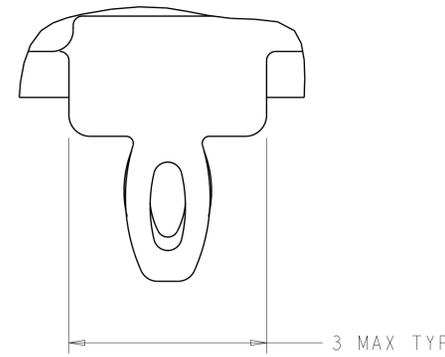


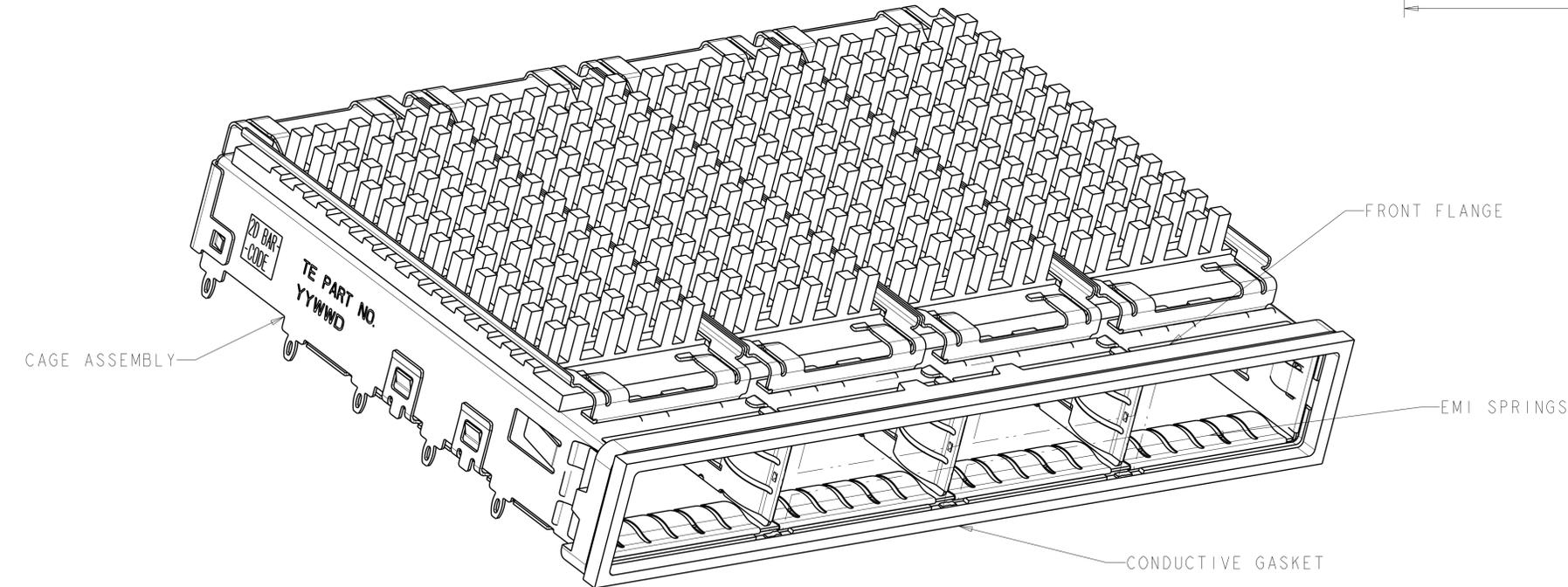
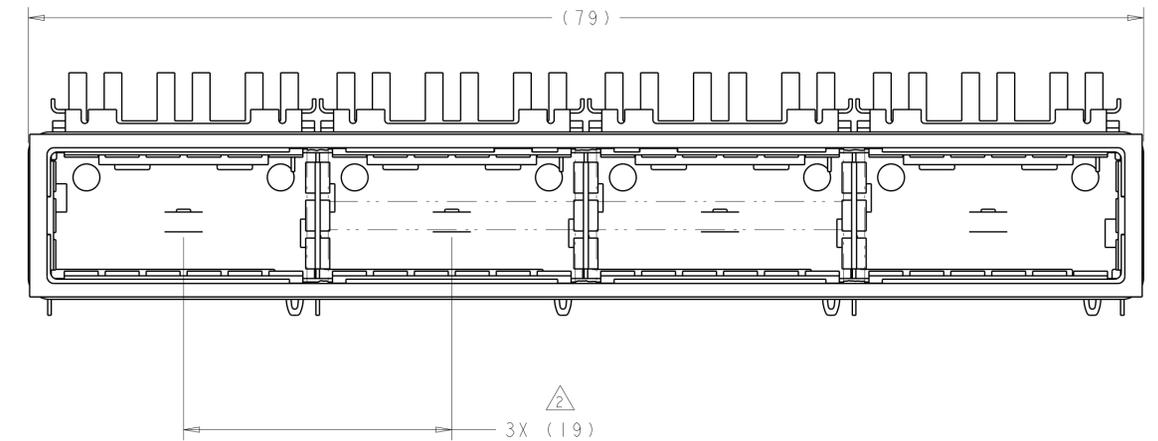
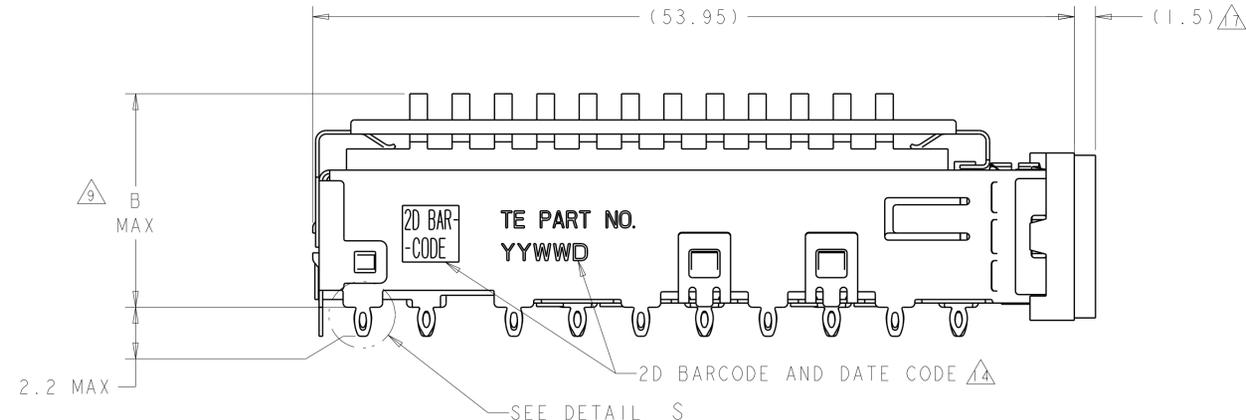
LOC	DIST	REVISIONS					
		P	LTN	DESCRIPTION	DATE	DWN	APVD
GP	00	A		RELEASE PER ECO-16-002978	3MAR2016	RG	SH



DETAIL S
SCALE 20:1

- 1 CAGE ASSEMBLY 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
 LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
 CONDUCTIVE GASKET MATERIAL: BURRER FOAM
- 2 PITCH BETWEEN PORTS OF ONE 1X4 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 114-13218 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 = 2.2mm PER QSFP.
- 7 HEAT SINKS 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 2D BARCODE AND DATE CODE (YYWW) MARKED ON REAR OF CAGE.

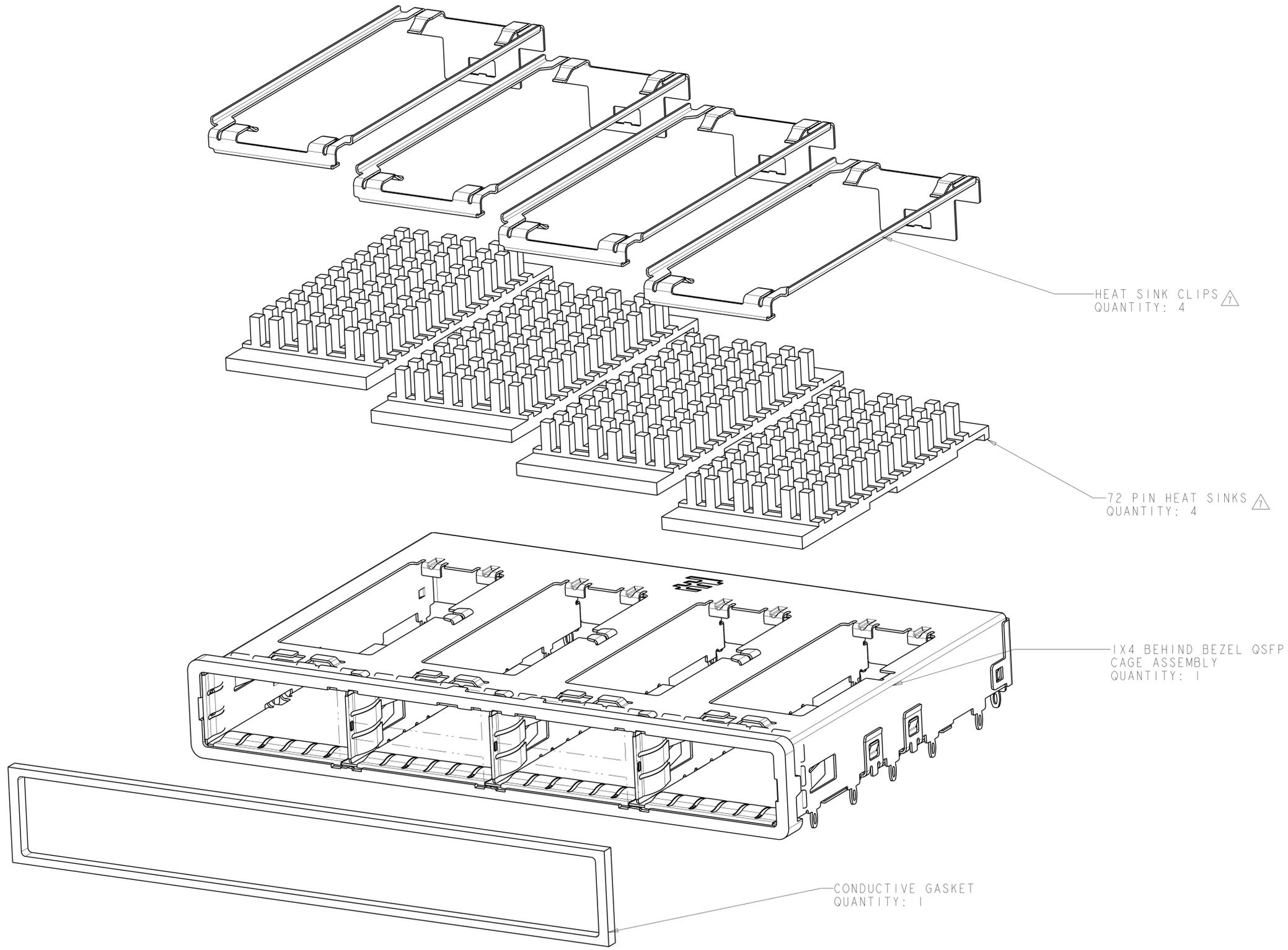
- 15 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- 16 EMI SPRING FINISH: 2µm MINIMUM TIN
 FRONT FLANGE FINISH: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL
 OVER 5.08µm MINIMUM COPPER.
 HEAT SINK FINISH: NICKEL
- 17 RECOMMENDED GAP FOR GASKET SHOULD BE 0.6mm-1.1mm.



23.0	NETWORKING	2170290-3
16.0	SAN	2170290-2
13.7	PCI	2170290-1
B	HEAT SINK PROFILE	PART NUMBER

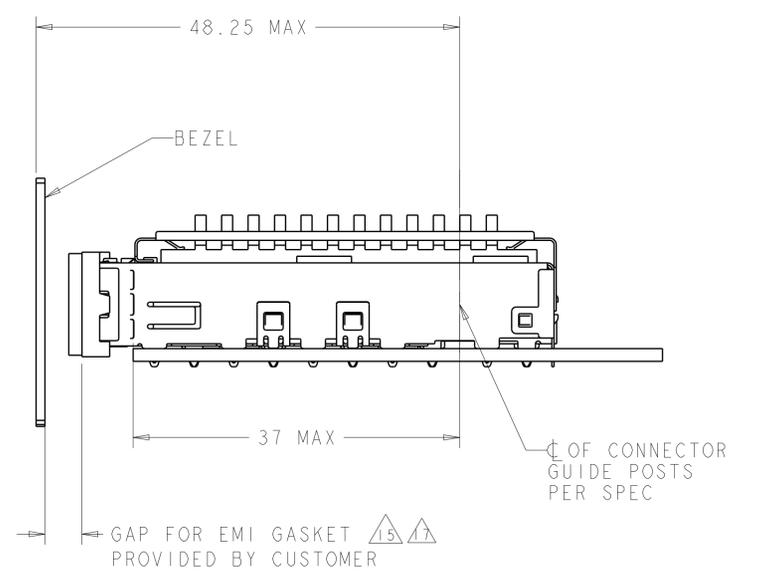
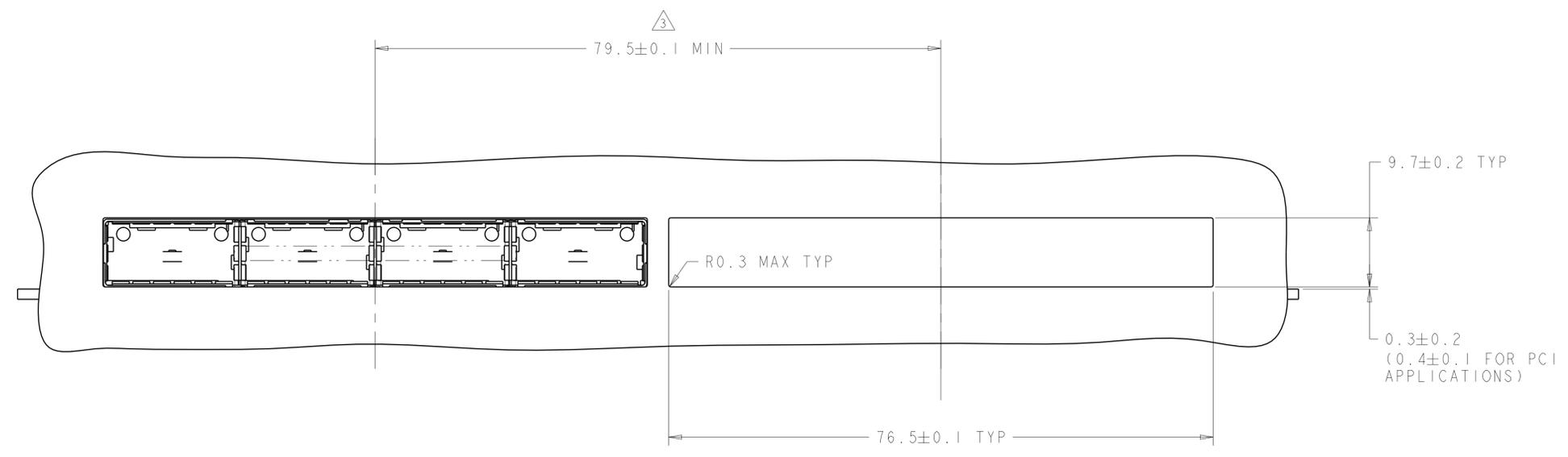
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEY CAI 29FEB2012		
0 PLC	±	PRODUCT SPEC	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ FOAM GASKET AND HEAT SINK QSFP	
1 PLC	±0.1	108-2286	SIZE: CAGE CODE DRAWING NO	
2 PLC	±0.13	APPLICATION SPEC	RESTRICTED TO	
3 PLC	±0.001	114-13218	A100779C=2170290	
4 PLC	±0.001	WEIGHT	SCALE 4:1 SHEET 1 OF 5 REV A	
ANGLES	±	CUSTOMER DRAWING		
FINISH				

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

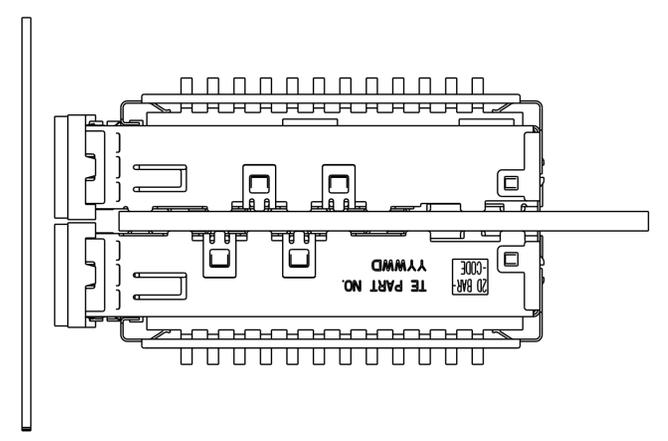
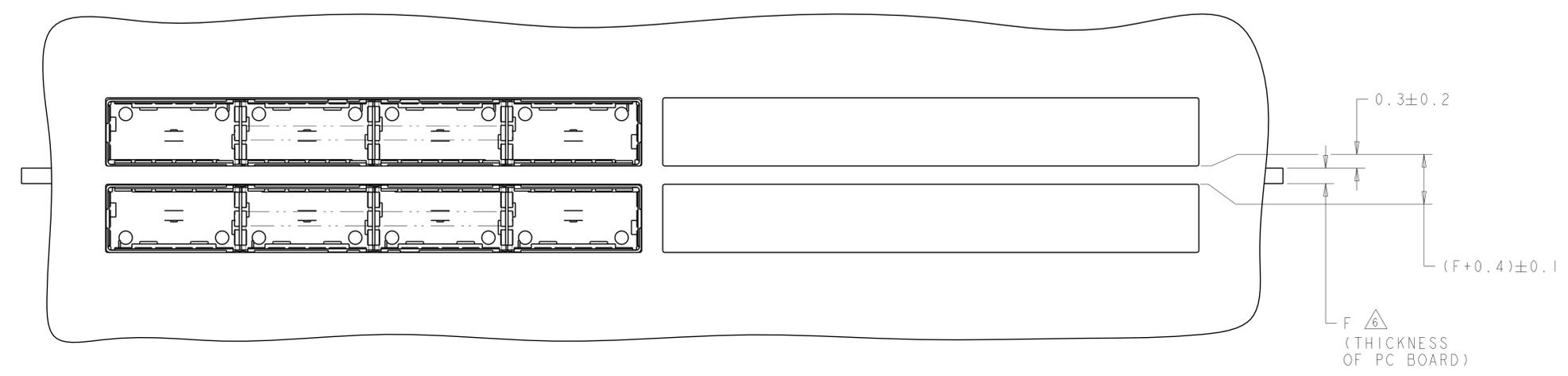


THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: KINSEN SUN 29FEB2012	
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0 PLC ±0.1	1 PLC ±0.1	PRODUCT SPEC 108-2286	SIZE: A1
2 PLC ±0.1	3 PLC ±0.013	APPLICATION SPEC 114-13218	CAGE CODE: 00779
4 PLC ±0.0001	ANGLES ±0.0001	WEIGHT: -	DRAWING NO: C=2170290
MATERIAL: -	FINISH: -	CUSTOMER DRAWING	RESTRICTED TO: -
SCALE: 4:1			SHEET: 2 OF 5
REV: A			

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



ONE SIDED CONFIGURATION
 SCALE 5:2

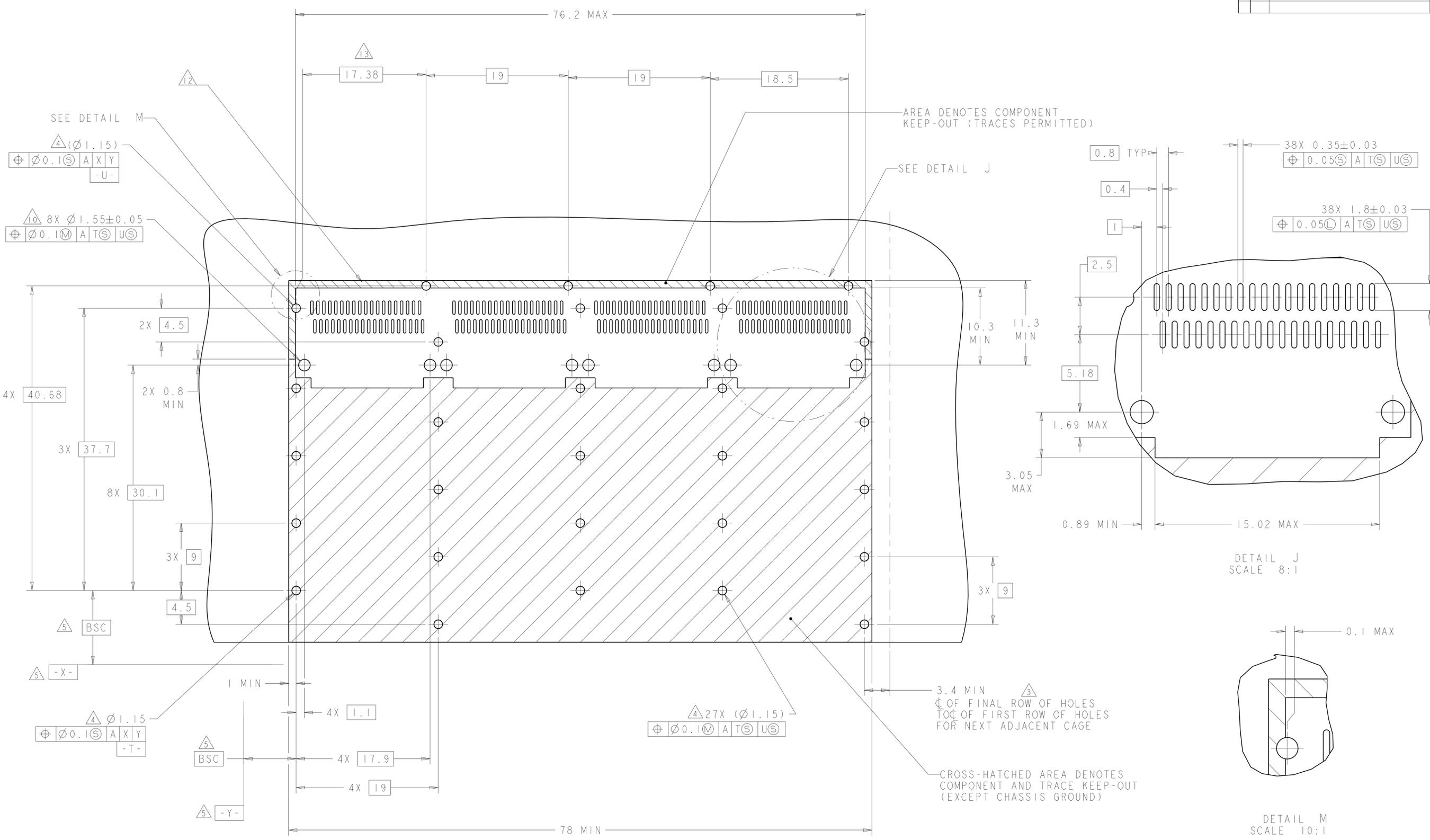


BELLY TO BELLY CONFIGURATION
 SIMILAR TO ONE SIDED
 EXCEPT WHERE NOTED
 SCALE 5:2

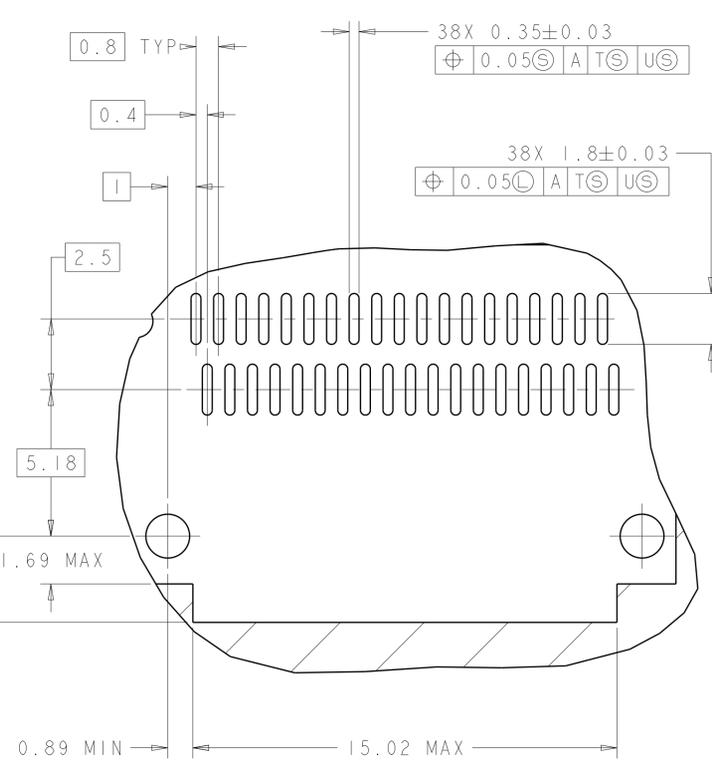
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DIMENSIONS: mm		CHK: DENNY ZHU 29FEB2012	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: AILEY CAI 29FEB2012	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ FOAM GASKET AND HEAT SINK QSPF
0 PLC ±	1 PLC ±0.1	PRODUCT SPEC 108-2286	SIZE: CAGE CODE DRAWING NO. RESTRICTED TO
2 PLC ±0.1	3 PLC ±0.013	APPLICATION SPEC 114-13218	A100779C=2170290
4 PLC ±0.0001	ANGLES ±	WEIGHT	CUSTOMER DRAWING
MATERIAL		FINISH	SCALE 4:1 SHEET 3 OF 5 REV A

LOC	DIST	REV	DATE	BY	APPV
GP	00				

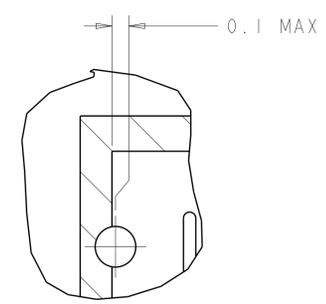
REVISIONS					
REV	DATE	BY	APPV	DESCRIPTION	DATE
-	-	-	-	SEE SHEET 1	-



RECOMMENDED PC BOARD LAYOUT
 SINGLE SIDE MOUNT CONFIGURATION
 SCALE 4:1



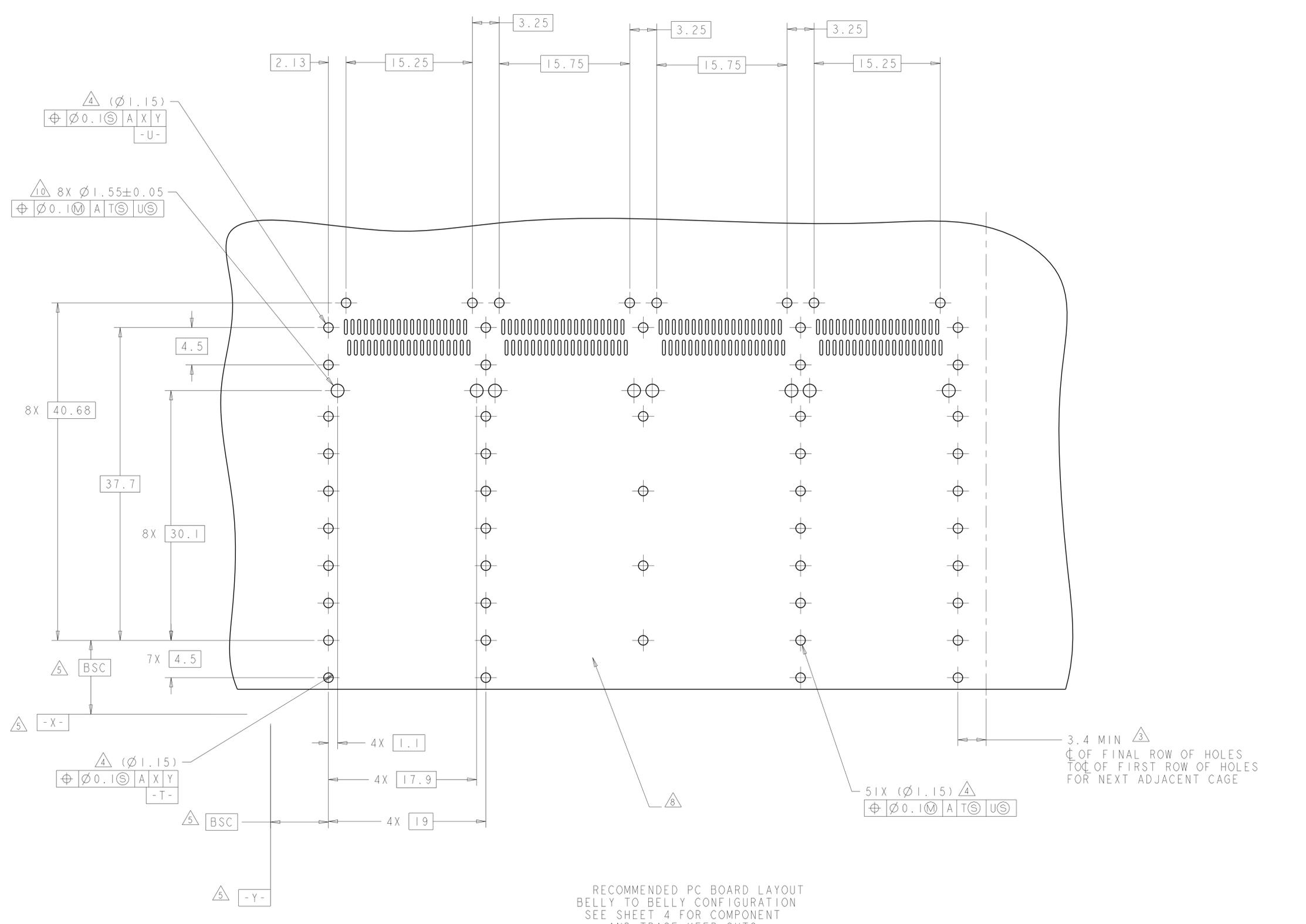
DETAIL J
 SCALE 8:1



DETAIL M
 SCALE 10:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: RINSEN SUN 29FEB2012	TE Connectivity
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: AILEY CAI 29FEB2012	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ FOAM GASKET AND HEAT SINK QSPF
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±0.0001		PRODUCT SPEC: 108-2286	
MATERIAL: -		APPLICATION SPEC: 114-13218	SIZE: A1
FINISH: -		WEIGHT: -	CAGE CODE: 2170290
CUSTOMER DRAWING		SCALE: 4:1	SHEET 4 OF 5 REV A

LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPV
-	-	SEE SHEET 1	-	-	-



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

3.4 MIN Δ
 C OF FINAL ROW OF HOLES
 TO C OF FIRST ROW OF HOLES
 FOR NEXT ADJACENT CAGE

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN KINSEN SUN 29FEB2012	TE Connectivity												
DIMENSIONS: mm		CHK DENNY ZHU 29FEB2012													
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEY CAI 29FEB2012	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ FOAM GASKET AND HEAT SINK QSFP												
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0 PLC	±														
1 PLC	±0.1														
2 PLC	±0.1														
3 PLC	±0.013														
4 PLC	±0.0001														
ANGLES	±														
MATERIAL		APPLICATION SPEC 114-13218	RESTRICTED TO												
FINISH		WEIGHT	SCALE 4:1 SHEET 5 OF 5 REV A												
CUSTOMER DRAWING		DATE 29FEB2012													

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[2170290-1](#)