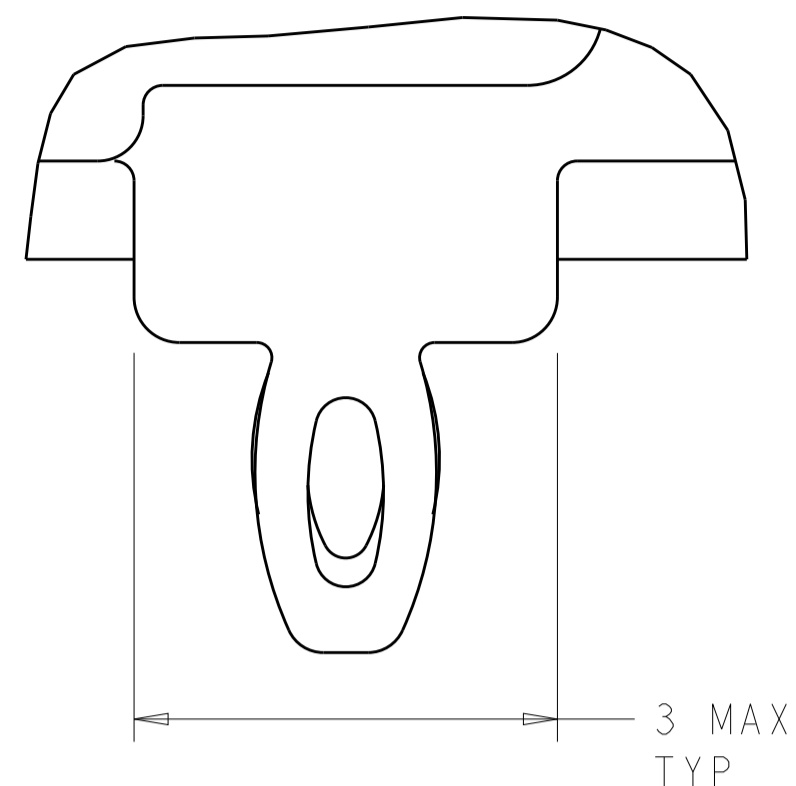


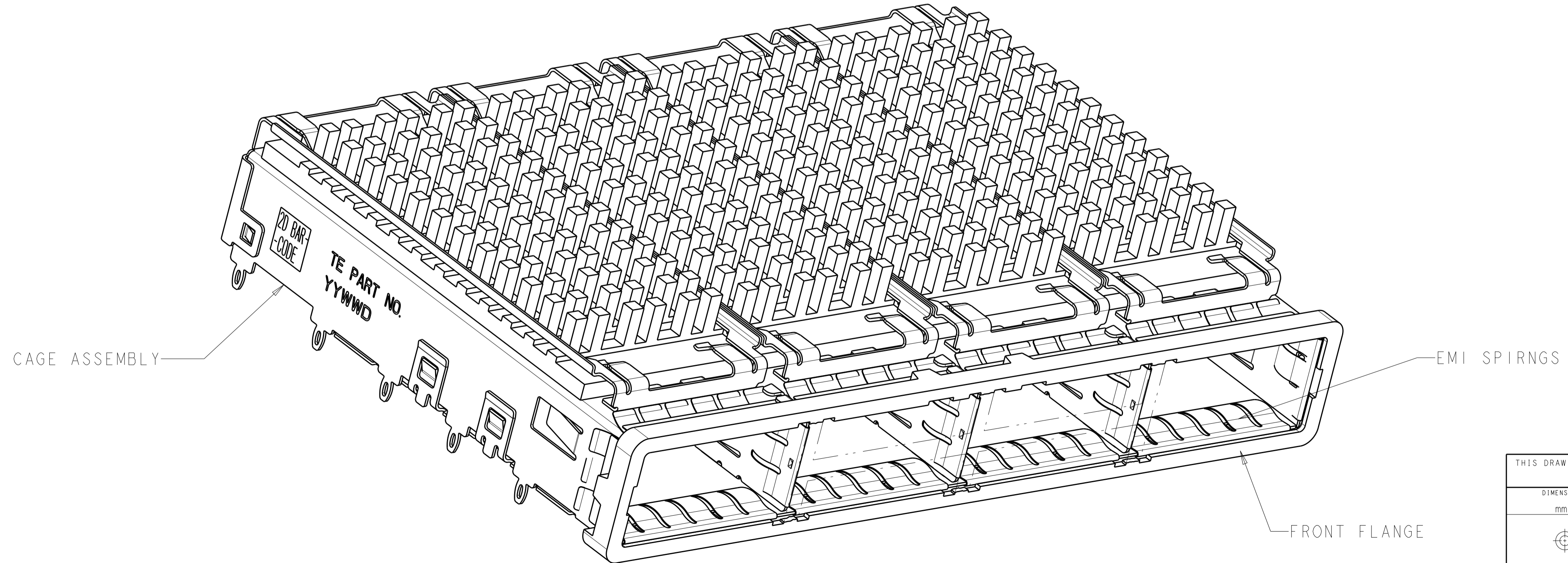
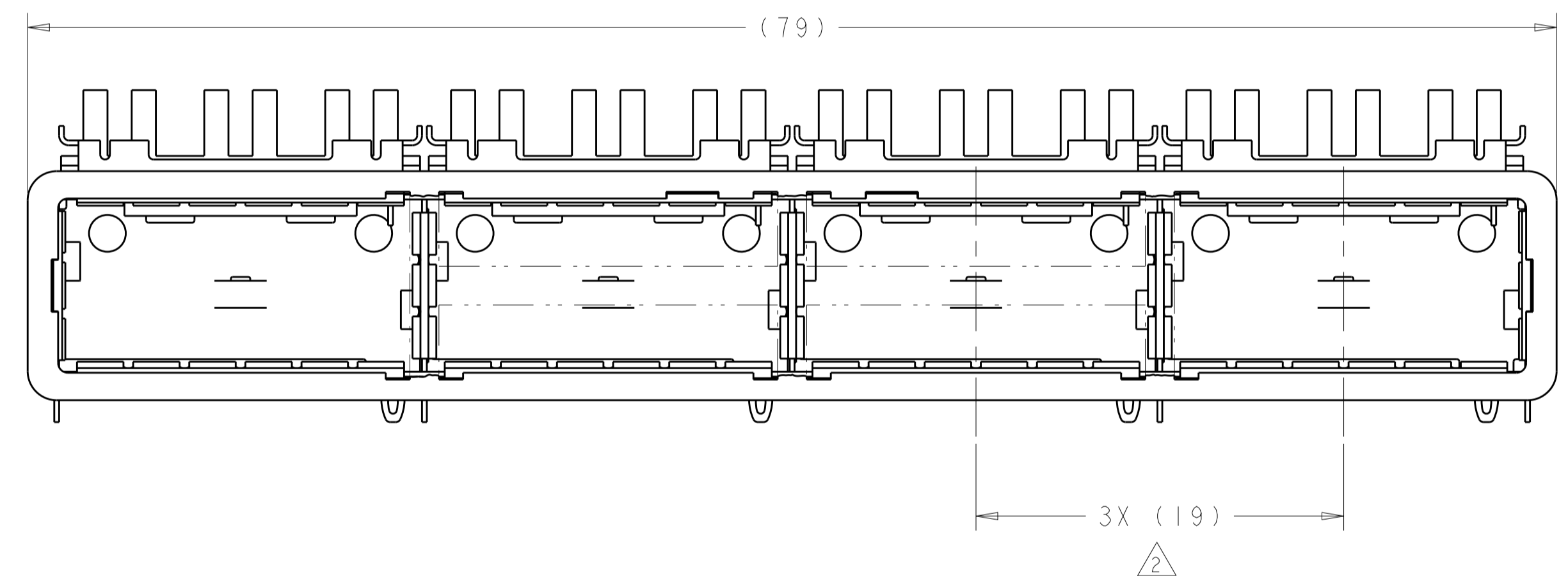
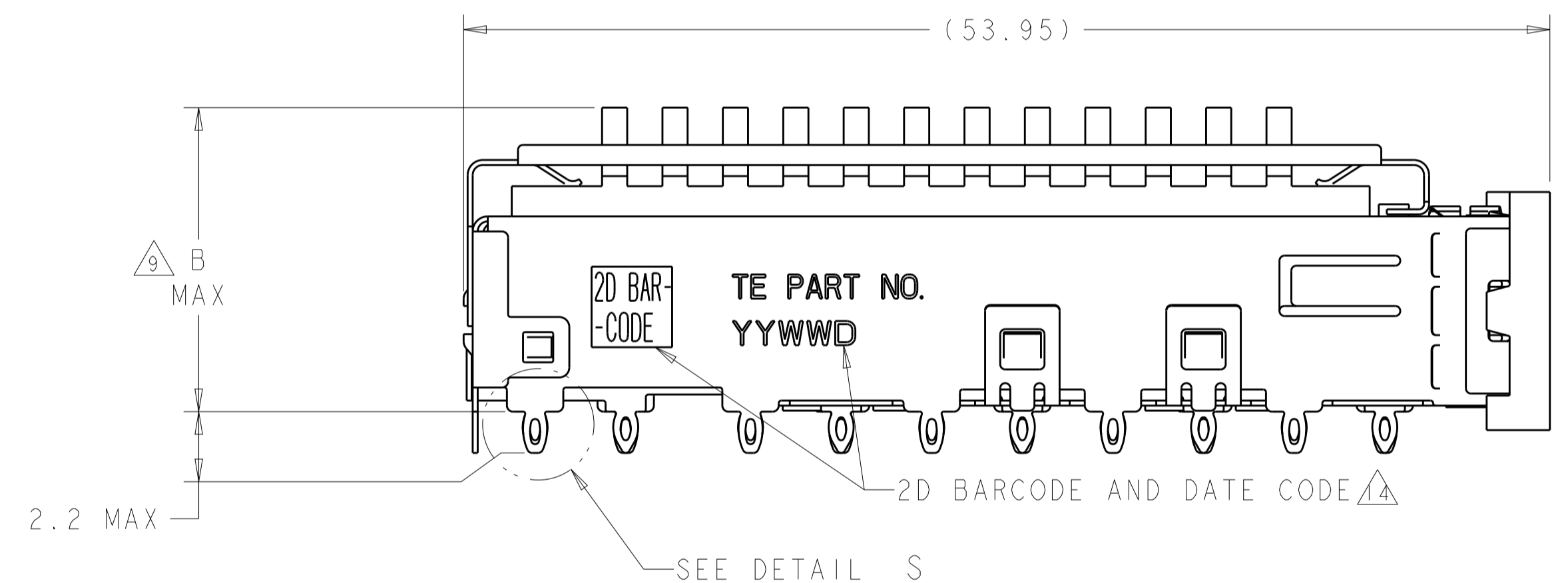
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		P	LTN	DESCRIPTION	DATE	DWN	APVD
GP	00						
		C		REVISED PER ECO-10-018054	03NOV2010	CJV	EJB
		D		REVISED PER ECO-12-003841	14MAR2012	KS	AC
		E		REVISED PER ECO-12-005533	31MAR2012	JY	AC
		F		REVISED PER ECO-14-017735	30EC2014	RG	MC



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 μ m MINIMUM TIN
 FRONT FLANGE FINISH: 3 μ m MINIMUM TIN OVER 1.27 μ m MINIMUM NICKEL OVER 5.08 μ m MINIMUM COPPER.
 HEAT SINK FINISH: NICKEL.

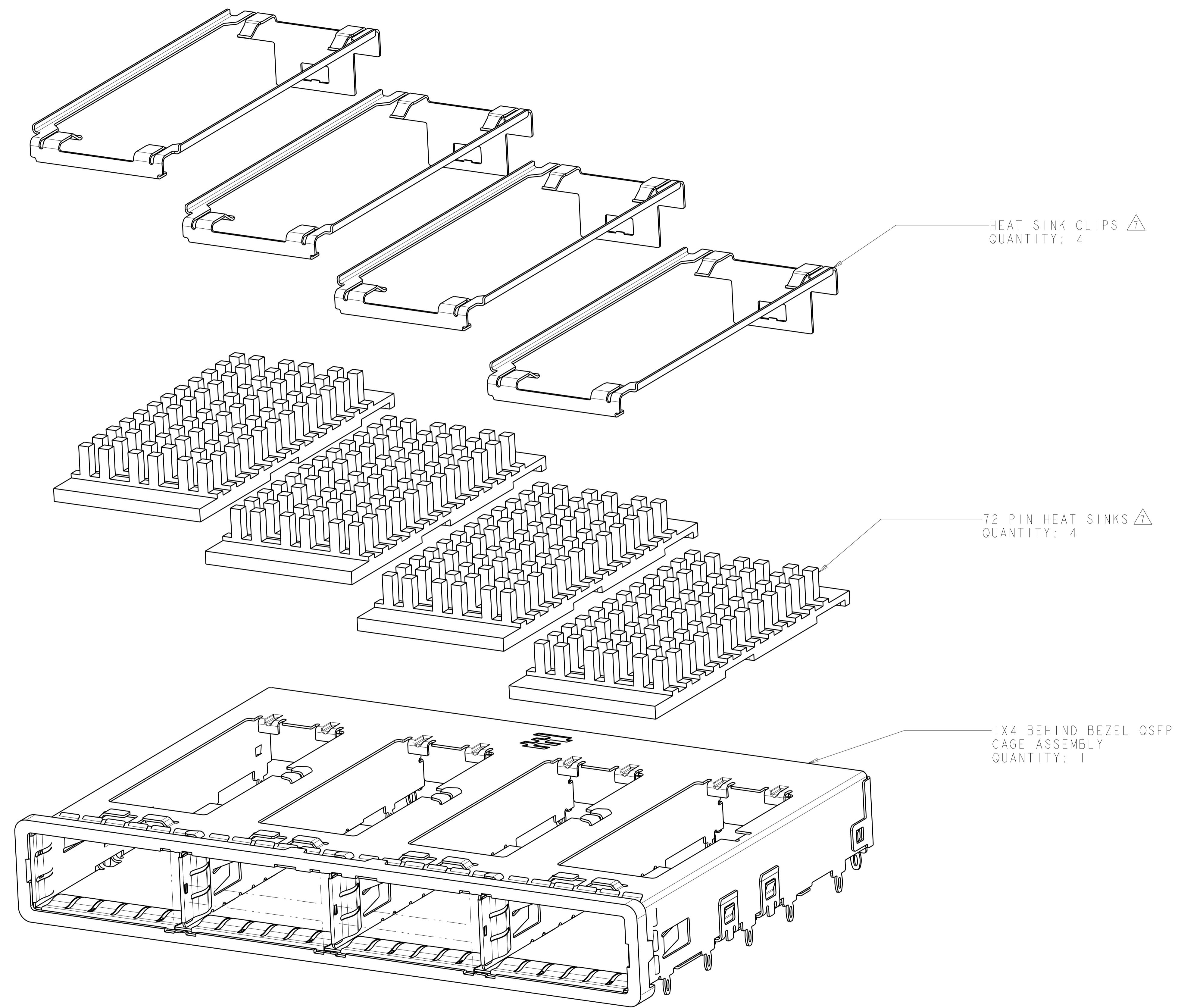



23.0	NETWORKING	2007625-3
16.0	SAN	2007625-2
13.7	PCI	2007625-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

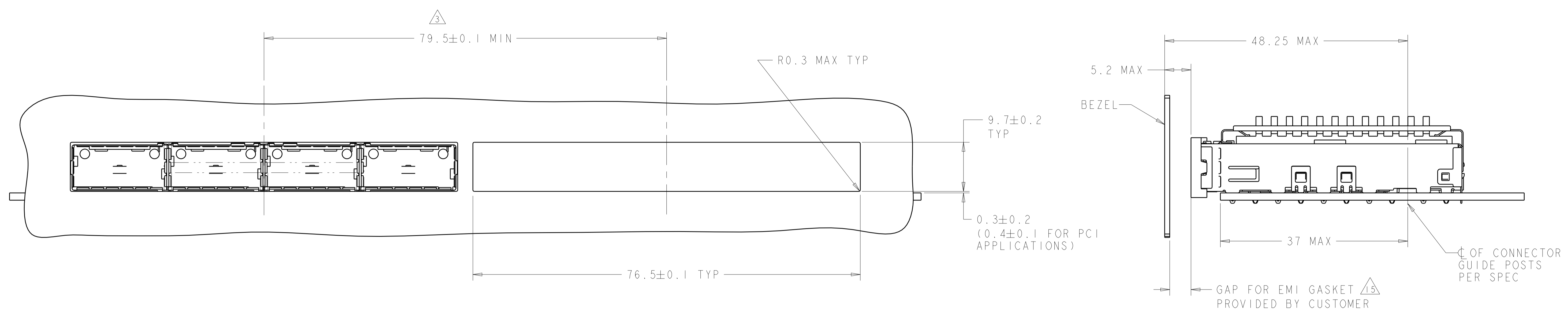
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN: C. VALENTINE 09JUN2008	CHK: E. BRIGHT 09JUN2008	APVD: F. BRIGHT 09JUN2008
mm	0 PLC \pm	NAME: 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP		
	1 PLC ± 0.1	SIZE: CAGE CODE DRAWING NO. RESTRICTED TO		
	2 PLC ± 0.1	A100779C=2007625		
	3 PLC \pm	SCALE: 4:1 SHEET 1 OF 5 REV F		
	4 PLC \pm	CUSTOMER DRAWING		
	ANGLES \pm			
MATERIAL $\Delta 1$	FINISH $\Delta 16$			

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

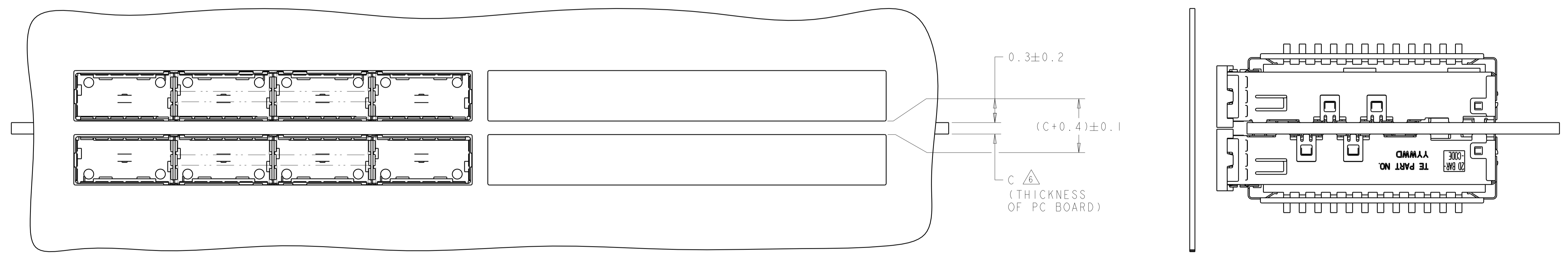


THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	 TE Connectivity
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC	±	PRODUCT SPEC	SIZE
1 PLC	±0.1	108-2286	CAGE CODE
2 PLC	±0.1	APPLICATION SPEC	DRAWING NO
3 PLC	±	114-13218	RESTRICTED TO
4 PLC	±	WEIGHT	A100779C=2007625
ANGLES	±	CUSTOMER DRAWING	SCALE
MATERIAL	FINISH	SCALE	4:1
		SHEET	2
		OF	5
		REV	F

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



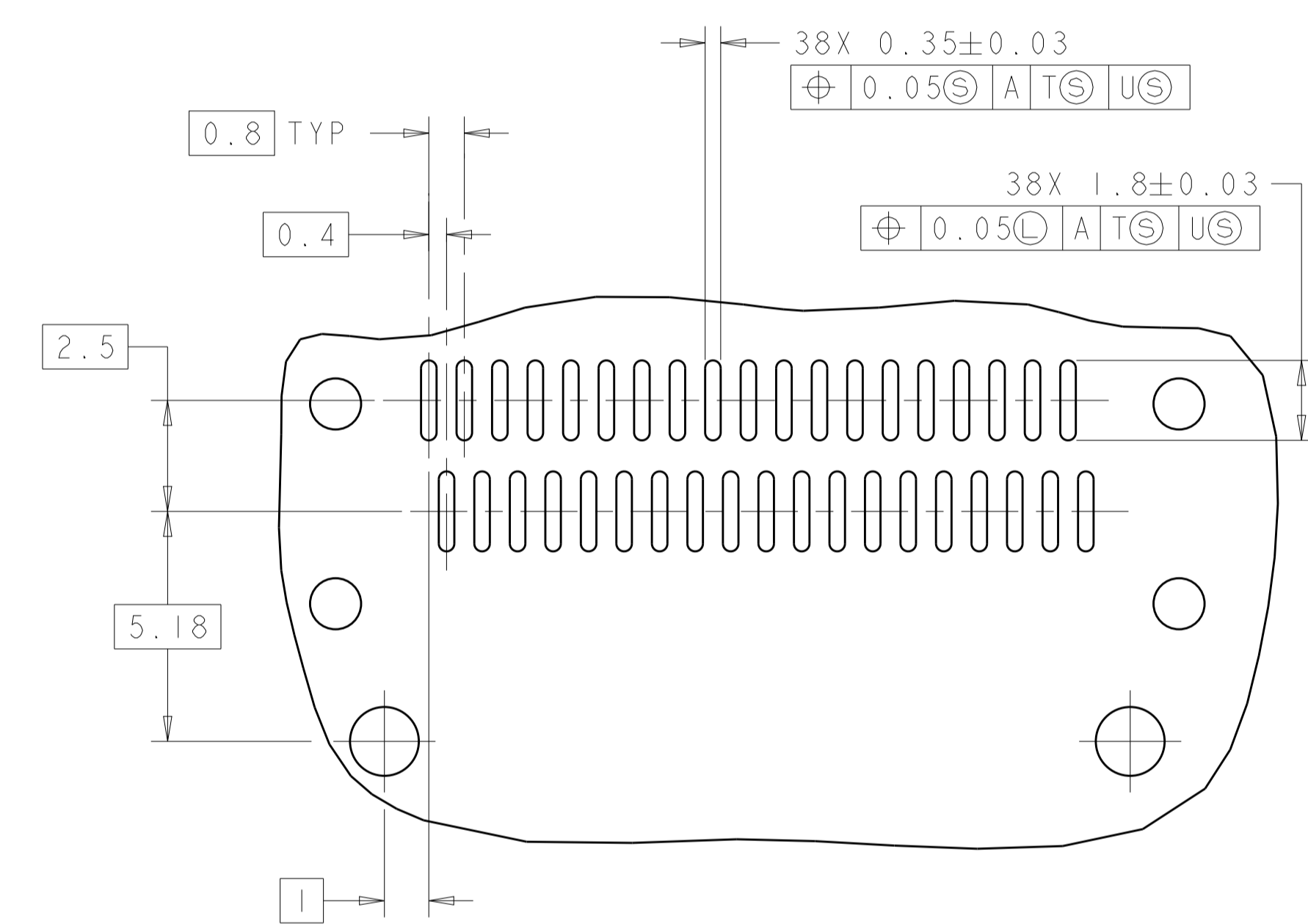
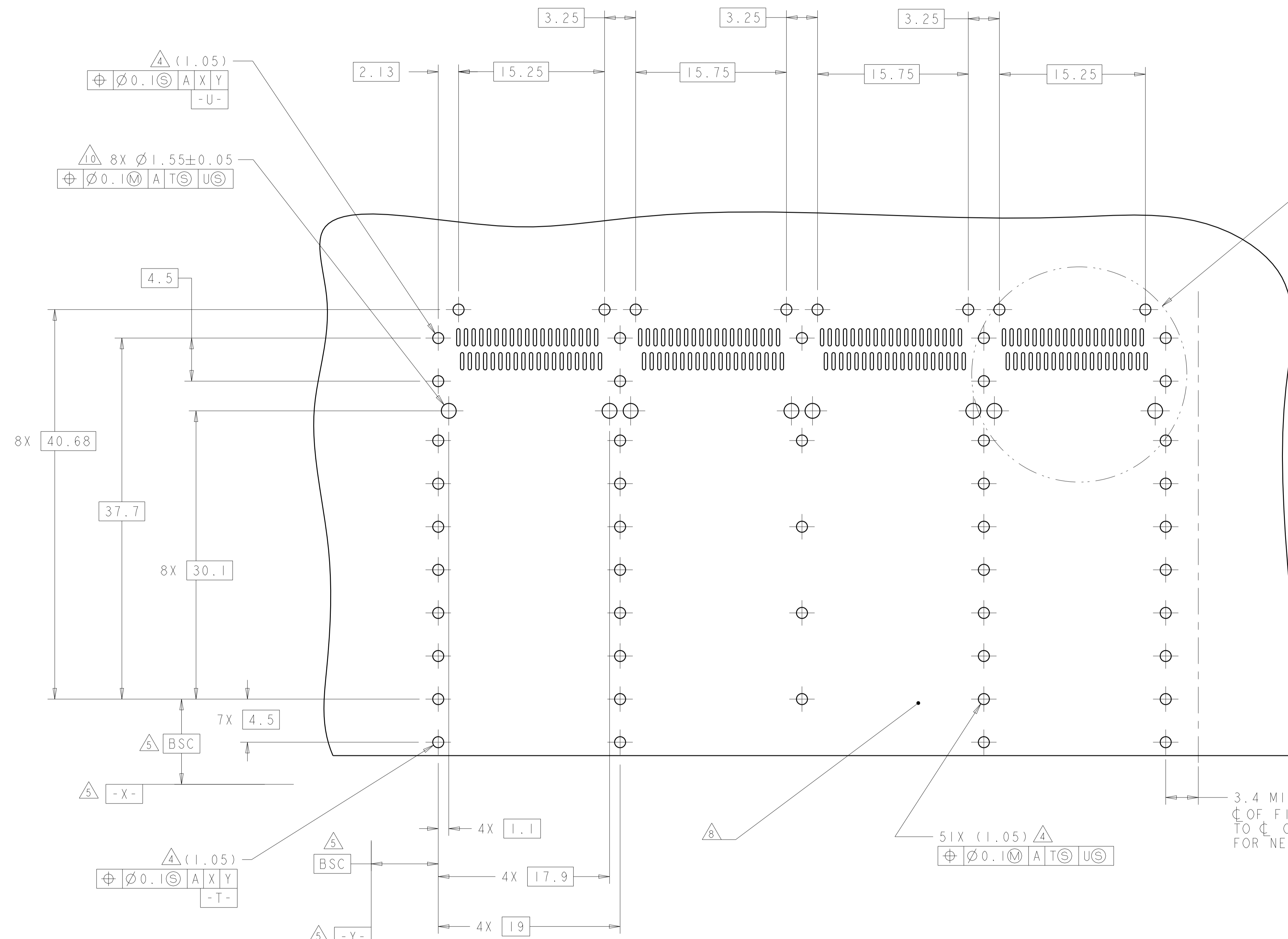
ONE SIDED CONFIGURATION
 SCALE 5:2



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	±	APPLICATION SPEC	108-2286	DRAWING NO	RESTRICTED TO
2 PLC	±0.1	114-13218	114-13218	A100779	C=2007625
3 PLC	±0.1	WEIGHT		SCALE	SHEET
4 PLC	±	CUSTOMER DRAWING		4:1	3 OF 5
ANGLES	±				REV F
MATERIAL	FINISH				

LOC	DIST	REVISIONS					
GP	00	P	LTN	DESCRIPTION	DATE	DMN	APVD
		-		SEE SHEET 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 ±0.1	108-2286	APPLICATION SPEC
	1 PLC ±0.1	114-13218	RESTRICTED TO
	2 PLC ±0.1	114-13218	SCALE 4:1 SHEET 5 OF 5 REV F
	3 PLC ±0.1		
	4 PLC ±0.1		
	ANGLES ±0.1		
MATERIAL	FINISH	WEIGHT	
CUSTOMER DRAWING			

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[172501-6002](#) [FCN-260C008-A/L0](#) [FCN-260C024-AL0](#) [FCN-261Z008](#) [FCN-268D008-G/1K](#) [2000314-1](#) [200331-1](#) [2007498-2](#) [PCR-E28LMDAG1+](#) [PCR-E36FC+](#) [PCS-E28FS+](#) [PCS-XE26SLFD+](#) [PCS-XE26SLFDT+](#) [G38A71214B](#) [HDRA-E68W1LFDTC-SL+](#) [HDR-E14MSG1+](#) [R88A-CNK81S](#) [CRT1-ATT02](#)