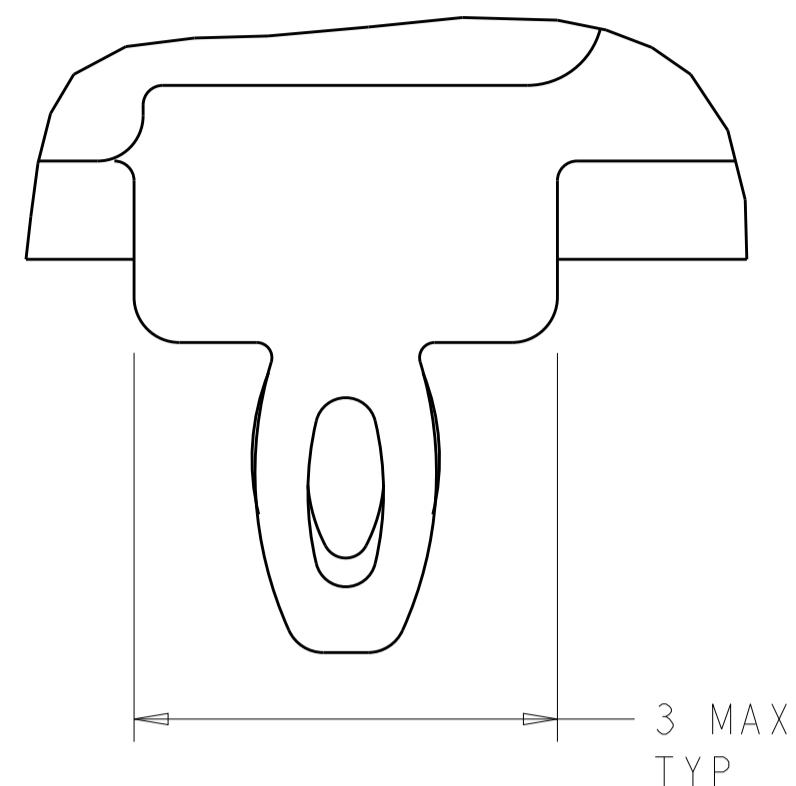


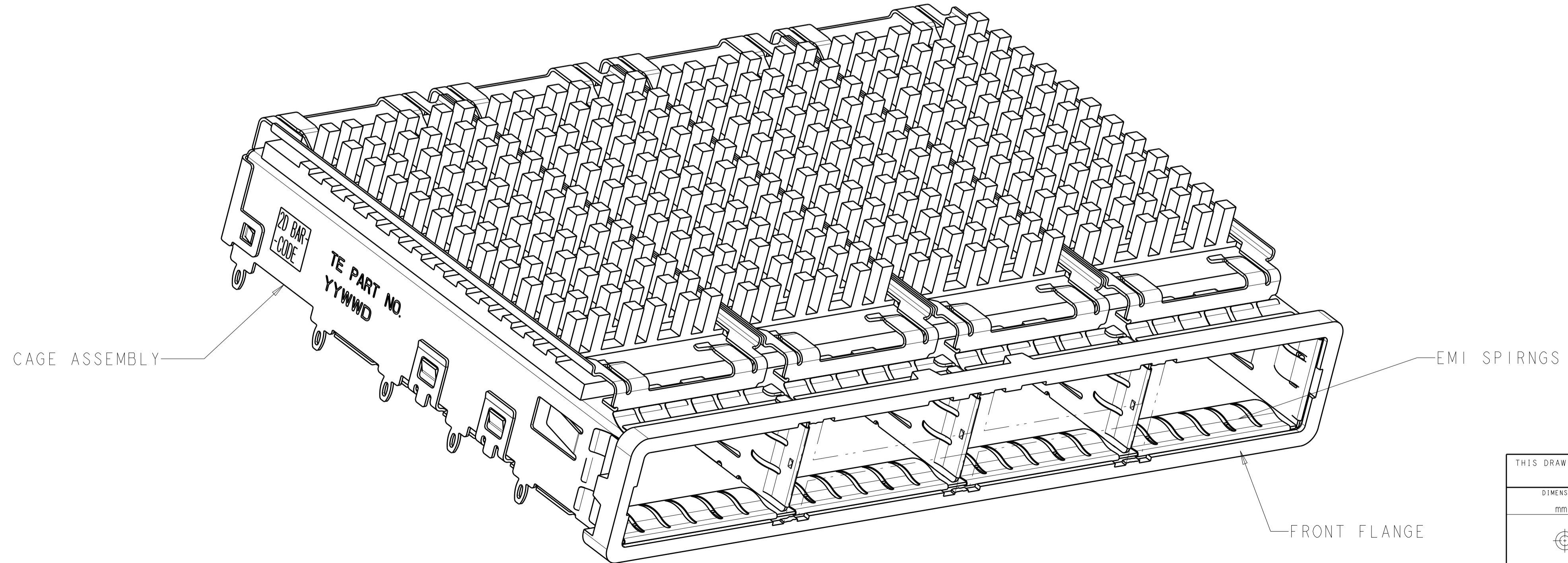
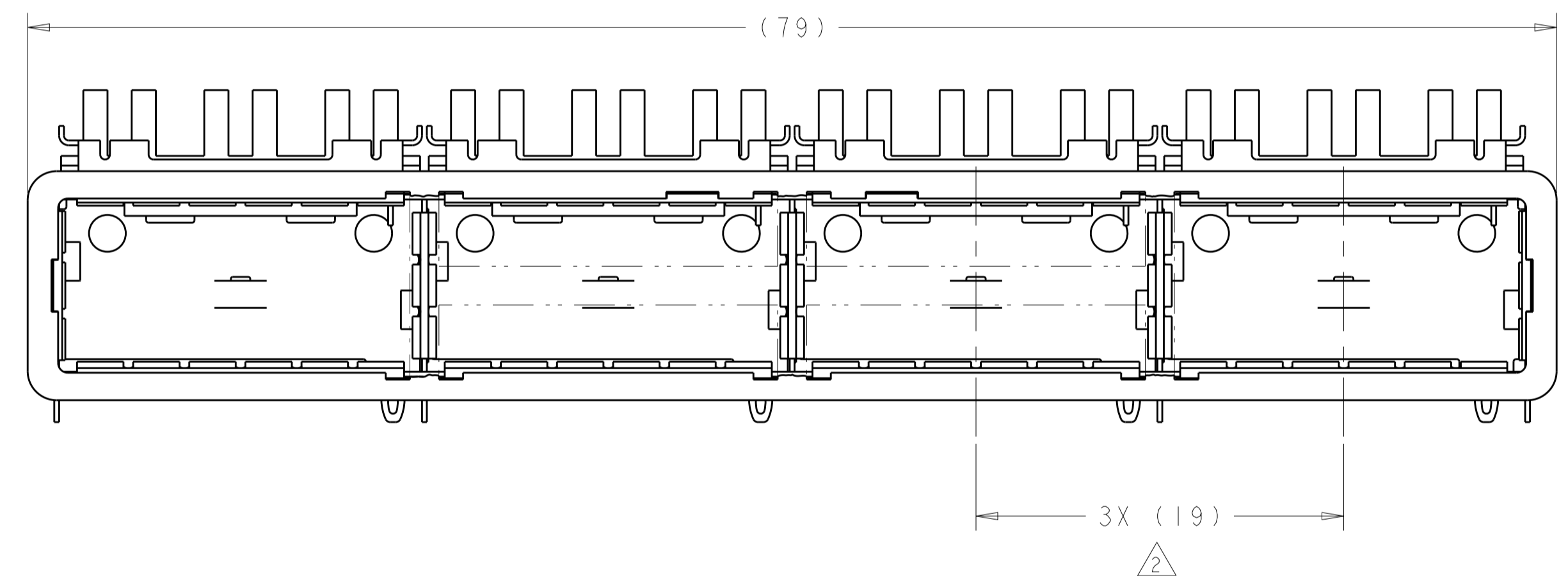
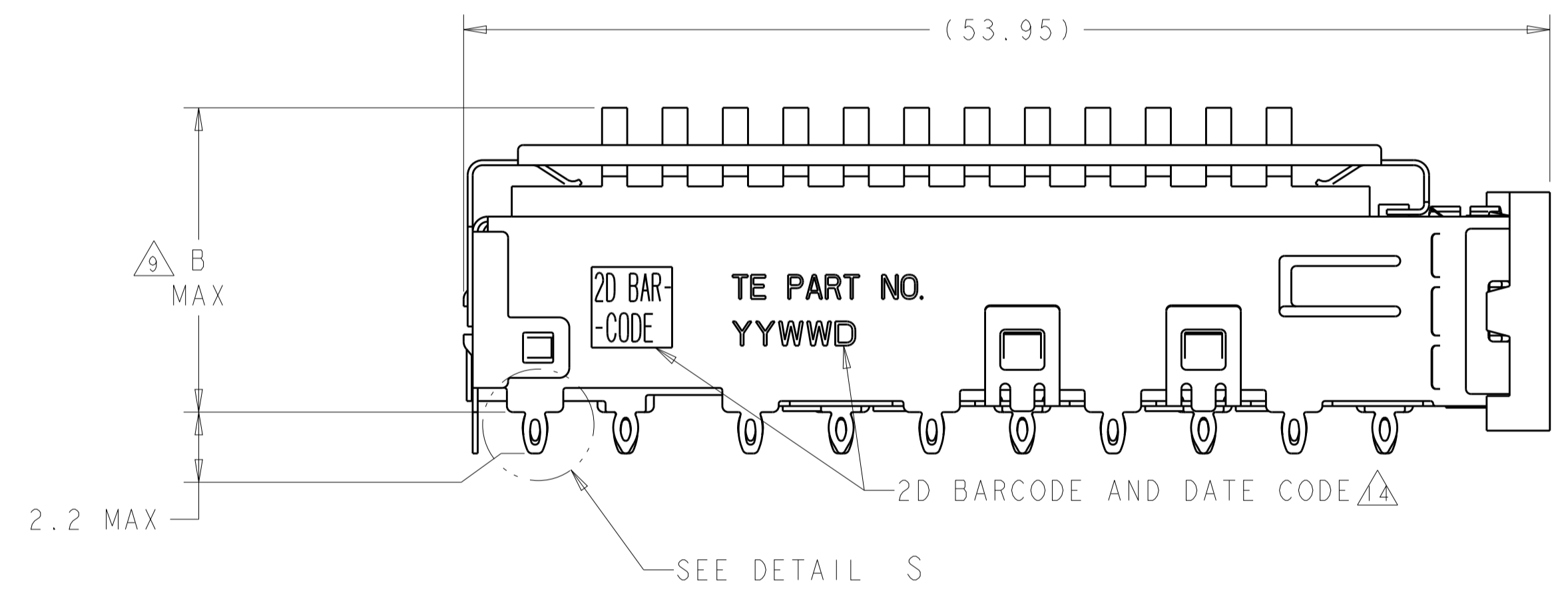
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		P	LTN	DESCRIPTION	DATE	DMN	APVD
GP	00	C		REVISED PER ECO-10-018054	03NOV2010	CJV	EJB
		D		REVISED PER ECO-12-003841	14MAR2012	KS	AC
		E		REVISED PER ECO-12-005533	31MAR2012	JY	AC
		F		REVISED PER ECO-14-017735	30EC2014	RG	MC



DETAIL S  $\Delta 12$   
 SCALE 20:1

- $\Delta 1$  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
- $\Delta 2$  PITCH BETWEEN PORTS OF ONE 1X4 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,  
 SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm  
 DOUBLE SIDED PC BOARD MINIMUM 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.
- 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.
- $\Delta 13$  BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- $\Delta 14$  2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE ASSEMBLY.
- $\Delta 15$  REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.

$\Delta 16$  EMI SPRING FINISH: 2 $\mu$ m MINIMUM TIN  
 FRONT FLANGE FINISH: 3 $\mu$ m MINIMUM TIN OVER 1.27 $\mu$ m MINIMUM NICKEL OVER 5.08 $\mu$ m MINIMUM COPPER.  
 HEAT SINK FINISH: NICKEL.

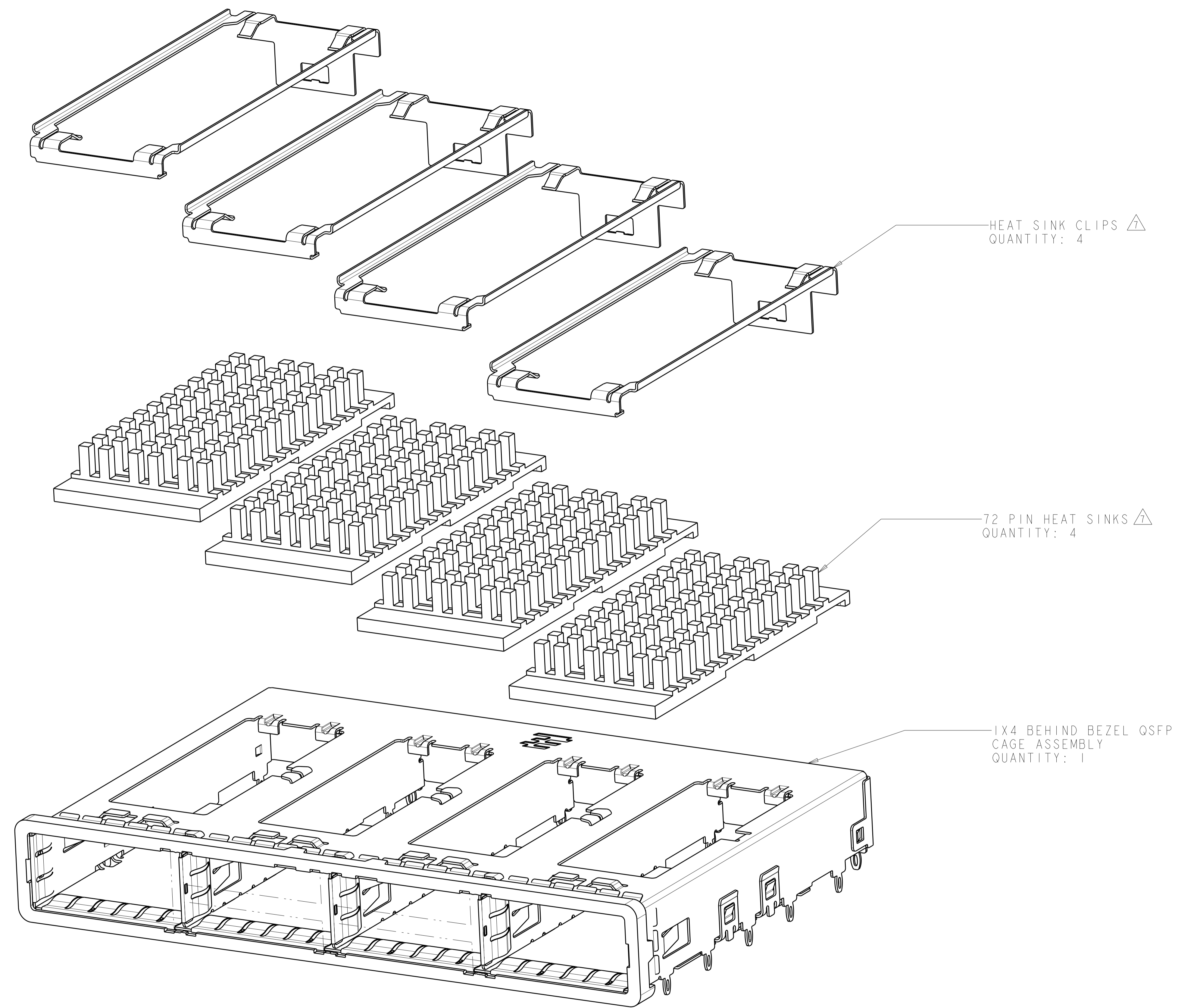


23.0	NETWORKING	2007625-3
16.0	SAN	2007625-2
13.7	PCI	2007625-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

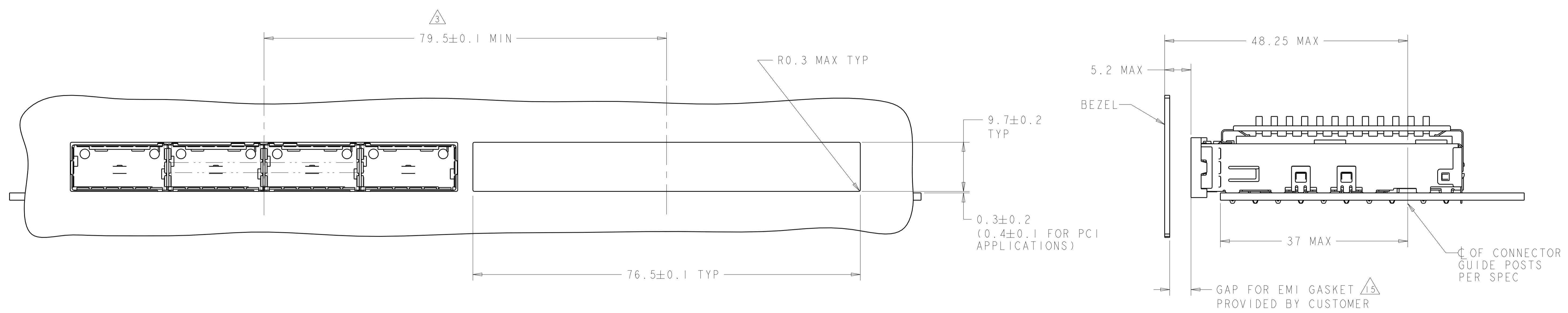
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN: C. VALENTINE 09JUN2008	CHK: E. BRIGHT 09JUN2008	APVD: F. BRIGHT 09JUN2008
mm	0 PLC $\pm$	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP		
	1 PLC $\pm 0.1$	SIZE: CAGE CODE DRAWING NO. RESTRICTED TO		
	2 PLC $\pm 0.1$	A100779C=2007625		
	3 PLC $\pm$	SCALE: 4:1 SHEET 1 OF 5 REV F		
	4 PLC $\pm$	CUSTOMER DRAWING		
	ANGLES $\pm$			
	FINISH			

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

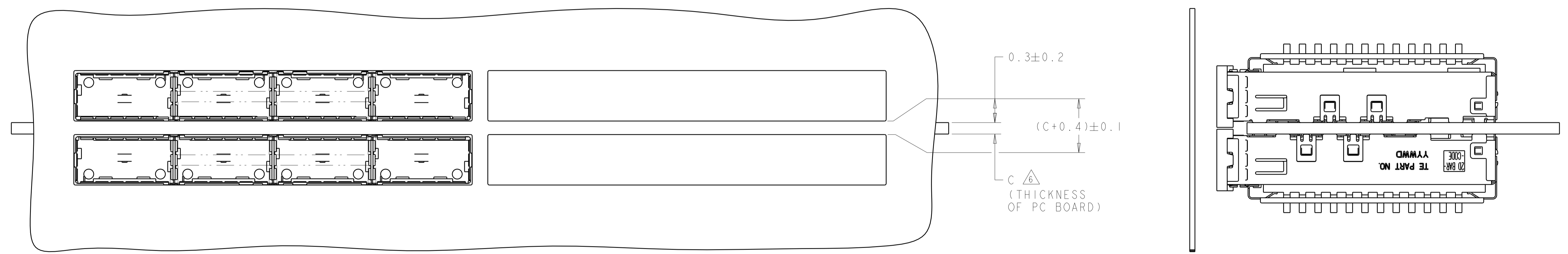


THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	TE Connectivity
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC	±	PRODUCT SPEC	SIZE A100779C=2007625
1 PLC	±0.1	108-2286	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					
GP	00	P	LTN	DESCRIPTION	DATE	DMN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION  
 SCALE 5:2

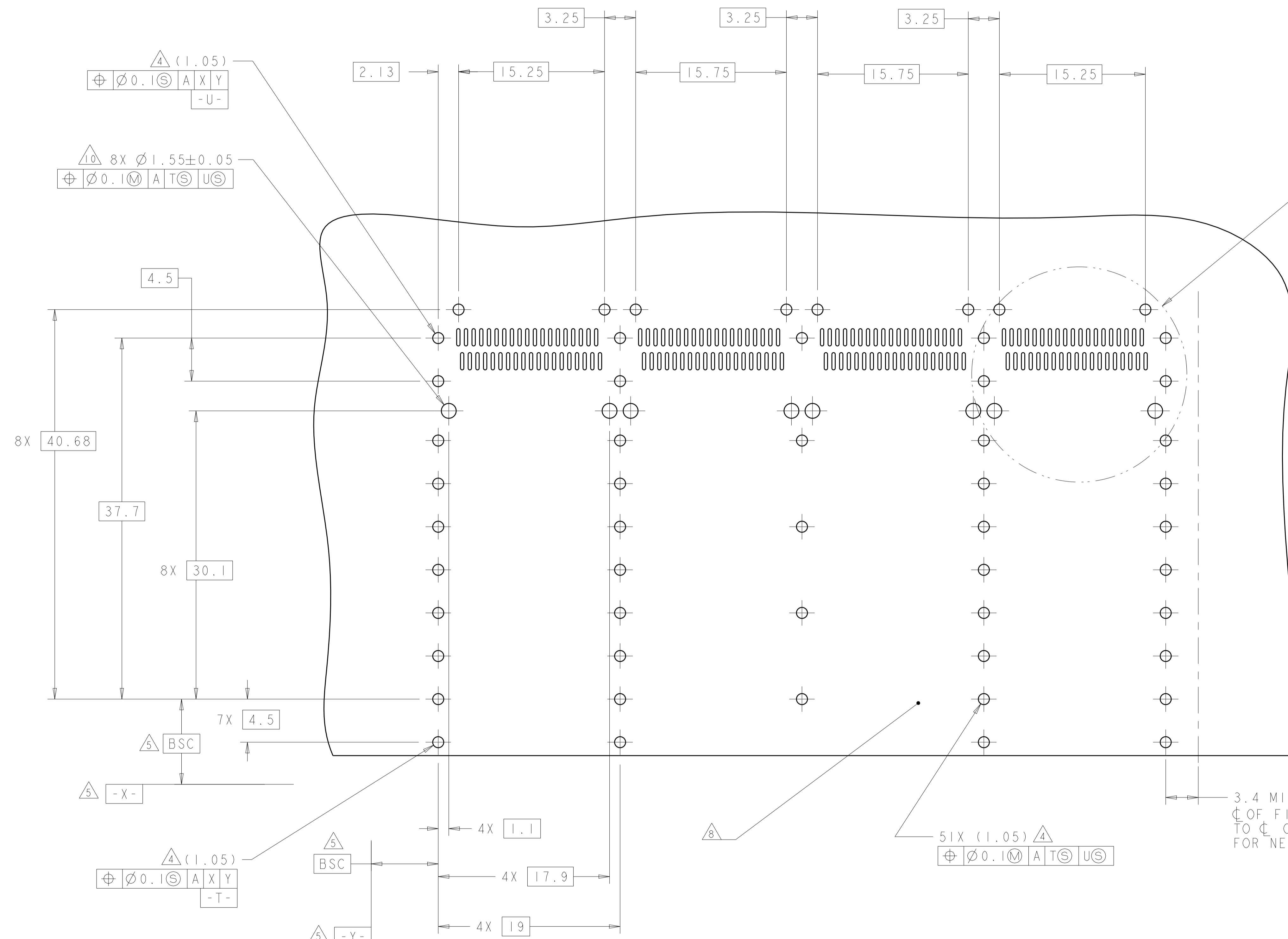


BELLY TO BELLY CONFIGURATION SIMILAR  
 TO ONE SIDED EXCEPT WHERE NOTED  
 SCALE 5:2

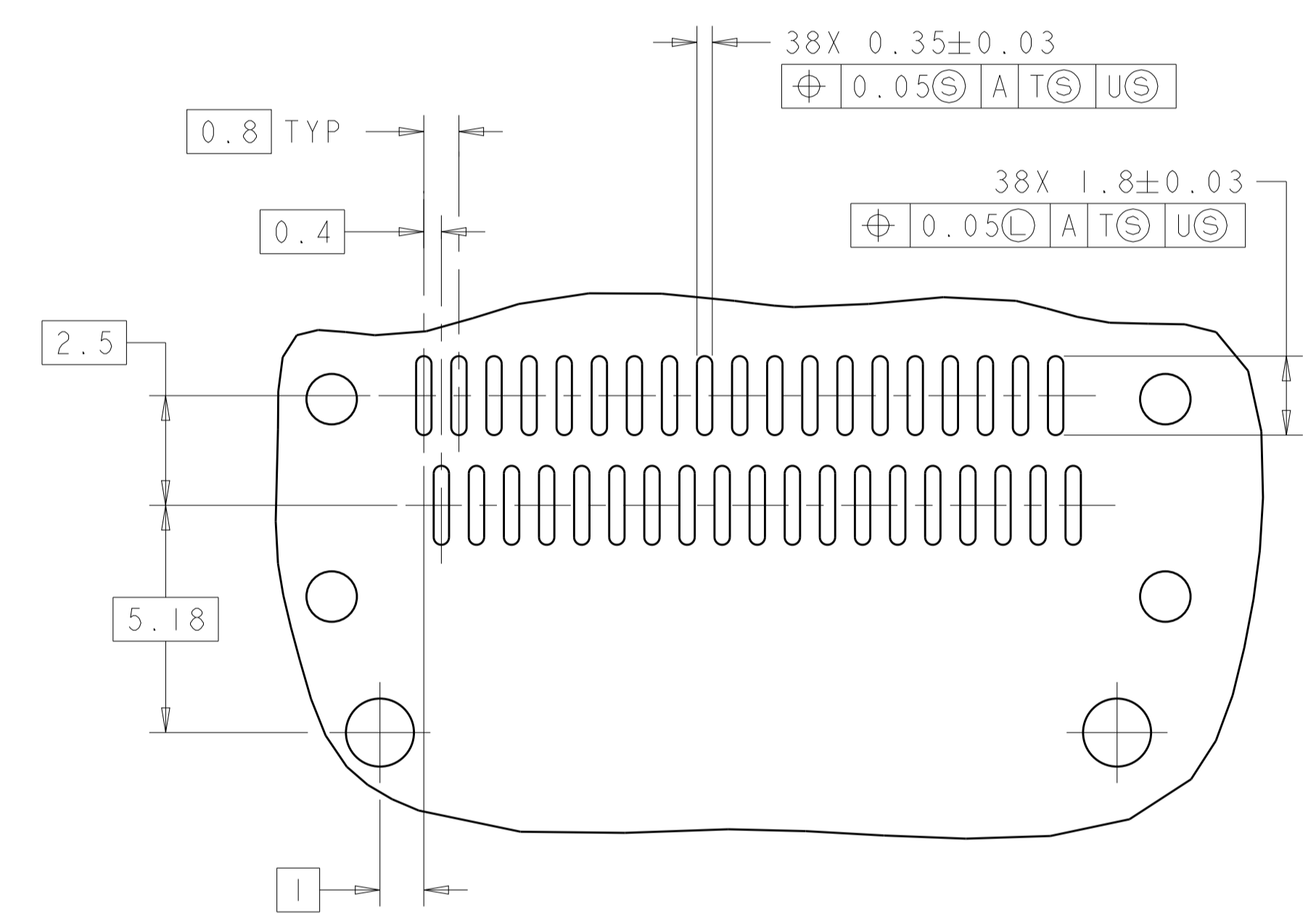
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008		NAME	
DIMENSIONS:		CHK E. BRIGHT 09JUN2008		1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	PRODUCT SPEC	SIZE	CAGE CODE
0 PLC ±	1 PLC ±0.1	APPLICATION SPEC	108-2286	114-13218	DRAWING NO
2 PLC ±0.1	3 PLC ±	WEIGHT	-	A100779	C=2007625
4 PLC ±	ANGLES ±	CUSTOMER DRAWING	SCALE	4:1	SHEET
MATERIAL	FINISH	RESTRICTED TO	3	OF	5
-	-	REV	F		



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



SEE DETAIL K



DETAIL K  
SCALE 8:1

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

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	TE Connectivity NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	PRODUCT SPEC
0 PLC	±		108-2286
2 PLC	±0.1		APPLICATION SPEC
3 PLC	±		114-13218
4 PLC	±		WEIGHT
ANGLES	±		114-13218
MATERIAL	FINISH		CUSTOMER DRAWING
		SCALE 4:1	SHEET 5 OF 5 REV F