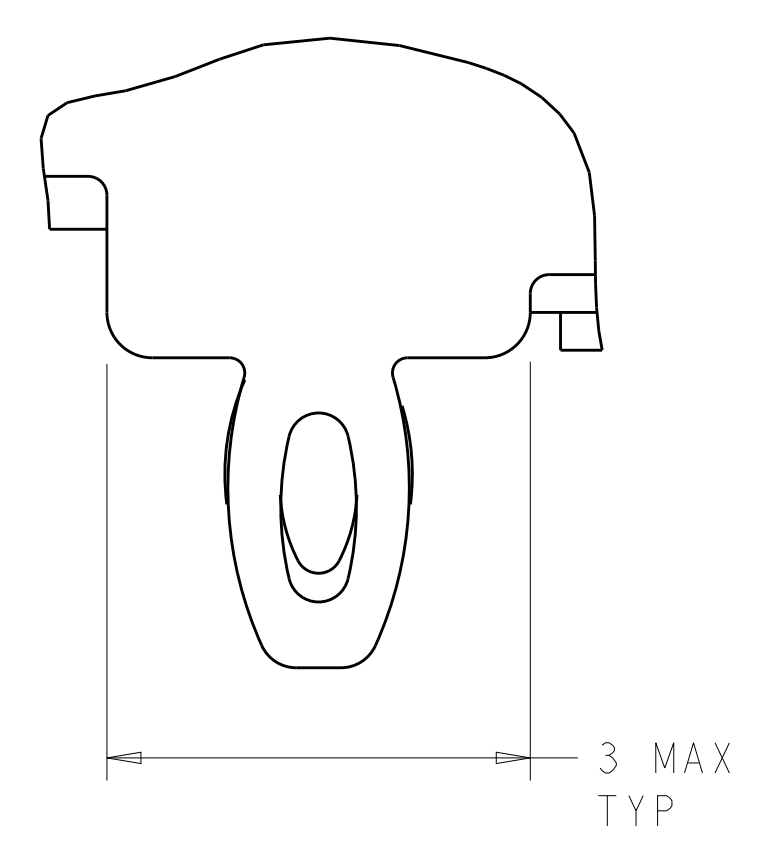


LOC	DIST	REVISIONS					
		P	LTN	DESCRIPTION	DATE	DMN	APVD
GP	00	C		REVISED PER ECO-10-018054	02NOV2010	CJV	EJB
		D		REVISED PER ECO-12-005533	23MAR2012	JY	AC
		E		REVISED PER ECO-14-012115	6AUG2014	RG	MC
		F		REVISED PER ECO-14-017735	30EC2014	RG	MC

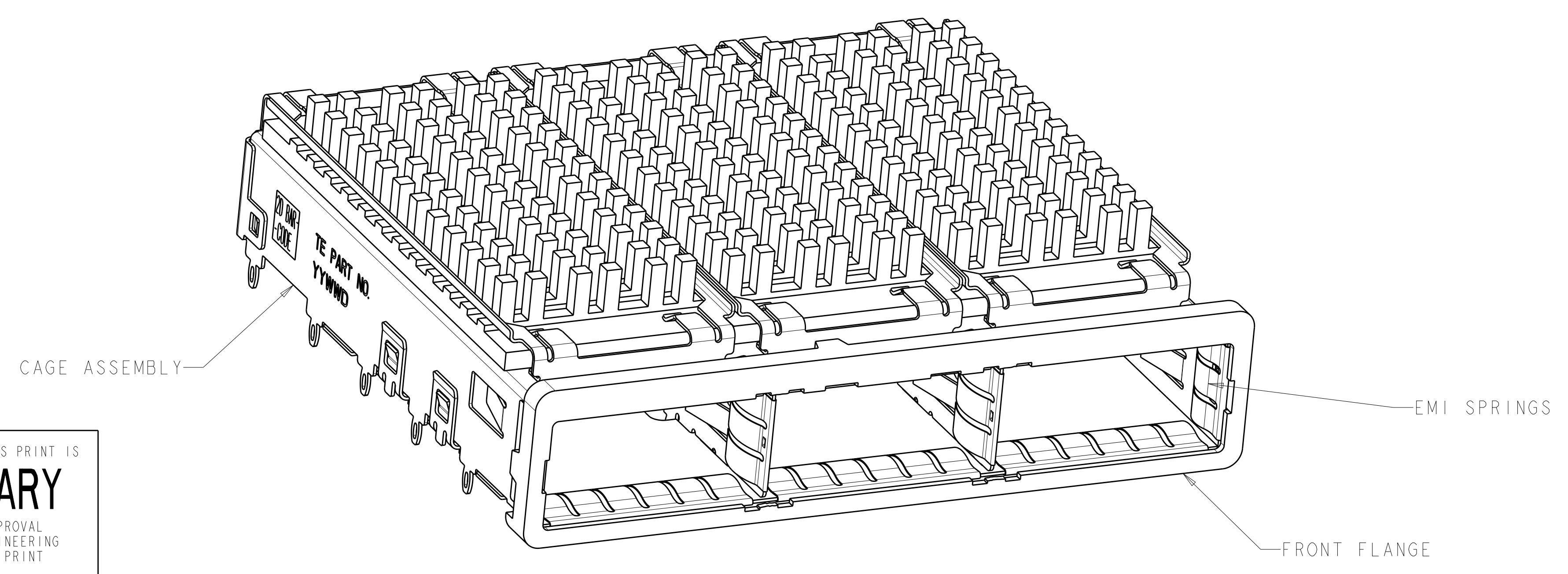
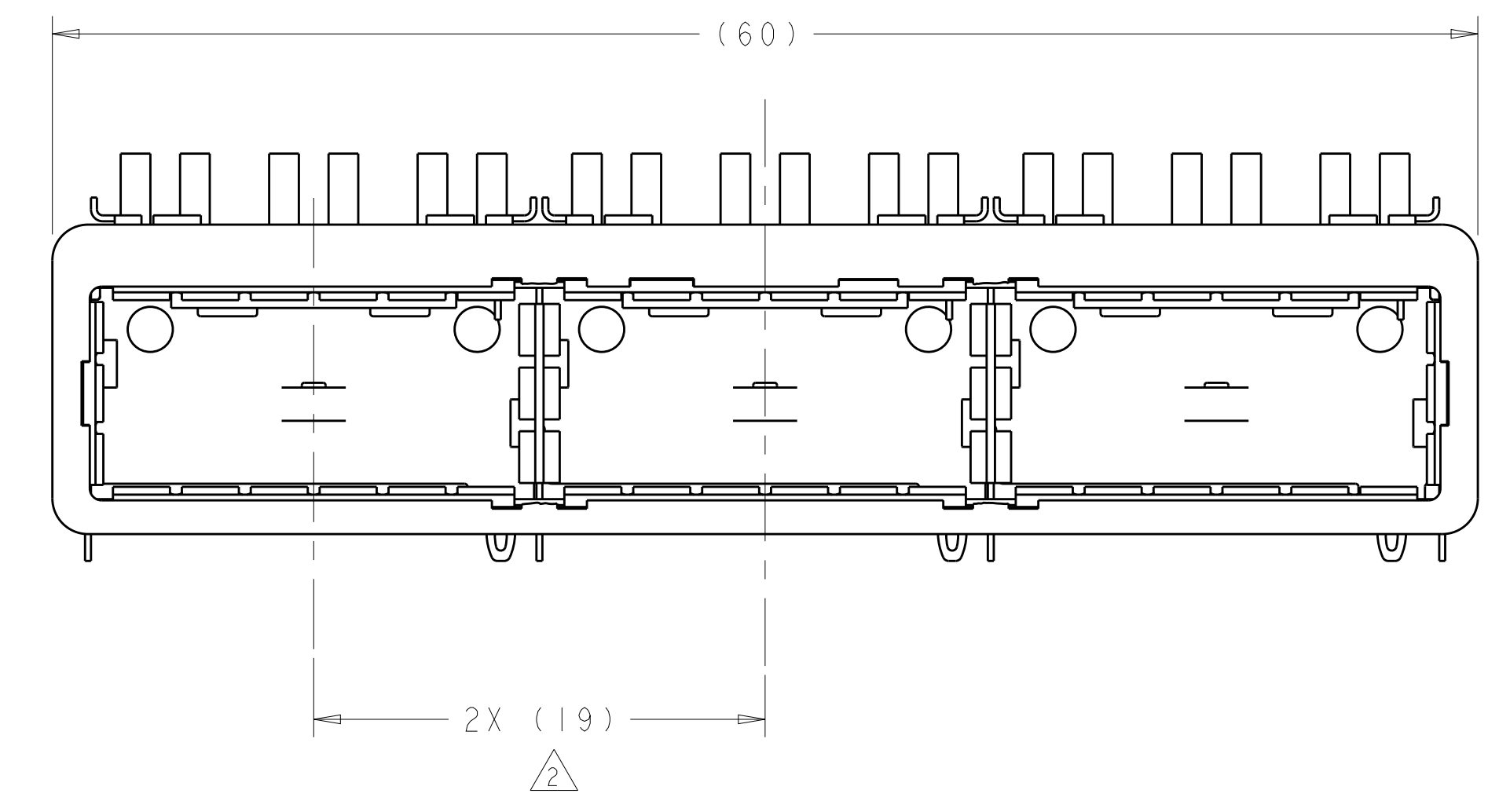
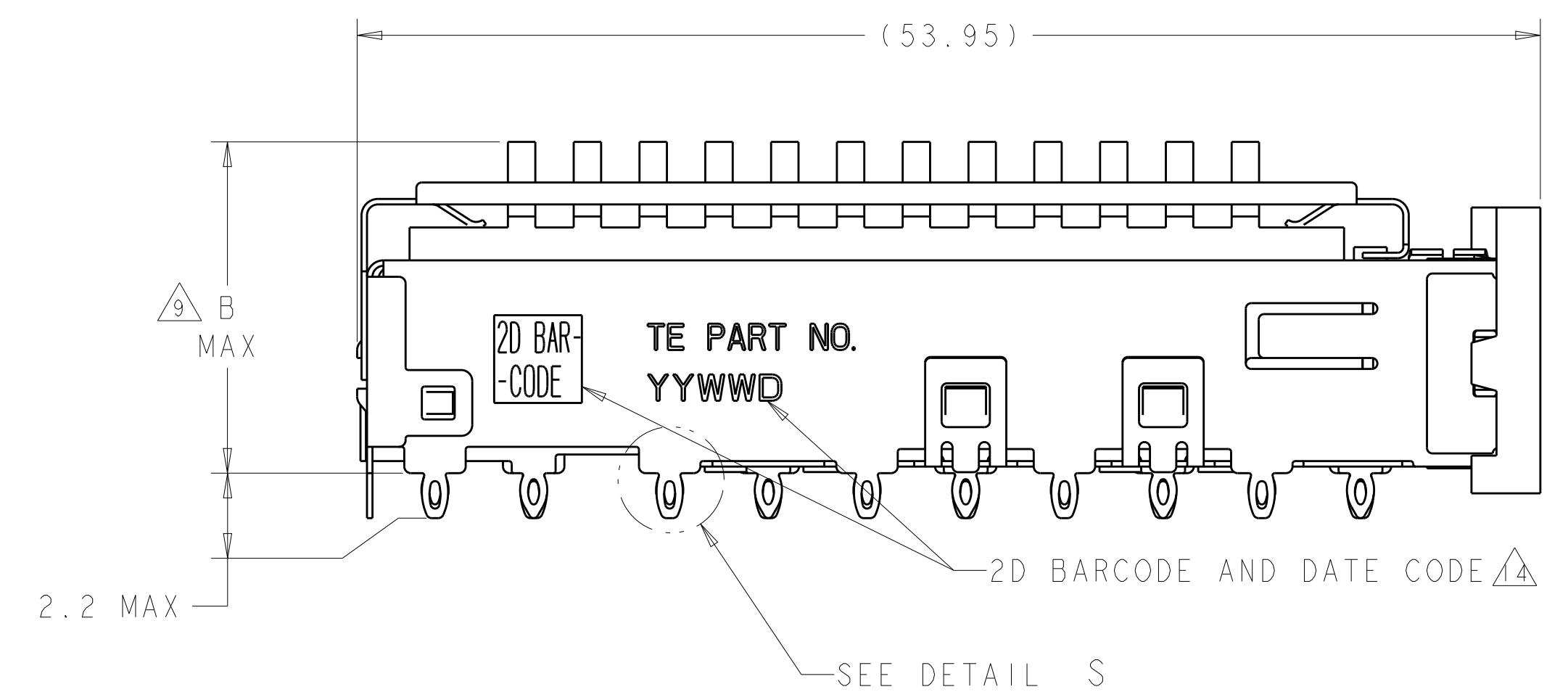


DETAIL S $\Delta 12$
 SCALE 20:1

- $\Delta 1$ MATERIALS:
 CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
 EMI SPRINGS: COPPER ALLOY
 FRONT FLANGE: ZINC ALLOY
 HEAT SINK: ALUMINUM
 HEAT SINK CLIP: STAINLESS STEEL
- $\Delta 2$ PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- $\Delta 3$ SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- $\Delta 4$ REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- $\Delta 5$ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- $\Delta 6$ 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
- $\Delta 7$ HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- $\Delta 8$ DATUM \square -A- IS TOP SURFACE OF PC BOARD.
- $\Delta 9$ DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- $\Delta 10$ UNPLATED THRU HOLE.

- $\Delta 3$ BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- $\Delta 4$ 2D BARCODE AND DATE CODE (YYWW) MARKED ON SIDE OF CAGE.
- $\Delta 5$ REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- $\Delta 6$ 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: ANODIZED BLACK.

- 11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- $\Delta 12$ SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

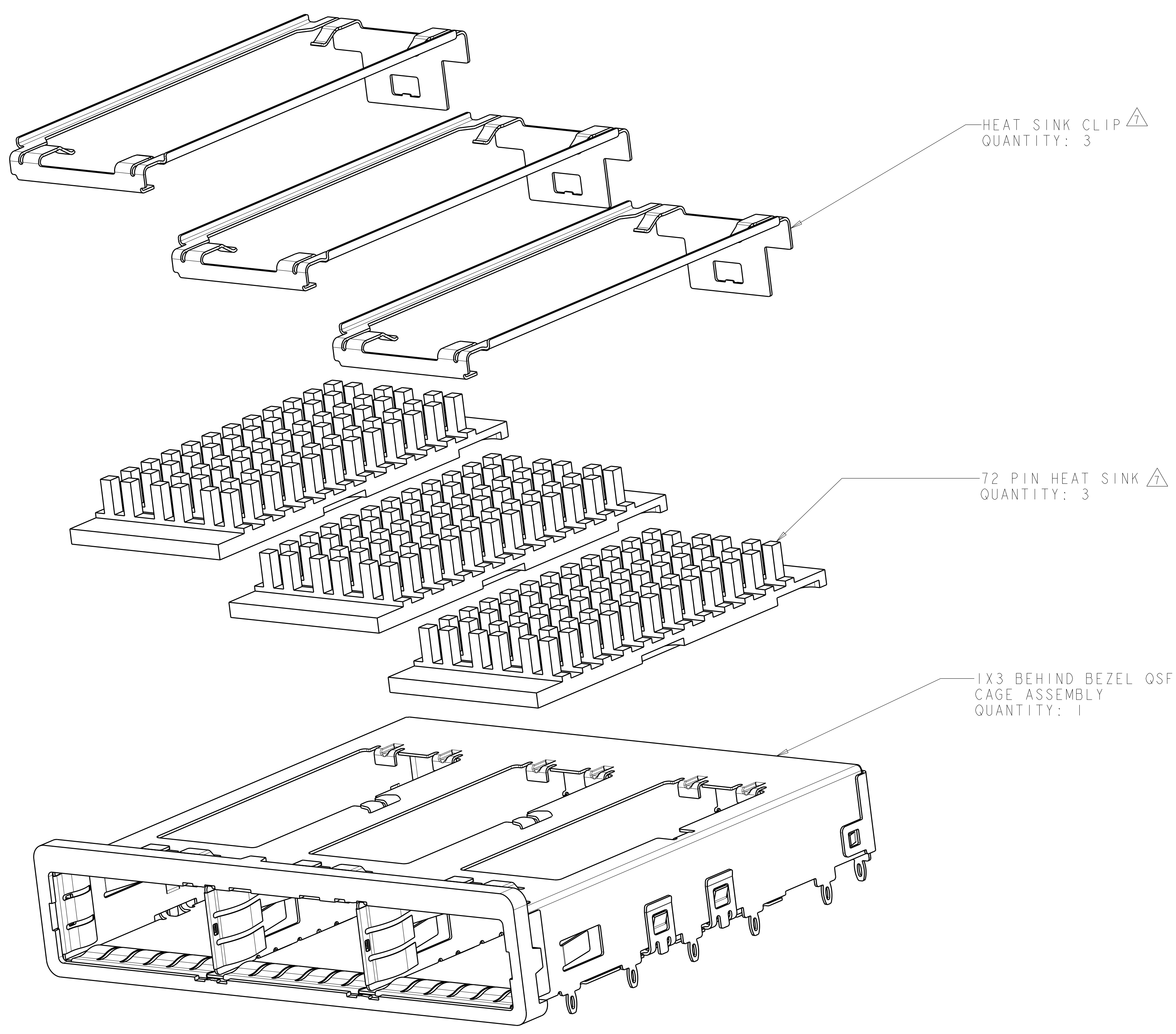


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16.8	CUSTOMERIZED	2007456-4
23.0	NETWORKING	2007456-3
16.0	SAN	2007456-2
13.7	PCI	2007456-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 07NOV2007	TE Connectivity NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
DIMENSIONS:		CHK E. BRIGHT 07NOV2007	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 07NOV2007	PRODUCT SPEC
0 PLC	±	PRODUCT SPEC	108-2286
1 PLC	±0.1	APPLICATION SPEC	114-13218
2 PLC	±0.1	WEIGHT	-
3 PLC	±	SCALE	4:1
4 PLC	±	SHEET	1 OF 5
ANGLES	±	REV	F
MATERIAL	FINISH	CUSTOMER DRAWING	
	$\Delta 16$		

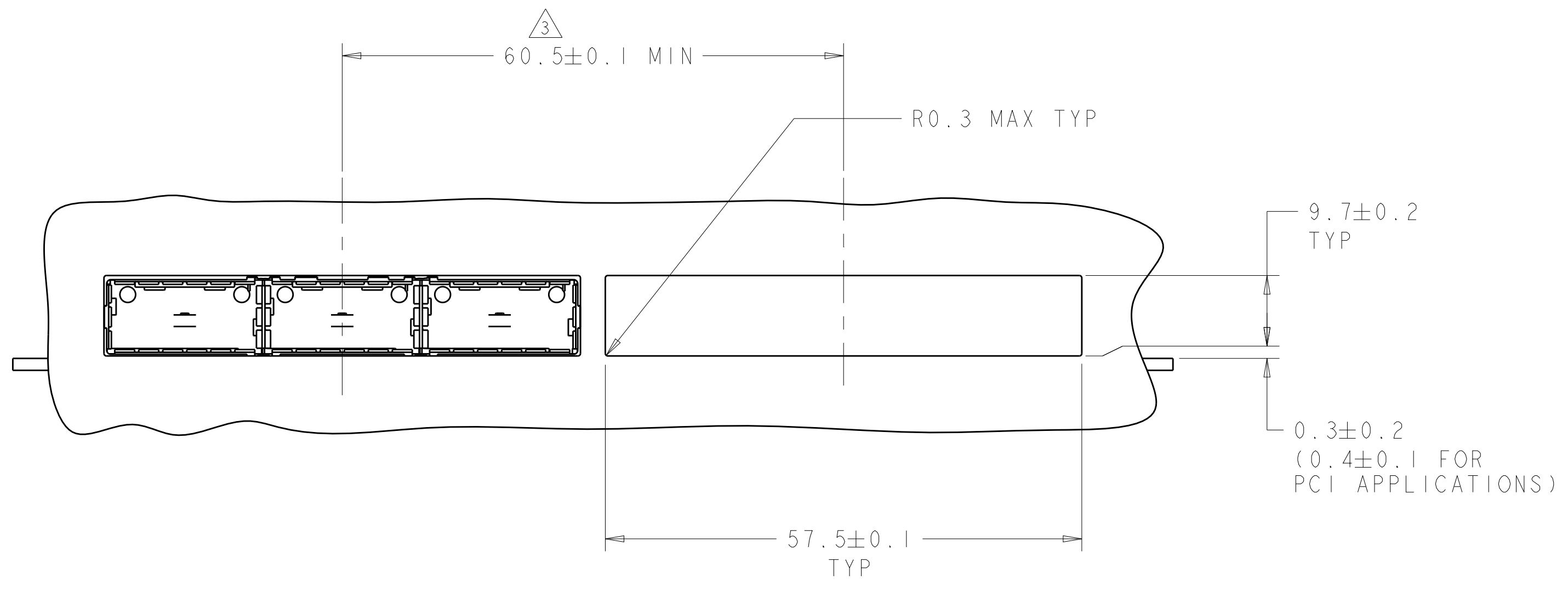
LOC	DIST	REVISIONS			
P	LTN	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-



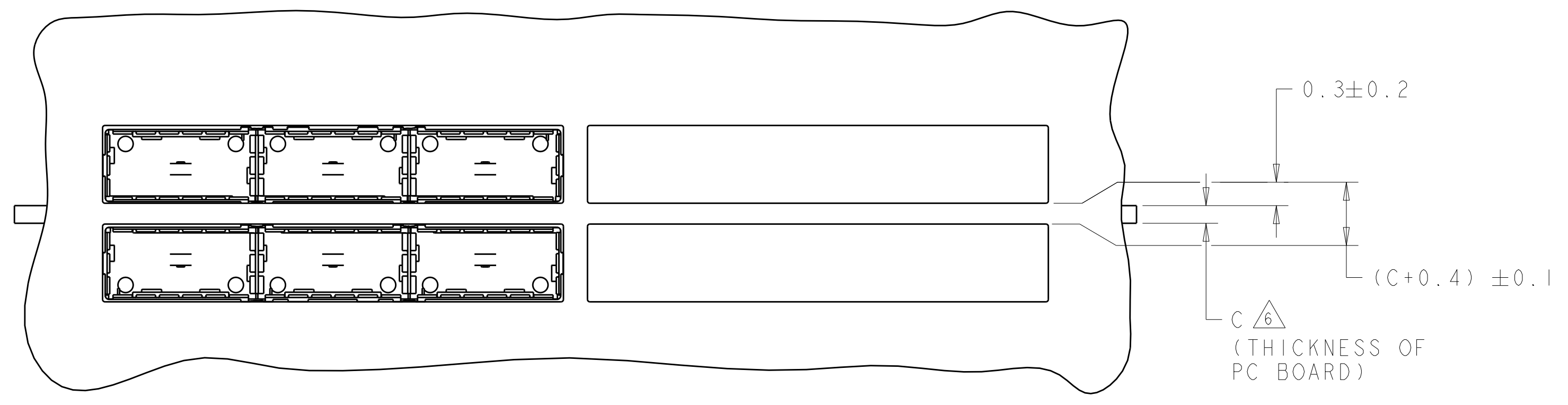
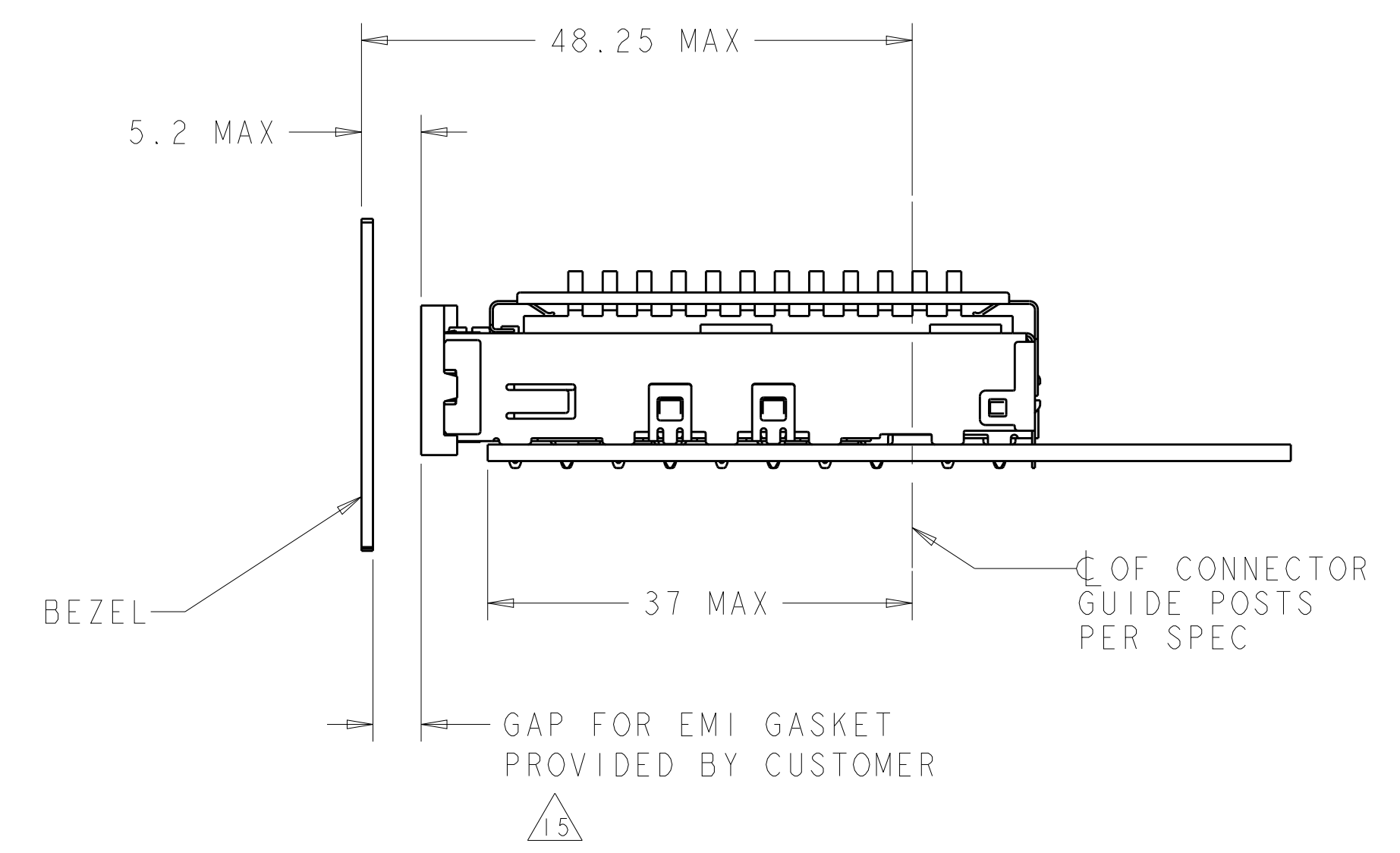
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 07NOV2007	TE Connectivity
DIMENSIONS:		CHK E. BRIGHT 07NOV2007	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 07NOV2007	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC	±	PRODUCT SPEC	SIZE A100779C=2007456
1 PLC	±0.1	108-2286	RESTRICTED TO
2 PLC	±0.1	APPLICATION SPEC	
3 PLC	±	114-13218	
4 PLC	±	WEIGHT	
ANGLES	±	CUSTOMER DRAWING	SCALE 4:1 SHEET 2 OF 5 REV F
MATERIAL	FINISH		

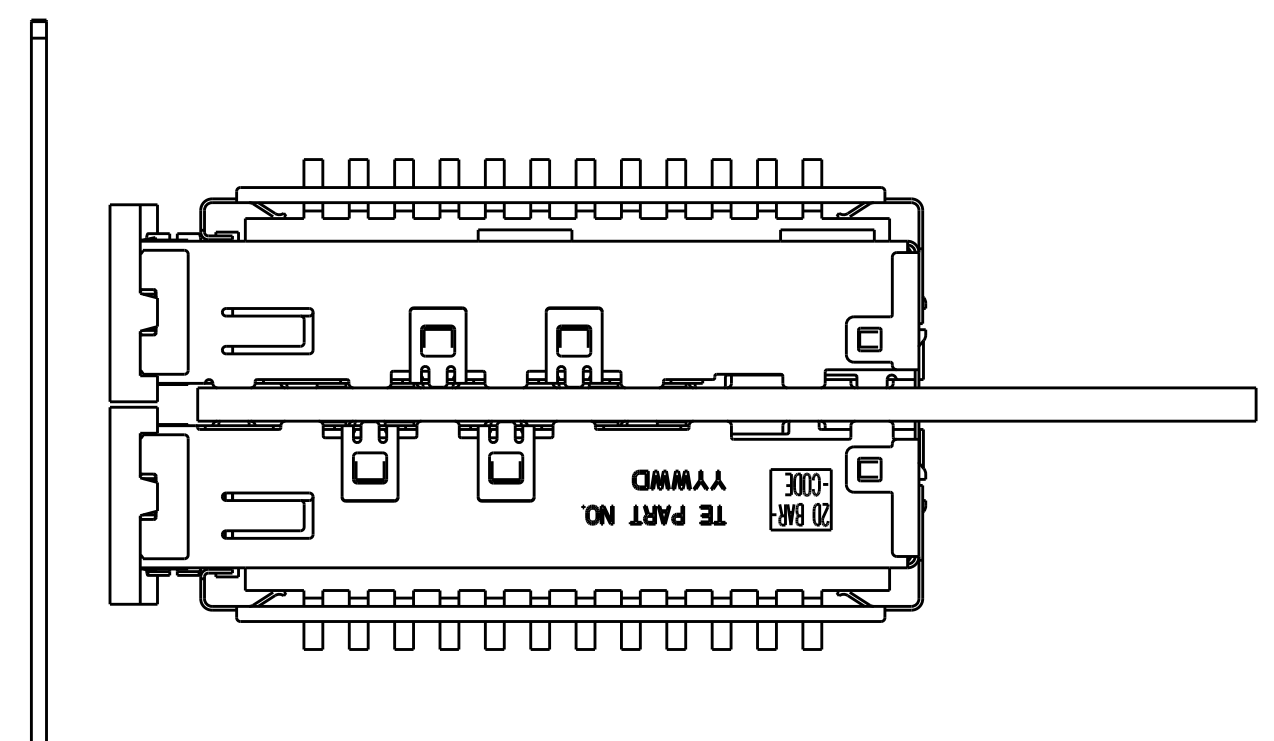
LOC		DIST		REVISIONS			
P	LTN	DESCRIPTION	DATE	DMN	APVD		
-	-	SEE SHEET 1	-	-	-		



ONE SIDED CONFIGURATION
 SCALE 2:1



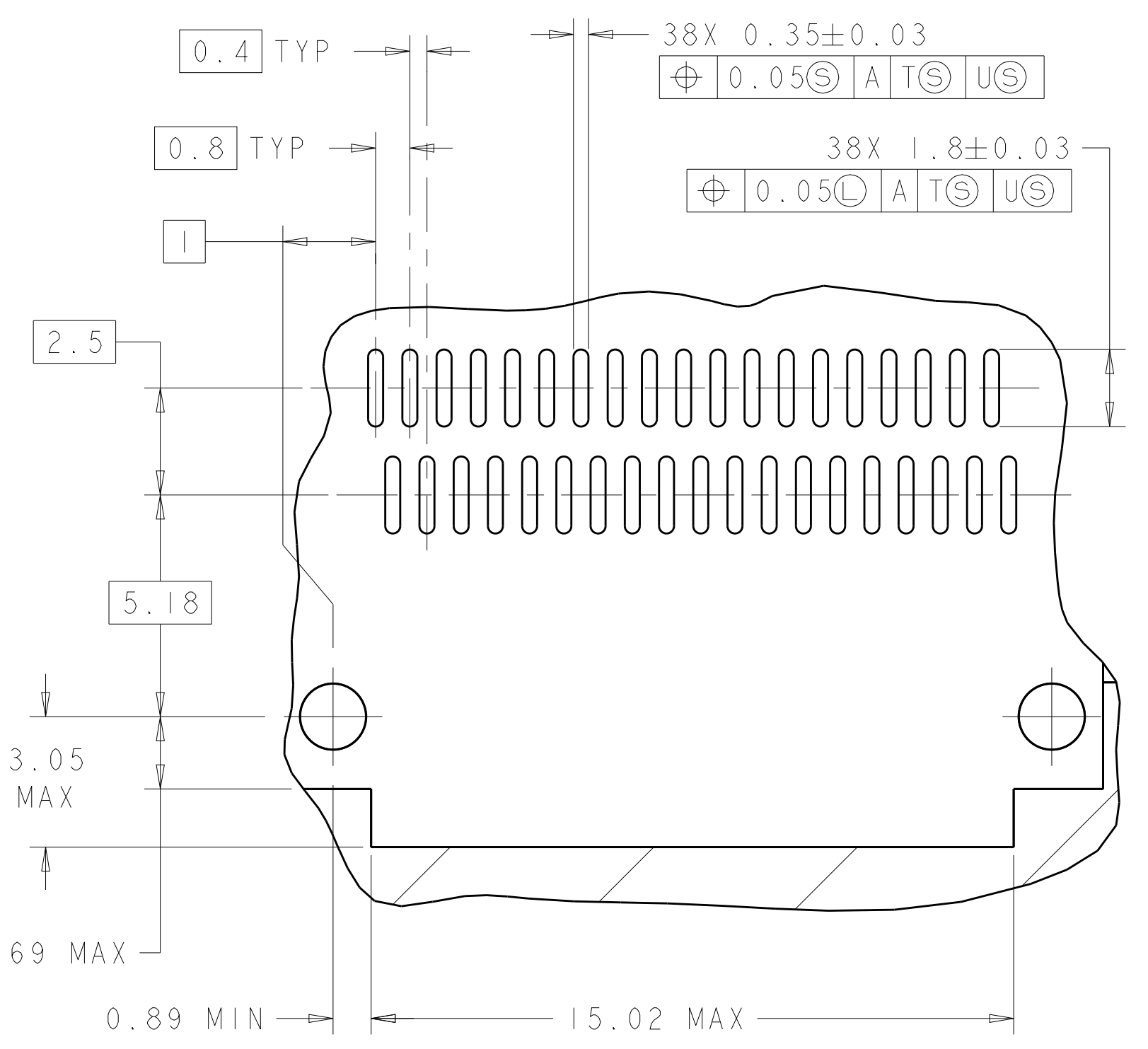
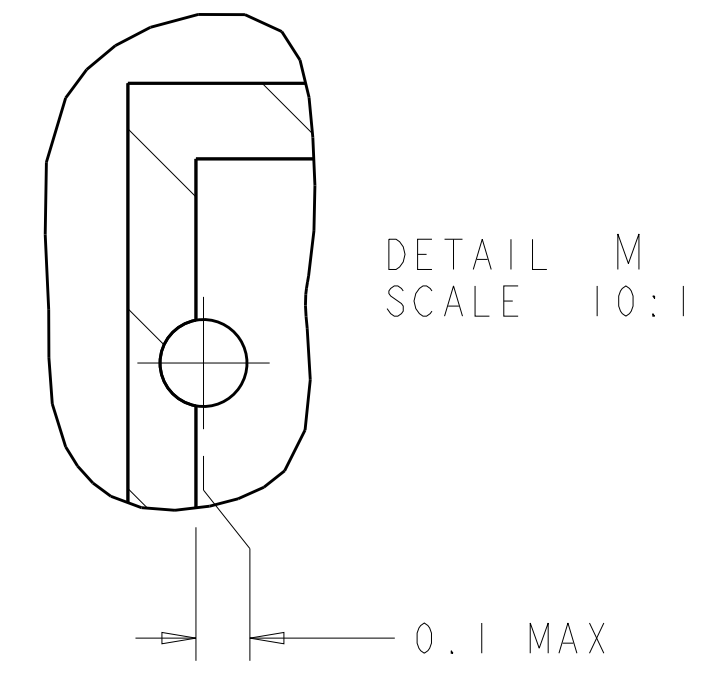
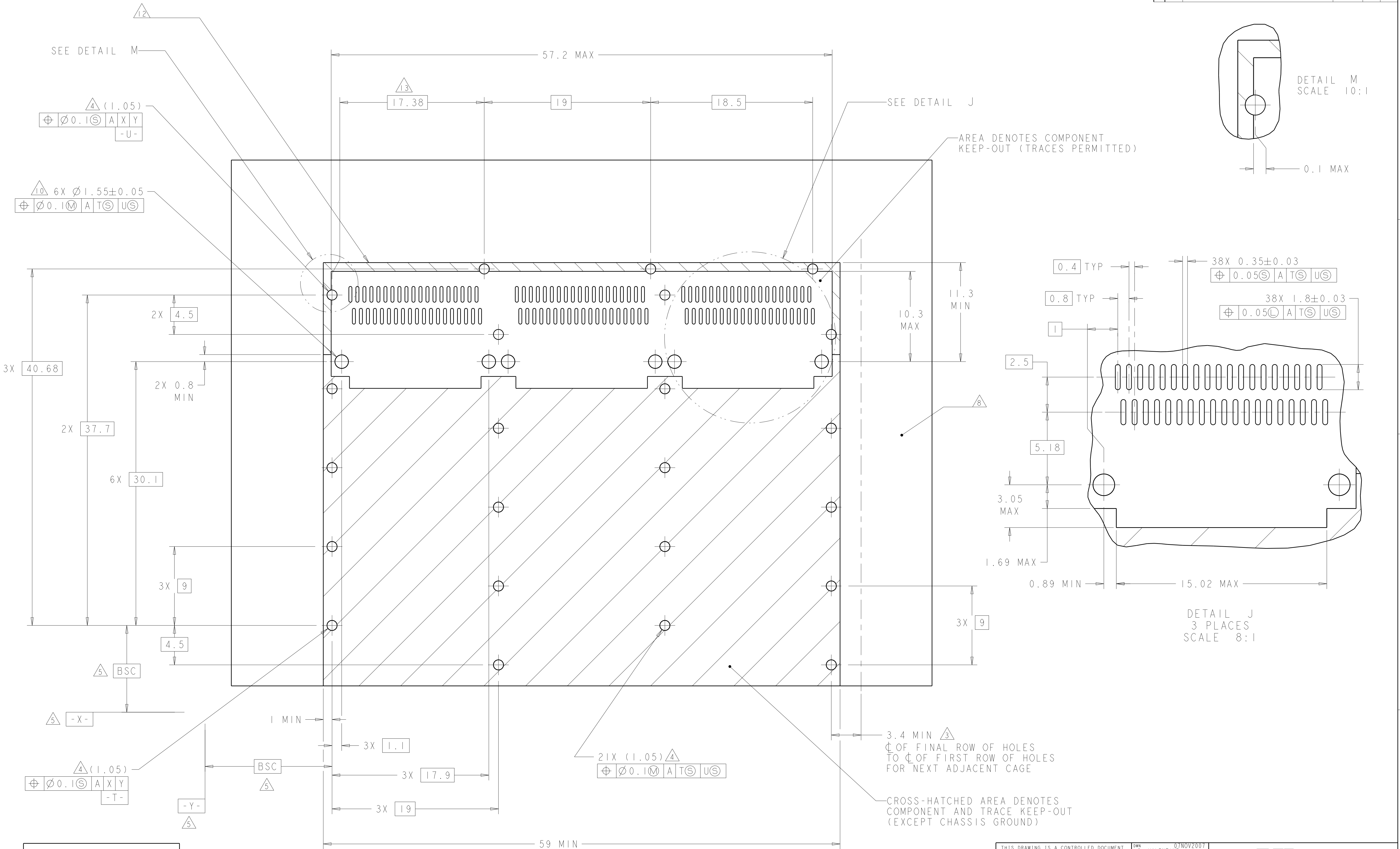
BELLY TO BELLY CONFIGURATION SIMILAR
 TO ONE SIDED EXCEPT WHERE NOTED
 SCALE 2:1



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THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 07NOV2007	TE Connectivity
DIMENSIONS: mm		CHK E. BRIGHT 07NOV2007	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD E. BRIGHT 07NOV2007	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC ±		PRODUCT SPEC 108-2286	
1 PLC ±0.1		APPLICATION SPEC 114-13218	SIZE CAGE CODE DRAWING NO RESTRICTED TO A100779C=2007456
2 PLC ±0.1		WEIGHT	
3 PLC ±		CUSTOMER DRAWING	SCALE 4:1 SHEET 3 OF 5 REV F
4 PLC ±			
ANGLES ±			
MATERIAL			
FINISH			

LOC	DIST	REV	DESCRIPTION	DATE	OWN	APVD
GP	00		SEE SHEET 1			



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

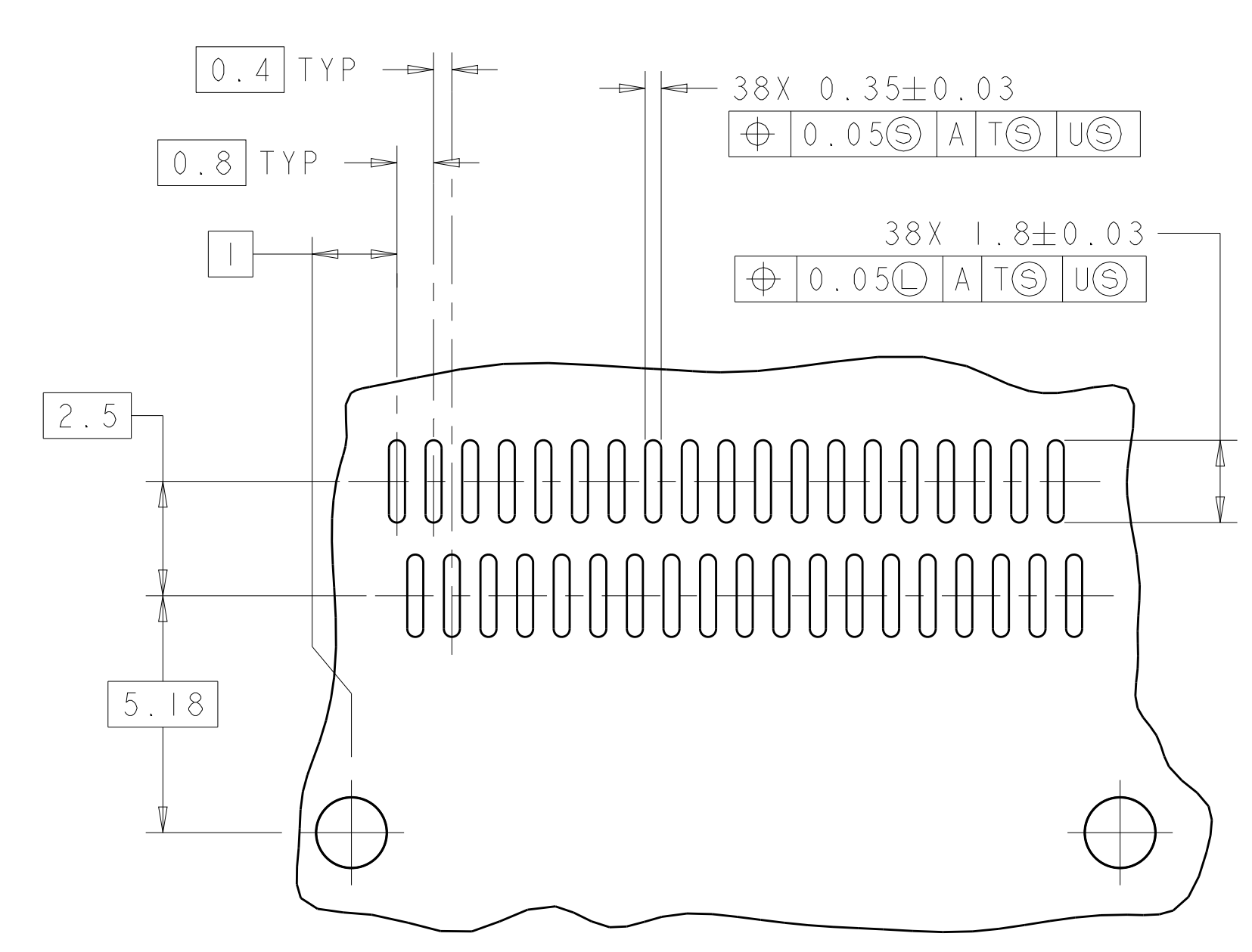
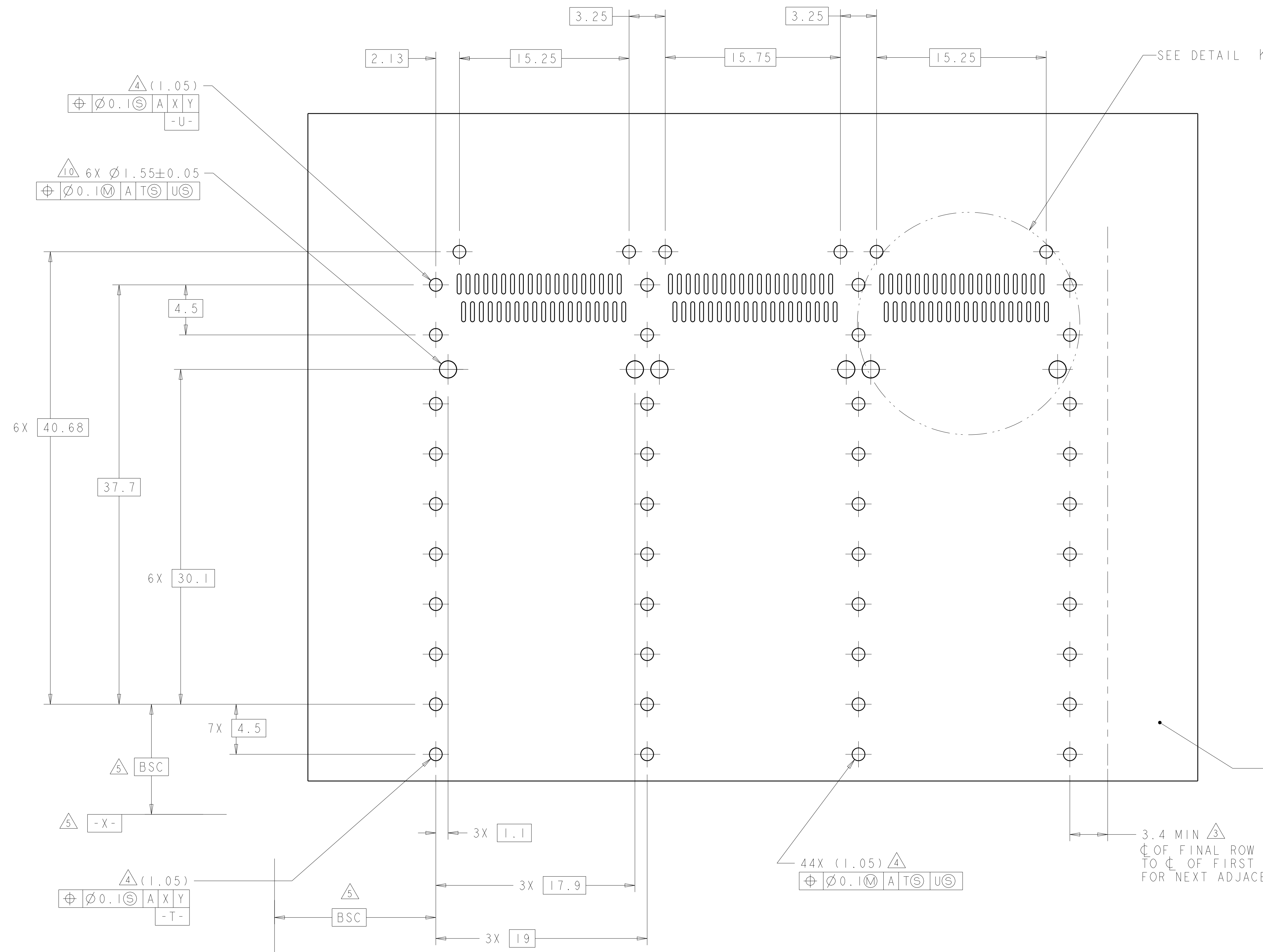
3.4 MIN ∅ OF FINAL ROW OF HOLES TO ∅ OF FIRST ROW OF HOLES FOR NEXT ADJACENT CAGE

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

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
mm	0 PLC ±	1 PLC ±0.1	2 PLC ±0.1
	3 PLC ±	4 PLC ±	5 PLC ±
	ANGLES ±		
MATERIAL	FINISH	WEIGHT	APPROVALS

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN C. VALENTINE 07NOV2007	CHK E. BRIGHT 07NOV2007	APVD E. BRIGHT 07NOV2007
	PRODUCT SPEC 108-2286	APPLICATION SPEC 114-13218	WEIGHT
	SIZE CAGE CODE DRAWING NO	RESTRICTED TO	
	A100779C=2007456		
	CUSTOMER DRAWING	SCALE 4:1	SHEET 4 OF 5 REV F

LOC	DIST	REVISIONS					
GP	00	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

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DIMENSIONS: mm		CHK E. BRIGHT 07NOV2007	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD F. BRIGHT 07NOV2007	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC ±0.1		PRODUCT SPEC 108-2286	
2 PLC ±0.1		APPLICATION SPEC 114-13218	SIZE CAGE CODE DRAWING NO. RESTRICTED TO A100779 ©=2007456
4 PLC ±0.1		WEIGHT 114-13218	
MATERIAL FINISH		CUSTOMER DRAWING	SCALE 4:1 SHEET 5 OF 5 REV F

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