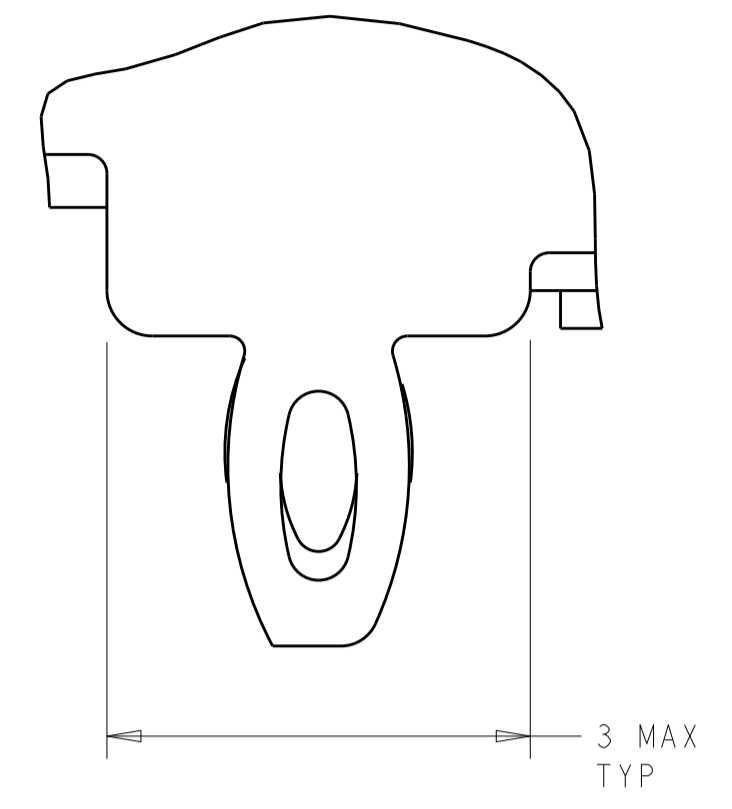
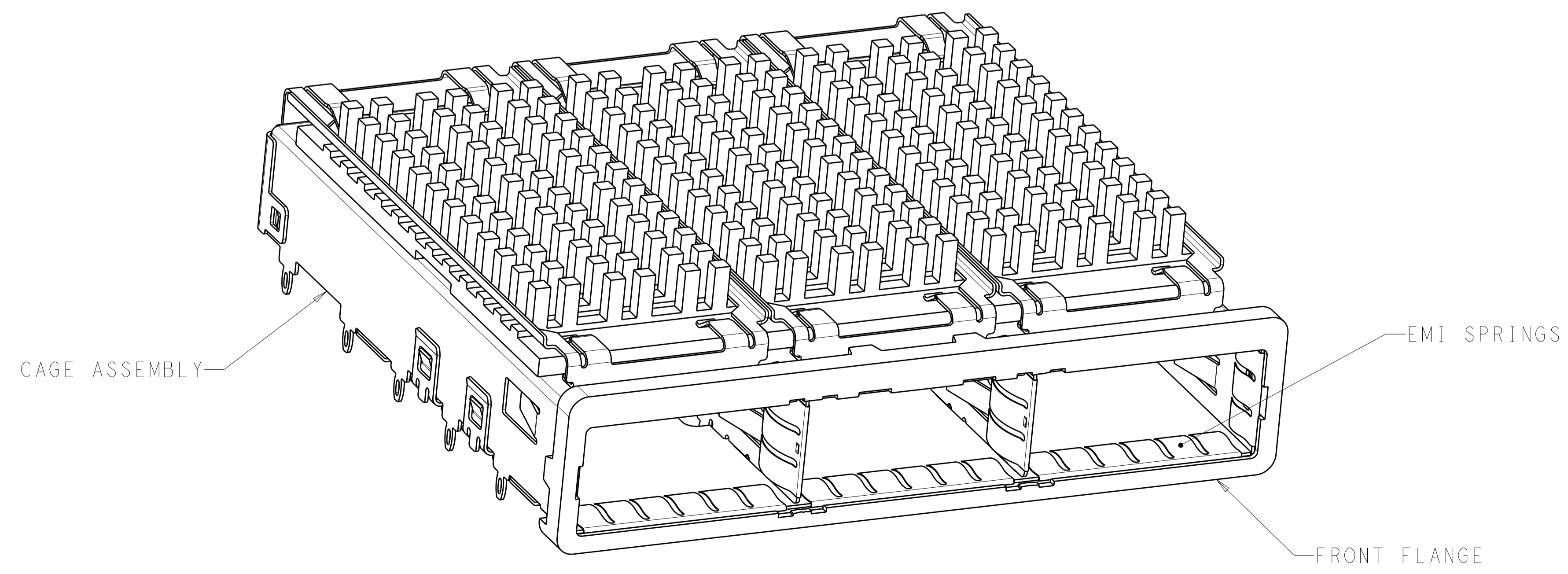
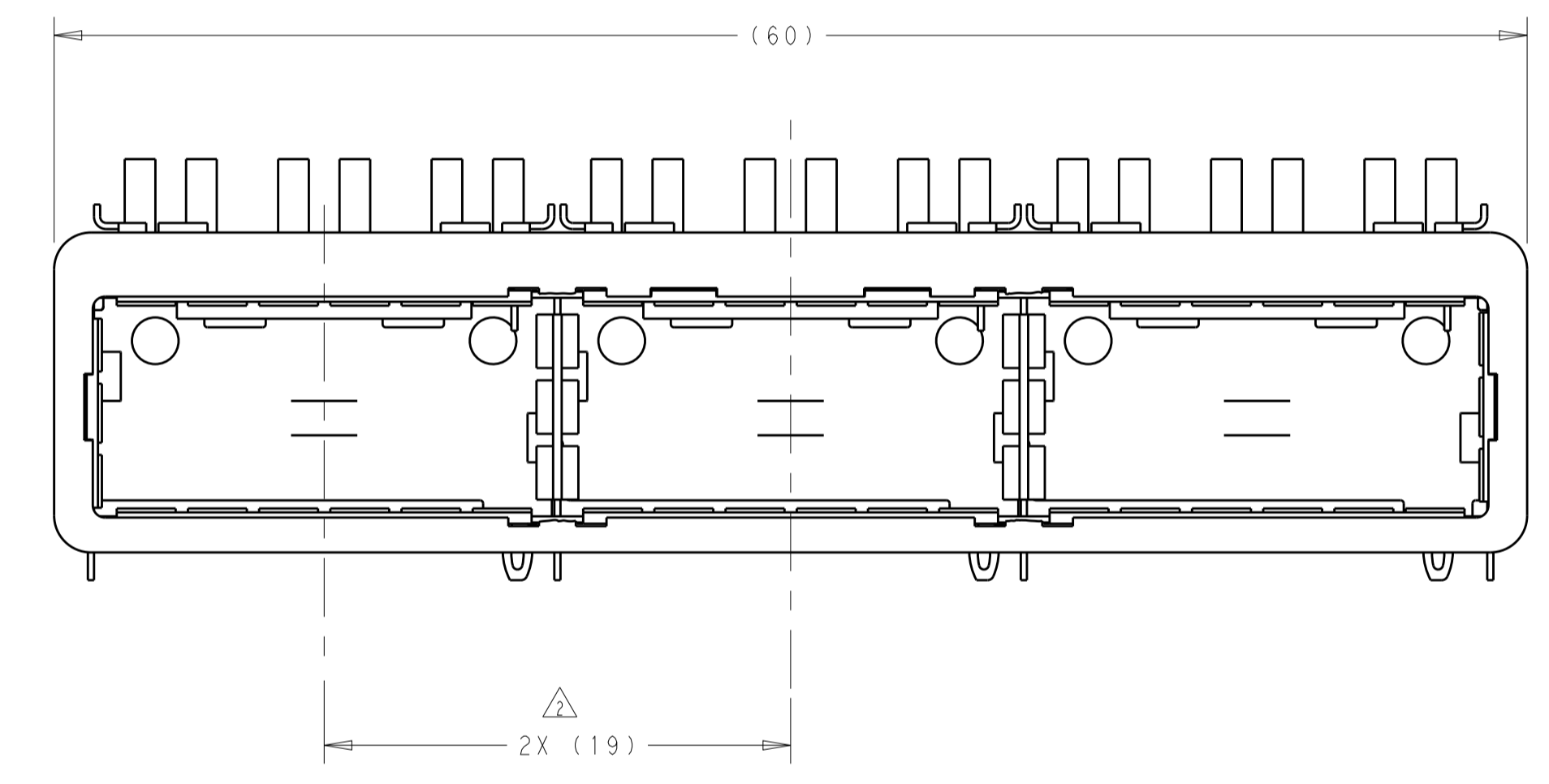
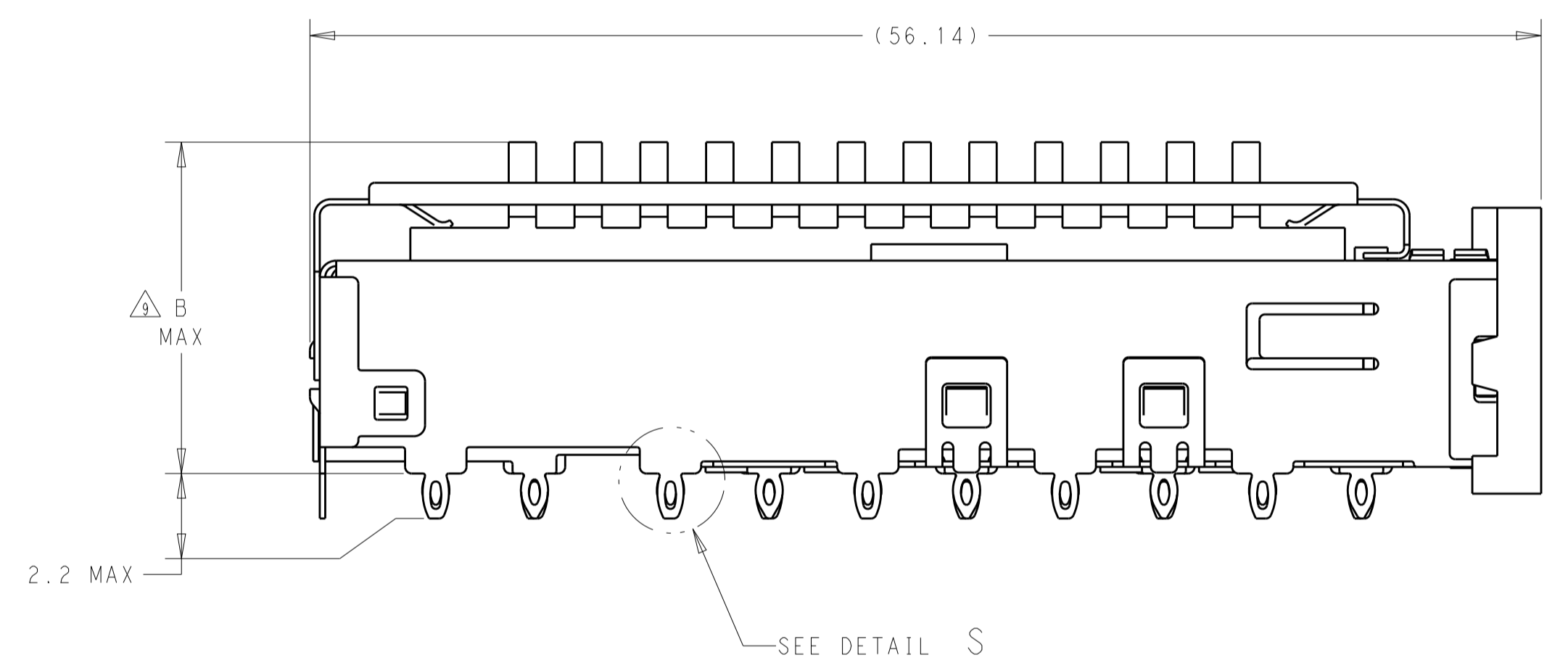


LOC		DIST		REVISIONS			
GP	00	P	LTN	DESCRIPTION	DATE	DWN	APVD
		A		RELEASED PER ECO-13-000076	16JAN2013	CJV	EDB



DETAIL S Δ 12
 SCALE 20:1

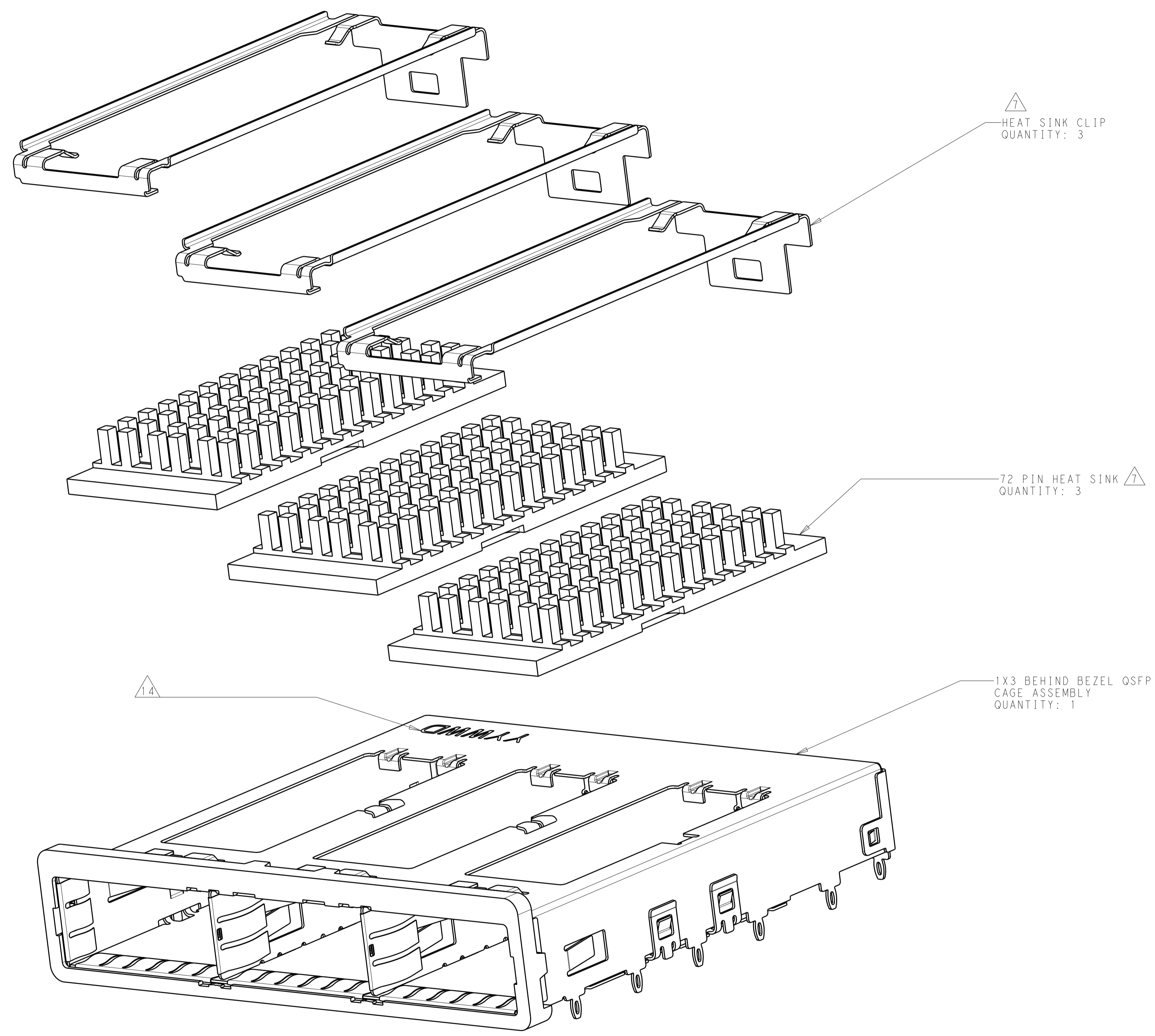
- Δ MATERIALS:
- CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
- EMI SPRINGS: COPPER ALLOY
- FRONT FLANGE: ZINC ALLOY
- HEAT SINK: ALUMINUM
- HEAT SINK CLIP: STAINLESS STEEL
- Δ PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- Δ SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST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



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

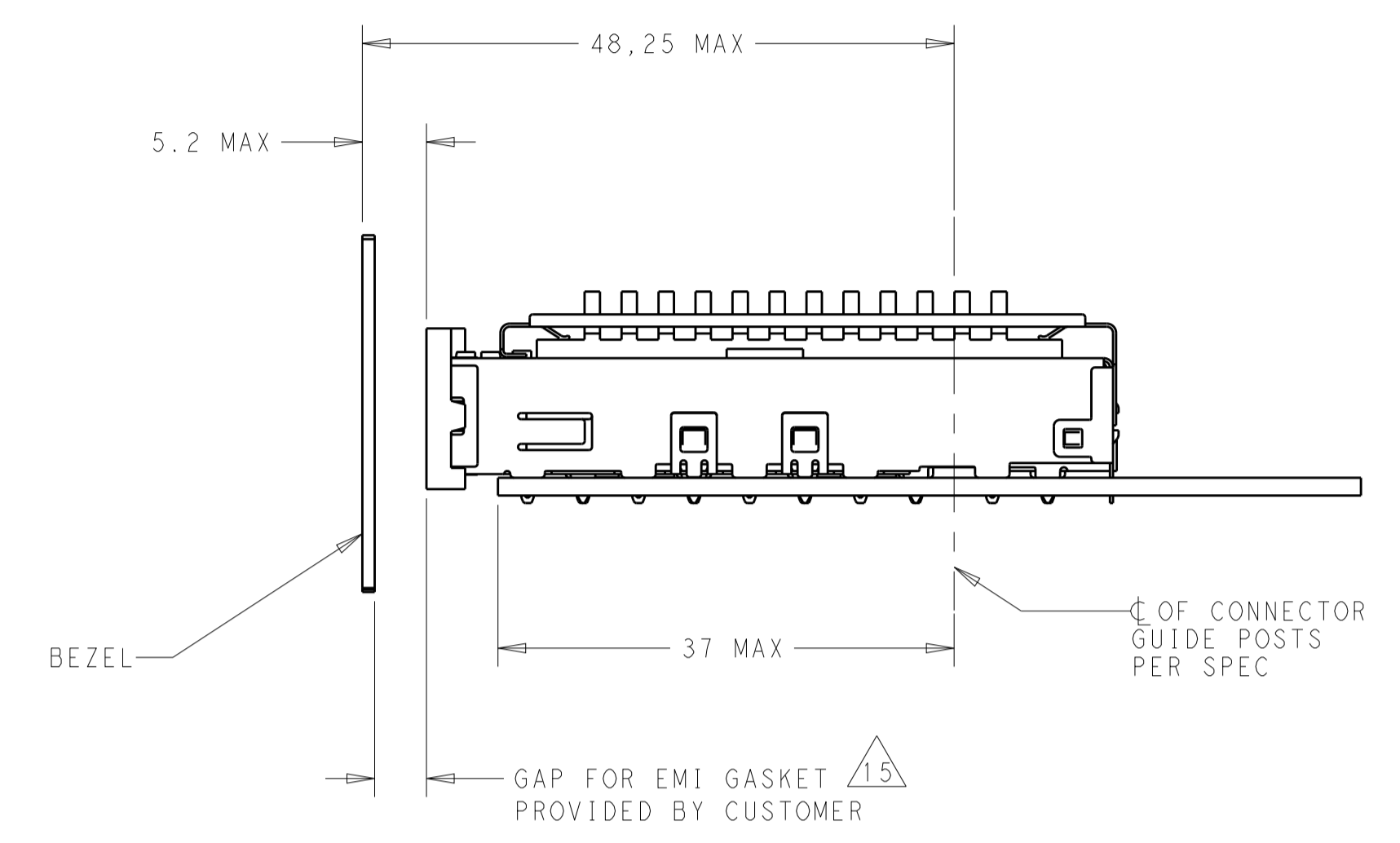
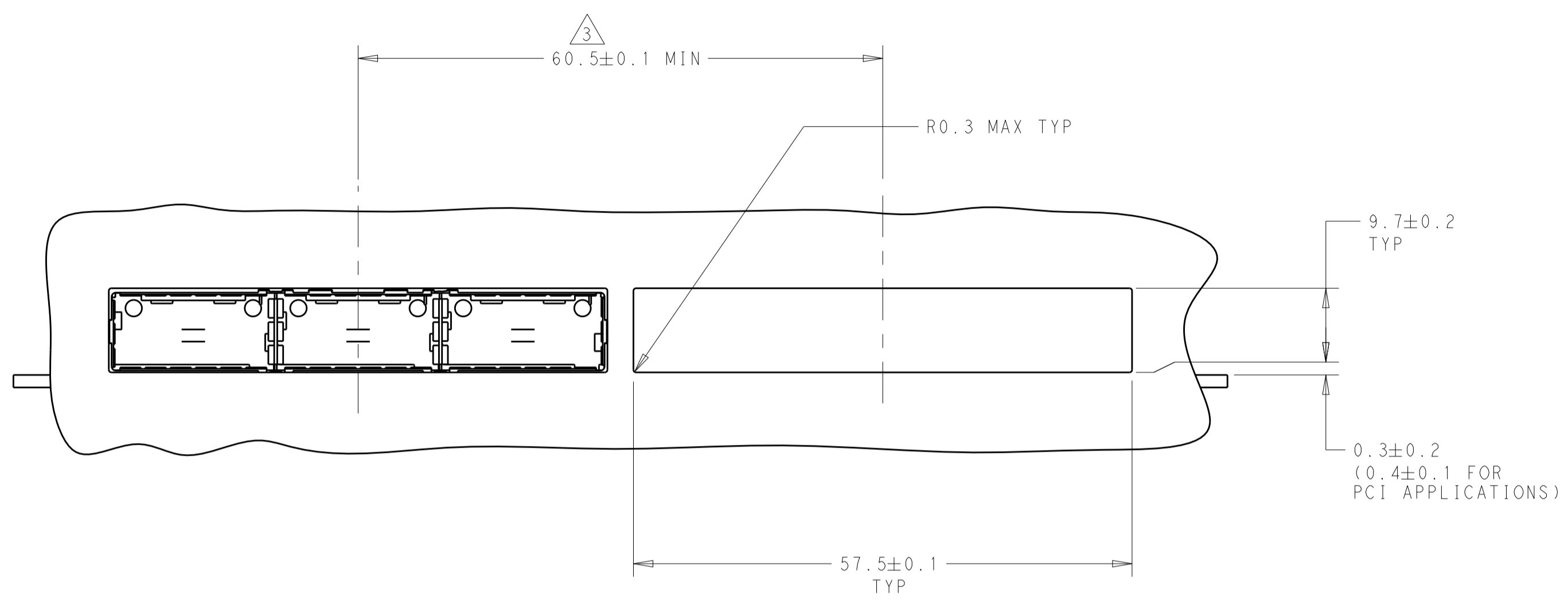
THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DWN: J.V.D. HEIJDEN 12AUG2011	TE Connectivity
DIMENSIONS: mm		CHK: R. VERBEET 12AUG2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: T.D. ROER 15AUG2011	NAME: 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, 2QSFP+
0 PLC ±.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±.0001		PRODUCT SPEC: 108-XXXX	
MATERIAL: Δ		APPLICATION SPEC: 114-XXXX	RESTRICTED TO:
FINISH: Δ 16		WEIGHT: -	SCALE: 1:1
CUSTOMER DRAWING		SIZE: CAGE CODE DRAWING NO: A100779C=2173239	SHEET 1 OF 5

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

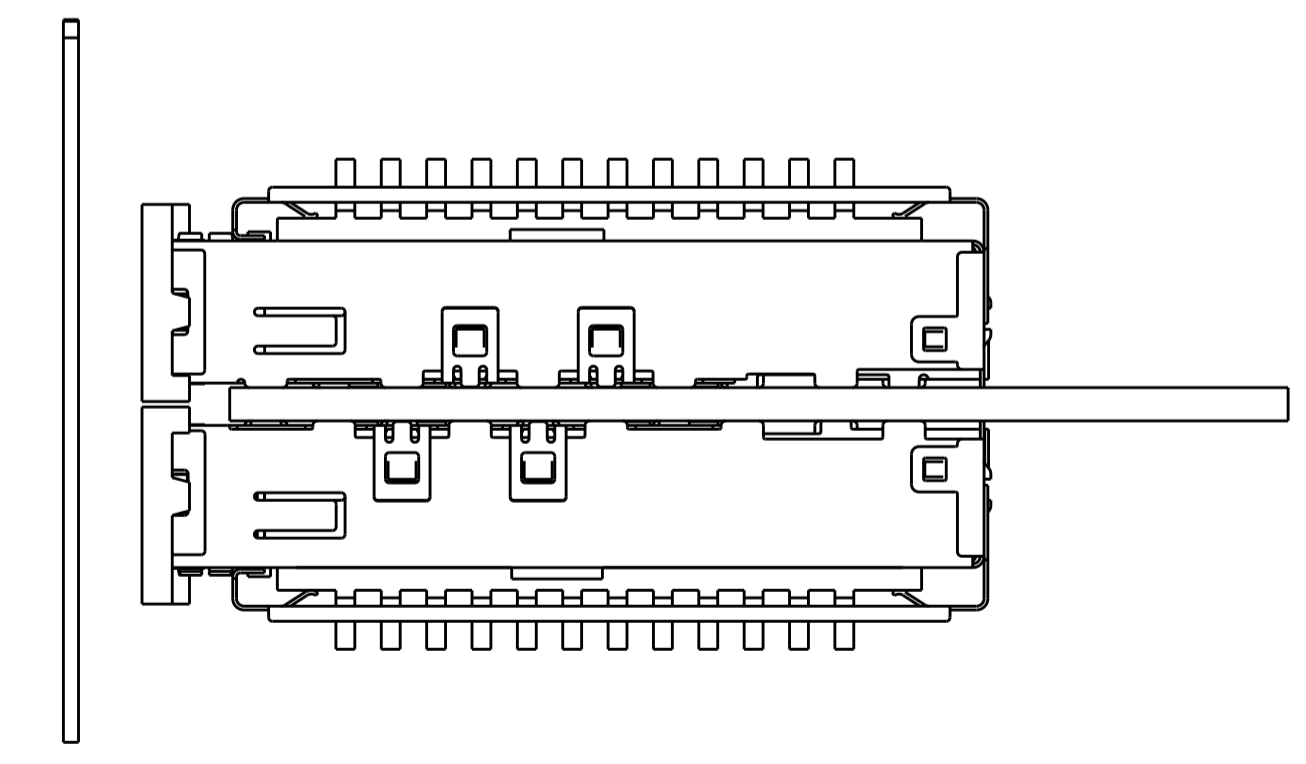
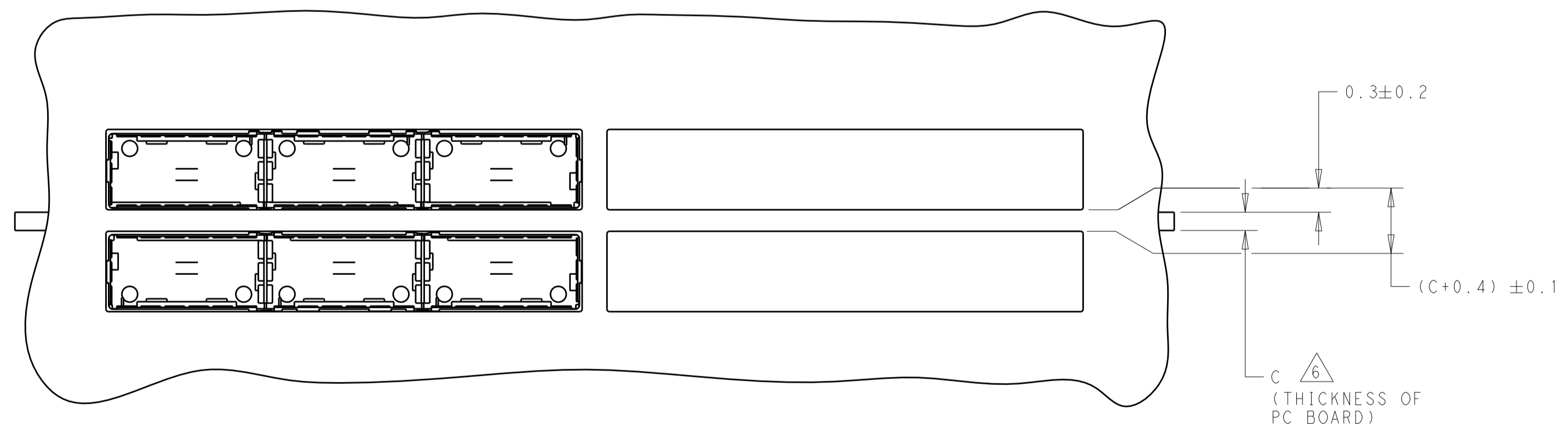


THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DWN J.V.D. HEIJDEN 12AUG2011	TE Connectivity NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, 2QSFP+
DIMENSIONS: mm		CHK R. VERBEET 12AUG2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD T.D. ROER 15AUG2011	PRODUCT SPEC 108- APPLICATION SPEC 114- WEIGHT -
0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±		RESTRICTED TO A100779C=2173239	SCALE 1:1 SHEET 2 OF 5 REV A
MATERIAL FINISH		CUSTOMER DRAWING	

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



ONE SIDED CONFIGURATION
 SCALE 2:1

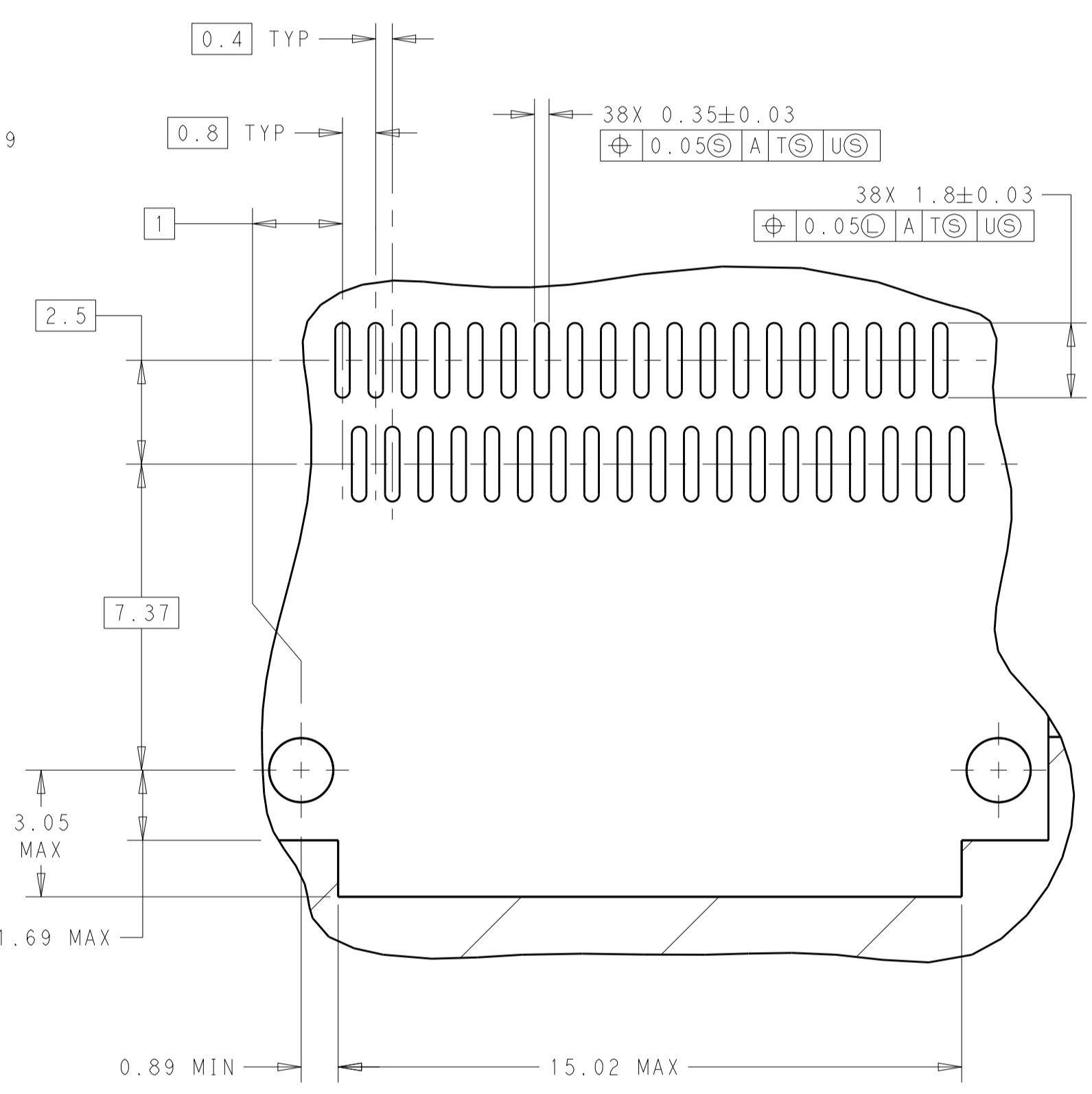
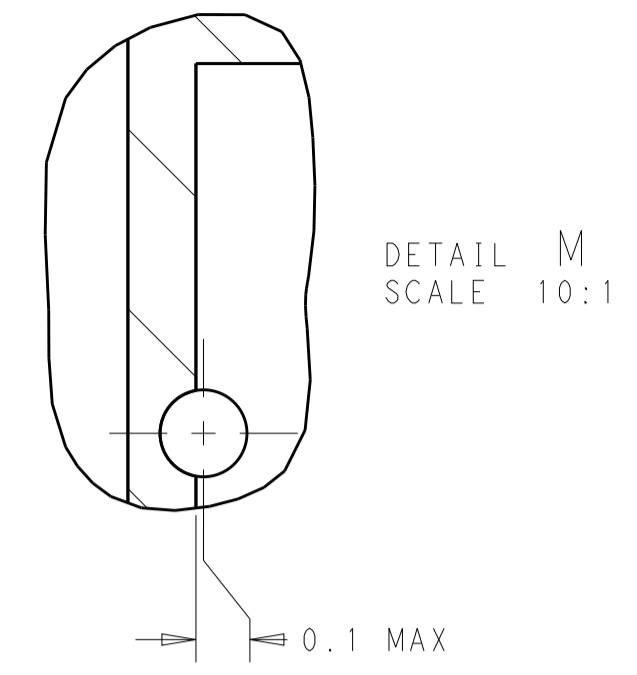
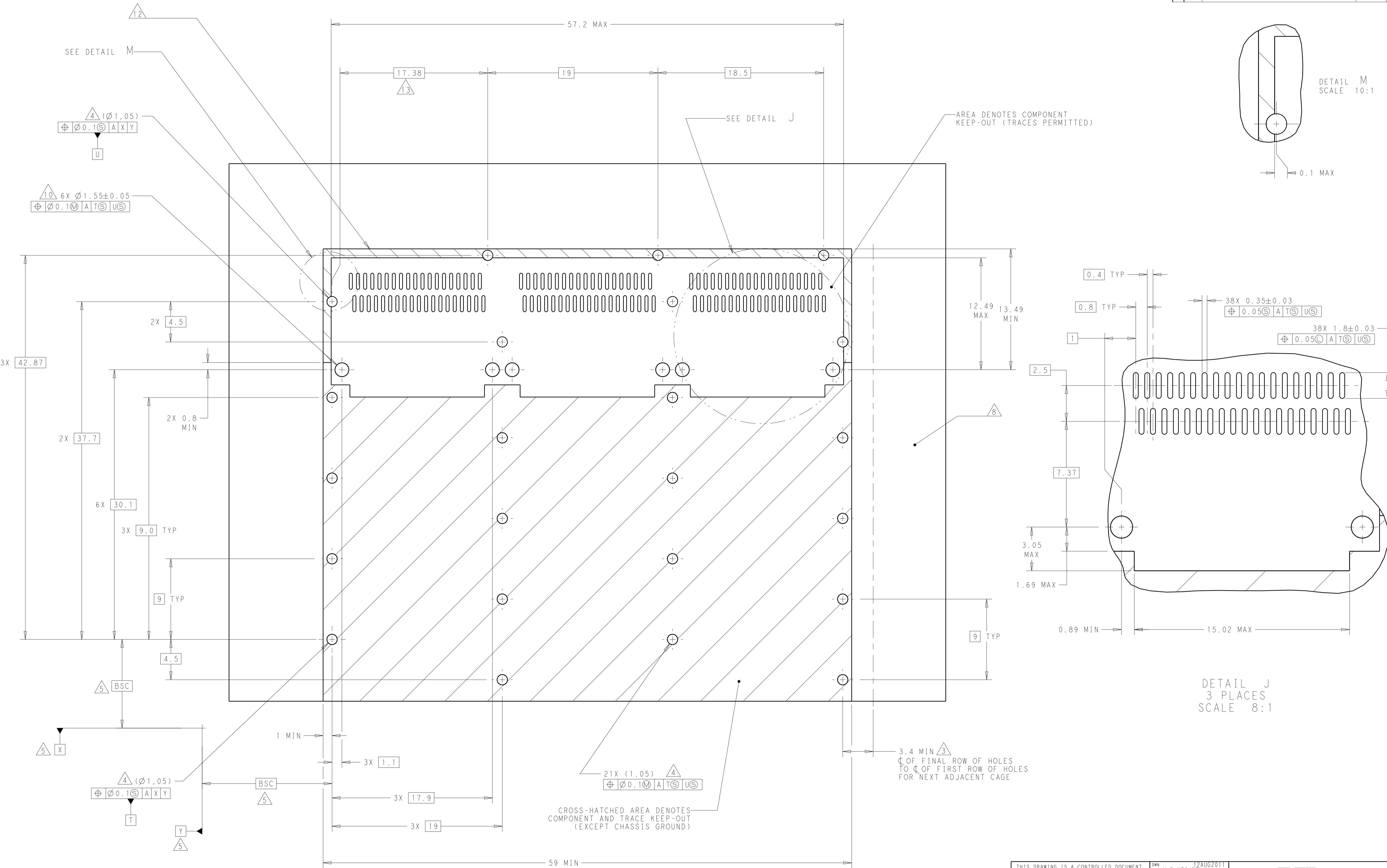


BELLY TO BELLY CONFIGURATION SIMILAR
 TO ONE SIDED EXCEPT WHERE NOTED
 SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DMN J.V.D. HEIJDEN 12AUG2011	CHK R. VERBEEET 12AUG2011	APVD T.D. ROER 15AUG2011	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, 2QSFP+
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC			RESTRICTED TO
mm	0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001	APPLICATION SPEC			SIZE CAGE CODE DRAWING NO
MATERIAL	FINISH	WEIGHT			A100779C=2173239
CUSTOMER DRAWING		SCALE 4:1			SHEET 3 OF 5 REV A

LOC	DIST	REV	DATE	BY	APPD
GP	00				

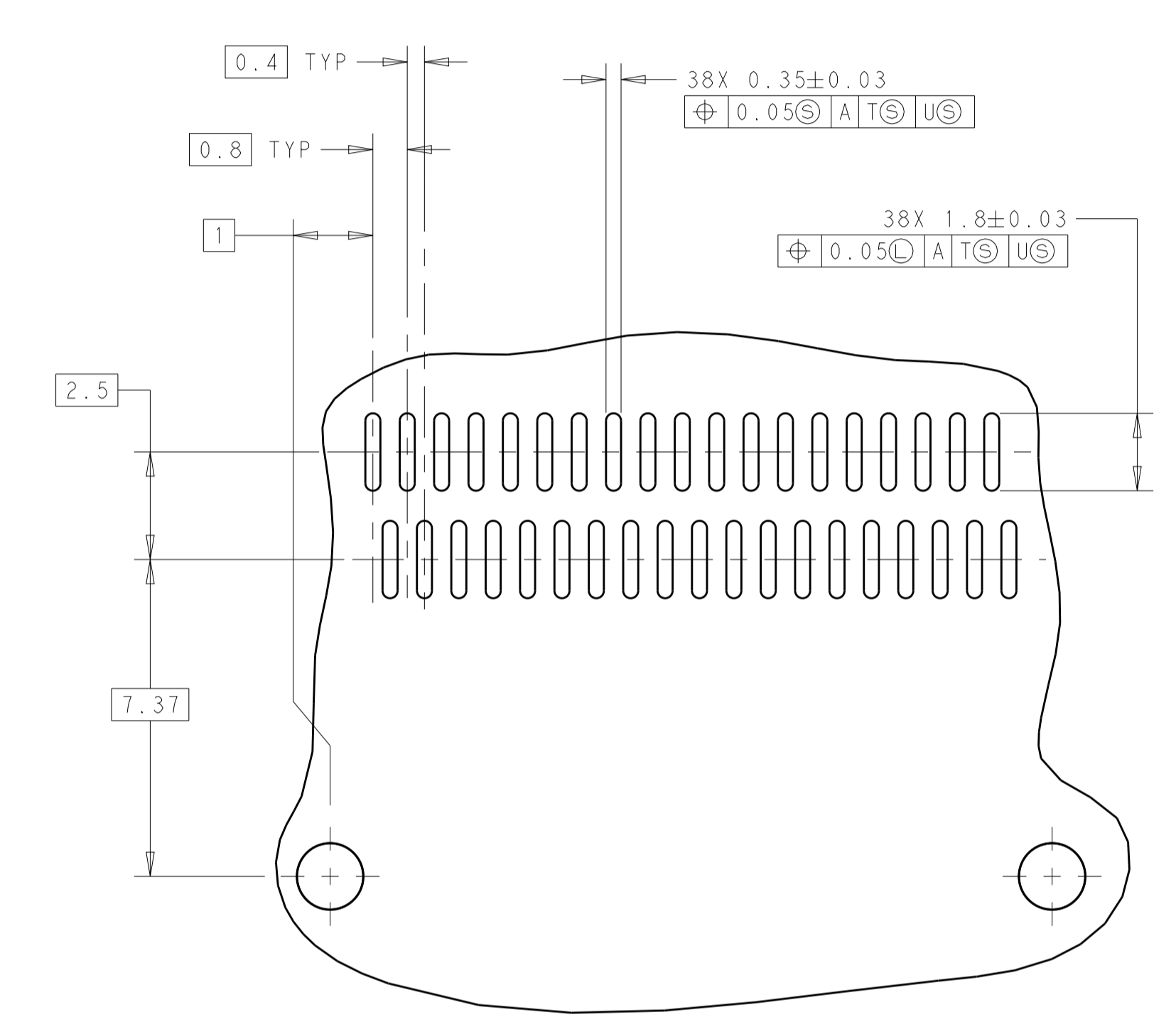
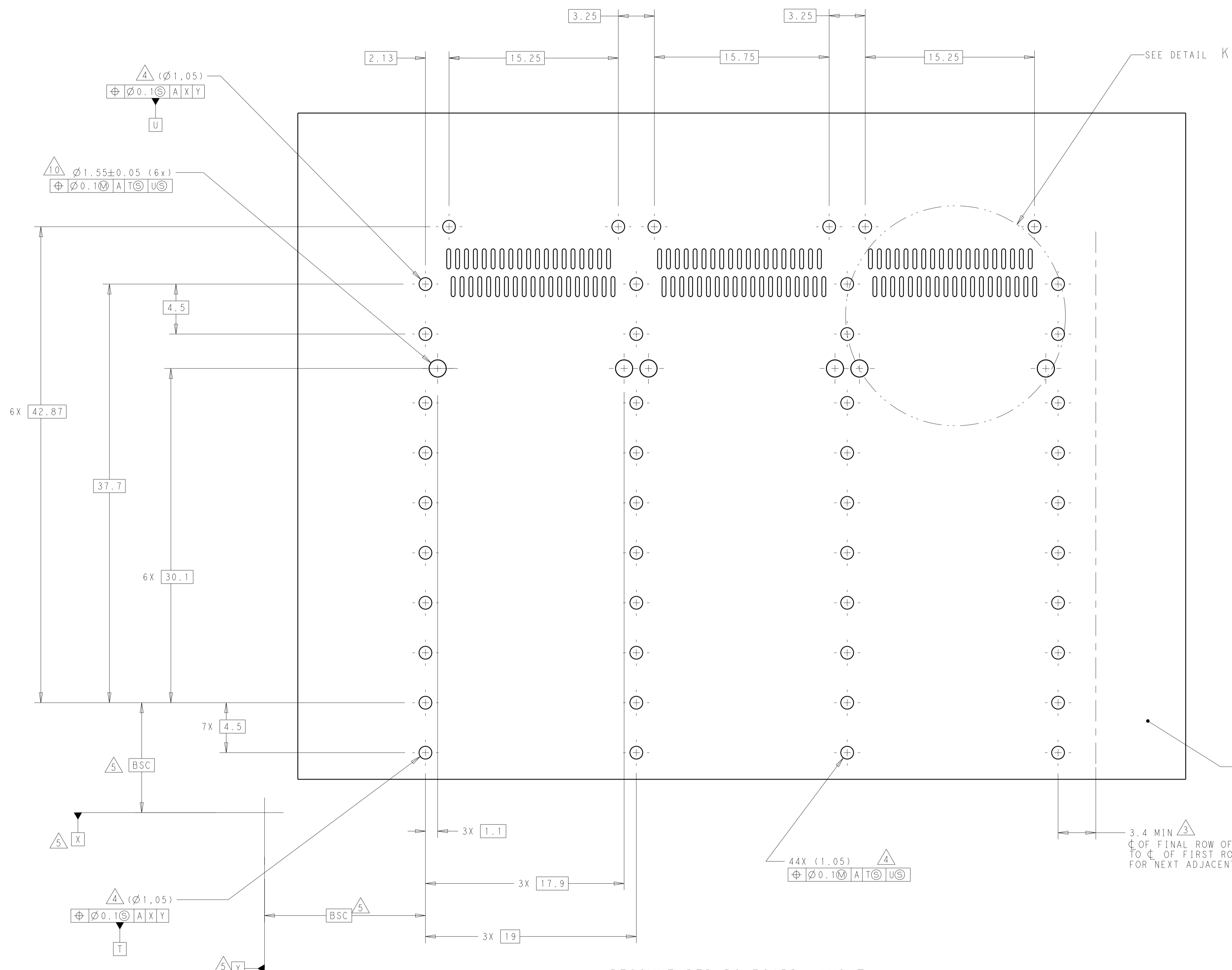
REVISIONS					
REV	DATE	BY	APPD	DESCRIPTION	
-	-	-	-	SEE SHEET 1	



RECOMMENDED PC BOARD LAYOUT
 SINGLE SIDE MOUNT CONFIGURATION
 SCALE 5:1

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.		DWN: J.V.D.HEIJLEN 12AUG2011 CHK: R.VERBEET 12AUG2011 APVD: T.D.ROER 15AUG2011	TE Connectivity NAME: 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, 2QSPF+
DIMENSIONS: mm TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC: 108- APPLICATION SPEC: 114- WEIGHT: - MATERIAL: - FINISH: -	SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2173239 CUSTOMER DRAWING	

LOC		DIST		REVISONS			
P	LTN	DESCRIPTION	DATE	DMN	APVD		
-	-	SEE SHEET 1	-	-	-	-	-



DETAIL K
 3 PLACES
 SCALE 8:1

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		DMN J.V.D. HEIJUN 12AUG2011	CHK R. VERBEET 12AUG2011	APVD T.D. ROER 15AUG2011	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, 2QSFPP+
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±.1	PRODUCT SPEC 108----	APPLICATION SPEC 114----	WEIGHT ---	RESTRICTED TO -
MATERIAL	FINISH	SCALE 1:1		SHEET 5 OF 5	REV A