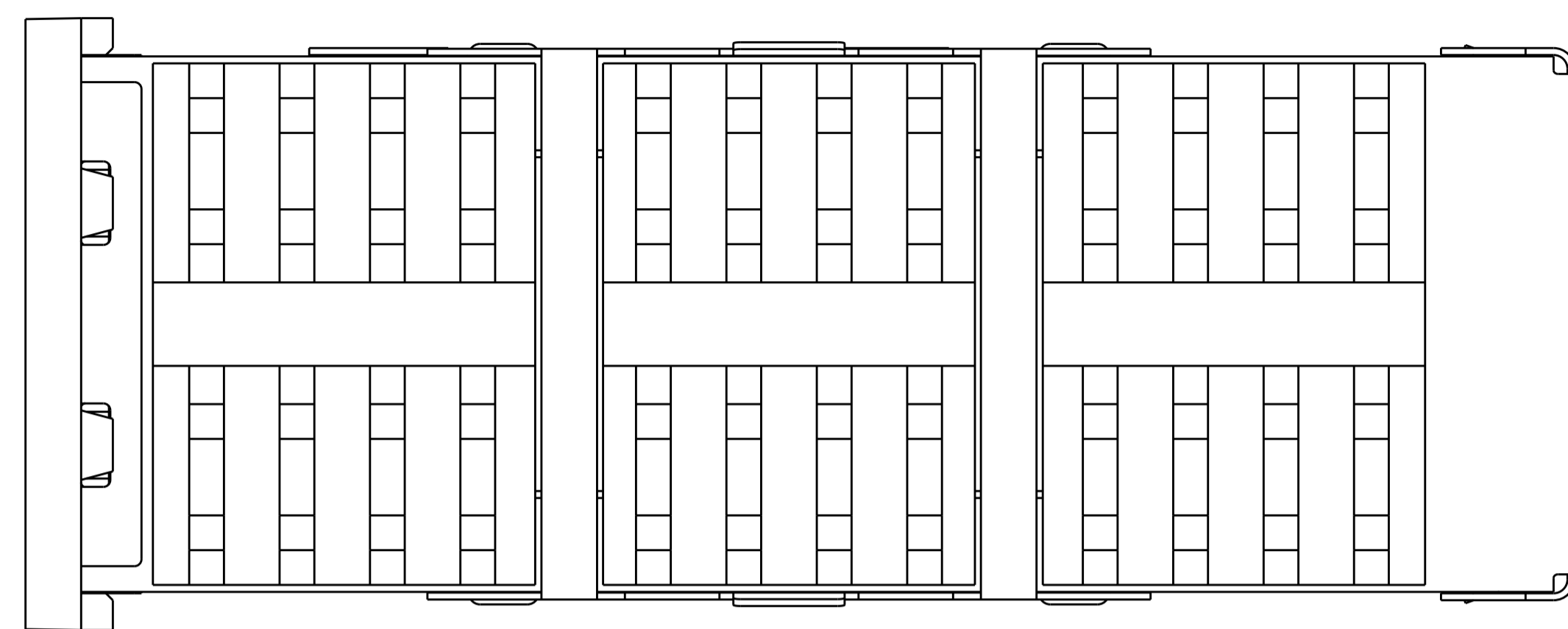
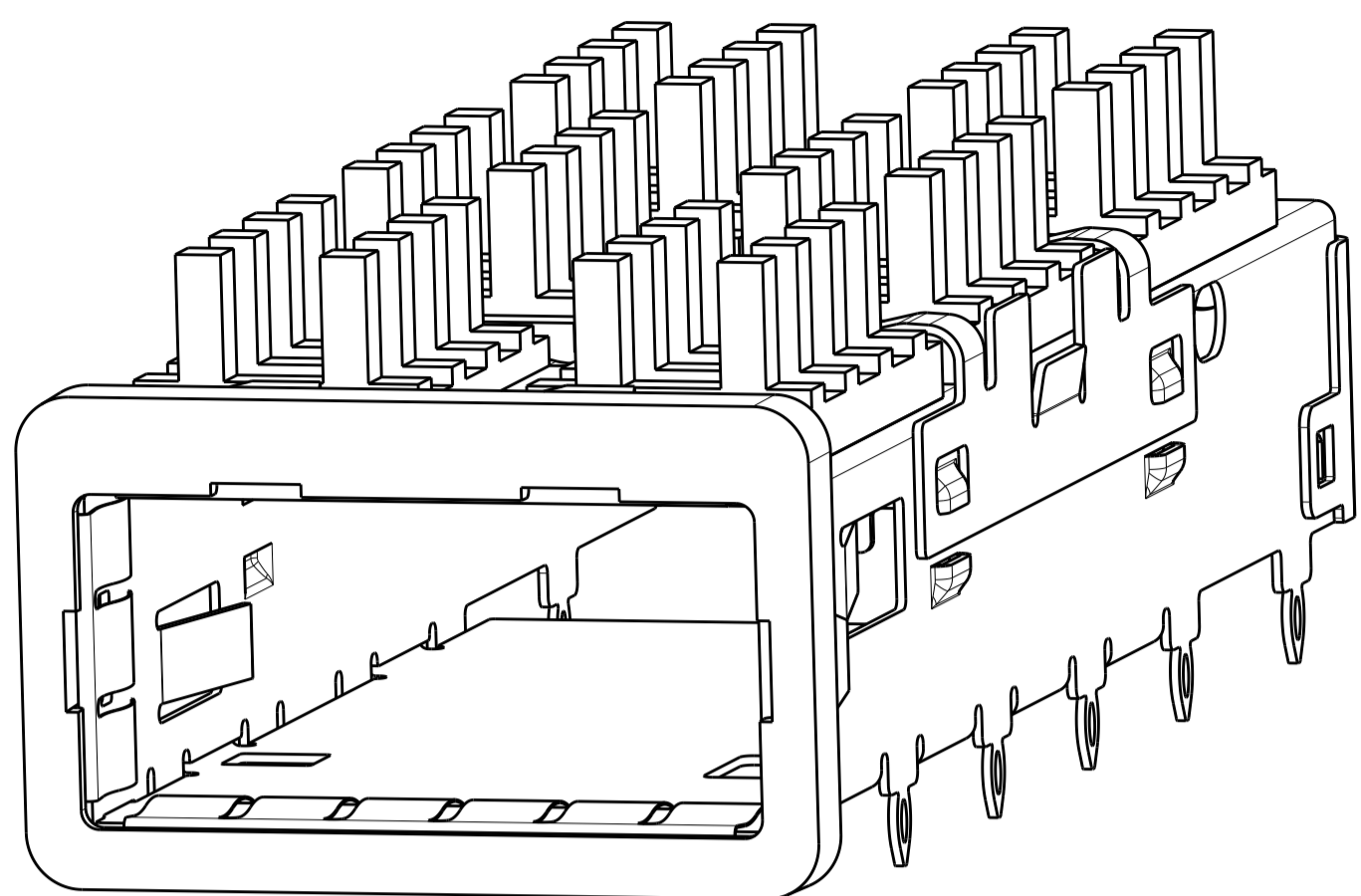
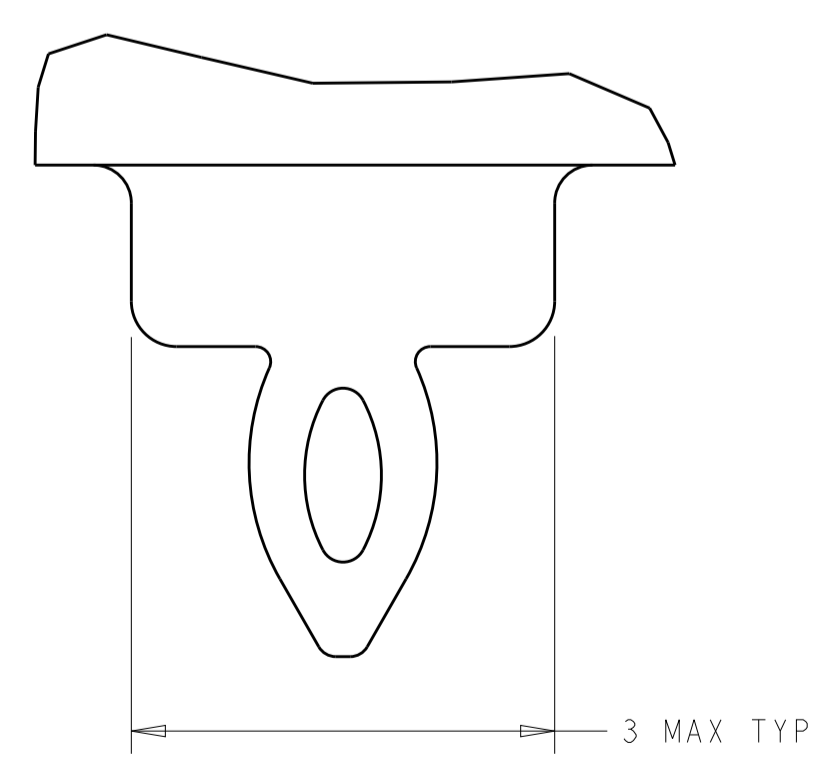
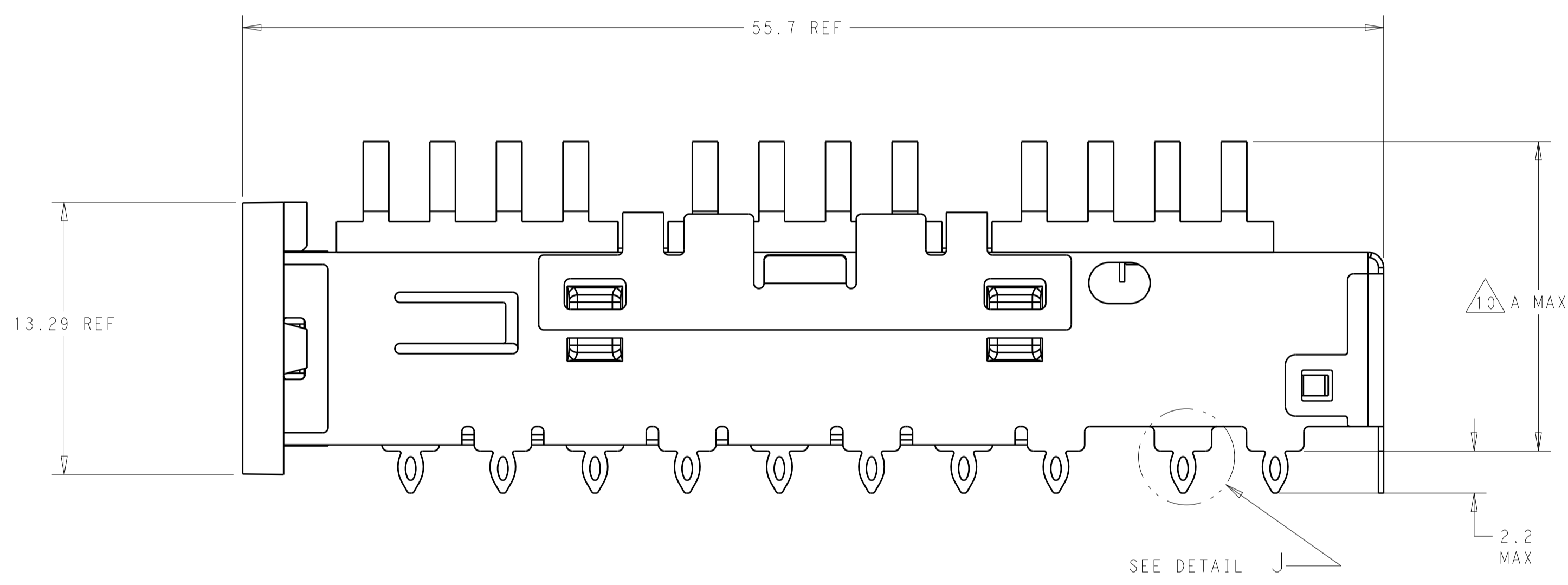
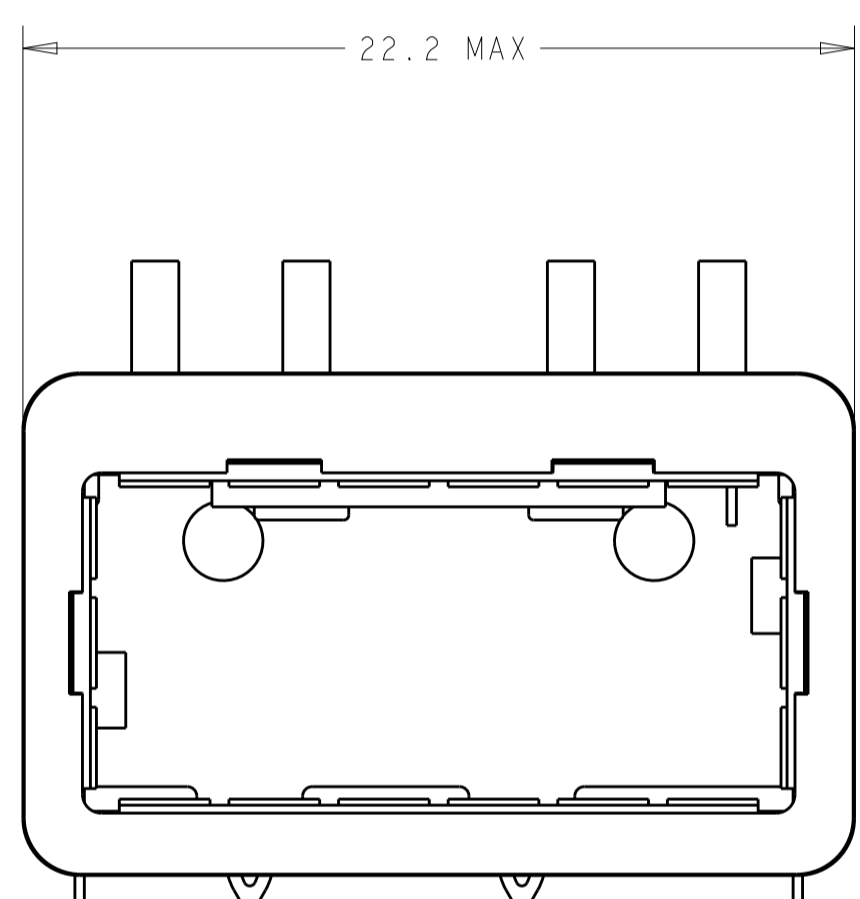


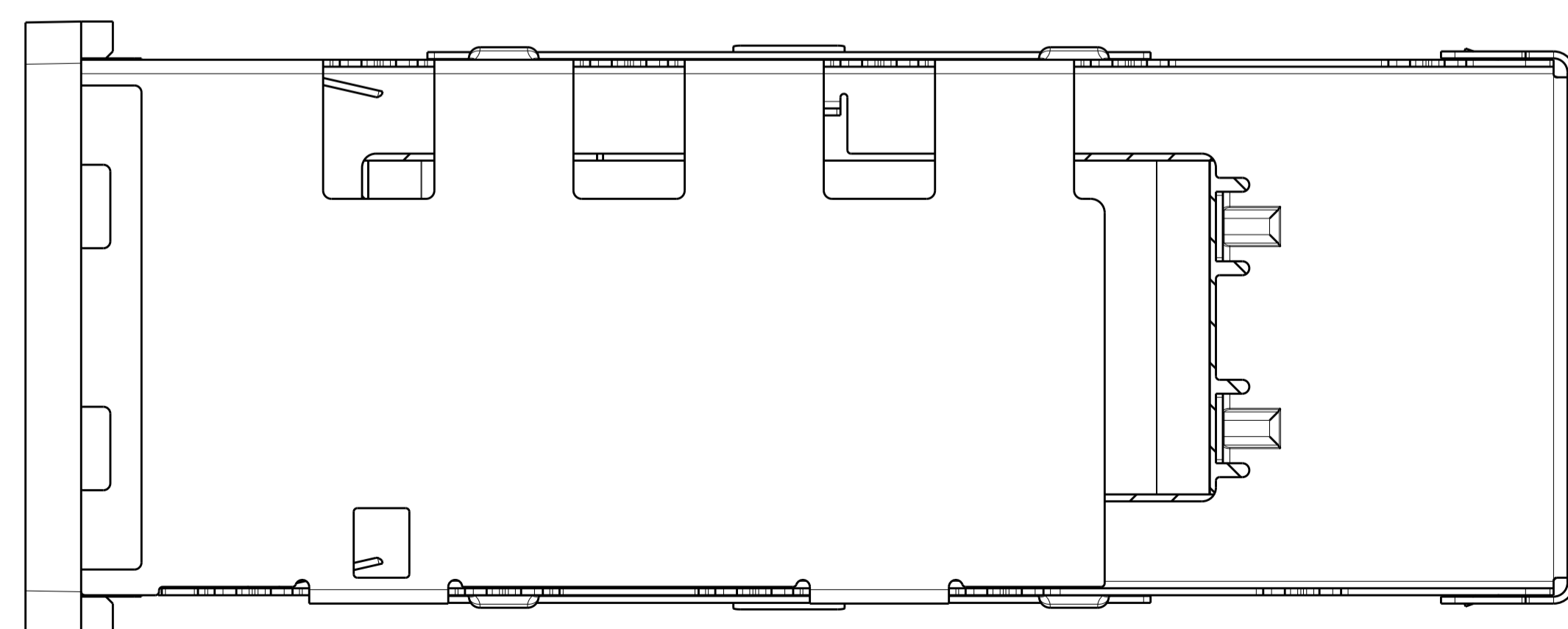
LOC	DIST	REVISIONS					
		P	LTN	DESCRIPTION	DATE	DWN	APVD
GP	00	A		RELEASED PER ECO-13-000076	17JAN2013	CJV	EDB



- 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.



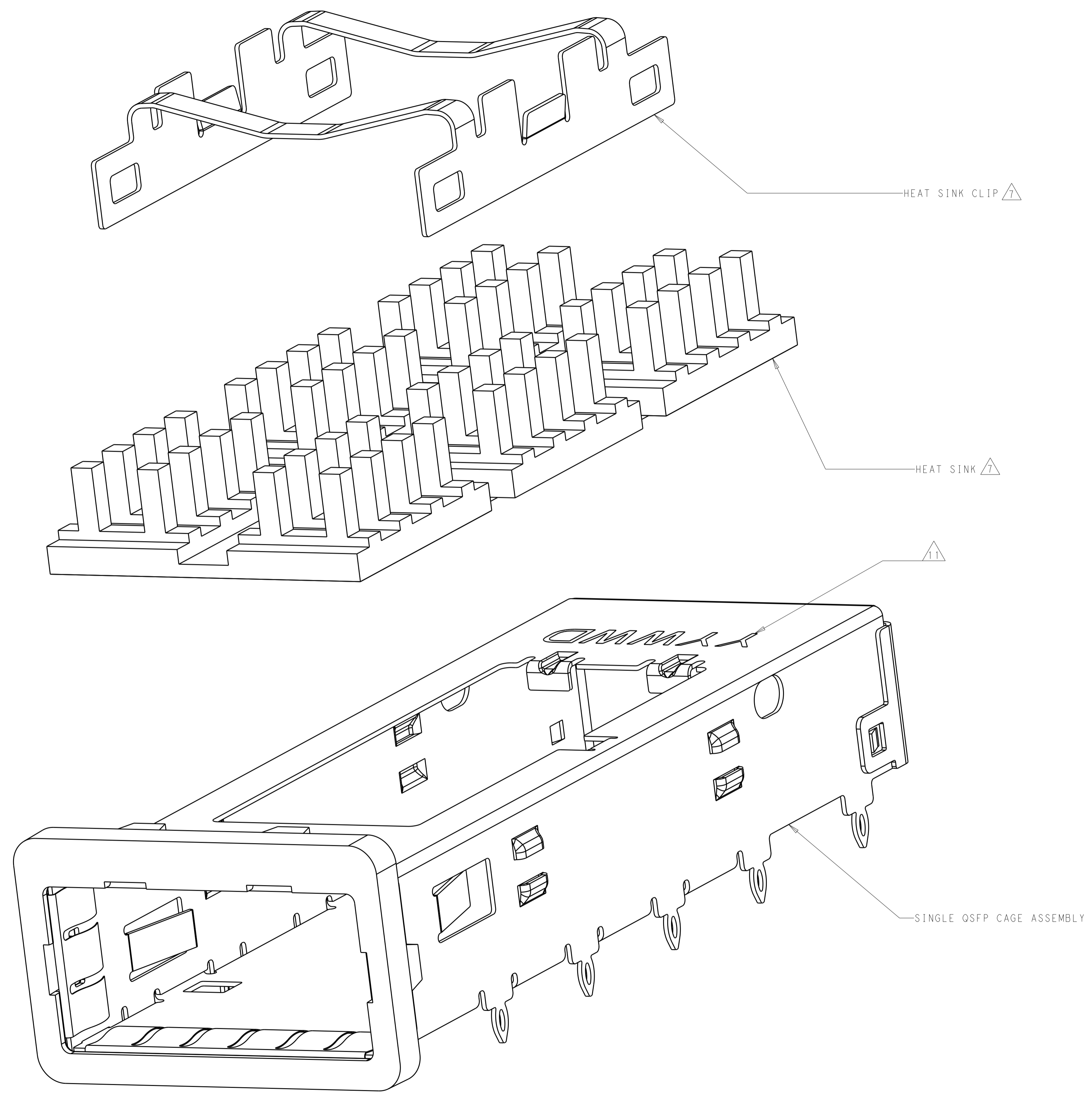
DETAIL J
 SCALE 20:1



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: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK	
0 PLC ±0.13 1 PLC ±0.13 2 PLC ±0.13 3 PLC ±0.13 4 PLC ±0.13 ANGLES ±0.13		FINISH		SIZE A100779C=1551892	
MATERIAL		FINISH		RESTRICTED TO	
CUSTOMER DRAWING		SCALE 5:1		SHEET 1 OF 5 REV A	

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

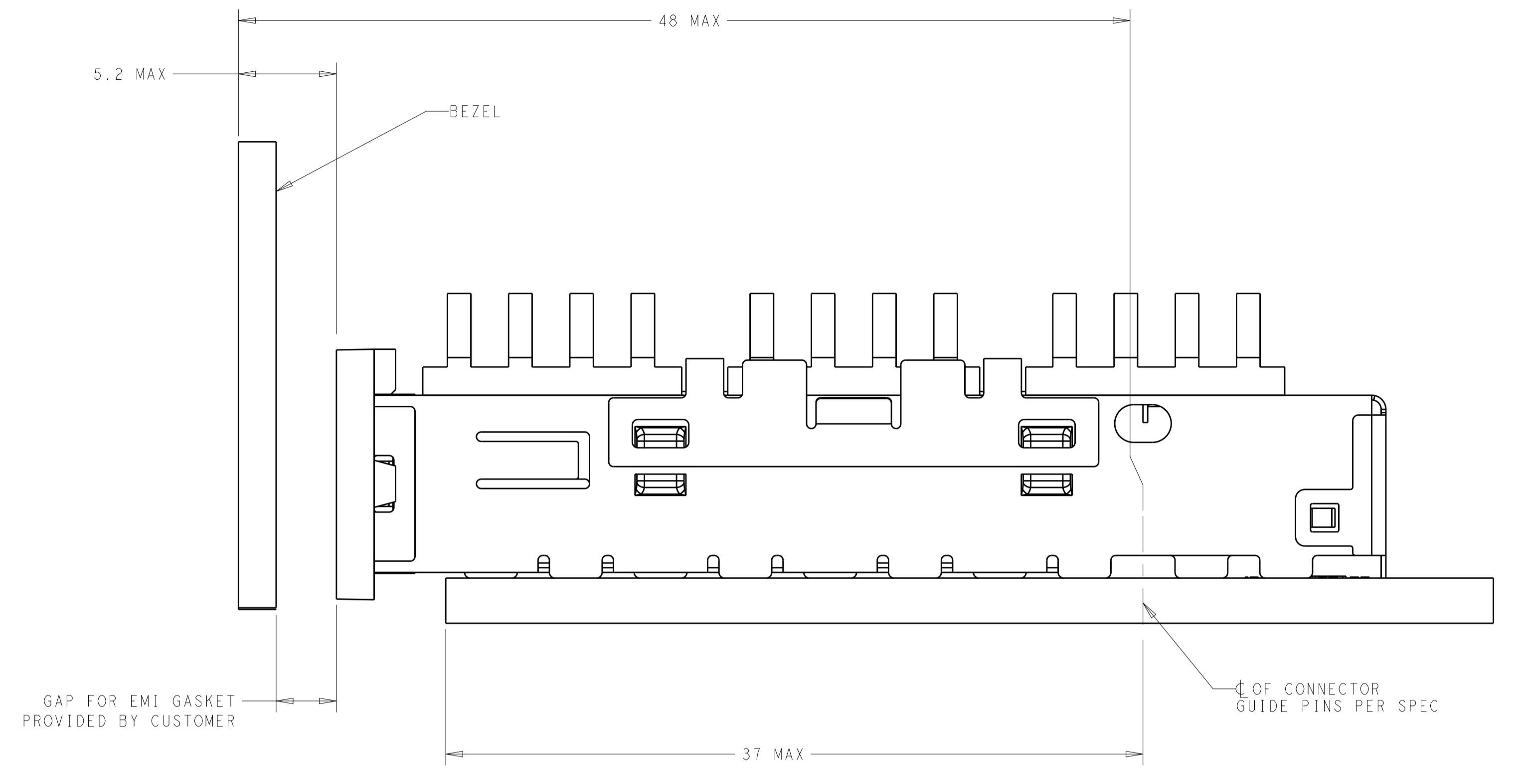
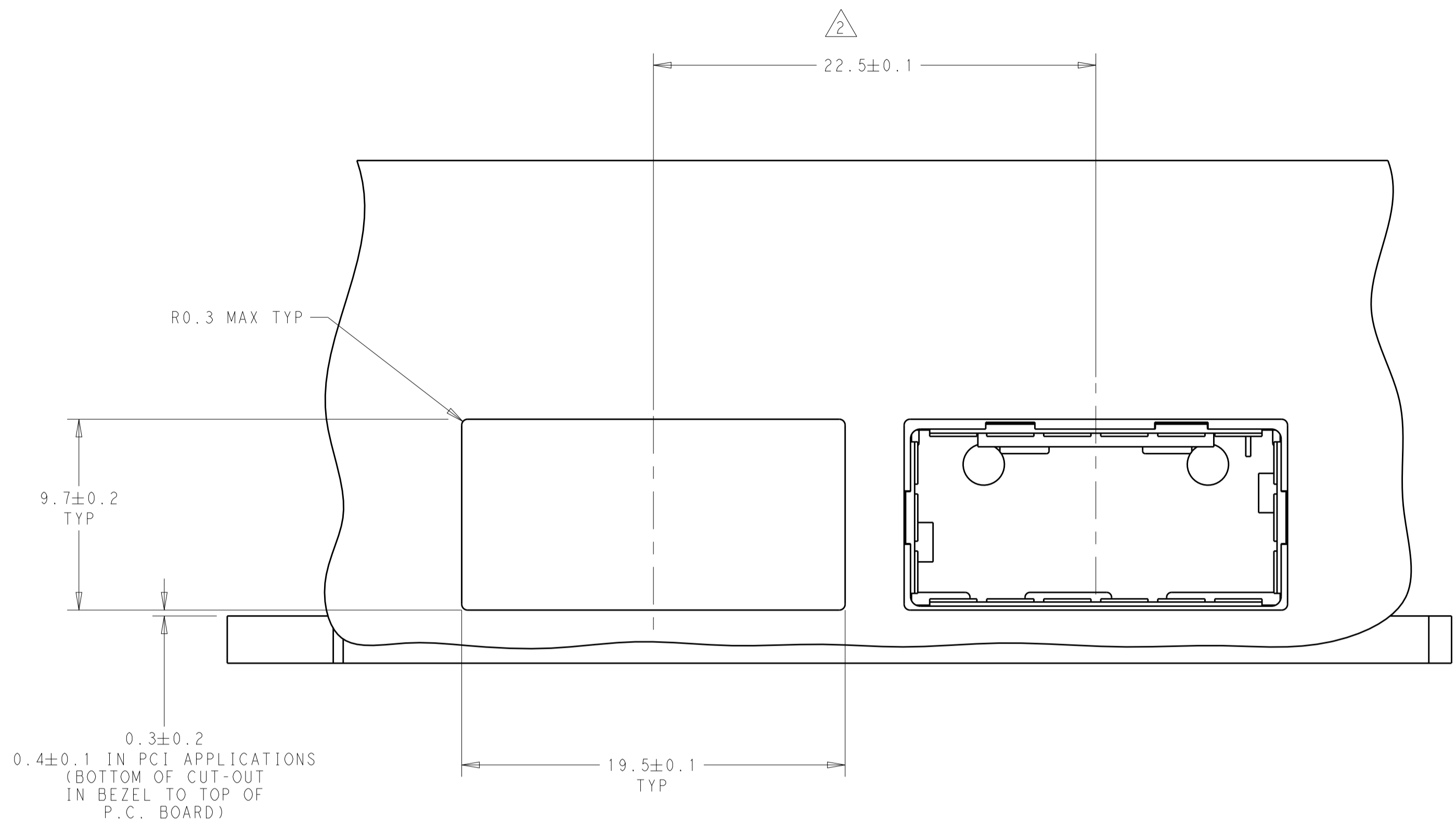


EXPLODED VIEW
SCALE 8:1

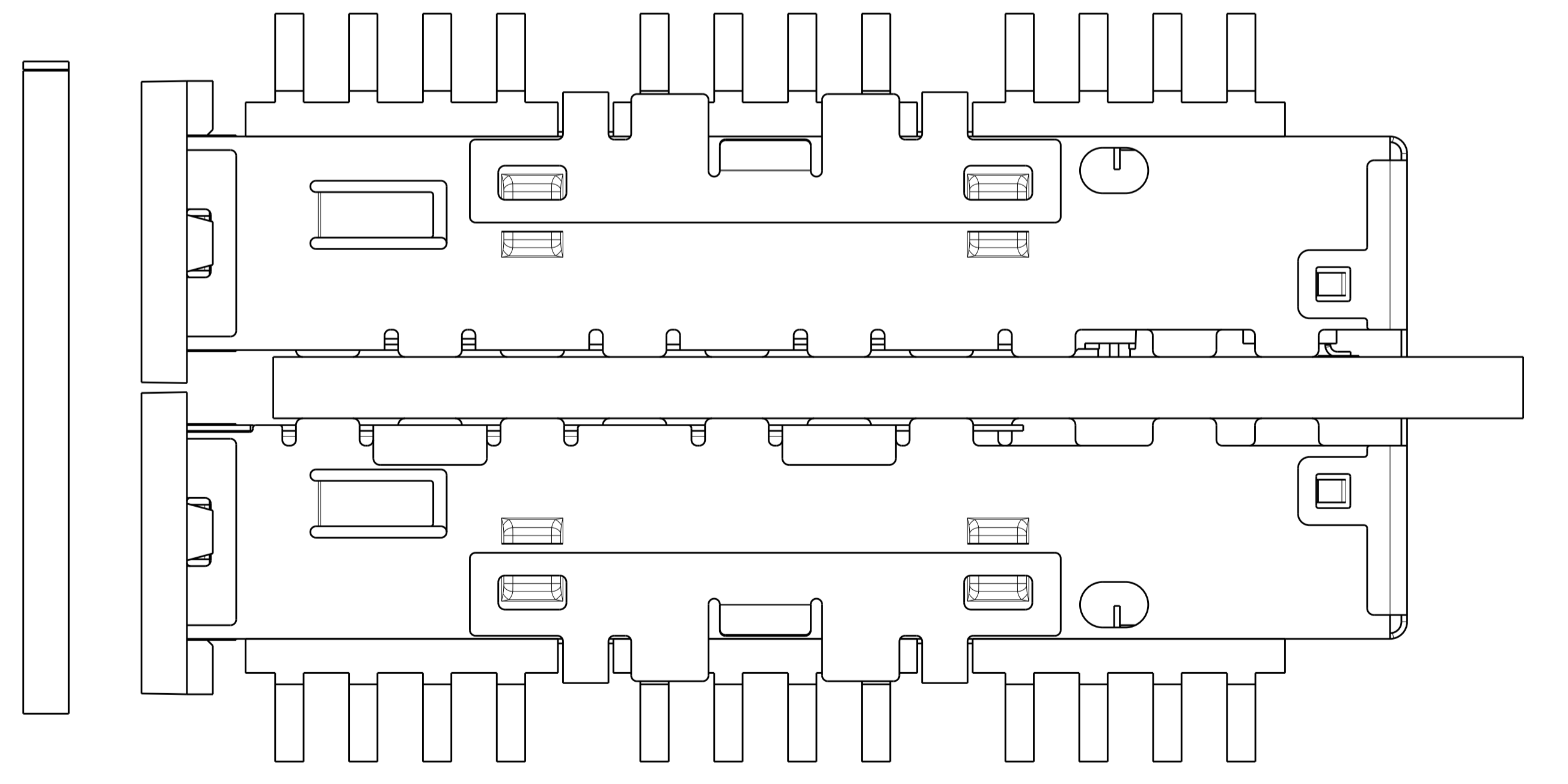
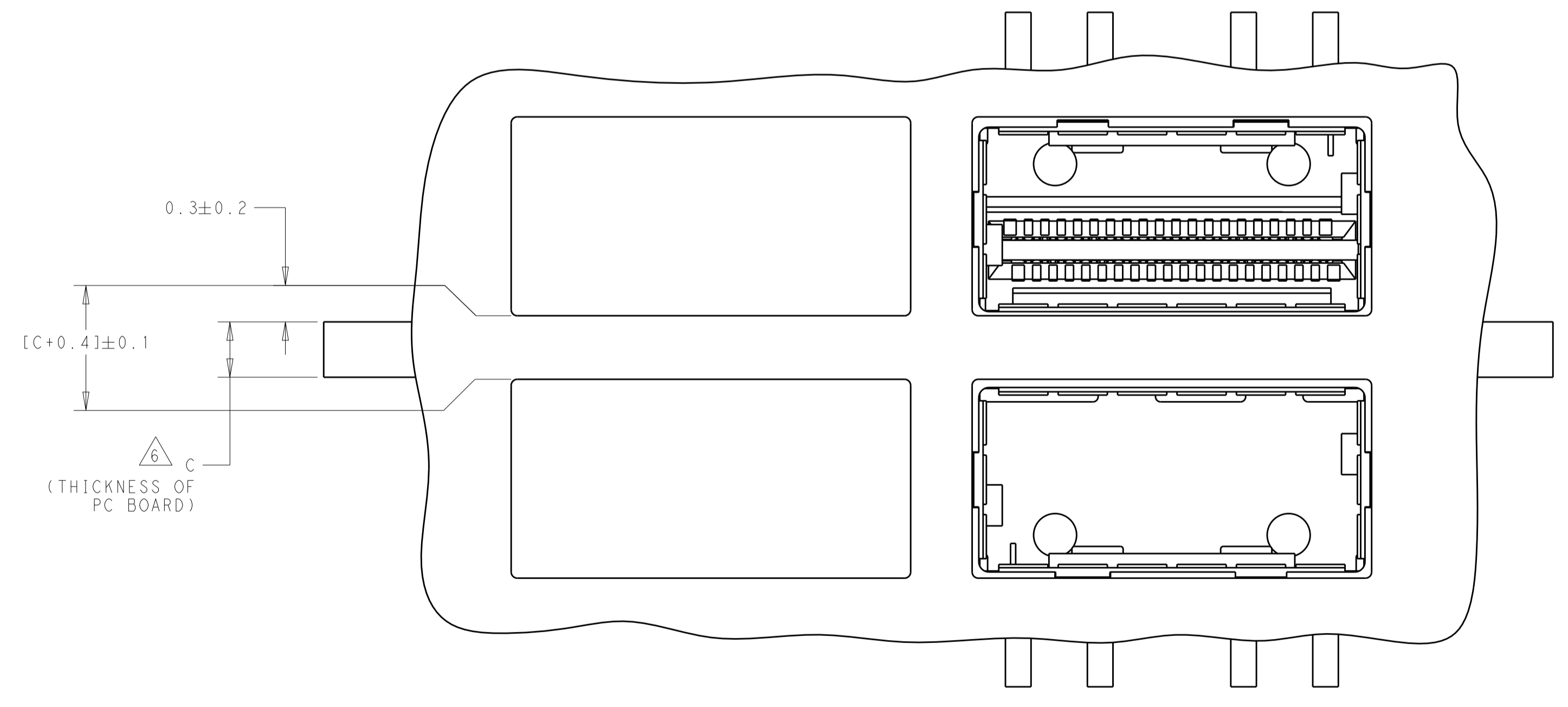
THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DMN E. ZIJLSTRA 08NOV2010	TE Connectivity	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK R. VERBEET 08NOV2010		
DIMENSIONS:	mm	APVD T. D. ROER 08NOV2010	NAME CAGE ASSEMBLY, BEHIND BEZEL, ZQSFP, WITH HEAT SINK	
0 PLC	±0.13	PRODUCT SPEC	-	
1 PLC	±0.13	APPLICATION SPEC	-	
2 PLC	±0.13	WEIGHT	-	
3 PLC	±0.13	SIZE	A100779C=1551892	
4 PLC	±0.13	RESTRICTED TO	-	
ANGLES	±0.13	CUSTOMER DRAWING	SCALE 5:1 SHEET 2 OF 5 REV A	
MATERIAL	FINISH			

LOC	DIST	REV	DATE	BY	APPD
GP	00				

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



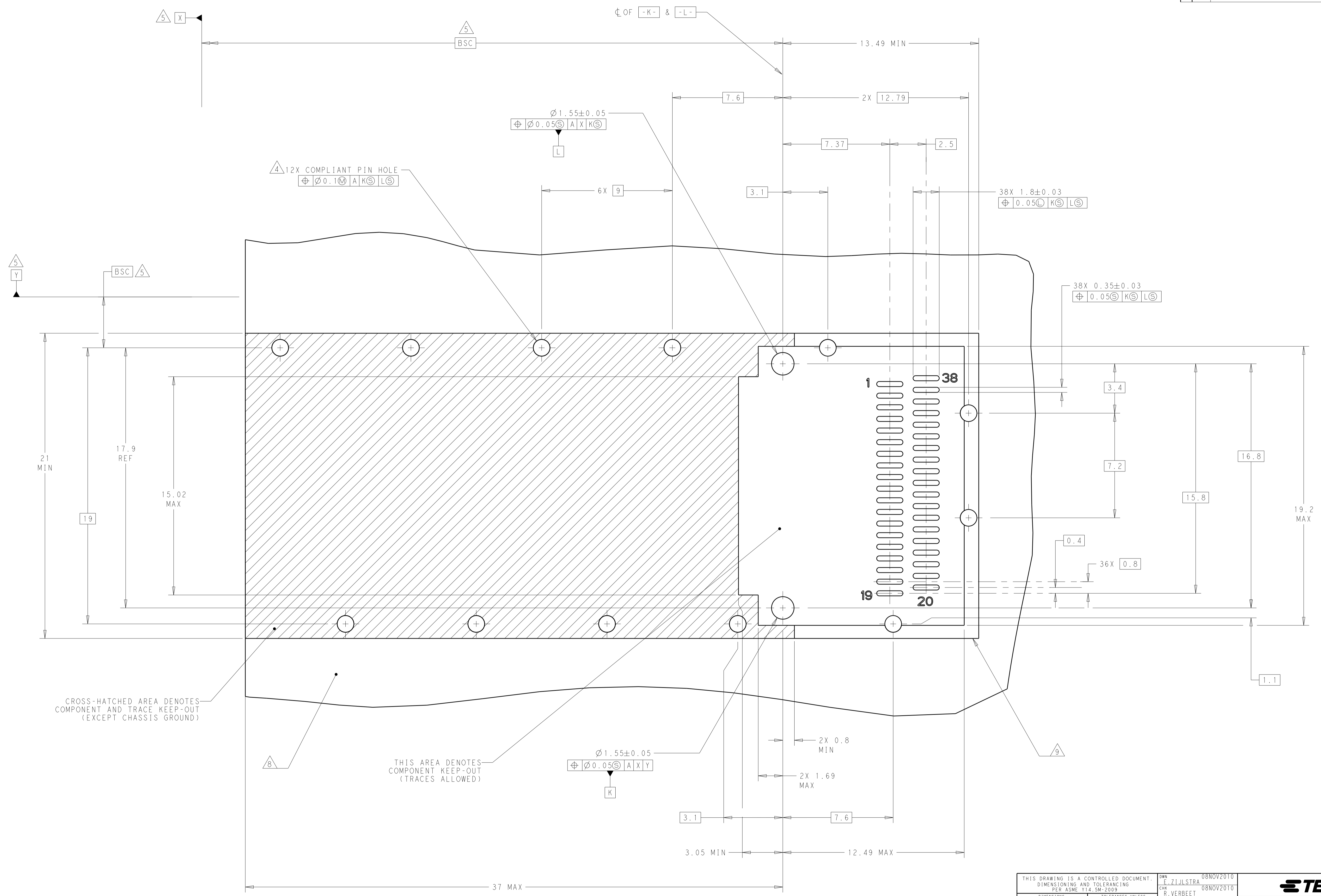
ONE SIDED CONFIGURATION



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 APVD T.D.ROER 08NOV2010	 TE Connectivity NAME CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	
0 PLC ±0.13	1 PLC ±0.13	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO
2 PLC ±0.13	3 PLC ±0.13	FINISH	A100779C=1551892
4 PLC ±0.13	ANGLES ±0.13	MATERIAL	RESTRICTED TO
CUSTOMER DRAWING		WEIGHT	SCALE 5:1 SHEET 3 OF 5 REV A

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



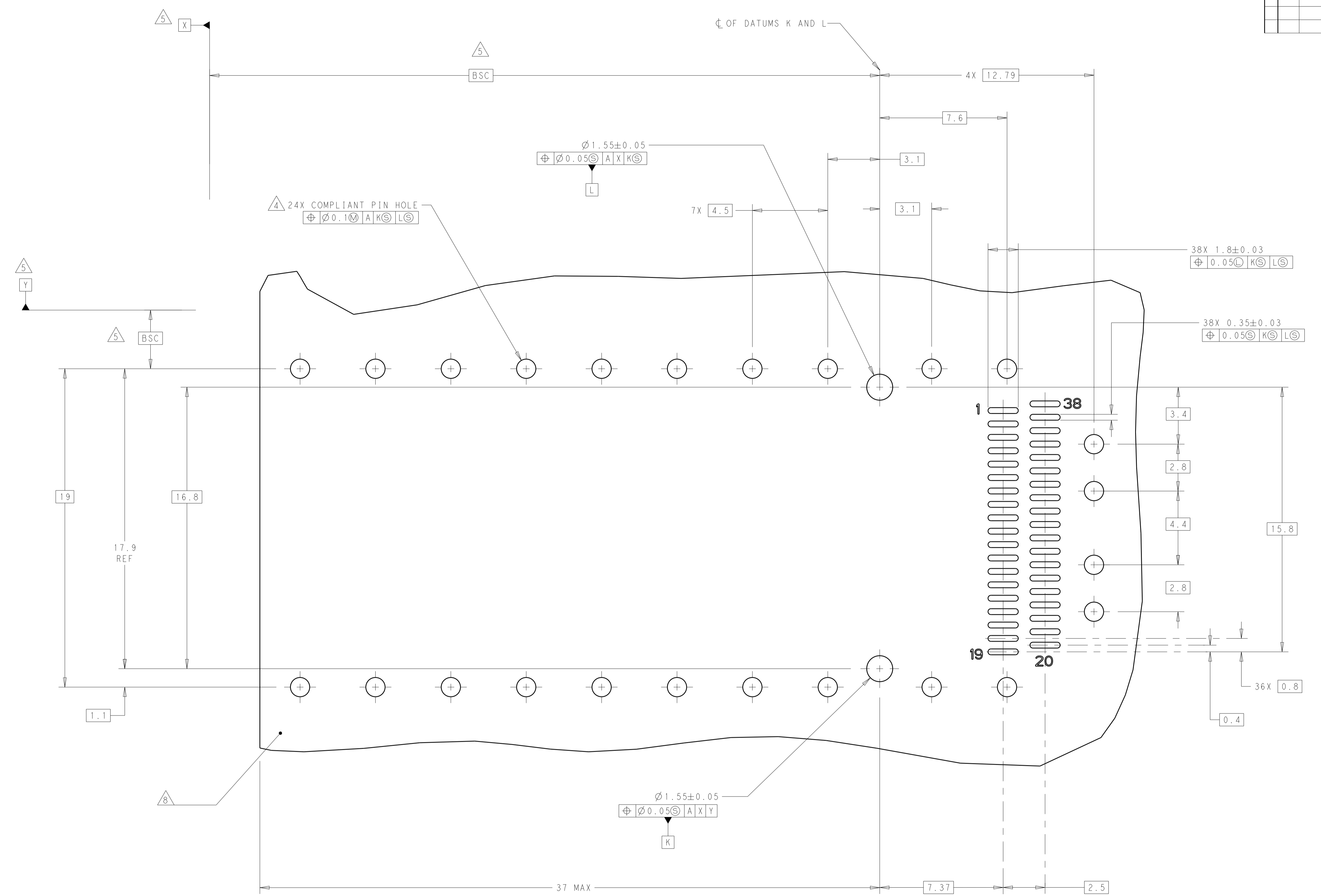
CROSS-HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

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		DWN E. ZIJLSTRA 08NOV2010	CHK R. VERBEET 08NOV2010	APVD T. D. ROER 08NOV2010	NAME CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK
DIMENSIONS: mm	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	PRODUCT SPEC	APPLICATION SPEC	SIZE A100779	RESTRICTED TO
MATERIAL	FINISH	WEIGHT	CAGE CODE 1551892	SCALE 4:1	SHEET 4 OF 5
CUSTOMER DRAWING				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	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	NAME CAGE ASSEMBLY, BEHIND BEZEL, ZOSFP, WITH HEAT SINK	
0 PLC ±0.13	1 PLC ±0.13	APPLICATION SPEC	SIZE A1	CAGE CODE DRAWING NO 00779
2 PLC ±0.13	3 PLC ±0.13	WEIGHT	SCALE 4:1	SHEET 5 OF 5
4 PLC ±0.13	ANGLES ±0.13	CUSTOMER DRAWING	REV A	