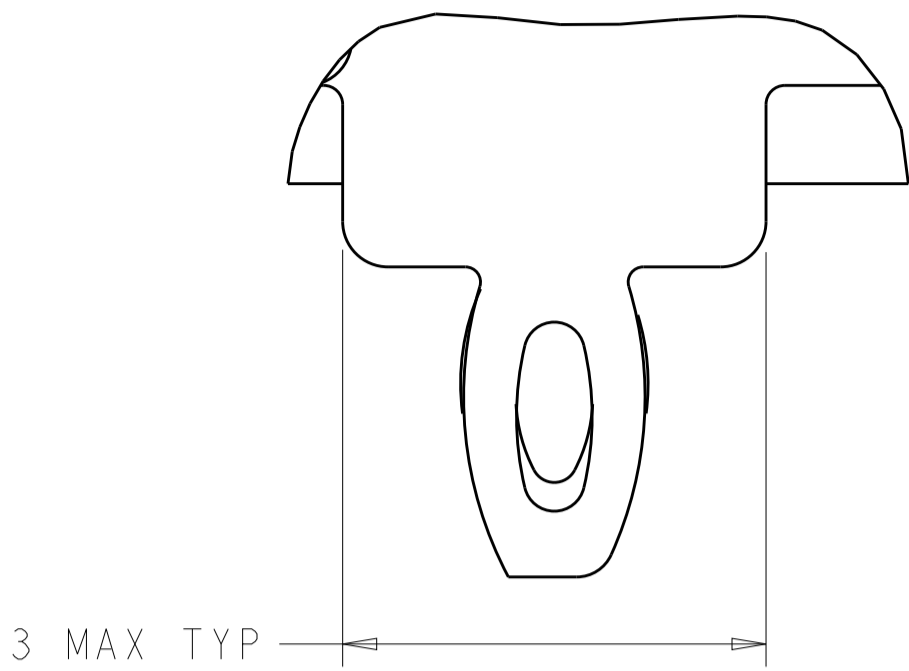


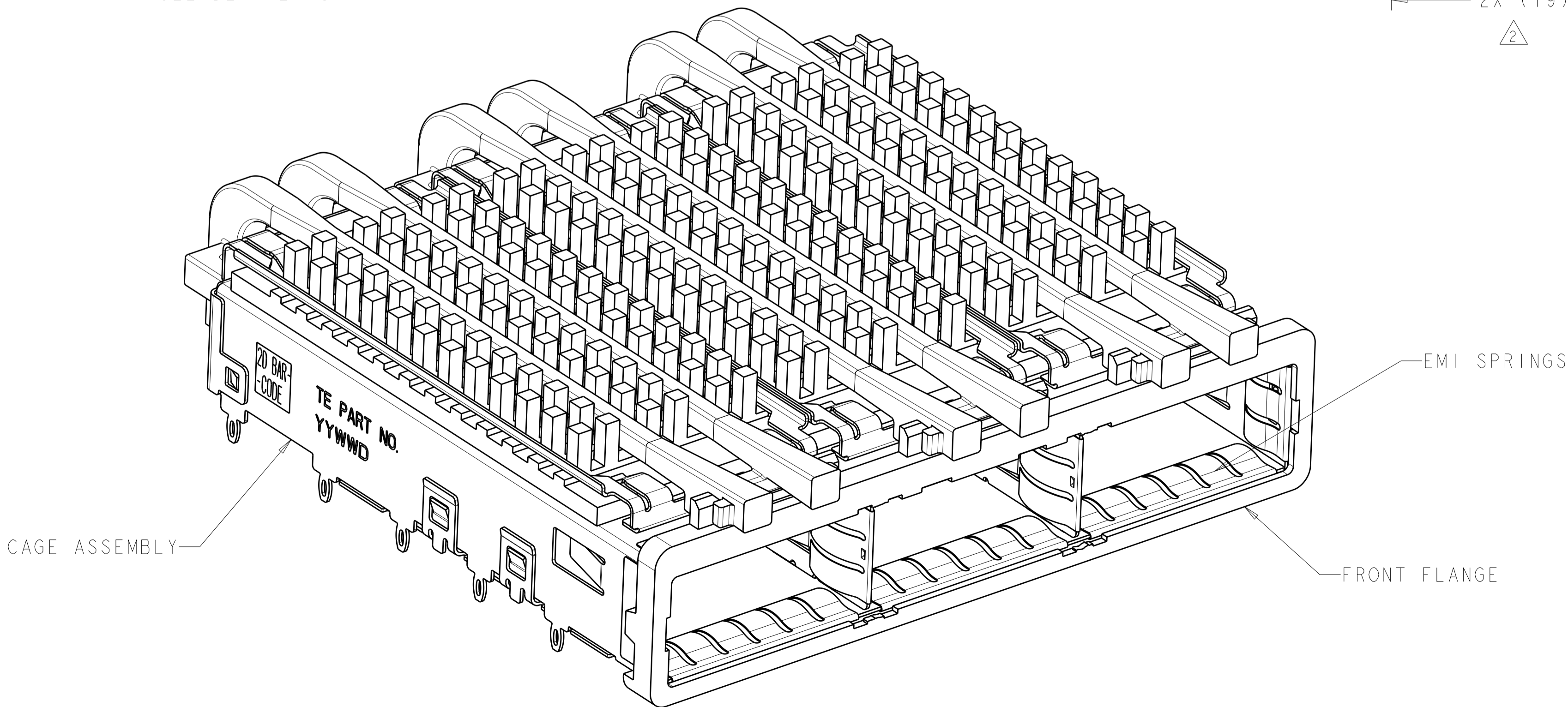
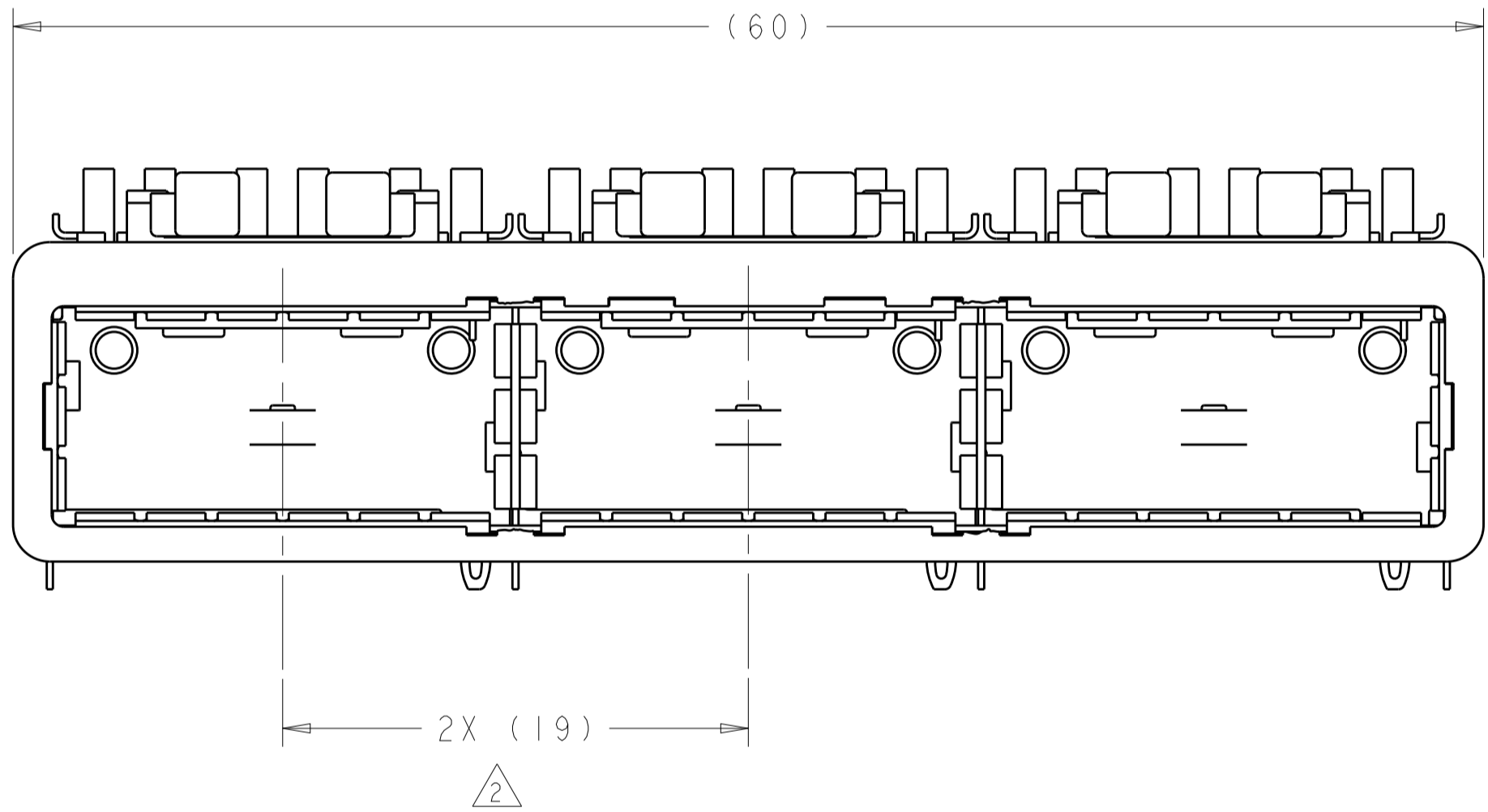
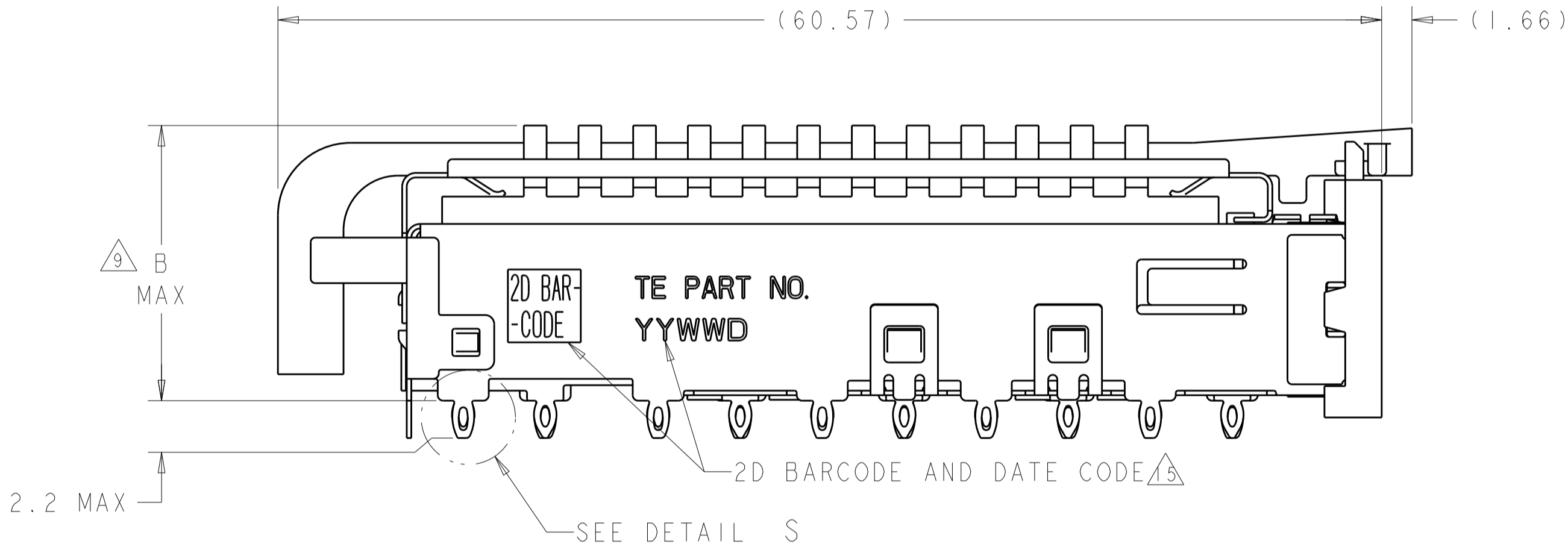
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		P	LTR	DESCRIPTION	DATE	DWN	APVD	
GP	00	D		REVISED PER ECO-10-018054	04NOV2010	CJV	EJB	
		E		REVISED PER ECO-12-005533	05APR2012	JY	AC	
		F		REVISED PER ECO-14-016878	03DEC2014	RG	MC	



DETAIL S  
SCALE 20:1

- 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
- 2 PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- 3 SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- 4 REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 5 DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 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.
- 7 HEAT SINKS, LIGHT PIPES, AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- 8 DATUM -A- IS TOP SURFACE OF PC BOARD.

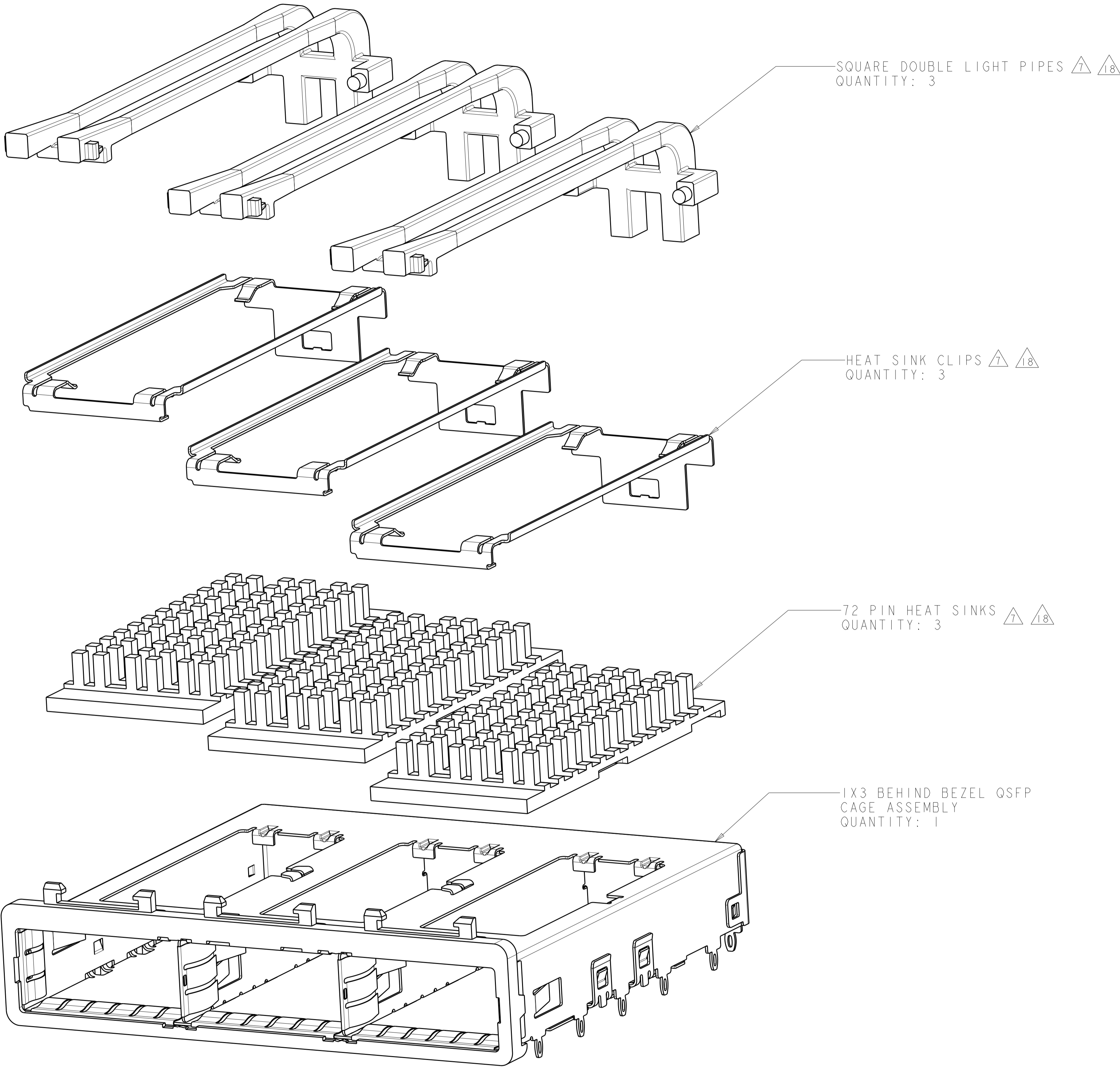
- 9 DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- 10 UNPLATED THRU HOLE.
- 11 MAXIMUM HEIGHT OF LED OFF BOARD: 0.9mm.
12. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 13 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- 14 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 15 2D BARCODE AND DATE CODE (YYWW) MARKED ON SIDE OF CAGE.
- 16 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- 17 FINISH:  
EMI SPRING: 2µm MINIMUM TIN  
FRONT FLANGE: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL OVER 5.08µm MINIMUM COPPER  
HEATSINK: NICKEL
- 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.




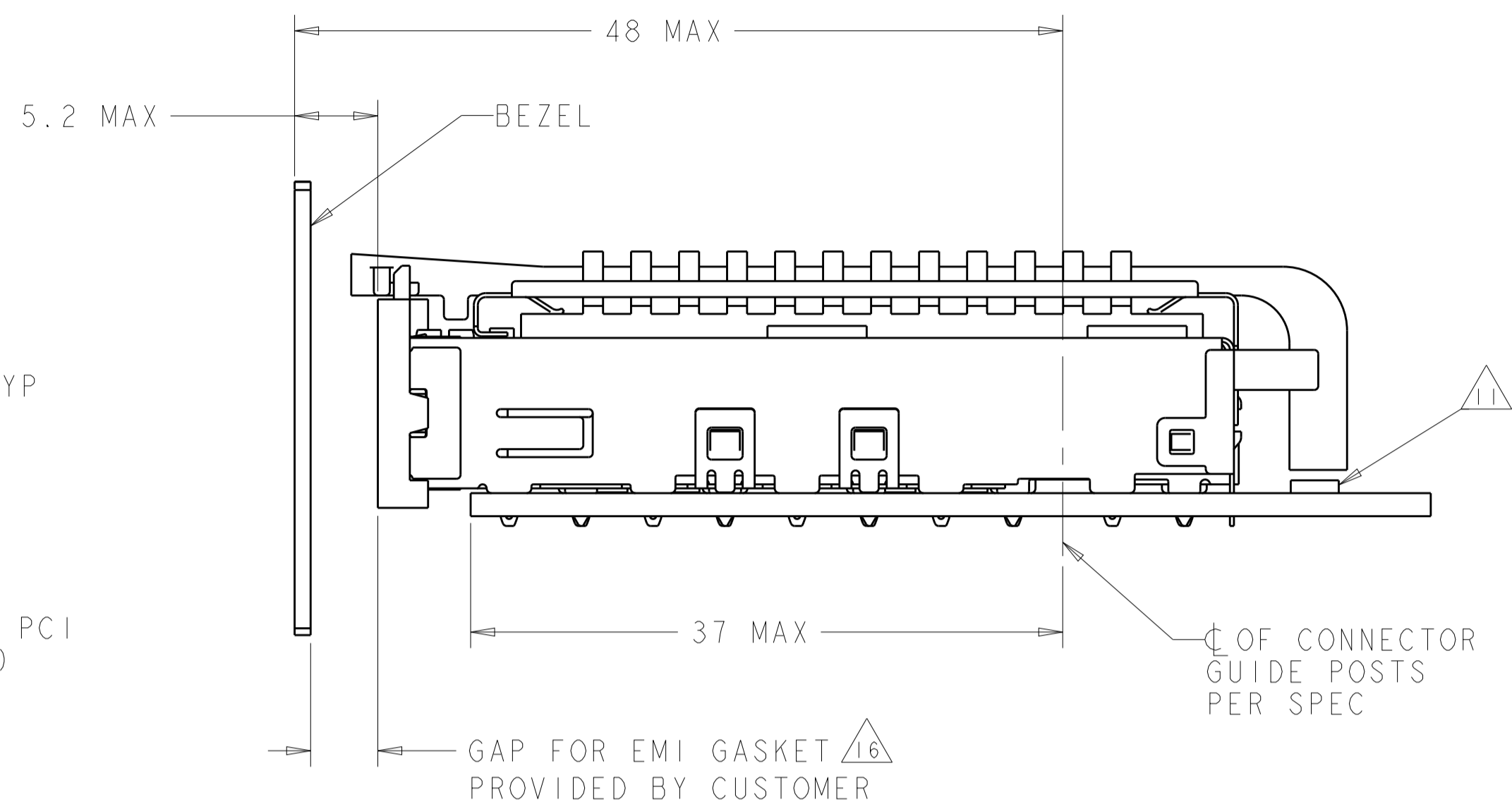
23.0	NETWORKING	2110412-3
16.0	SAN	2110412-2
13.7	PCI	2110412-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 28FEB2008	NAME <b>TE</b> TE Connectivity	
DIMENSIONS:		CHK J. PETERSON 28FEB2008		
mm		APVD J. PETERSON 28FEB2008	PRODUCT SPEC 108-2286	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC 114-13218		
MATERIAL		WEIGHT	SIZE CAGE CODE DRAWING NO A100779C=2110412	
FINISH		CUSTOMER DRAWING	RESTRICTED TO -	
SCALE 4:1		SHEET 1 OF 5		REV F

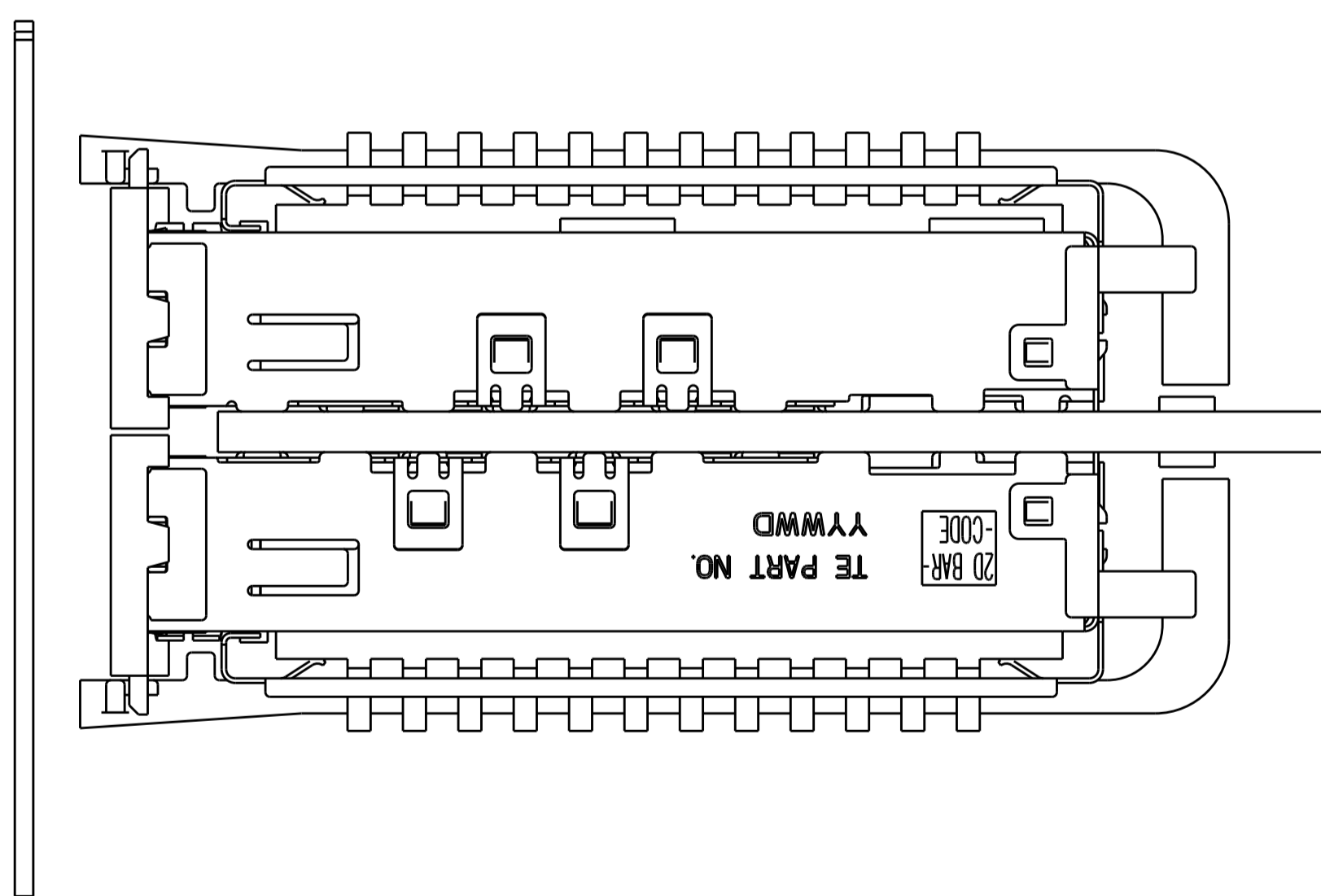
LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-	-	SEE SHEET 1	-	-	-





THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	C. VALENTINE	28FEB2008	 TE Connectivity	
		CHK	J. PETERSON	28FEB2008		
		APVD	J. PETERSON	28FEB2008	NAME	
					IX3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:			SIZE	
mm		0 PLC ±.1			CAGE CODE	
		1 PLC ±0.1			DRAWING NO	
		2 PLC ±.1			RESTRICTED TO	
		3 PLC ±.			A100779	
		4 PLC ±.			C=2110412	
		ANGLES ±.			SCALE	
		FINISH			4:1	
MATERIAL		-			SHEET	
		-			2	
		CUSTOMER DRAWING			OF	
					5	
					REV	
					F	

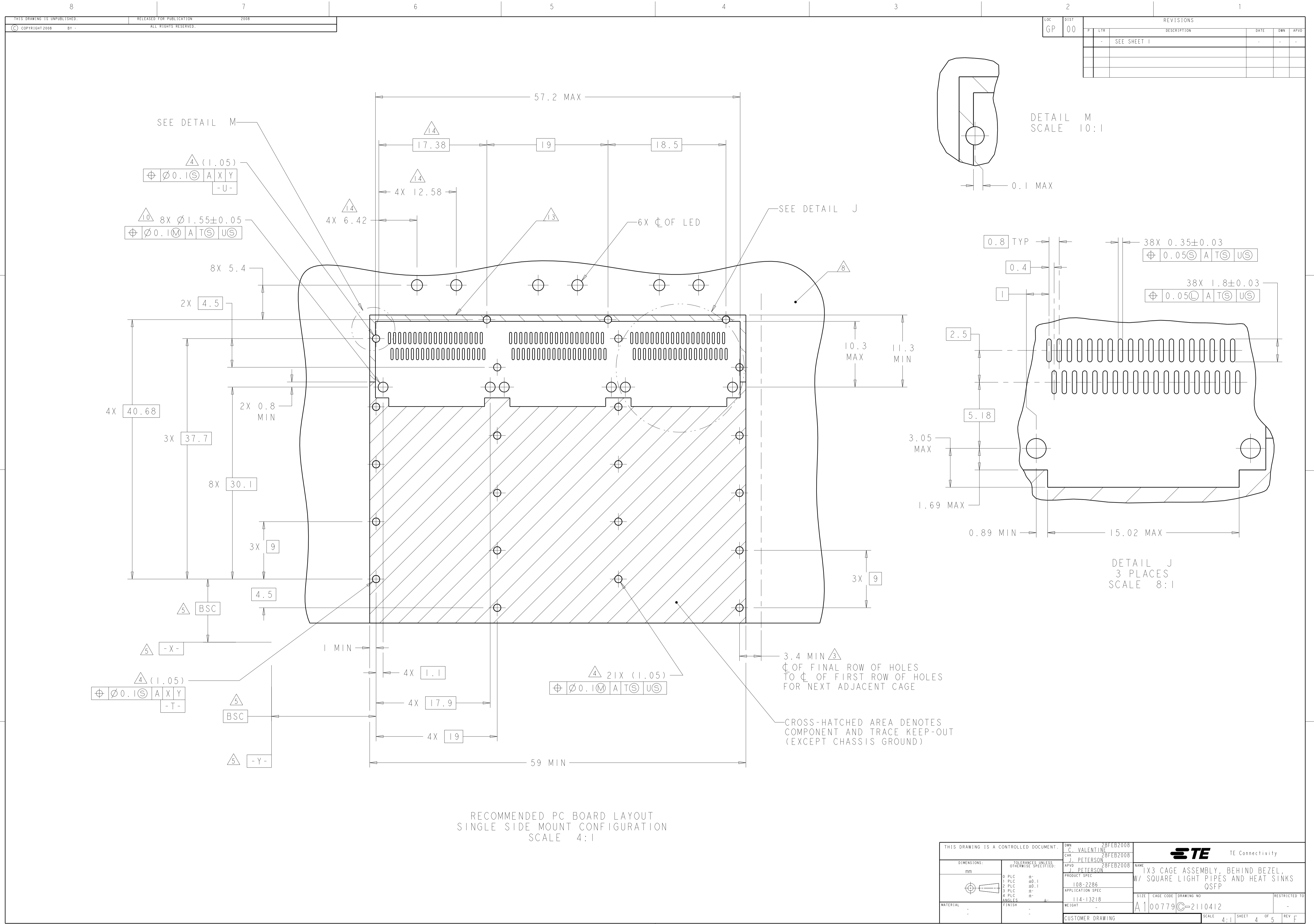


OF CONNECTOR  
GUIDE POSTS  
PER SPEC



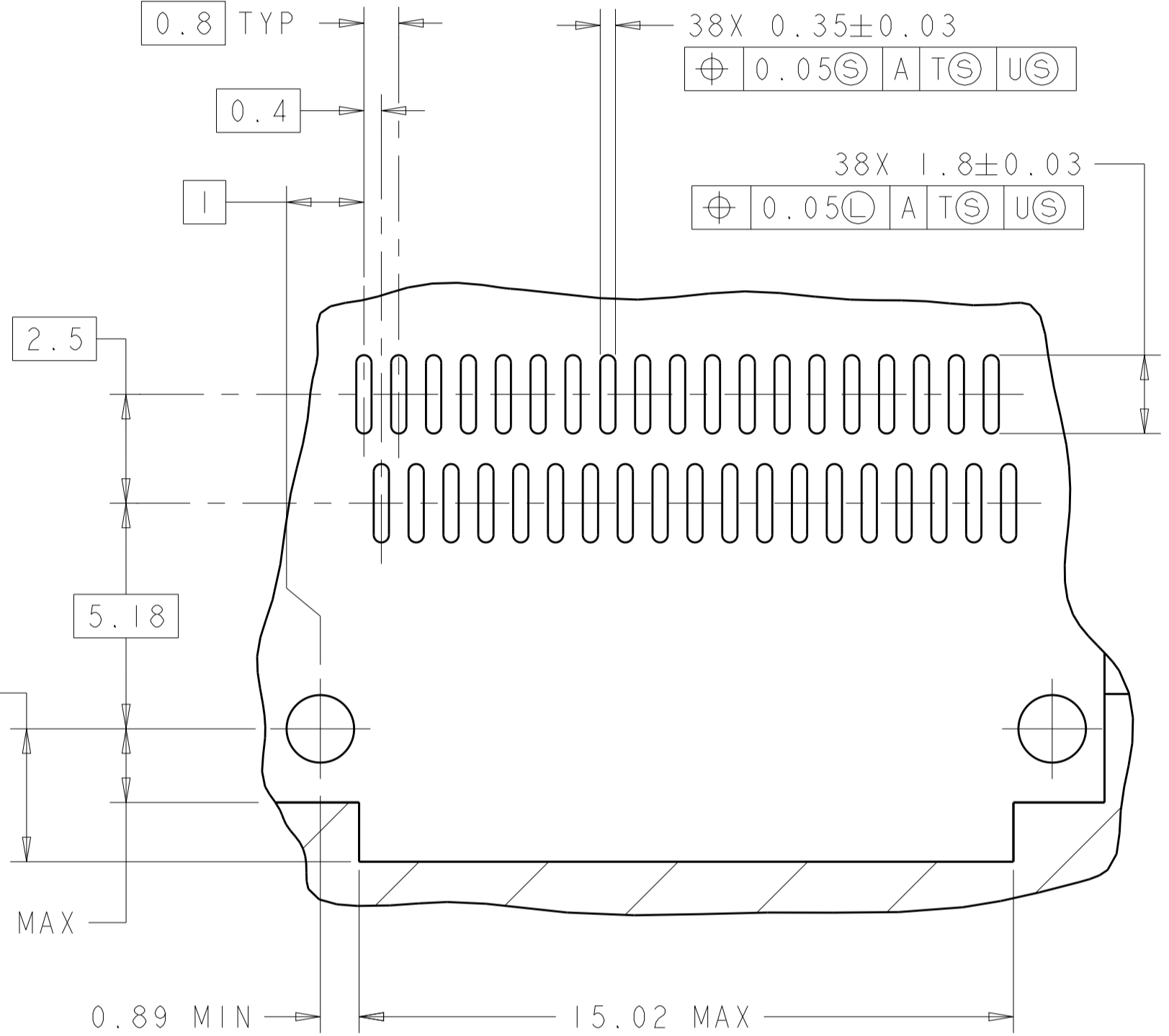
TE PART NO. YYWWD

THIS DRAWING IS A CONTROLLED DOCUMENT.										OWN VALENTIN		28FEB2008				TE Connectivity																			
DIMENSIONS:  mm										TOLERANCES UNLESS OTHERWISE SPECIFIED:  Ø PLC ±.1 PLC ±.01 PLC ±.01 PLC ±.1 PLC ±.1 ANGLES ±.1										CHK J. PETERSON		28FEB2008		NAME X13 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSPF											
																				APPROV J. PETERSON		28FEB2008													
										PRODUCT SPEC 108-2286										APPLICATION SPEC 114-13218		SIZE		CAGE CODE		DRAWING NO		RESTRICTED TO							
																						WEIGHT		-		A100779				C2110412					
MATERIAL -										FINISH -										CUSTOMER DRAWING															
																				SCALE		4:1		SHEET		3		OF		5		REV		F	




LOC		DIST		REVISONS			
GP		00		DESCRIPTION	DATE	DWN	APVD
				SEE SHEET 1	-	-	-

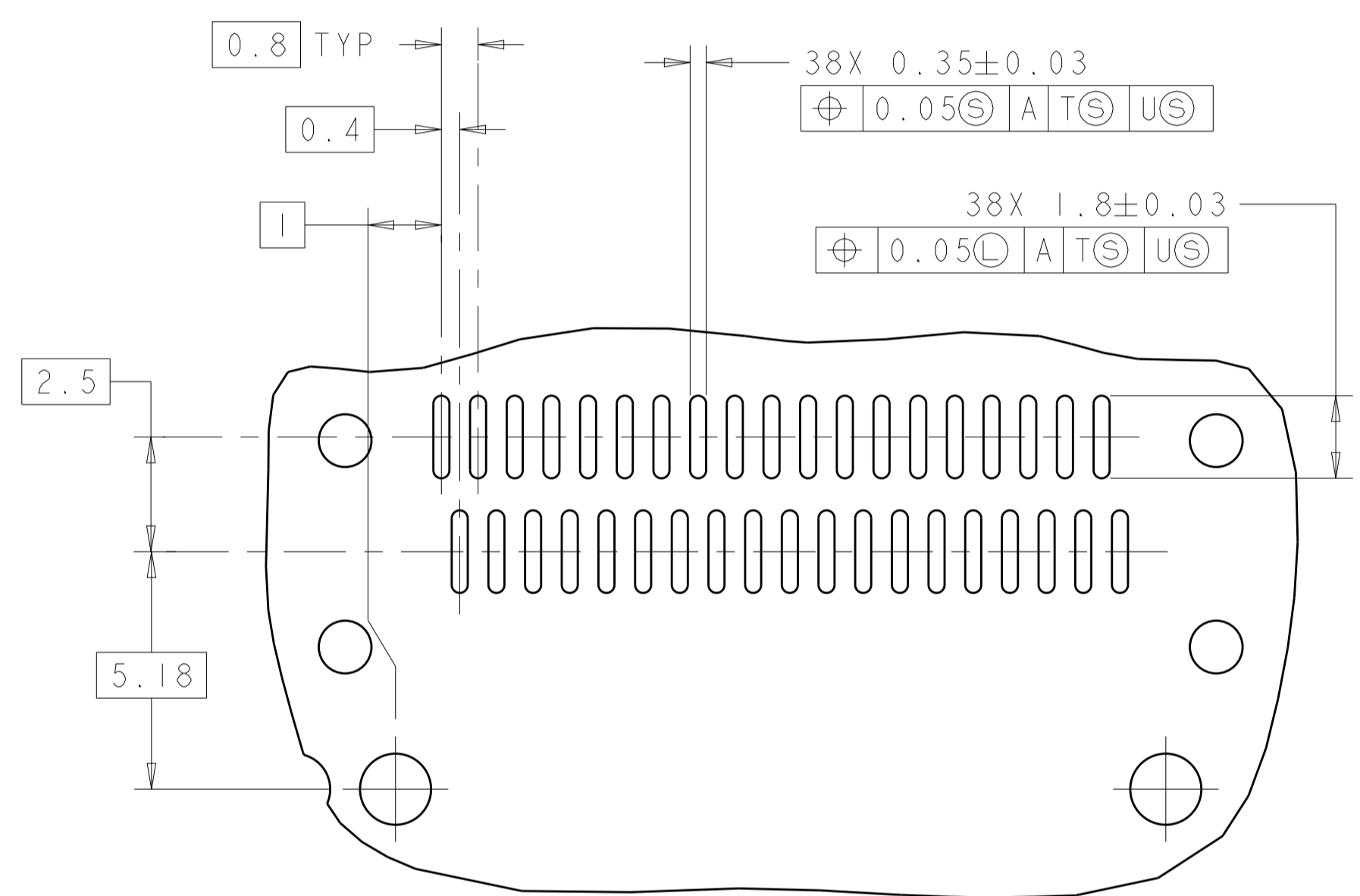
DETAIL M  
SCALE 10:1



DETAIL J  
3 PLACES  
SCALE 8:1



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 28FEB2008	 TE Connectivity	
DIMENSIONS: mm		CHK J. PETERSON 28FEB2008		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD J. PETERSON 28FEB2008	NAME IX3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP	
0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ±		PRODUCT SPEC 108-2286	SIZE A100779	
ANGLES ±		APPLICATION SPEC 114-13218	CAGE CODE C=2110412	
FINISH		WEIGHT	RESTRICTED TO	
MATERIAL		CUSTOMER DRAWING	SCALE 4:1 SHEET 4 OF 5 REV F	



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 28FEB2008 C. VALENTI CHK 28FEB2008 J. PETERSON APVD 28FEB2008 J. PETERSON		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ± ANGLES ±		NAME 1X3 GAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS, QSFP	
		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218		SIZE A1	
MATERIAL -		FINISH -		GAGE CODE C=2110412	
		WEIGHT -		DRAWING NO 2110412	
		CUSTOMER DRAWING		RESTRICTED TO -	
				SCALE 4:1 SHEET 5 OF 5 REV F	

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