



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

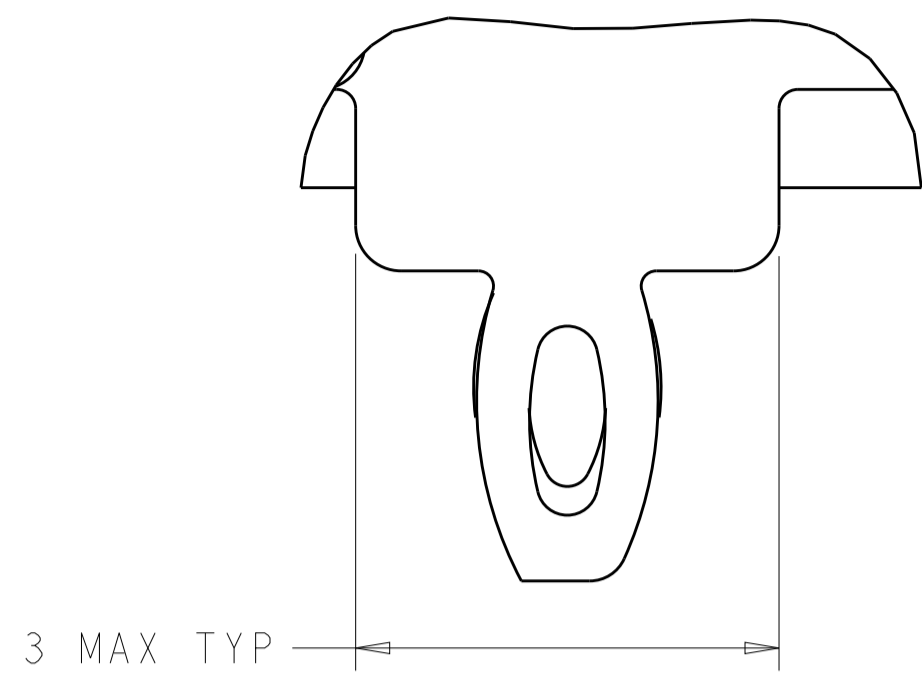
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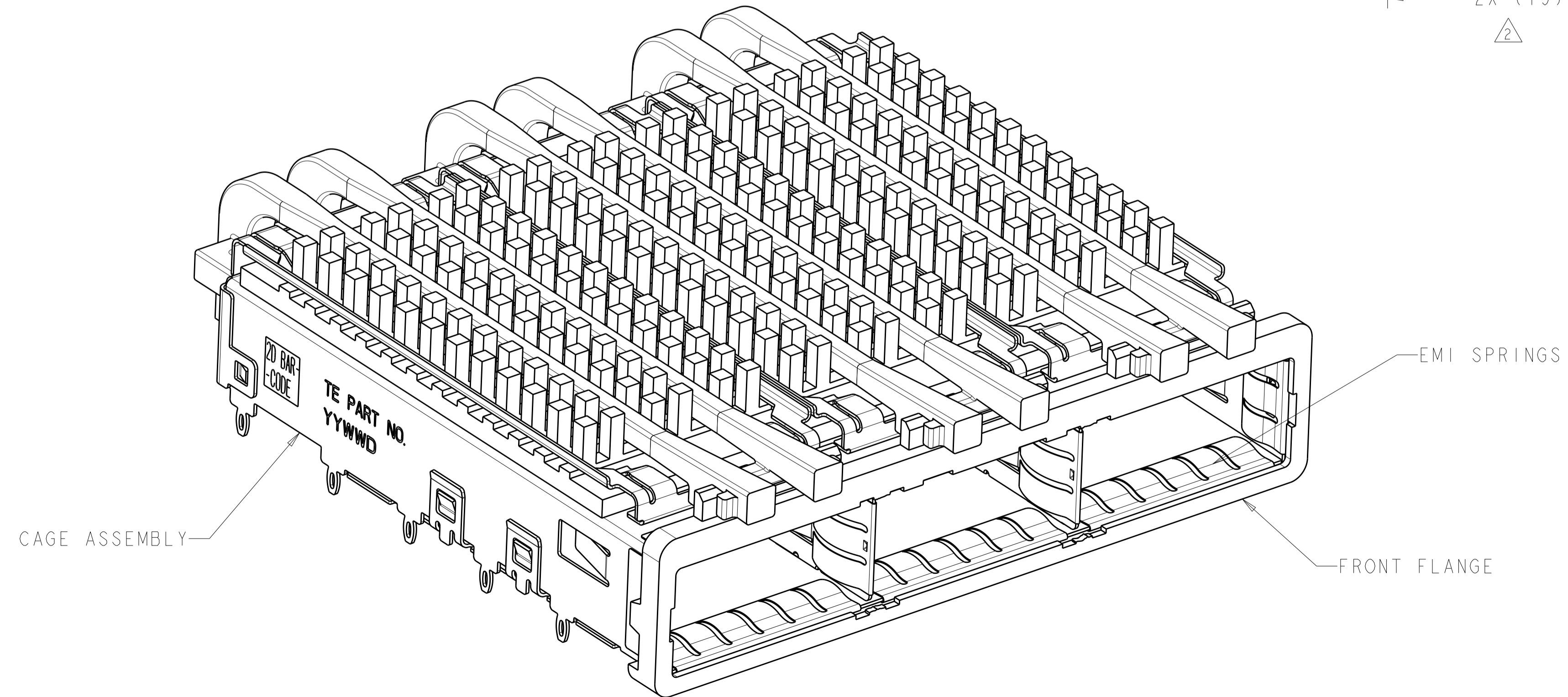
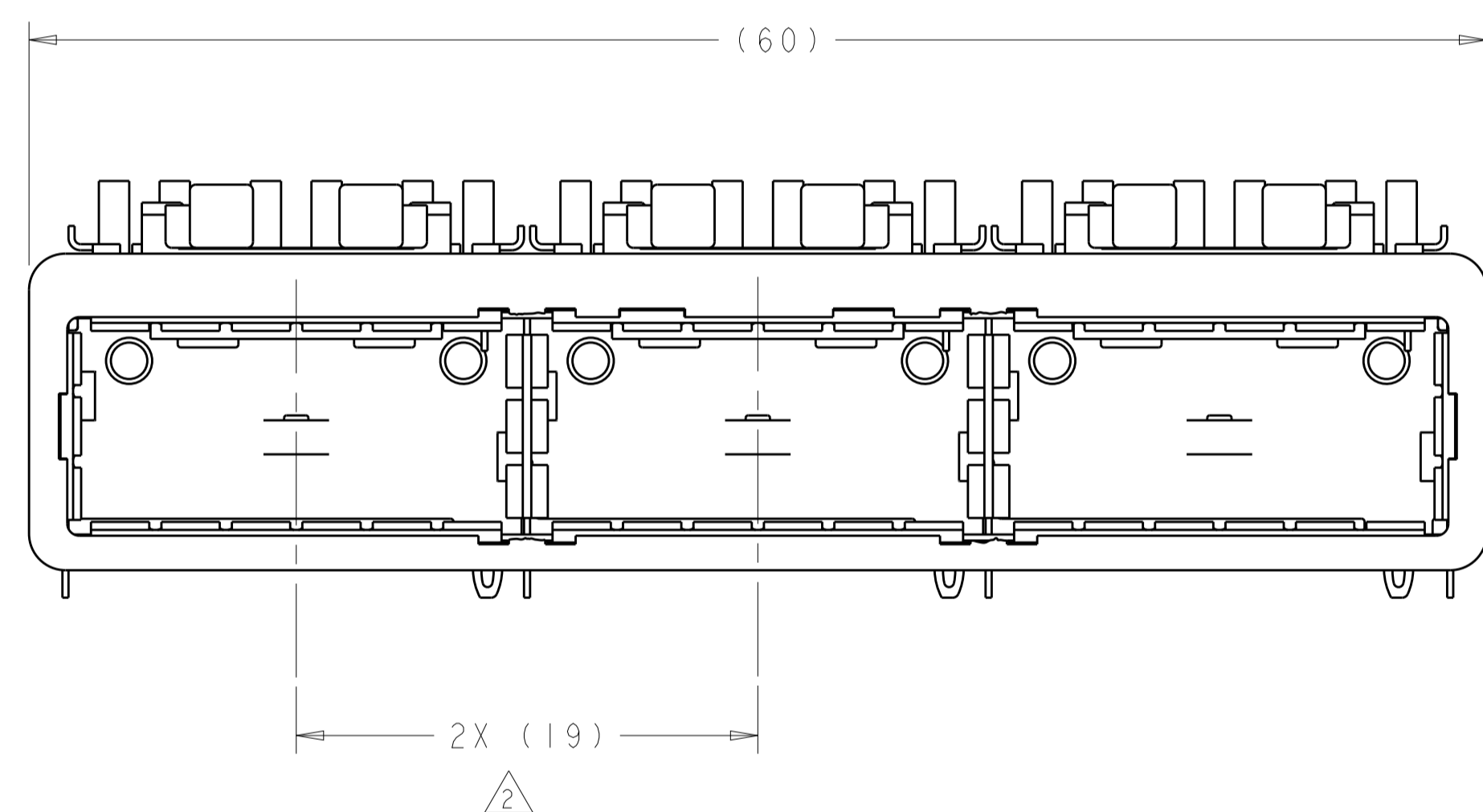
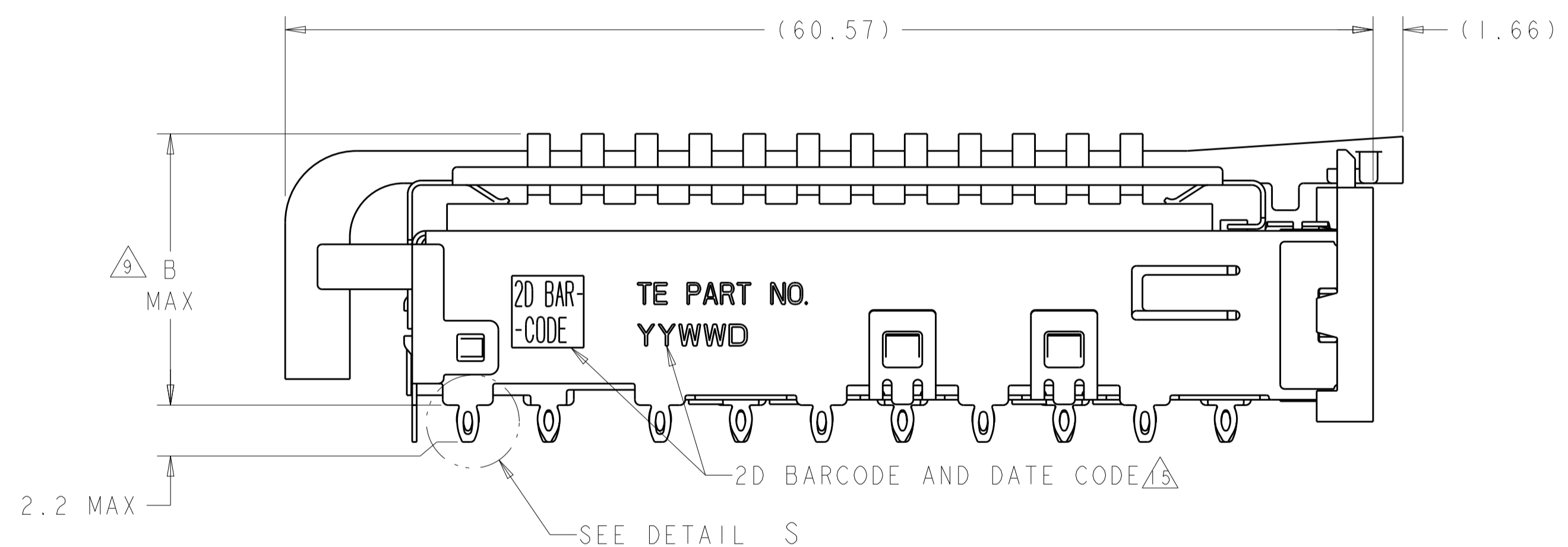
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		P	LTN	DESCRIPTION	DATE	DWN	APVD
GP	00	D		REVISED PER ECO-10-018054	04NOV2010	CJV	EJB
		E		REVISED PER ECO-12-005533	05APR2012	JY	AC
		F		REVISED PER ECO-14-016878	03DEC2014	RG	MC



DETAIL S  $\Delta 3$   
 SCALE 20:1

- $\Delta 1$  MATERIALS:  
 CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK  
 HEAT SINK: ALUMINUM  
 HEAT SINK CLIP: STAINLESS STEEL  
 EMI SPRING: COPPER ALLOY  
 FRONT FLANGE: ZINC ALLOY  
 LIGHT PIPE: CLEAR POLYCARBONATE
- $\Delta 2$  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.  
 SINGLE SIDED PC BOARD MIN THICKNESS = 1.45mm  
 DOUBLE SIDED PC BOARD MIN THICKNESS = 2.2mm.
- $\Delta 7$  HEAT SINKS, LIGHT PIPES, AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- $\Delta 8$  DATUM **-A-** IS TOP SURFACE OF PC BOARD.

- $\Delta 9$  DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- $\Delta 10$  UNPLATED THRU HOLE.
- $\Delta 11$  MAXIMUM HEIGHT OF LED OFF BOARD: 0.9mm.
- 12. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- $\Delta 13$  SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- $\Delta 14$  BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- $\Delta 15$  2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE.
- $\Delta 16$  REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- $\Delta 17$  FINISH:  
 EMI SPRING: 2 $\mu$ m MINIMUM TIN  
 FRONT FLANGE: 3 $\mu$ m MINIMUM TIN OVER 1.27 $\mu$ m MINIMUM NICKEL OVER 5.08 $\mu$ m MINIMUM COPPER  
 HEATSINK: NICKEL
- $\Delta 18$  HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED. LIGHT PIPES, SHIPPED UNATTACHED, MUST BE ASSEMBLED BY CUSTOMER AFTER THE CAGE IS SEATED IN THE PCB.



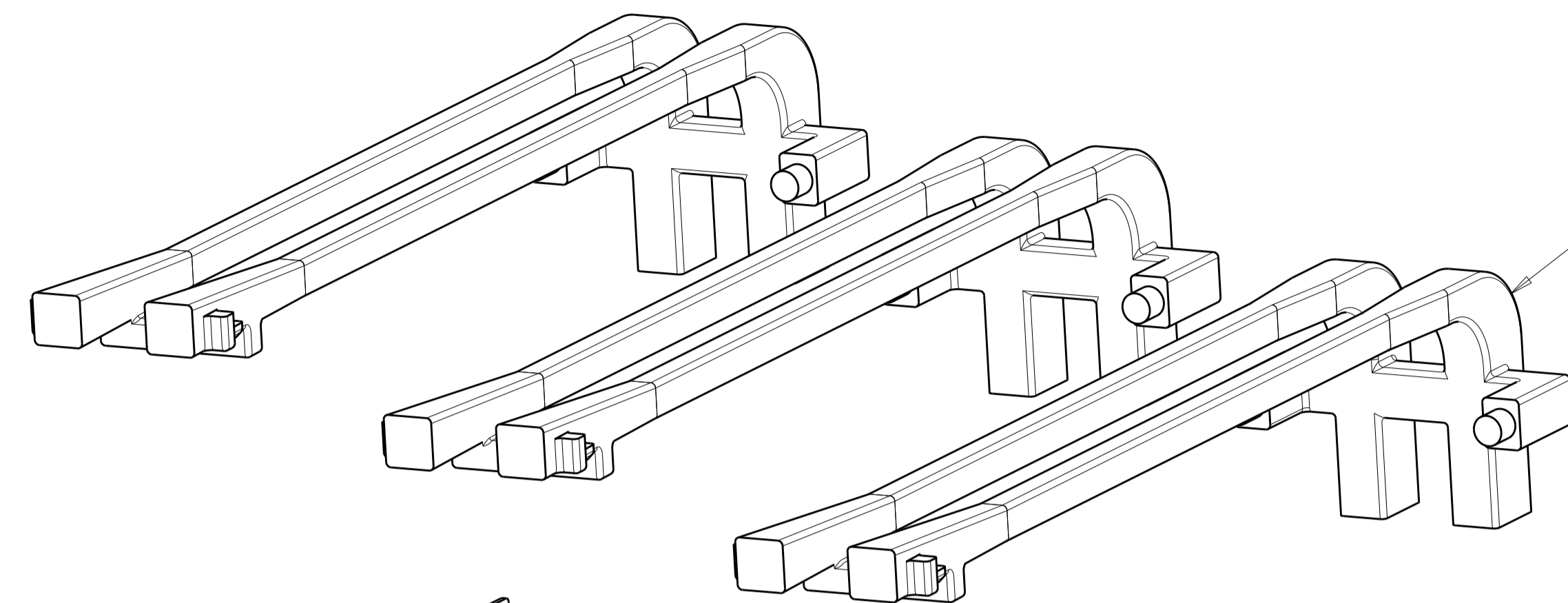
$\Delta 23.0$	NETWORKING	2110412-3
$\Delta 16.0$	SAN	2110412-2
$\Delta 13.7$	PCI	2110412-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

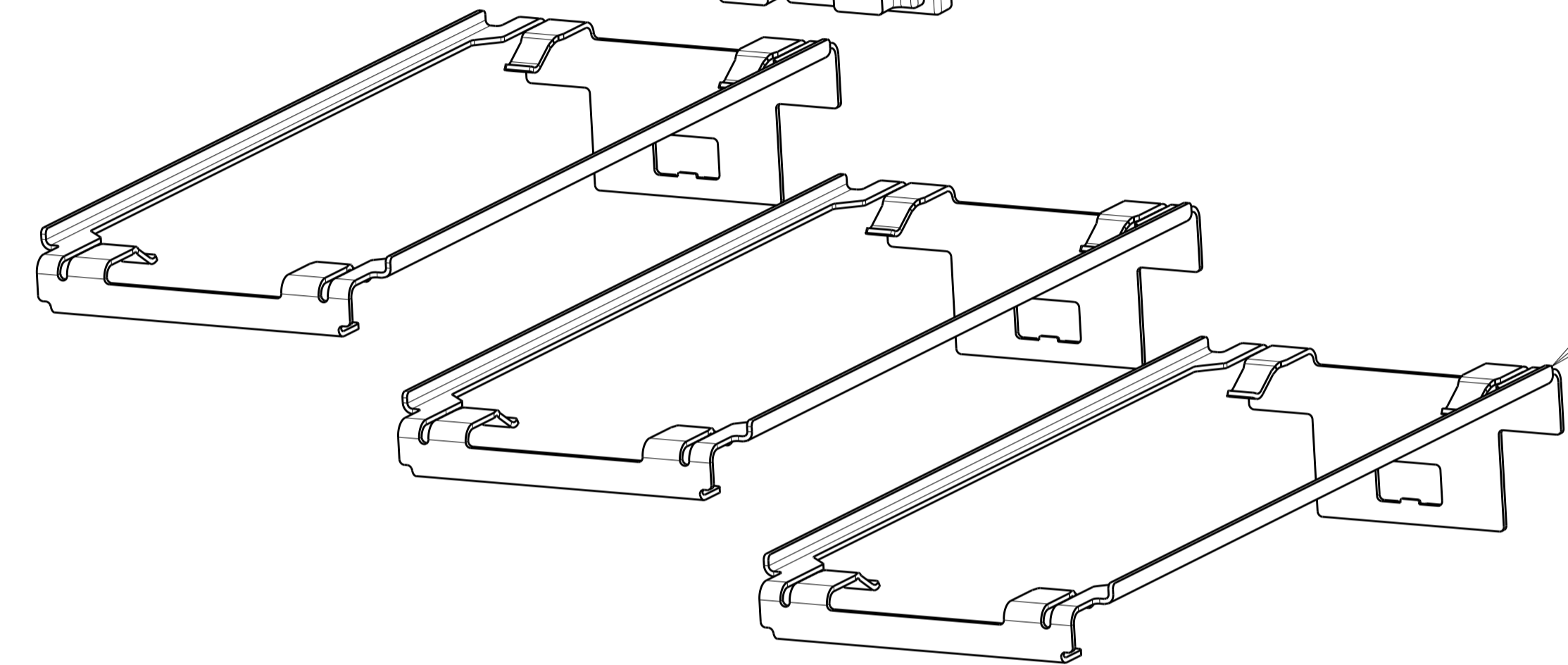
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN C. VALENTINE 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
mm	0 PLC $\pm$ 1 PLC $\pm 0.1$ 2 PLC $\pm 0.1$ 3 PLC $\pm$ 4 PLC $\pm$ ANGLES $\pm$	CHK J. PETERSON 28FEB2008	PRODUCT SPEC 108-2286
MATERIAL	FINISH	APVD J. PETERSON 28FEB2008	APPLICATION SPEC 114-13218
$\Delta 1$	$\Delta 17$	WEIGHT	RESTRICTED TO
CUSTOMER DRAWING		SCALE 4:1	SHEET 1 OF 5 REV F

STC TE Connectivity

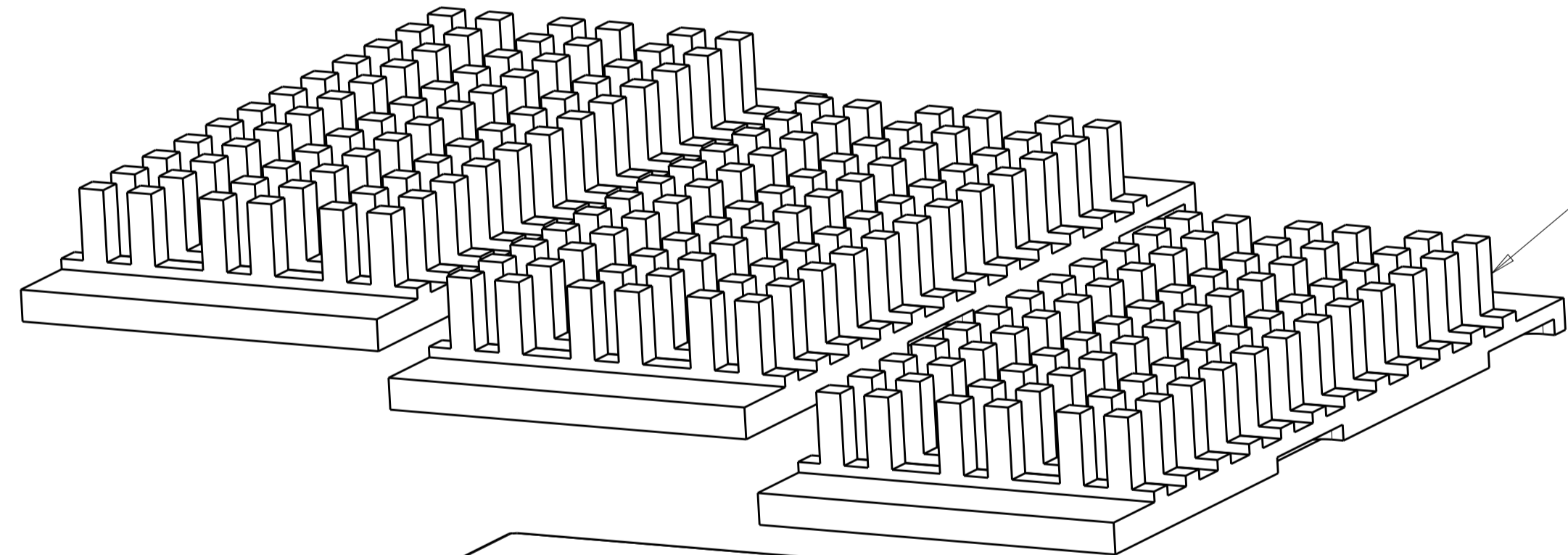
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GP	00	P	LYR	DESCRIPTION	DATE	OWN	APVD
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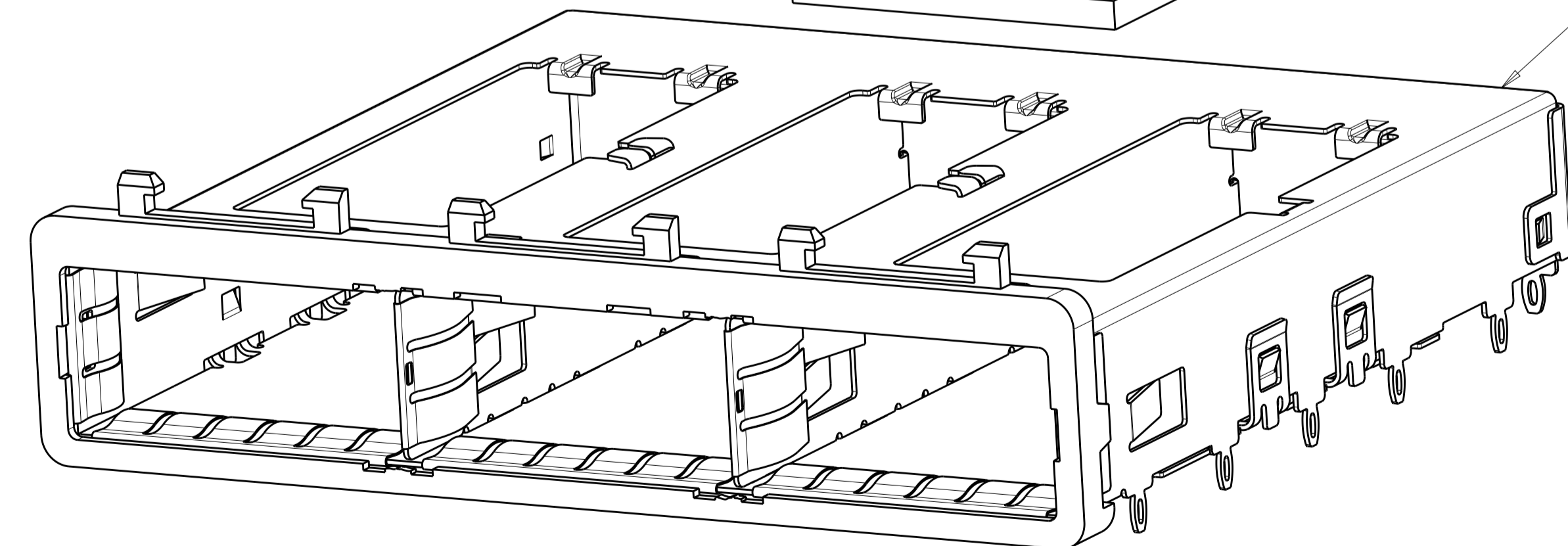
SQUARE DOUBLE LIGHT PIPES  $\triangle$   $\triangle$   
 QUANTITY: 3



HEAT SINK CLIPS  $\triangle$   $\triangle$   
 QUANTITY: 3



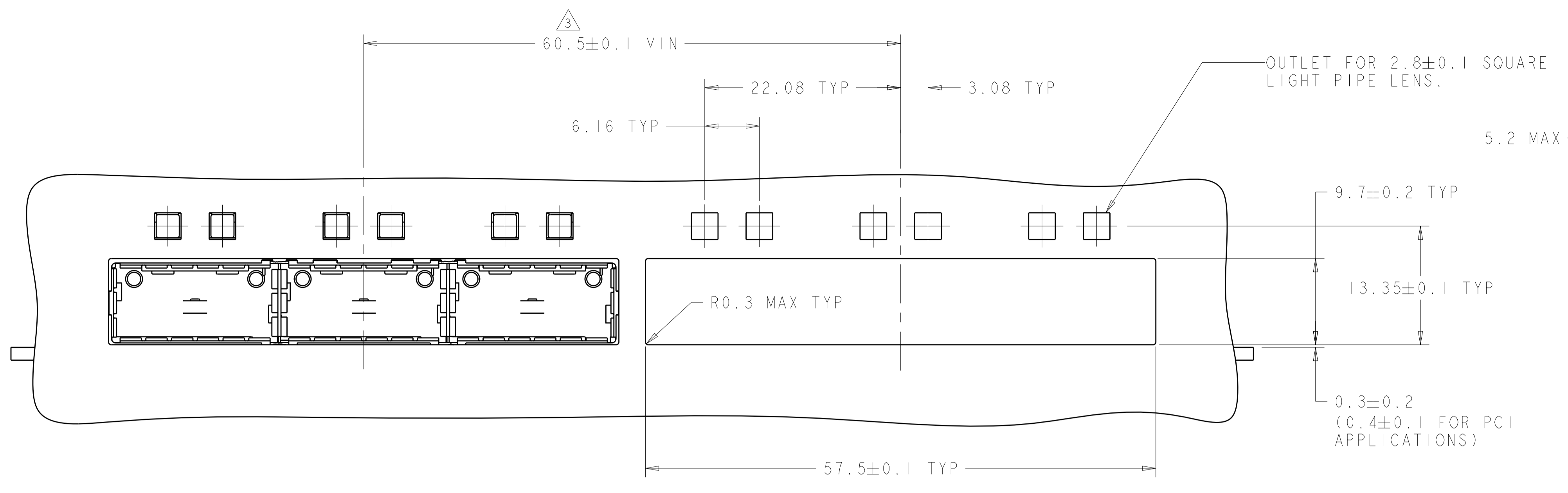
72 PIN HEAT SINKS  $\triangle$   $\triangle$   
 QUANTITY: 3



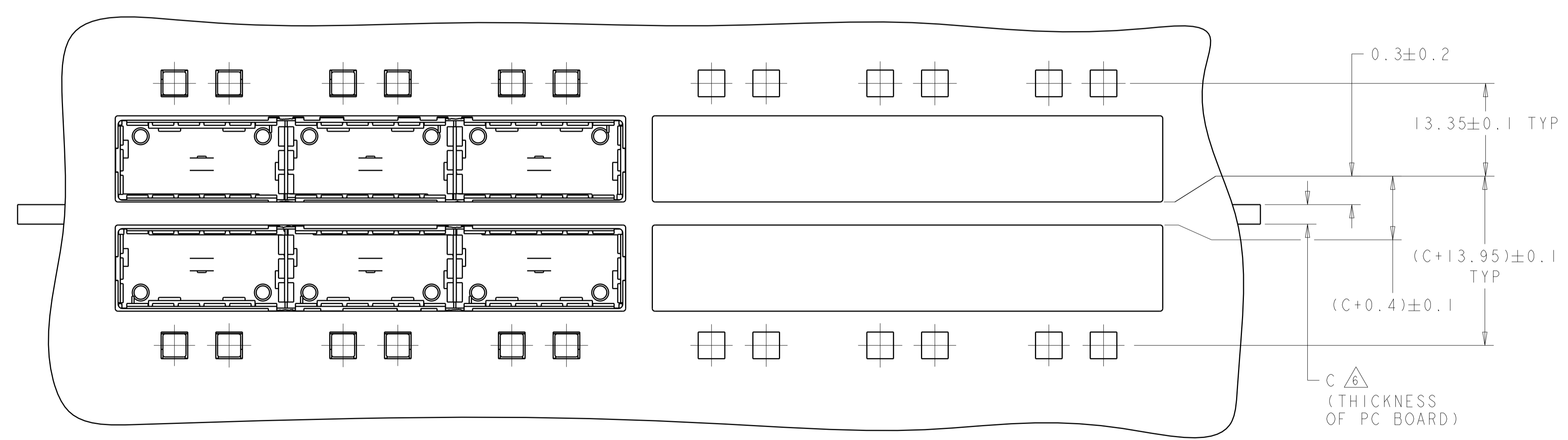
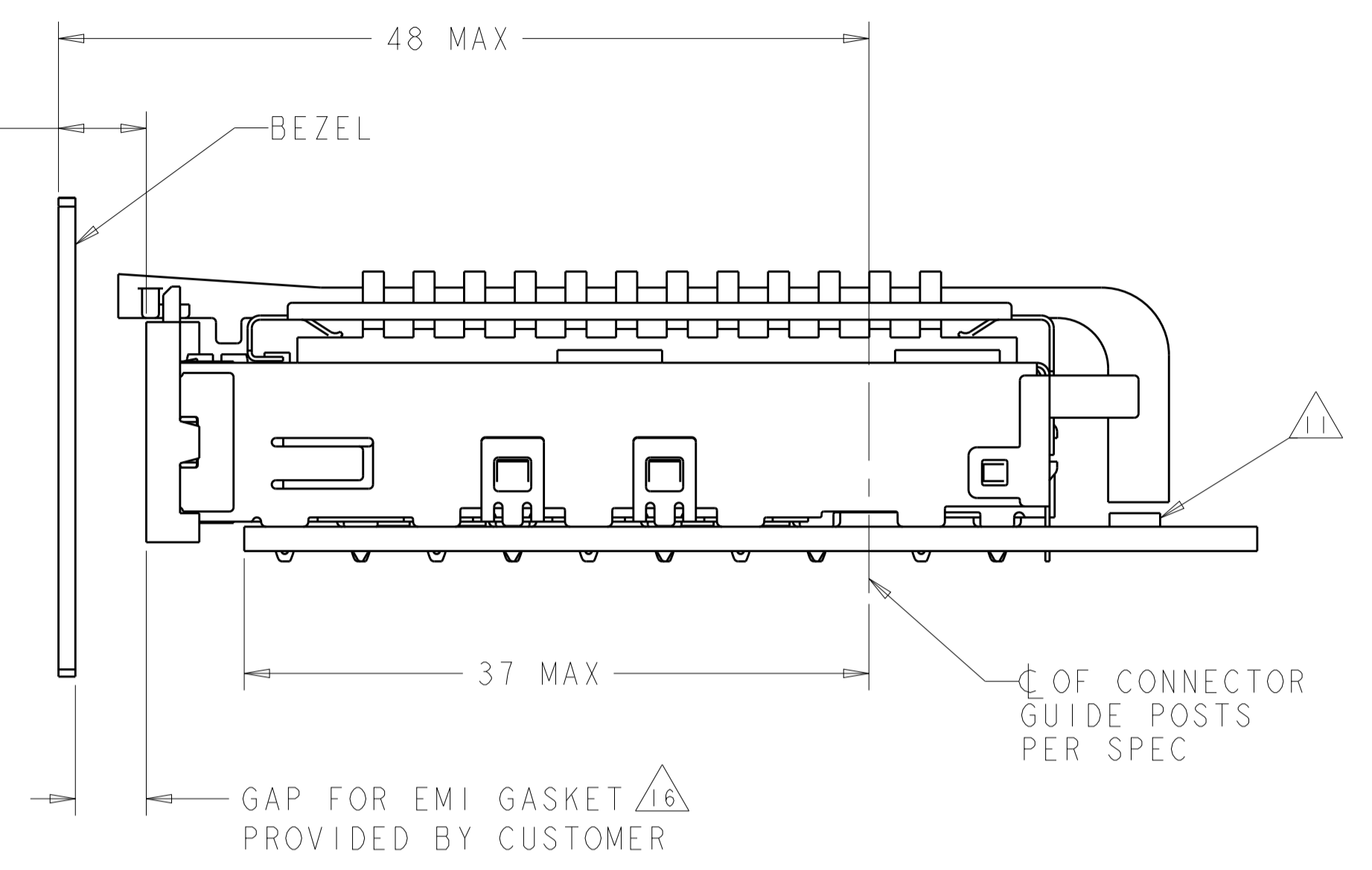
1X3 BEHIND BEZEL QSFP  
 CAGE ASSEMBLY  
 QUANTITY: 1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN C. VALENTINE 28FEB2008	TE Connectivity
DIMENSIONS: mm		CHK J. PETERSON 28FEB2008	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ± ANGLES ±		APVD J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
MATERIAL		PRODUCT SPEC 108-2286	RESTRICTED TO
FINISH		APPLICATION SPEC 114-13218	SIZE CAGE CODE DRAWING NO A100779C=2110412
		WEIGHT	SCALE 4:1 SHEET 2 OF 5 REV F
		CUSTOMER DRAWING	

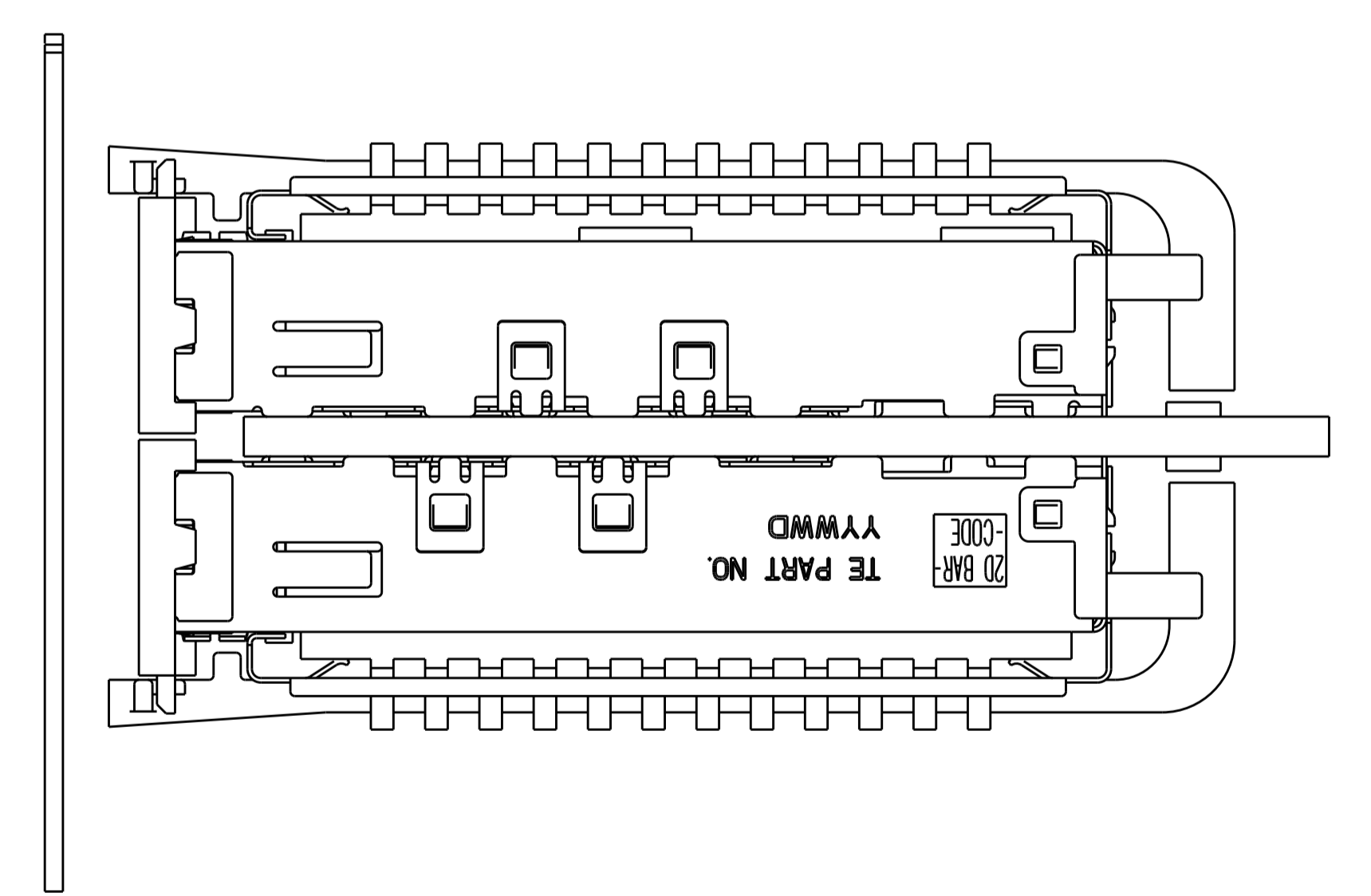
LOC		DIST		REVISIONS			
GP	00	P	LTN	DESCRIPTION	DATE	DMN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION  
SCALE 3:1

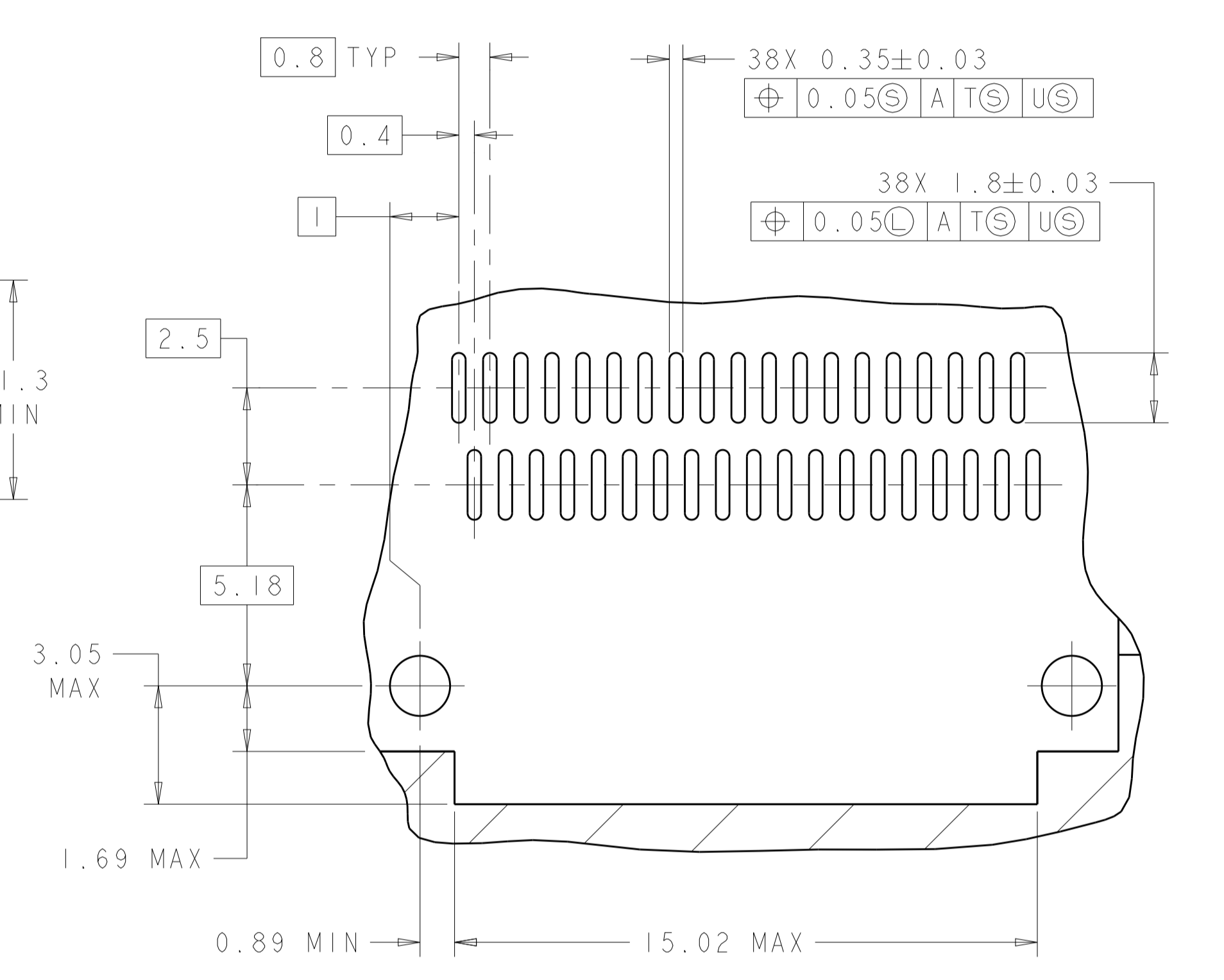
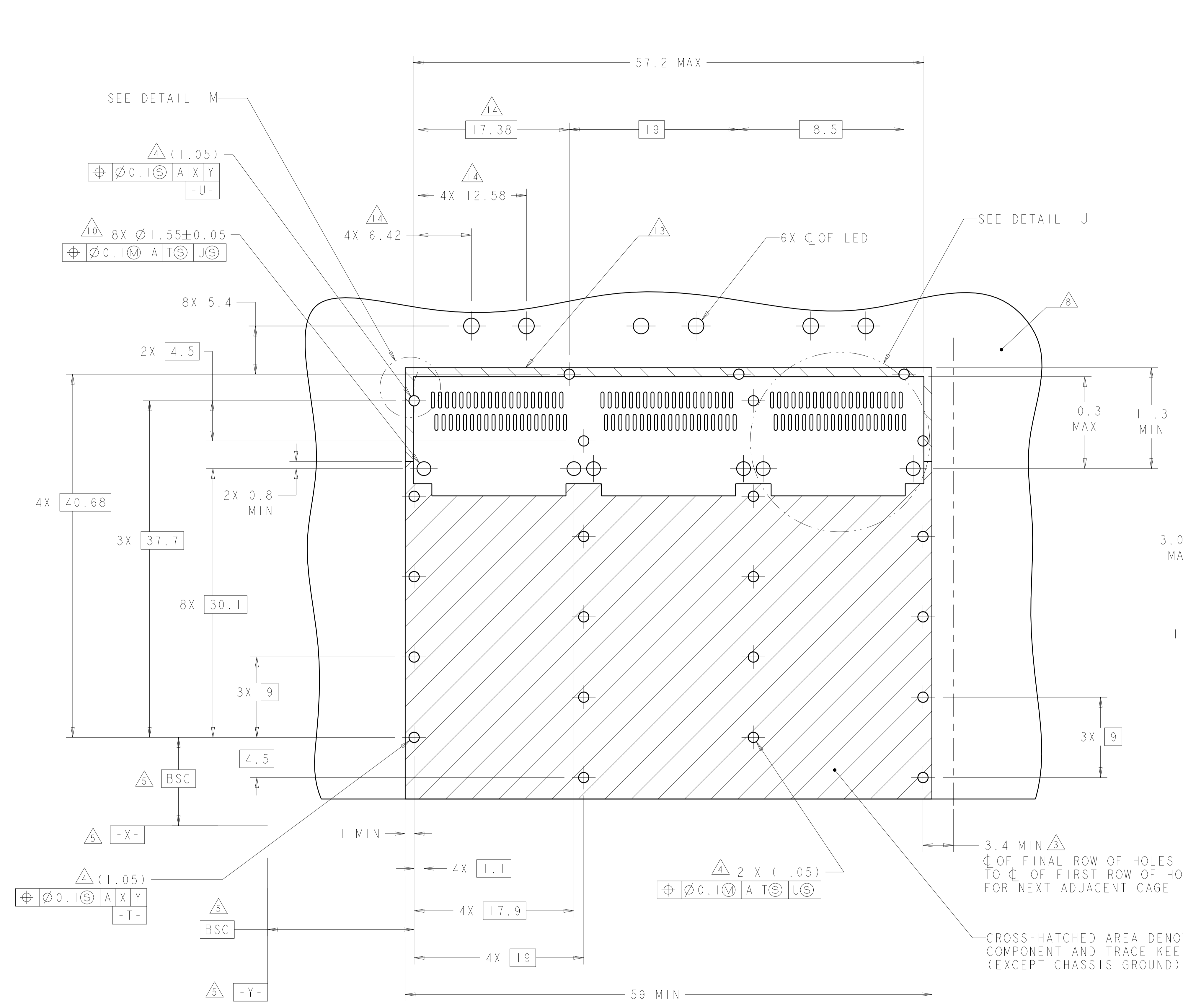


BELLY TO BELLY CONFIGURATION  
SIMILAR TO ONE SIDED  
EXCEPT WHERE NOTED  
SCALE 3:1



THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 28FEB2008	
DIMENSIONS:		CHK J. PETERSON 28FEB2008	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS, QSFP
	0 PLC ±	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO
	1 PLC ±0.1	108-2286	RESTRICTED TO
	2 PLC ±0.1	APPLICATION SPEC	A100779C=2110412
	3 PLC ±	114-13218	SCALE 4:1 SHEET 3 OF 5 REV F
	4 PLC ±	WEIGHT	
	ANGLES ±	CUSTOMER DRAWING	
MATERIAL	FINISH		

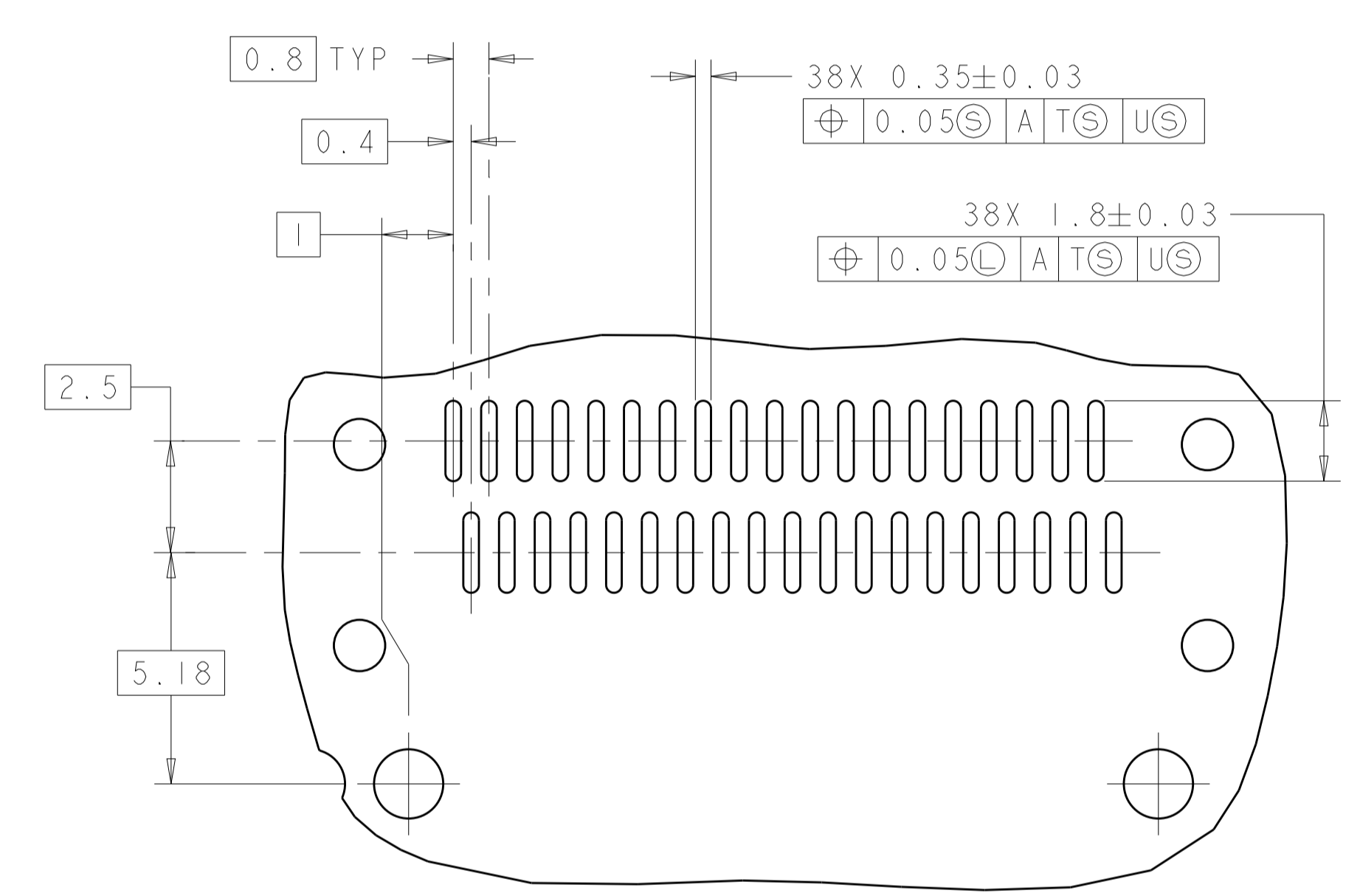
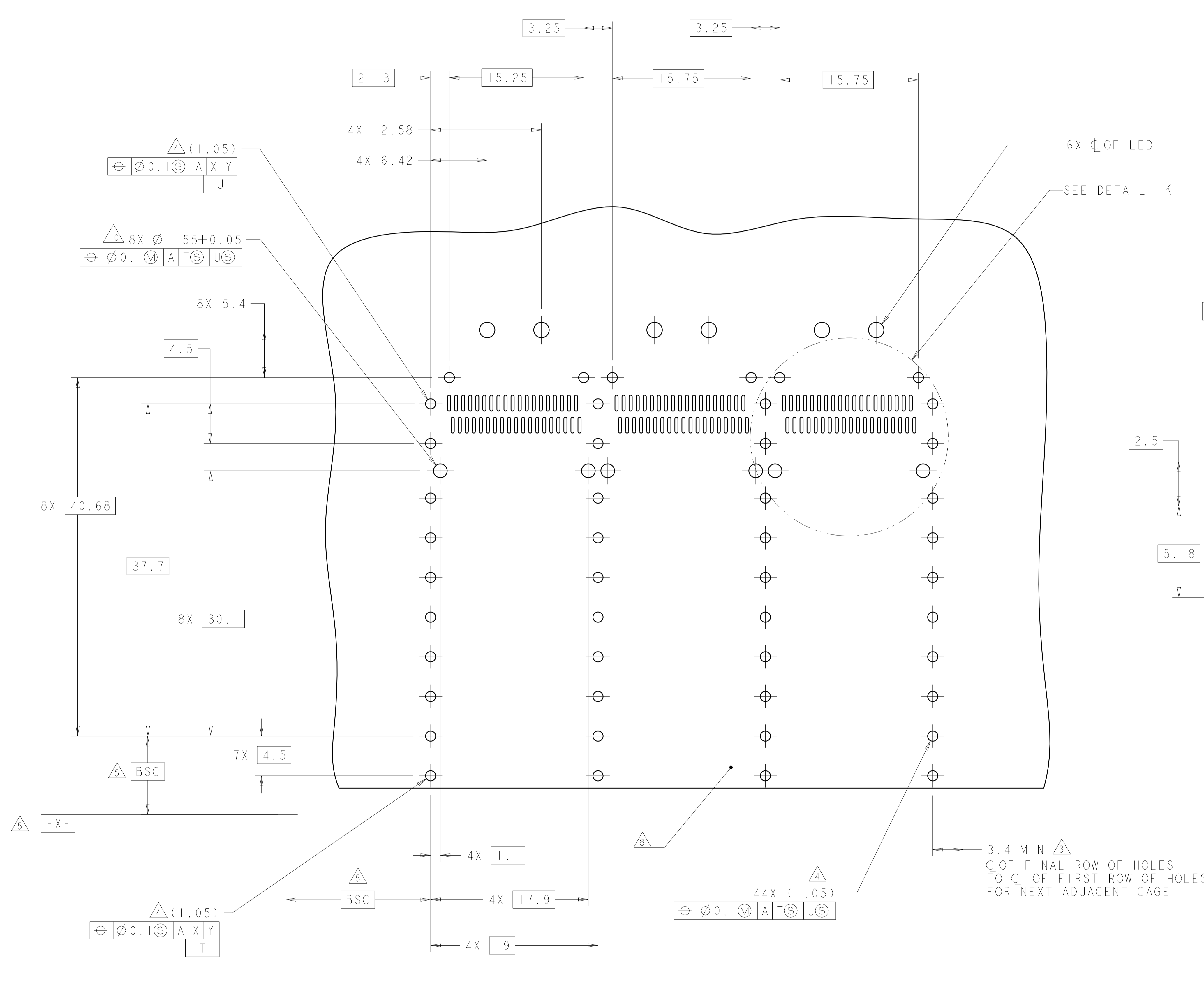
LOC	DIST	REVISIONS					
GP	00	P	LTN	DESCRIPTION	DATE	DMN	APVD
		-		SEE SHEET 1			



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN C. VALENTINE 28FEB2008	TE Connectivity
DIMENSIONS: mm		CHK J. PETERSON 28FEB2008	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
0 PLC ±	1 PLC ±0.1	PRODUCT SPEC	108-2286
2 PLC ±0.1	3 PLC ±	APPLICATION SPEC	114-13218
4 PLC ±	ANGLES ±	WEIGHT	
MATERIAL	FINISH	CUSTOMER DRAWING	SCALE 4:1 SHEET 4 OF 5 REV F

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



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 DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 28FEB2008	TE Connectivity
DIMENSIONS: mm		CHK J. PETERSON 28FEB2008	
		APVD J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
MATERIAL		PRODUCT SPEC 108-2286	SIZE A100779C=2110412
FINISH		APPLICATION SPEC 114-13218	RESTRICTED TO
		WEIGHT	SCALE 4:1 SHEET 5 OF 5 REV F
		CUSTOMER DRAWING	