



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

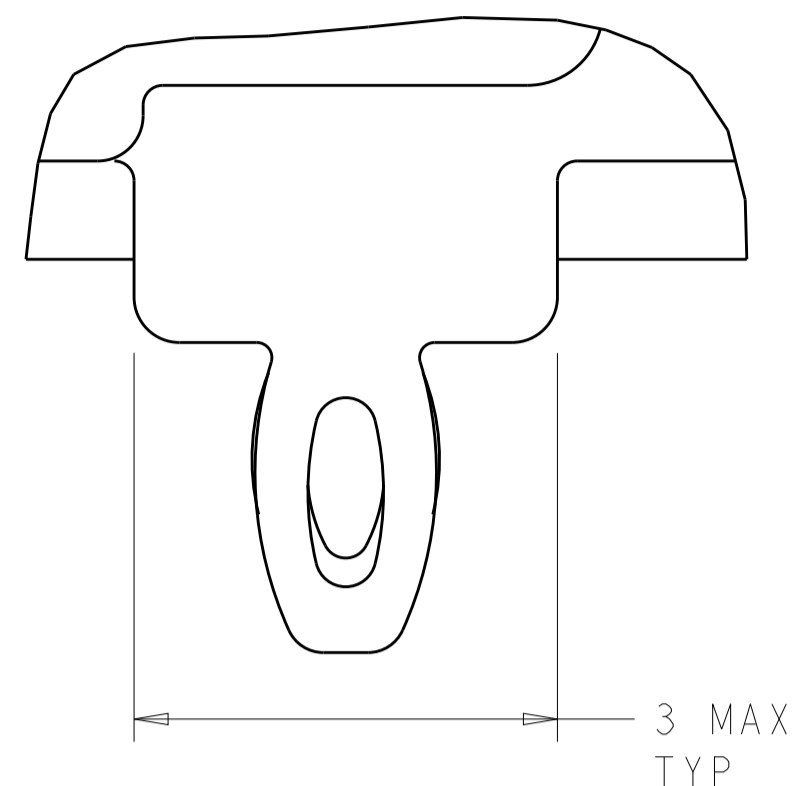
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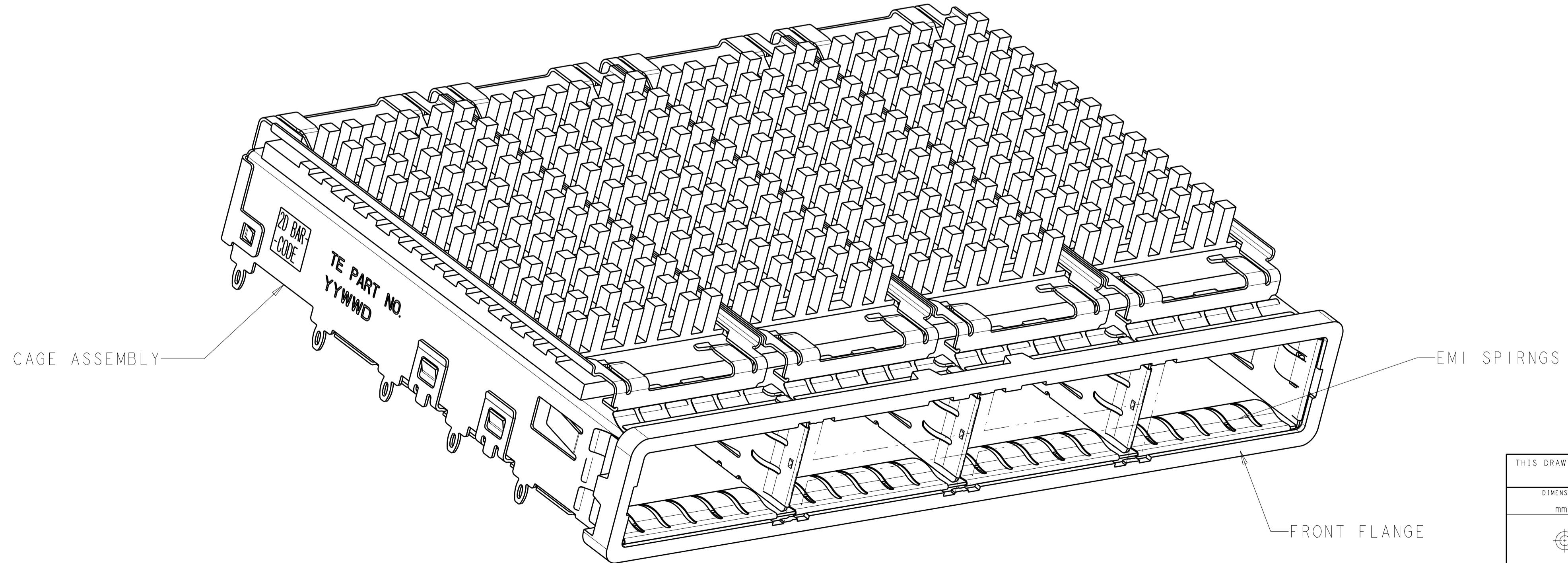
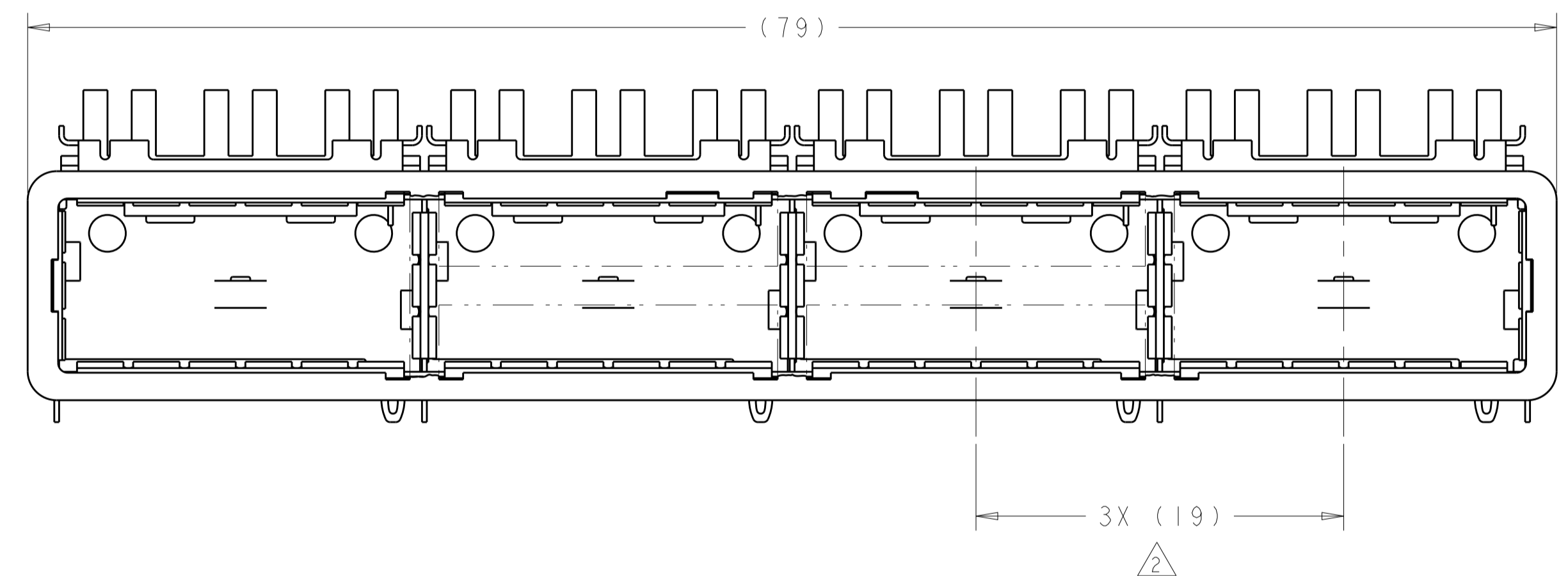
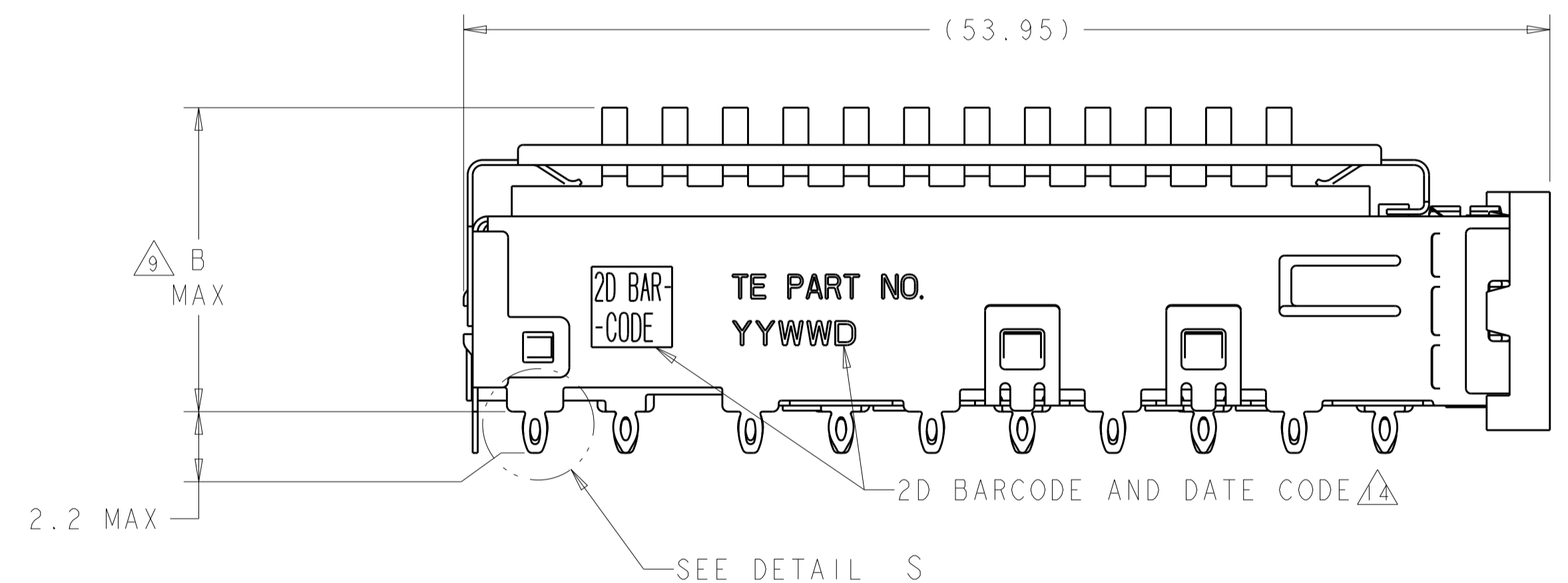
LOC	DIST	REVISIONS			
P	LTN	DESCRIPTION	DATE	DMN	APVD
C		REVISED PER ECO-10-018054	03NOV2010	CJV	EJB
D		REVISED PER ECO-12-003841	14MAR2012	KS	AC
E		REVISED PER ECO-12-005533	31MAR2012	JY	AC
F		REVISED PER ECO-14-017735	30EC2014	RG	MC



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.

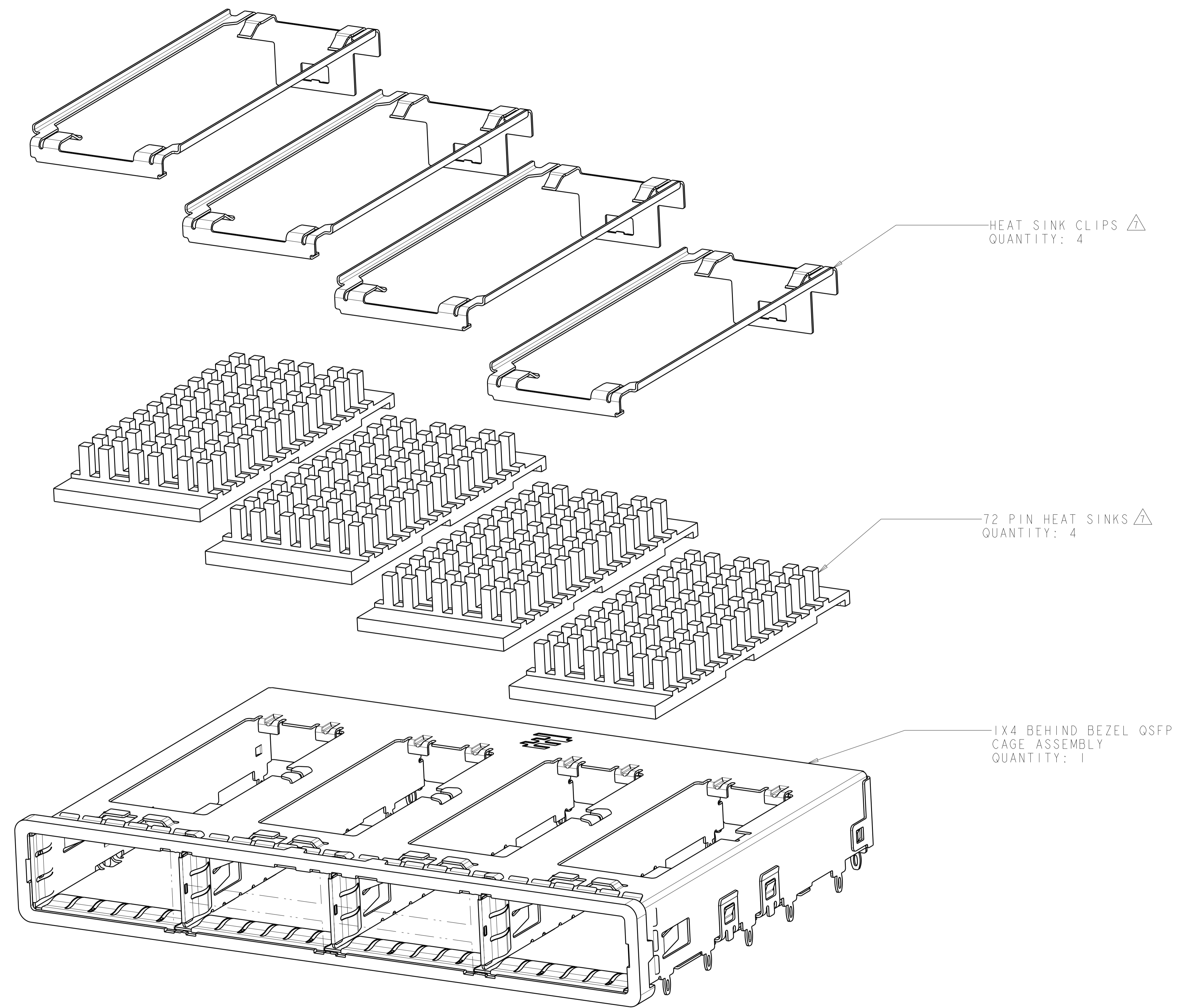
$\Delta 16$  EMI SPRING FINISH: 2 $\mu$ m MINIMUM TIN  
 FRONT FLANGE FINISH: 3 $\mu$ m MINIMUM TIN OVER 1.27 $\mu$ m MINIMUM NICKEL OVER 5.08 $\mu$ m MINIMUM COPPER.  
 HEAT SINK FINISH: NICKEL.



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

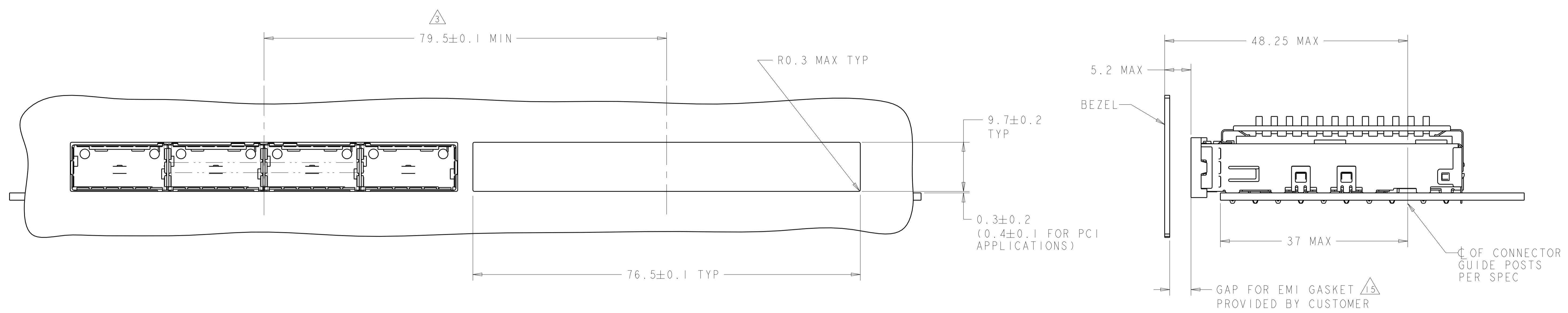
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	TE Connectivity NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	0 PLC $\pm$	APVD F. BRIGHT 09JUN2008	PRODUCT SPEC
	1 PLC $\pm 0.1$	PRODUCT NO.	108-2286
	2 PLC $\pm 0.1$	APPLICATION SPEC	114-13218
	3 PLC $\pm$	WEIGHT	-
	4 PLC $\pm$	FINISH	$\Delta 16$
MATERIAL	ANGLES $\pm$	CUSTOMER DRAWING	SCALE 4:1 SHEET 1 OF 5 REV F

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

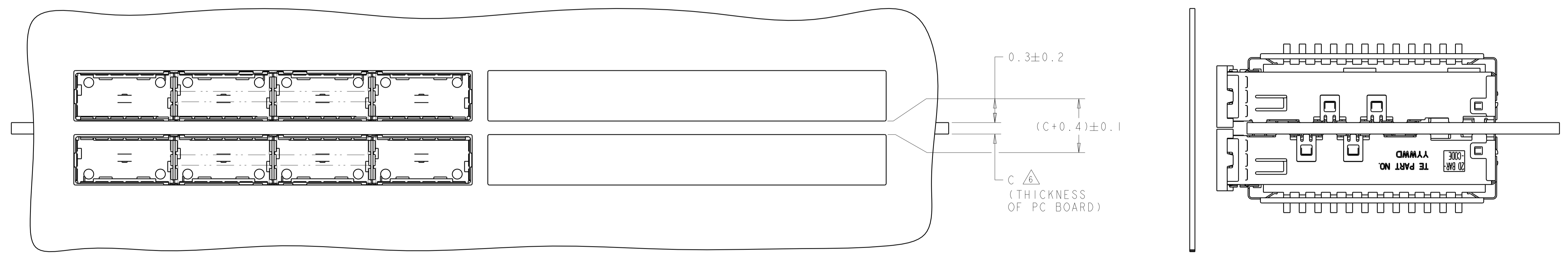


THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	TE Connectivity
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC	±	PRODUCT SPEC	SIZE A100779C=2007625
1 PLC	±0.1	108-2286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

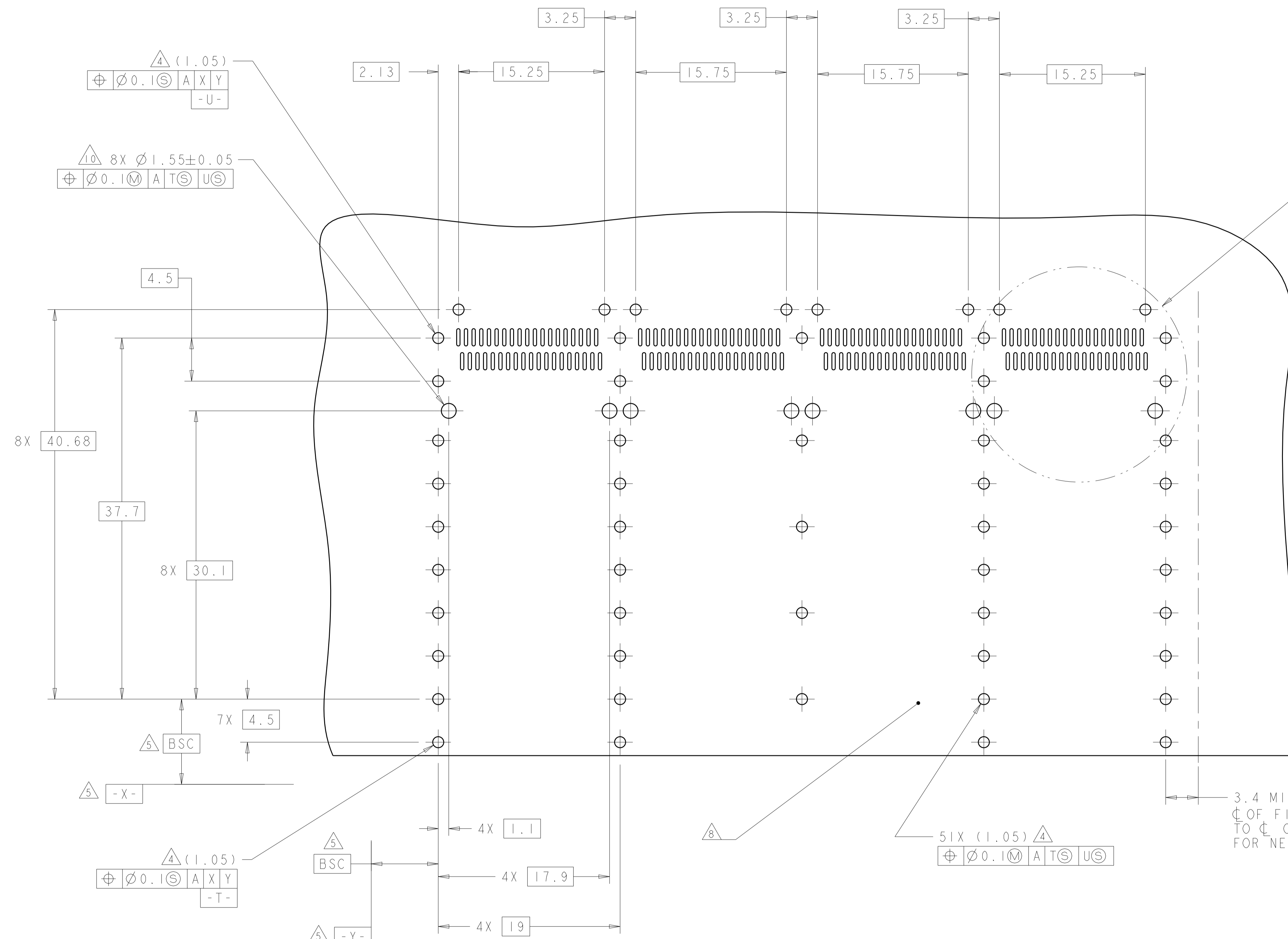


BELLY TO BELLY CONFIGURATION SIMILAR  
 TO ONE SIDED EXCEPT WHERE NOTED  
 SCALE 5:2

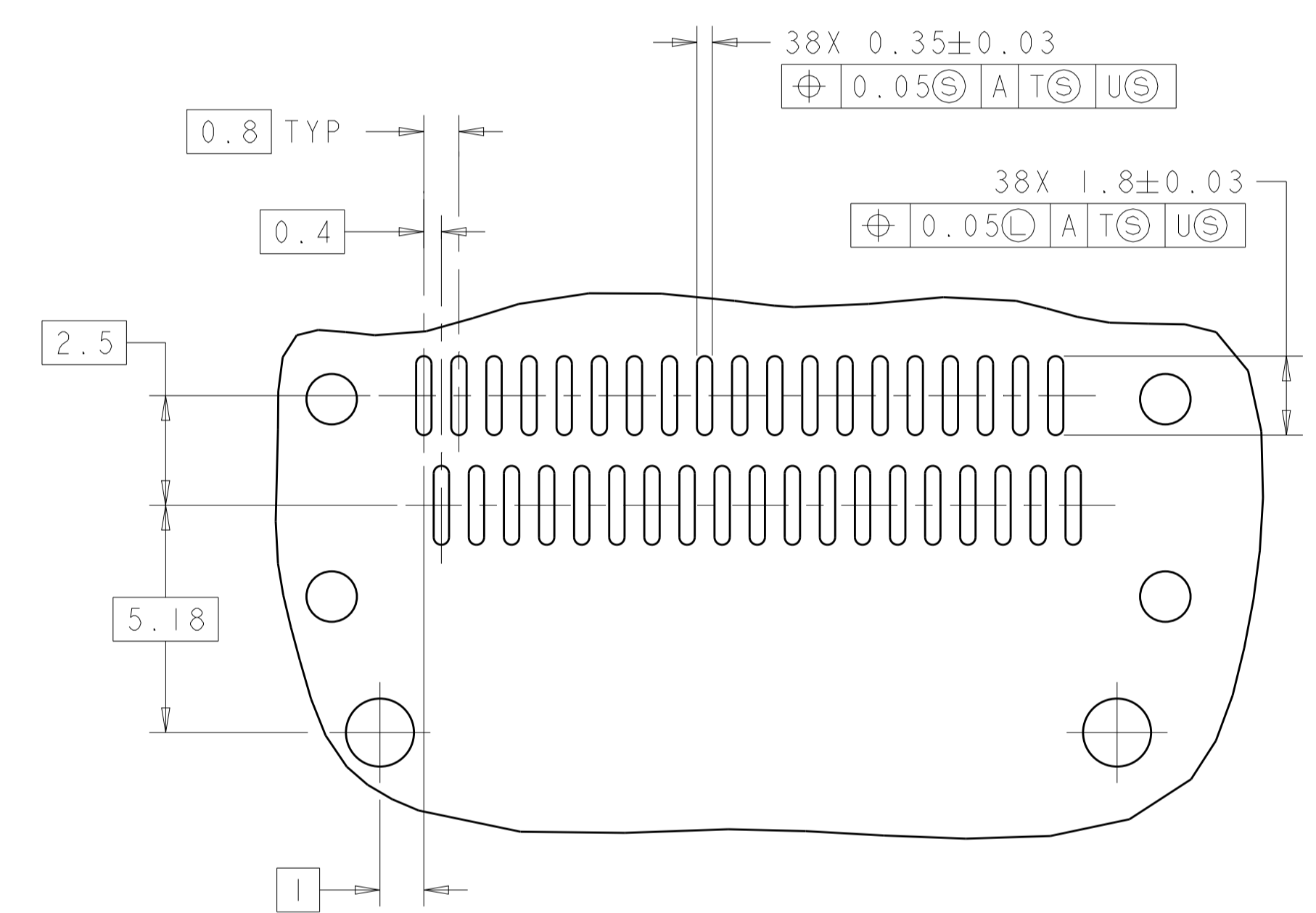
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 09JUN2008	TE Connectivity
DIMENSIONS:		CHK E. BRIGHT 09JUN2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD E. BRIGHT 09JUN2008	NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
0 PLC ±	1 PLC ±0.1	PRODUCT SPEC	SIZE CAGE CODE DRAWING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



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



SEE DETAIL K



DETAIL K  
SCALE 8:1

3.4 MIN  $\Delta 3$   
 $\phi$  OF FINAL ROW OF HOLES  
 TO  $\phi$  OF FIRST ROW OF HOLES  
 FOR NEXT ADJACENT CAGE

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 09 JUN 2008	TE Connectivity NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP
DIMENSIONS: mm		CHK E. BRIGHT 09 JUN 2008	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD E. BRIGHT 09 JUN 2008	PRODUCT SPEC
0 PLC ± 2 PLC ±0.1 3 PLC ±0.1 4 PLC ± ANGLES ±		108-2286	APPLICATION SPEC
MATERIAL		114-13218	RESTRICTED TO
FINISH		WEIGHT	A100779C=2007625
CUSTOMER DRAWING		SCALE 4:1	SHEET 5 OF 5 REV F