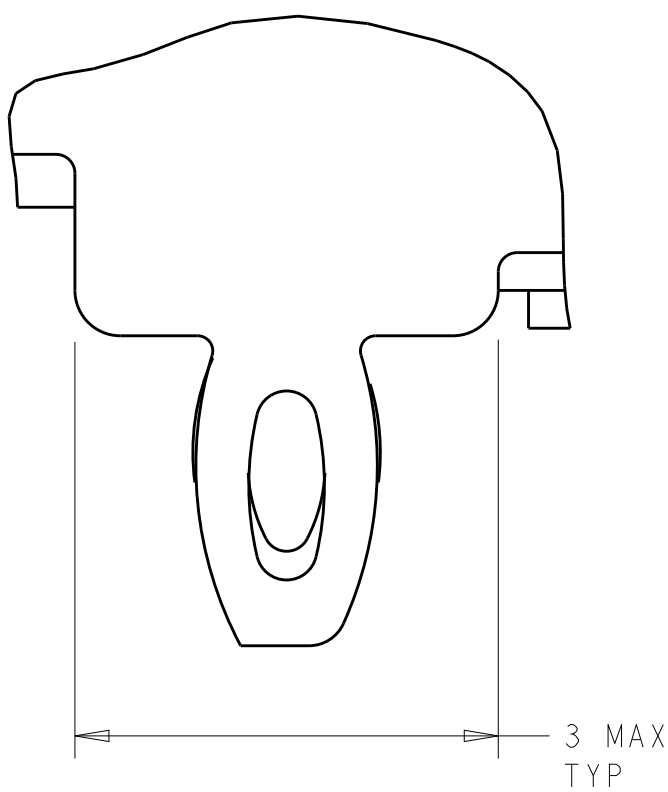
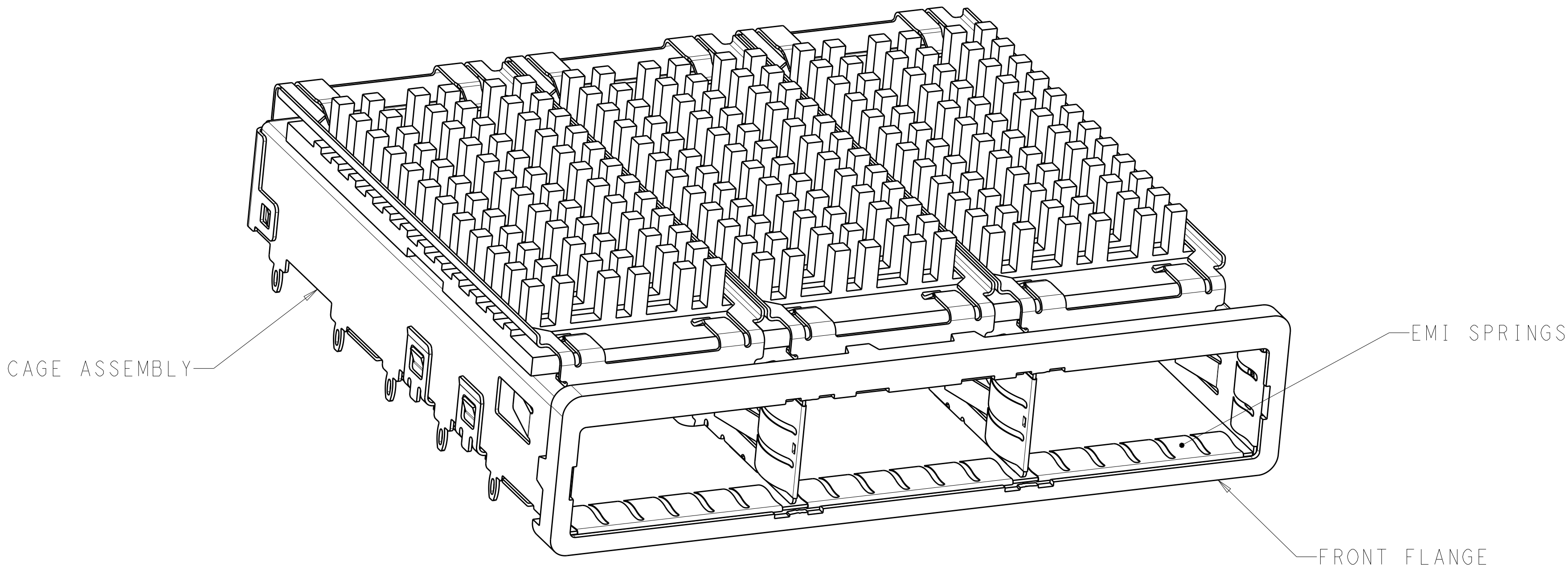
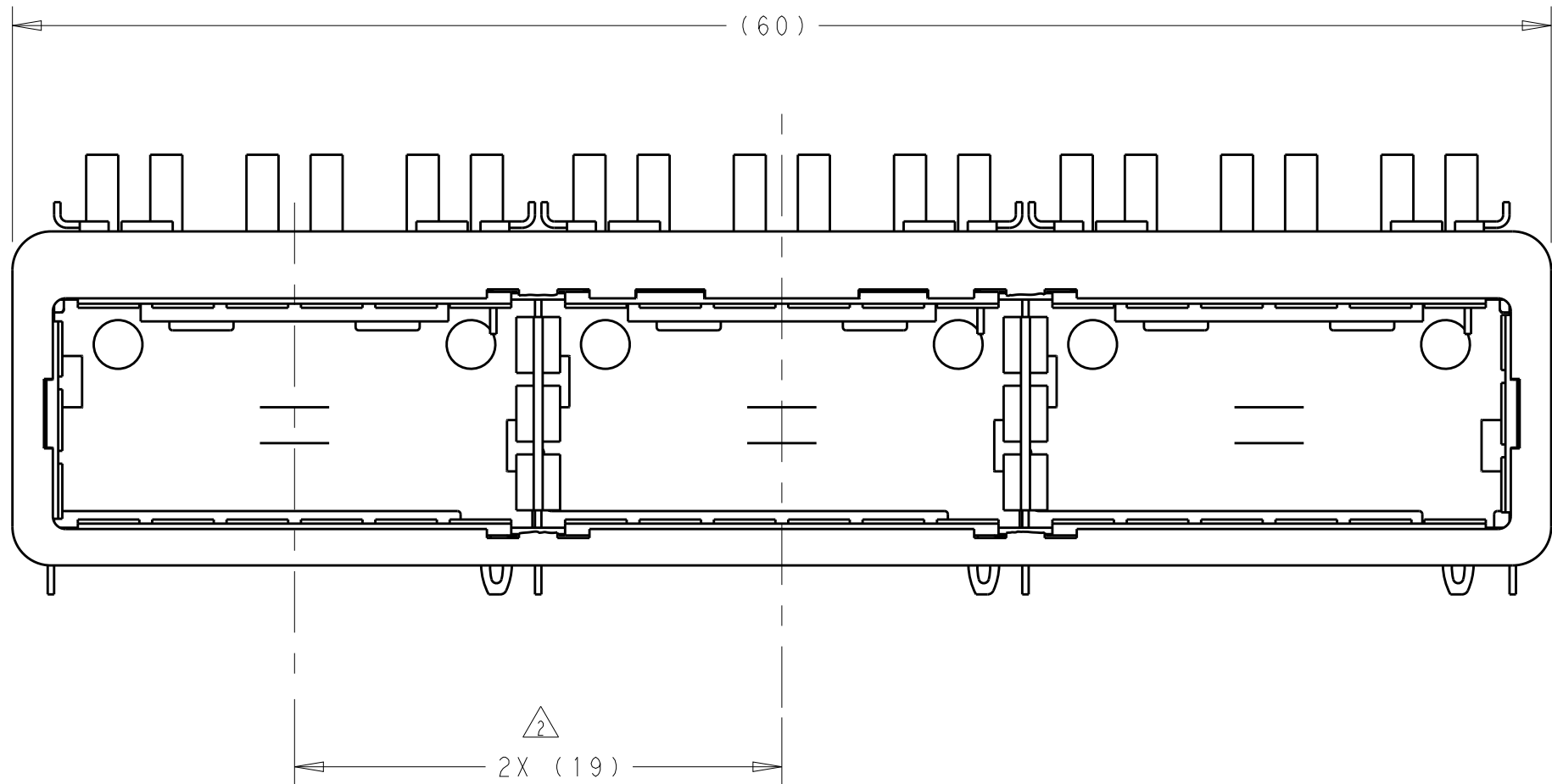
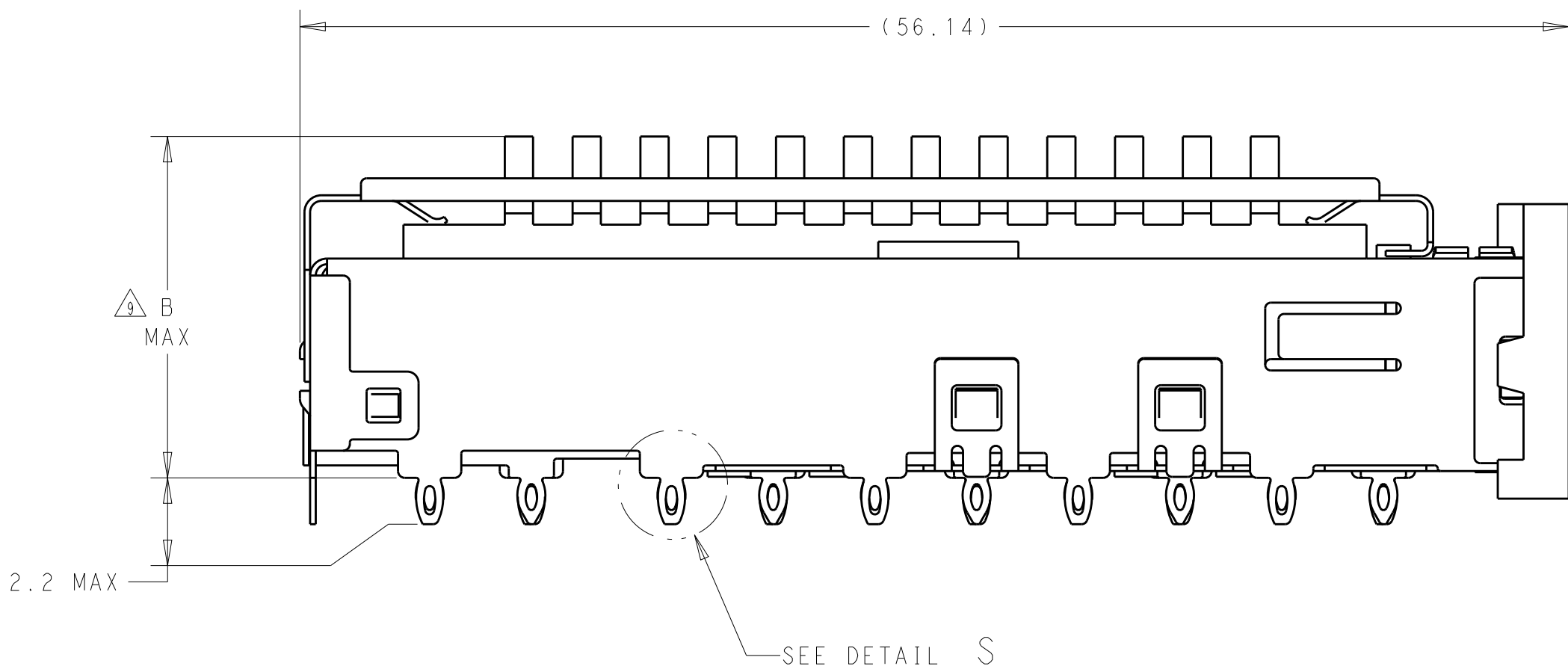




DETAIL S
SCALE 20:1



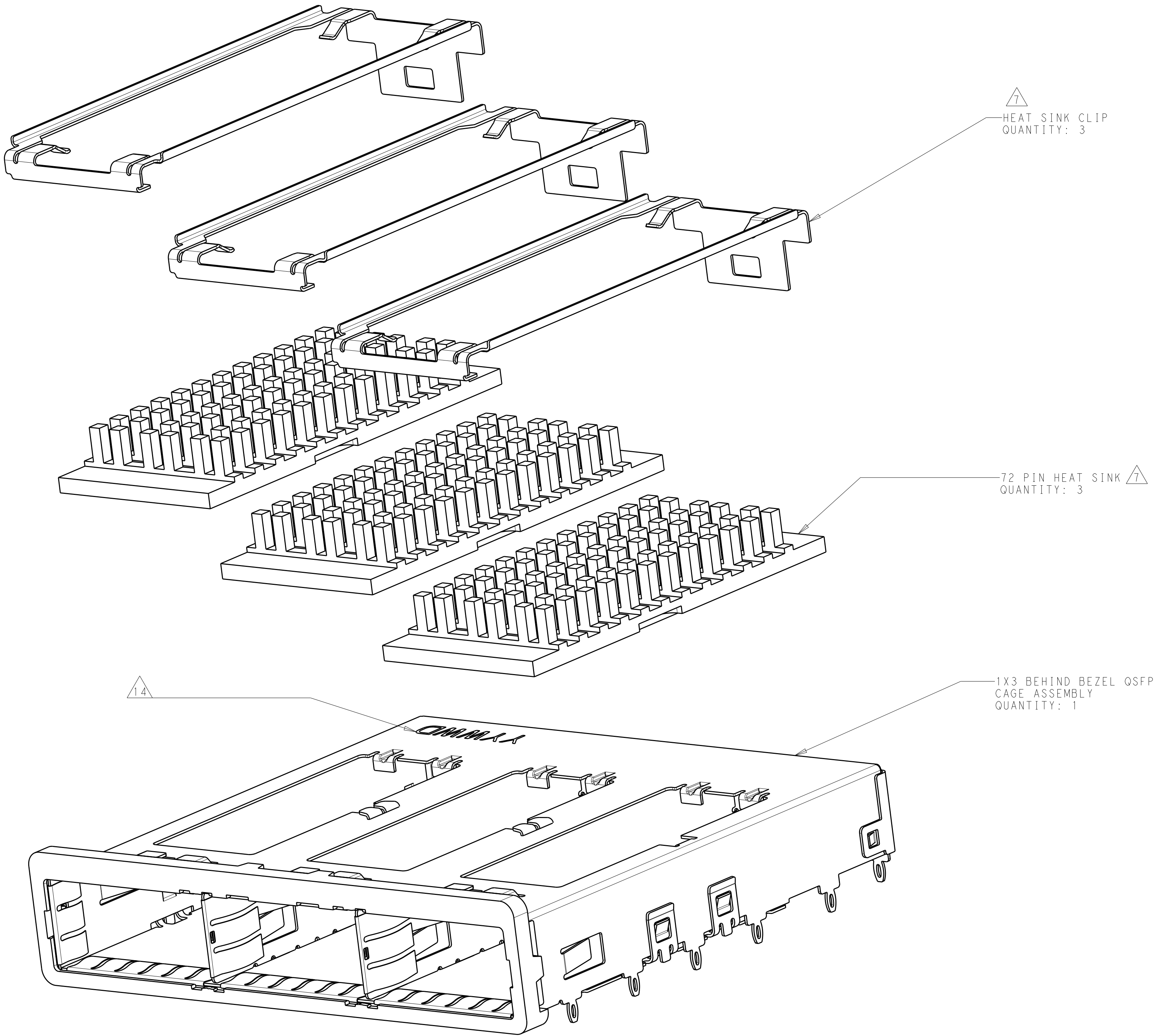
- ⚠ MATERIALS:
CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
EMI SPRINGS: COPPER ALLOY
FRONT FLANGE: ZINC ALLOY
HEAT SINK: ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
- ⚠ PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- ⚠ SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- ⚠ REFERENCE APPLICATION SPEC 114- - - - - FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- ⚠ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- ⚠ DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
MINIMUM SINGLE SIDED PC BOARD THICKNESS: 1.45mm
MINIMUM DOUBLE SIDED PC BOARD THICKNESS: 2.2mm PER QSFP
- ⚠ HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY.
CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- ⚠ DATUM A IS TOP SURFACE OF PC BOARD.
- ⚠ DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- ⚠ UNPLATED THRU HOLE.
- ⚠ MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- ⚠ SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- ⚠ BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- ⚠ DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.
- ⚠ REFERENCE APP SPEC 114- - - - - FOR GASKET THICKNESS CALCULATION.
- ⚠ FINISH:
EMI SPRINGS: 2µm MINIMUM TIN
FRONT FLANGE: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL
OVER 5.08µm MINIMUM COPPER
HEAT SINK: NICKEL.

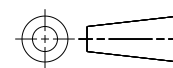
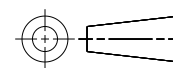
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		A	RELEASED PER ECO-13-000076	16JAN2013	CJV	EDB

23.0	NETWORKING	2173239-3
16.0	SAN	2173239-2
13.7	PCI	2173239-1
B	HEAT SINK PROFILE	PART NUMBER

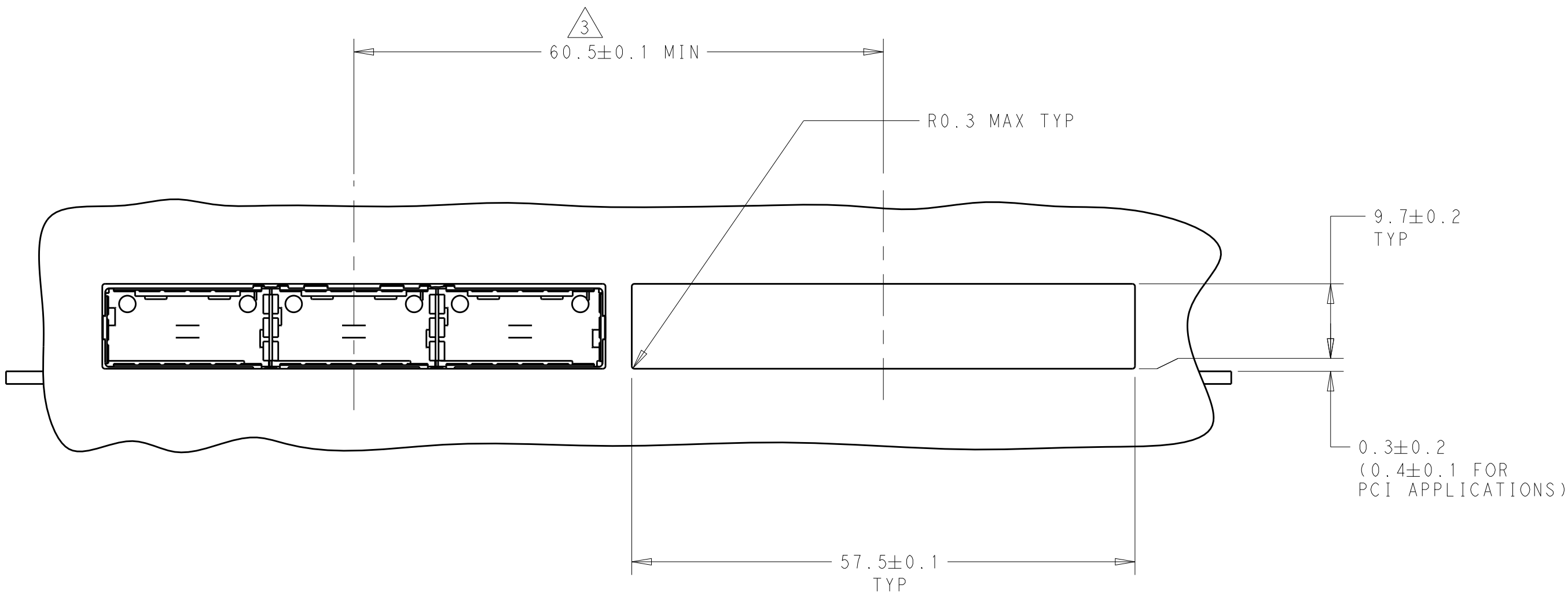
THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.3M-2009		DWN J.V.D.HEIJDEN 12AUG2011	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, zQSFP+	
		CHK R.VERBEET 12AUG2011		
DIMENSIONS: mm		APVD T.D.ROER 15AUG2011	PRODUCT SPEC	
			108- - - - -	
			APPLICATION SPEC	
			114- - - - -	
MATERIAL		FINISH	WEIGHT	
			-	
CUSTOMER DRAWING		SCALE 1:1		SHEET 1 OF 5
				REV A

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

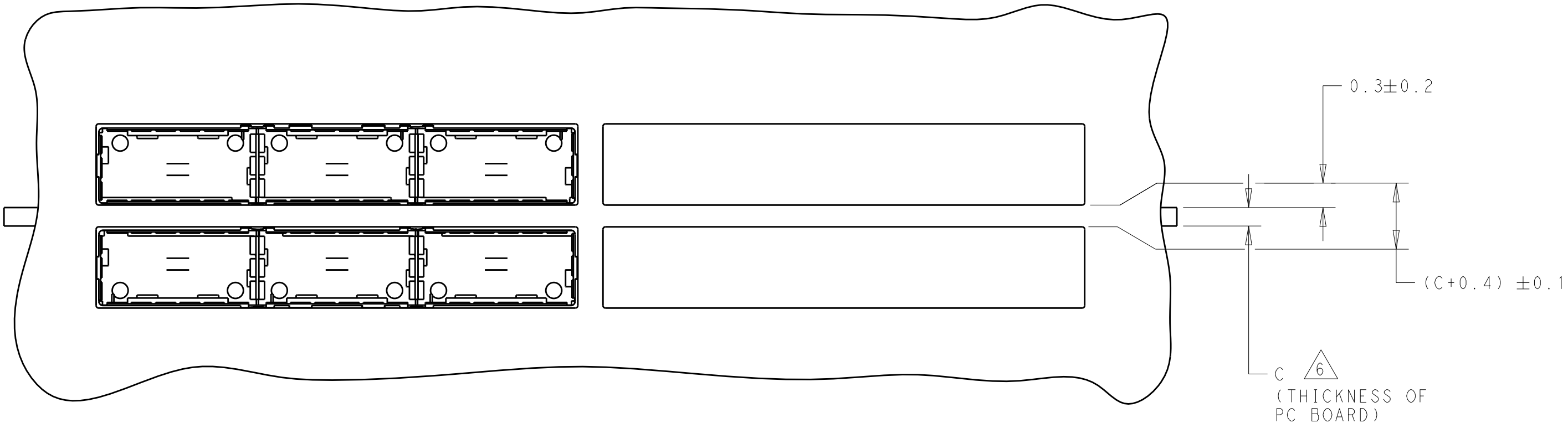
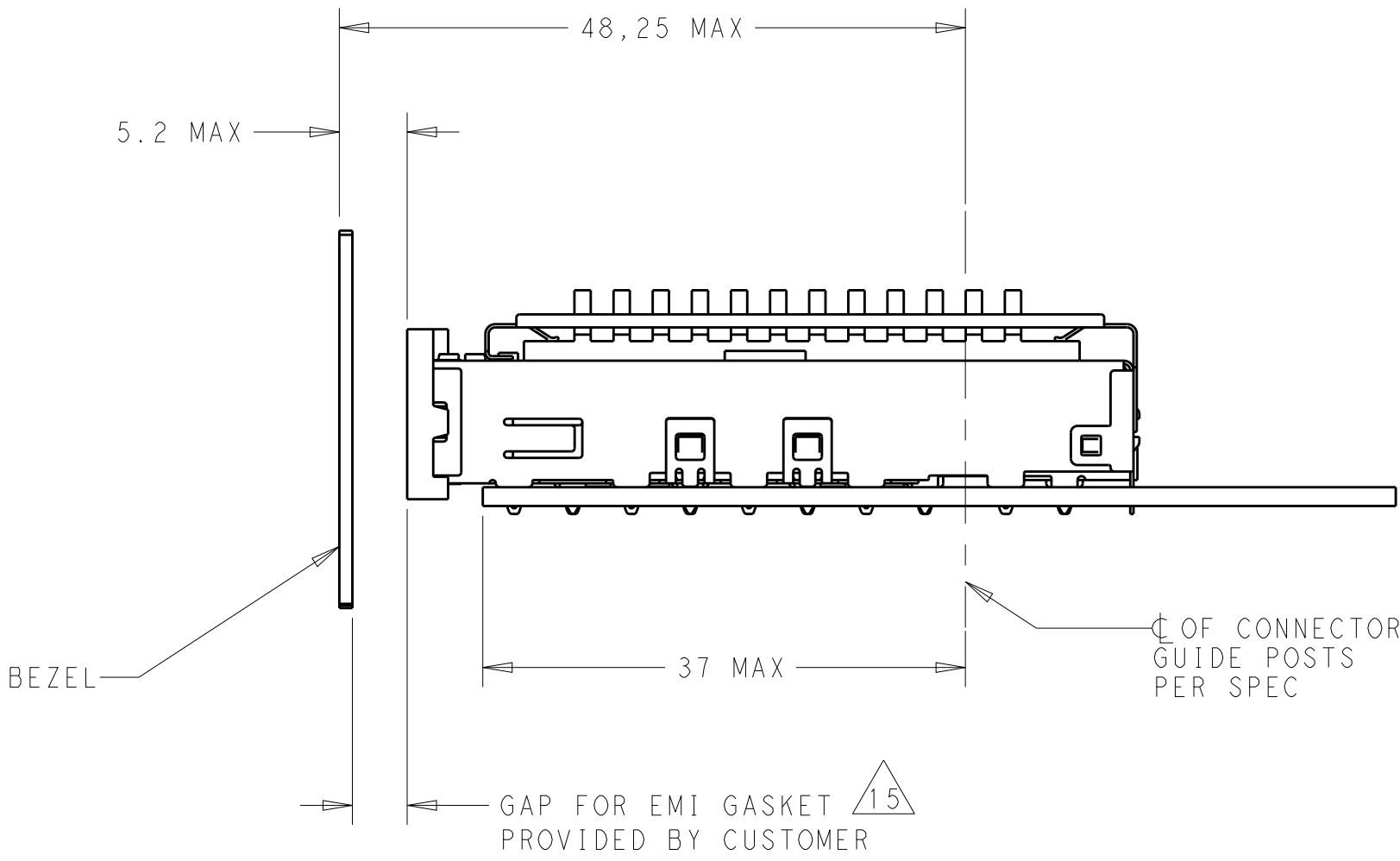


THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWN J.V.D.HEIJDEN 12AUG2011	 TE Connectivity	
		CHK R.VERBEET 12AUG2011		
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, zQSFP+ -
		0. PLC ±0.1 2. PLC ±0.1 3. PLC ±0.013 4. PLC ±0.0001 ANGLES ± FINISH		
MATERIAL		PRODUCT SPEC 108- APPLICATION SPEC 114- WEIGHT -		SIZE A100779
		RESTRICTED TO -		
CUSTOMER DRAWING				SCALE 1:1 SHEET 2 OF 5 REV A

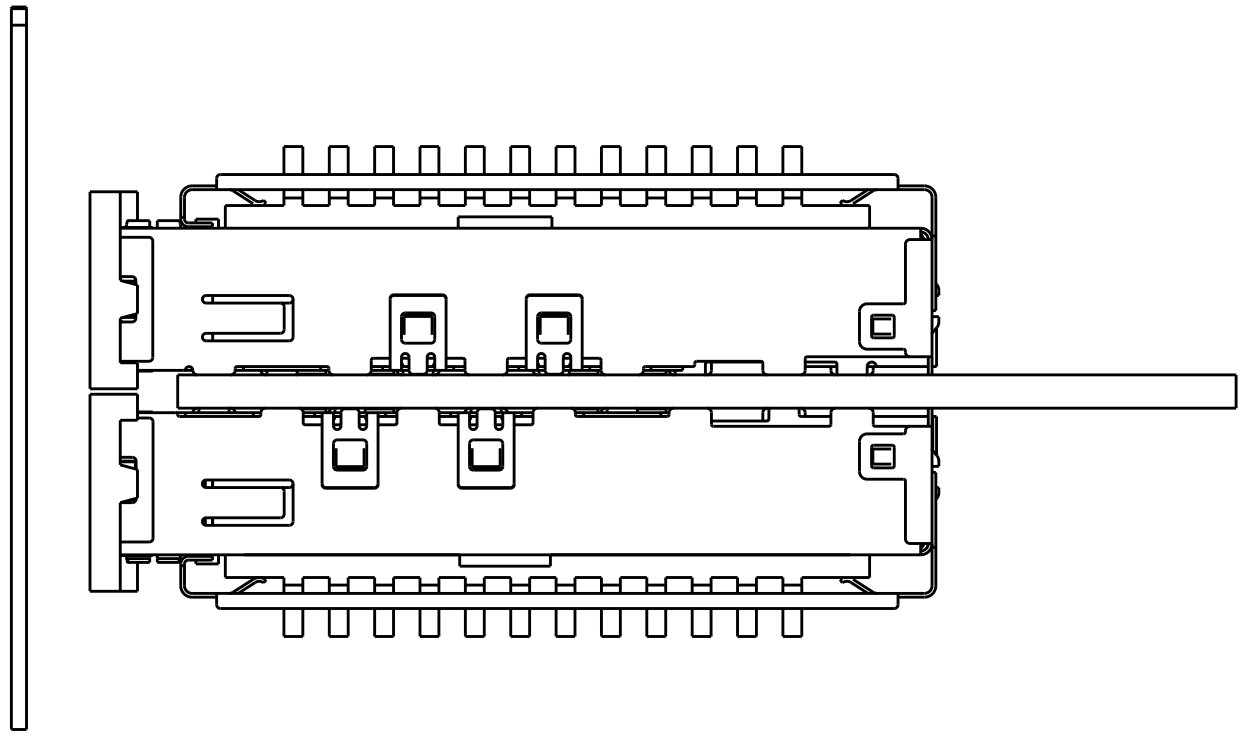
LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-	-	SEE SHEET 1	-	-	-



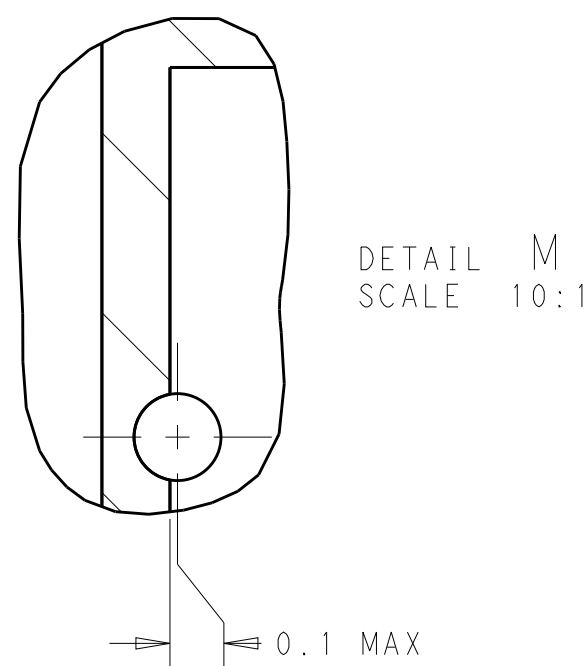
ONE SIDED CONFIGURATION
SCALE 2:1

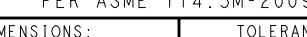


BELLY TO BELLY CONFIGURATION SIMILAR
TO ONE SIDED EXCEPT WHERE NOTED
SCALE 2:1

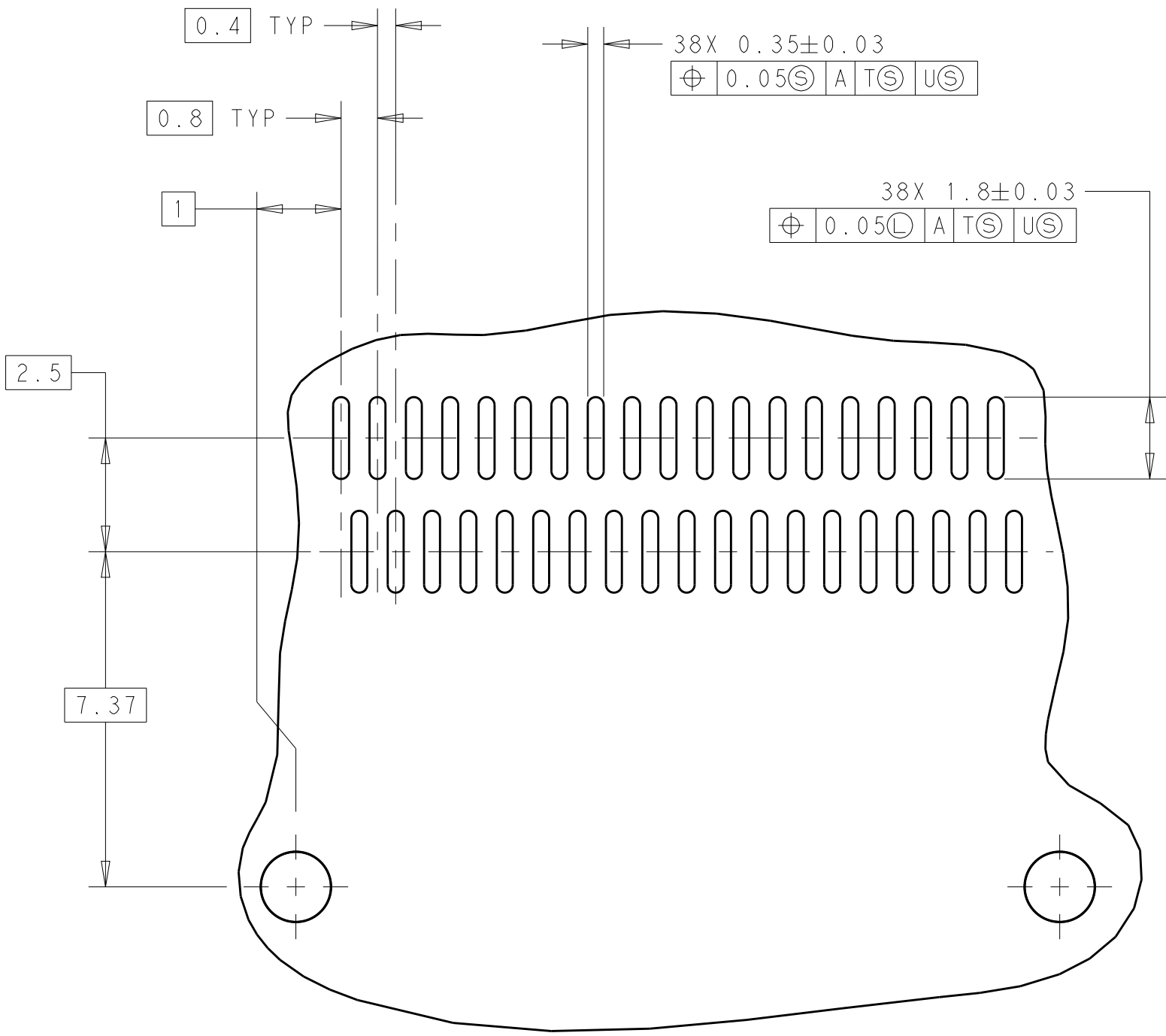
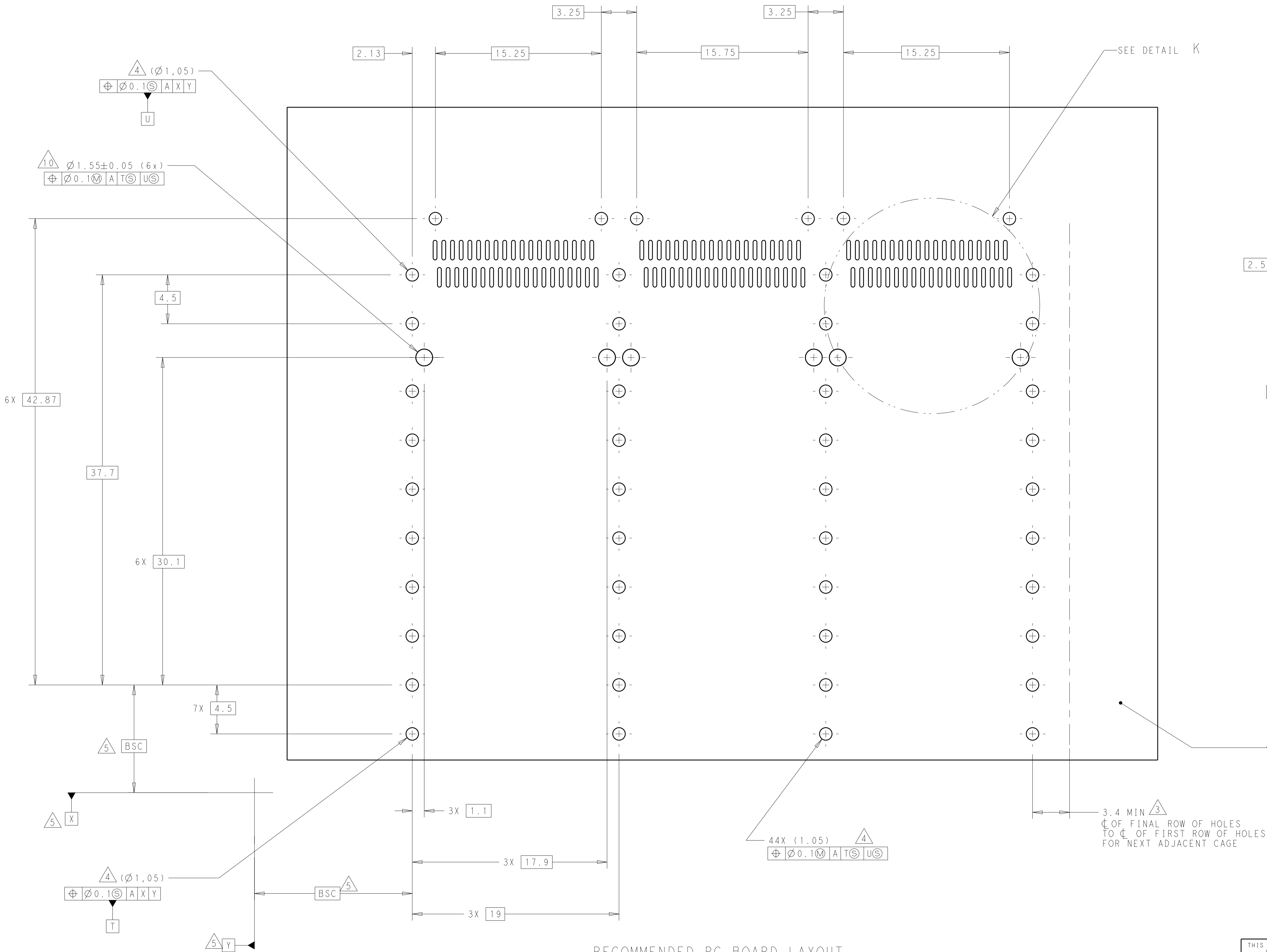


THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009				DWN J.V.D. HEIJDEN 12AUG2011	TE Connectivity			
TOLERANCES UNLESS OTHERWISE SPECIFIED:				CHK R. VERBEET 12AUG2011				
DIMENSIONS:				APVD T.D. ROER 15AUG2011	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, zQSFP+			
mm				PRODUCT SPEC	SIZE			
0 PLC ±.1				108-	CAGE CODE			
1 PLC ±0.1				APPLICATION SPEC	DRAWING NO			
2 PLC ±0.1				114-	A100779			
3 PLC ±0.013				WEIGHT	C=2173239			
4 PLC ±0.0001				CUSTOMER DRAWING	SCALE			
ANGLES FINISH				4:1	SHEET			
				3	OF			
				5	REV			
				A				



THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWG V.D.HELJEDEN CHK R.VERBEET 12 AUG 2011 15 AUG 2011		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.001 ANGLES ±		NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, zOSFP+	
		PRODUCT SPEC 108-		SIZE CASE CODE DRAWING NO A100779C-2173239	
MATERIAL FINISH		APPLICATION SPEC 114-		RESTRICTED TO -	
		WEIGHT -		CUSTOMER DRAWING SCALE 1:1 SHEET 4 OF 5 REV A	

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



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT
AND TRACE KEEP-OUTS
SCALE 5:1

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWN J.V.D.HEIJDEN 12AUG2011	NAME	
DIMENSIONS: mm		CHK R.VERBEET 12AUG2011	1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, zQSPF+	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD T.D.ROER 15AUG2011	SIZE	
0 PLC ±.1		PRODUCT SPEC	CAGE CODE	
1 PLC ±0.1		APPLICATION SPEC	DRAWING NO	
2 PLC ±0.1		114- - - - -	RESTRICTED TO	
3 PLC ±0.013		WEIGHT	A100779	
4 PLC ±0.0001		CUSTOMER DRAWING	SCALE 1:1	
ANGLES			SHEET 5 OF 5	
FINISH			REV A	