2010	TE Connectivity	
DIMENSIONS: mm		NAME CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK		RESTRICTED TO
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.13 1 PLC ±0.13 2 PLC ±0.13 3 PLC ±0.13 4 PLC ±0.13 ANGLES ±0.13		SIZE CAGE CODE DRAWING NO. A100779C=1551892		REV A
MATERIAL FINISH		WEIGHT		SCALE 4:1 SHEET 5 OF 5
CUSTOMER DRAWING				