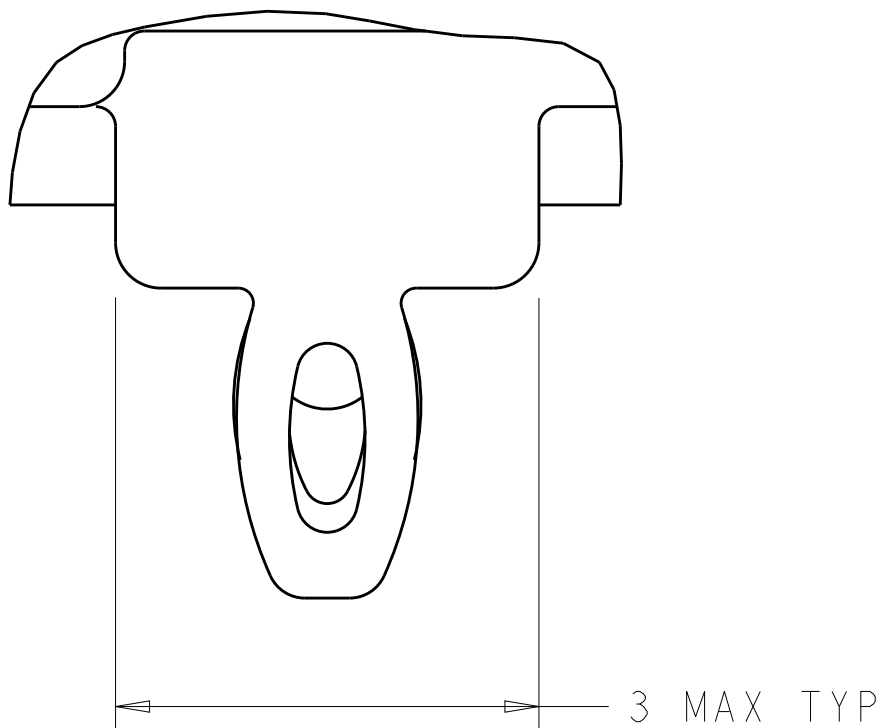


LOC	DIST	REVISIONS						
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD	
			6	REVISED PER ECO-12-003841	14MAR2012	TY	KS	
			7	REVISED PER ECO-12-005533	05APR2012	JY	AC	
			A	REVISED PER ECR-13-019963	5NOV2013	RG	MC	
			B	REVISED PER ECO-14-016878	30EC2014	RG	MC	



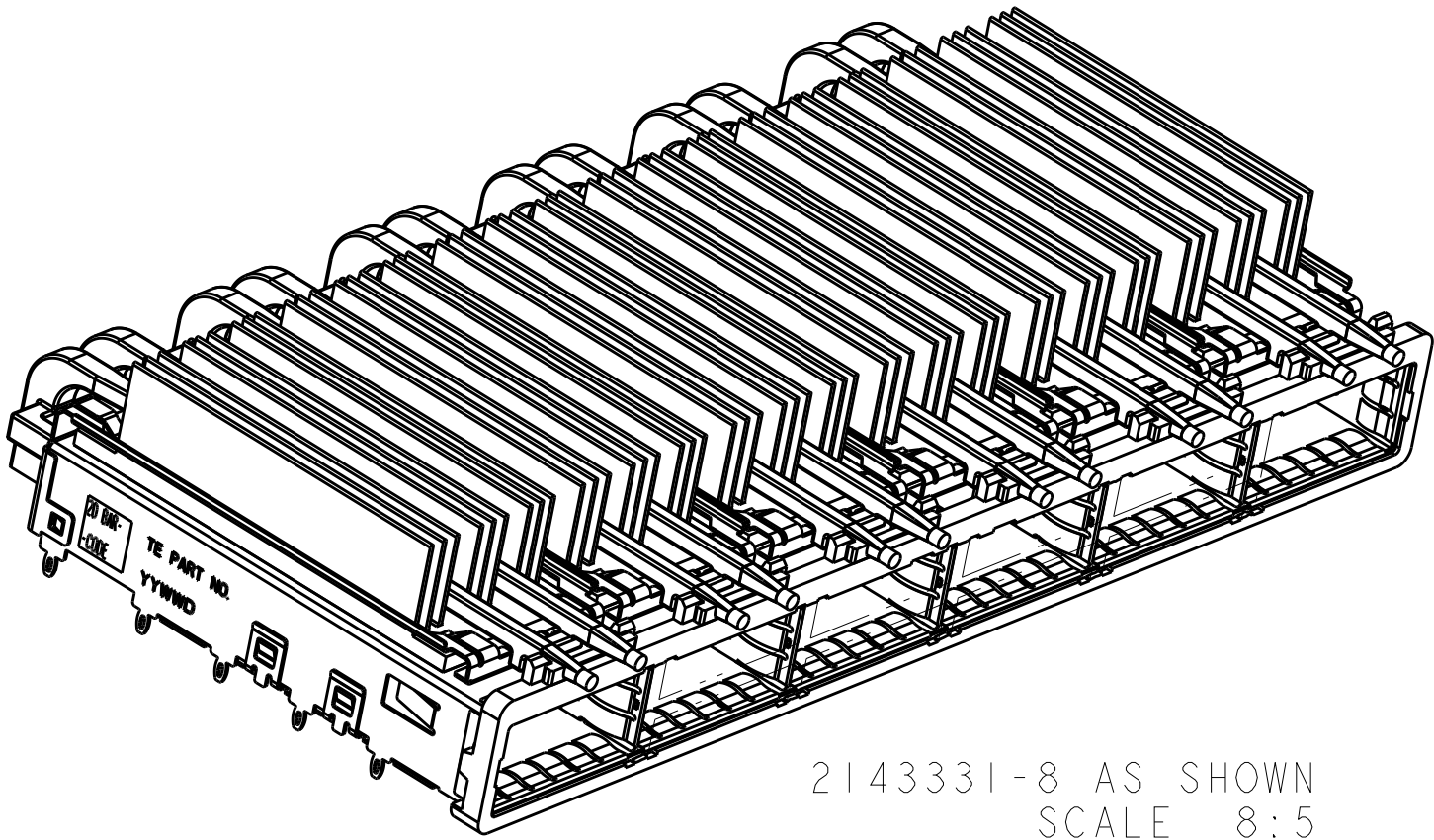
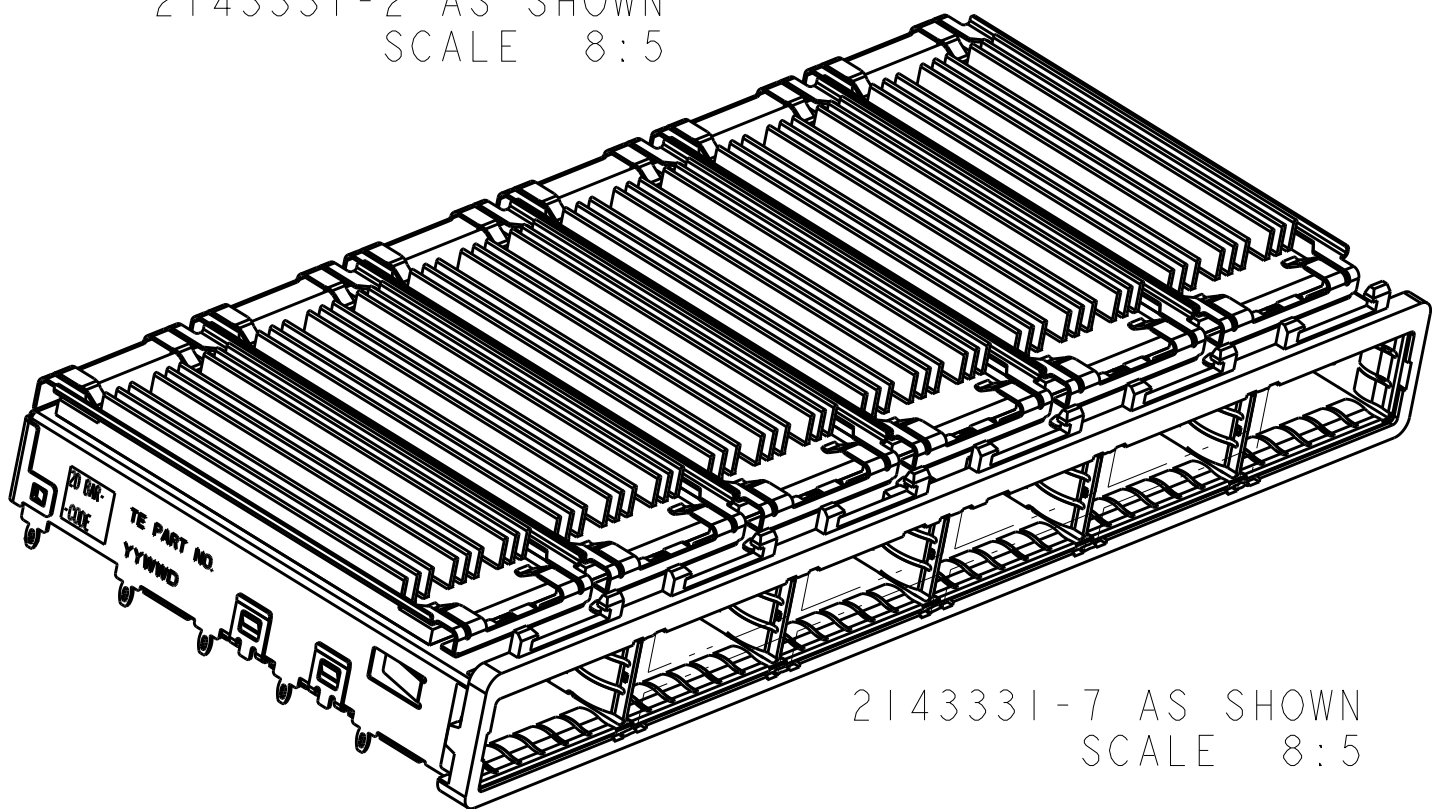
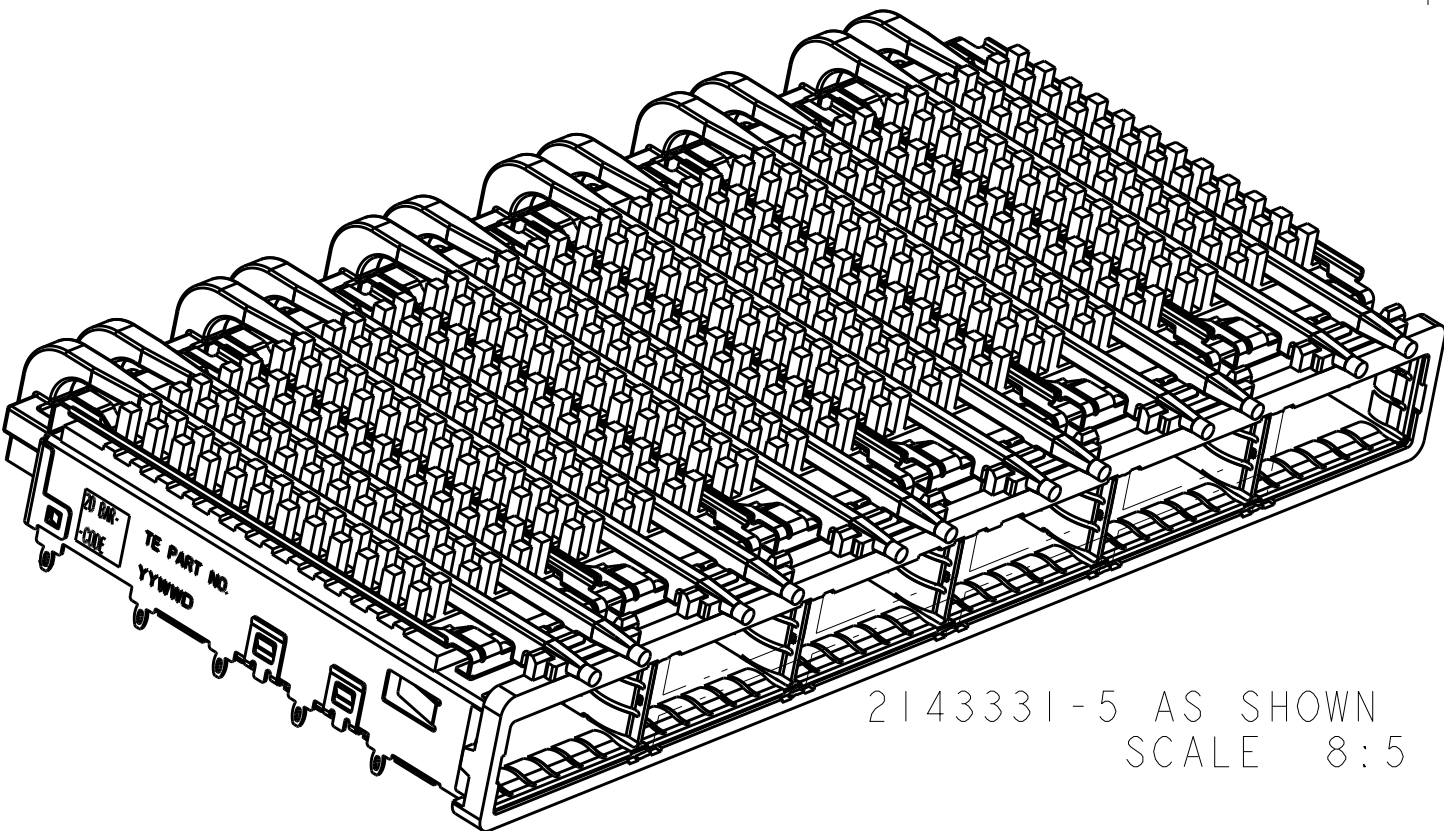
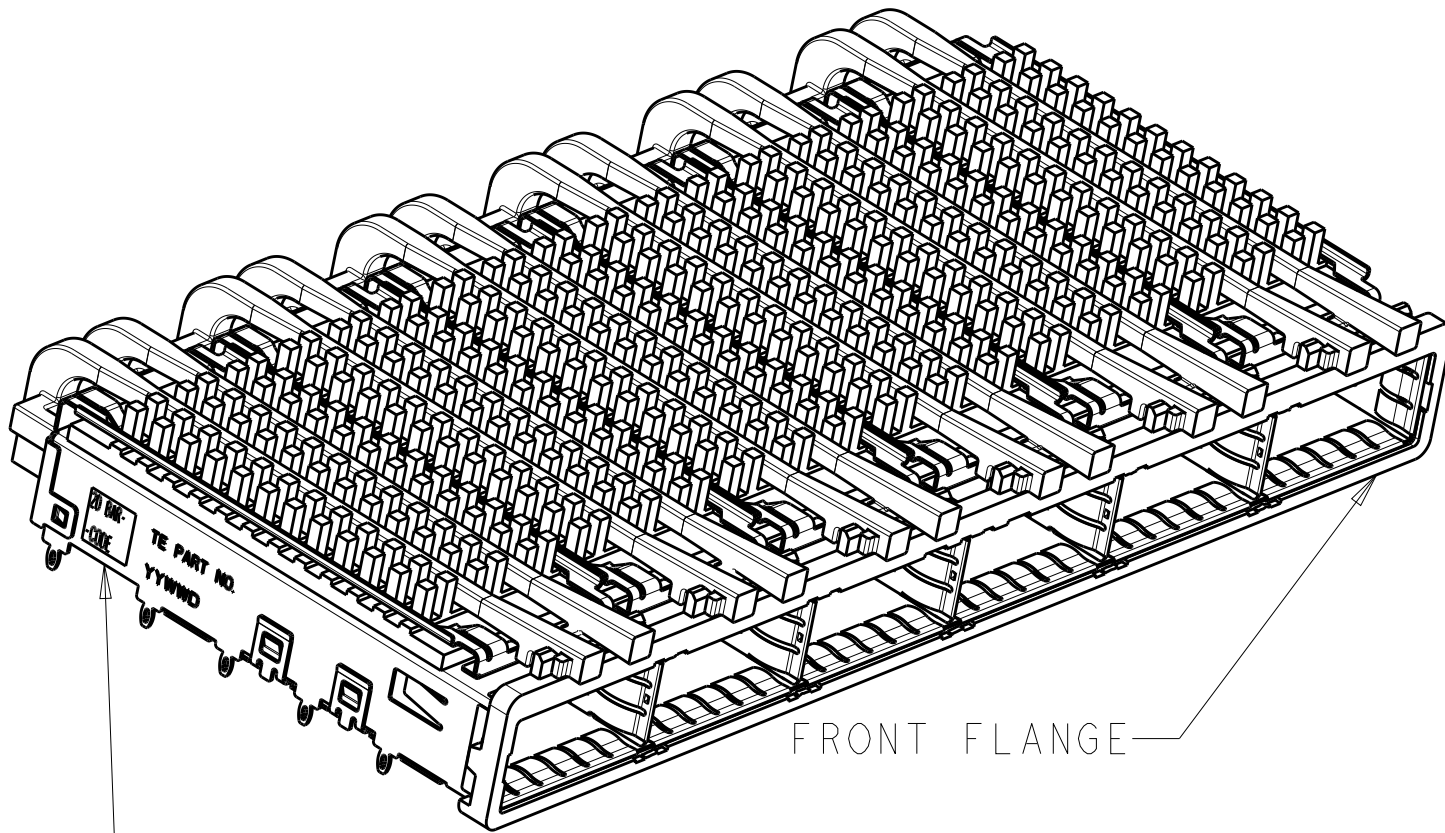
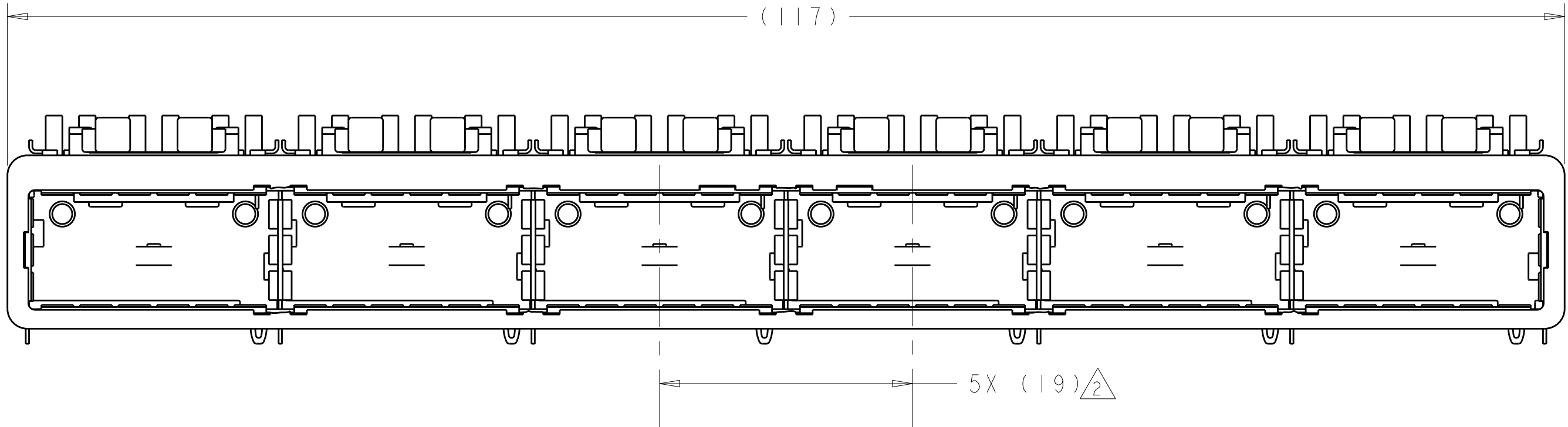
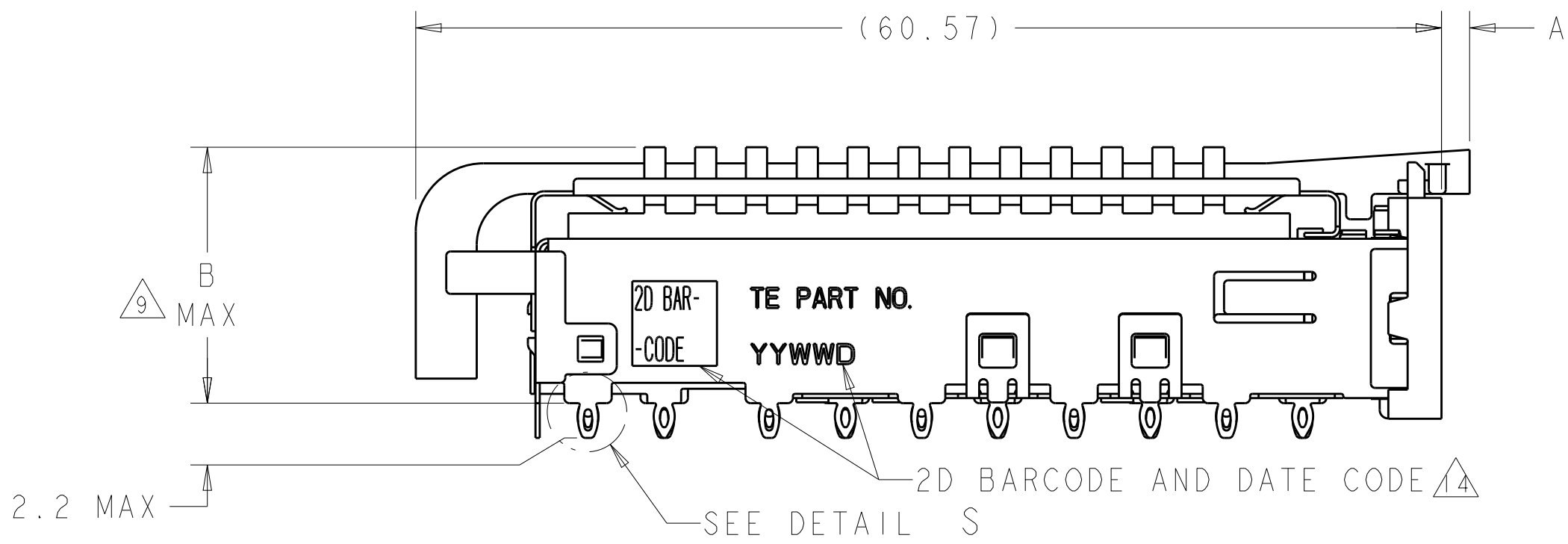
DETAIL S
SCALE 20:1



- 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
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
- PITCH BETWEEN PORTS OF ONE 1X6 CAGE ASSEMBLY.
- SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- DIMENSION F 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.
- HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- DATUM A IS TOP SURFACE OF PC BOARD.
- DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- UNPLATED THRU HOLE.

11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 2D BARCODE AND DATE CODE (YYWWDD) MARKED ON SIDE OF CAGE ASSEMBLY.

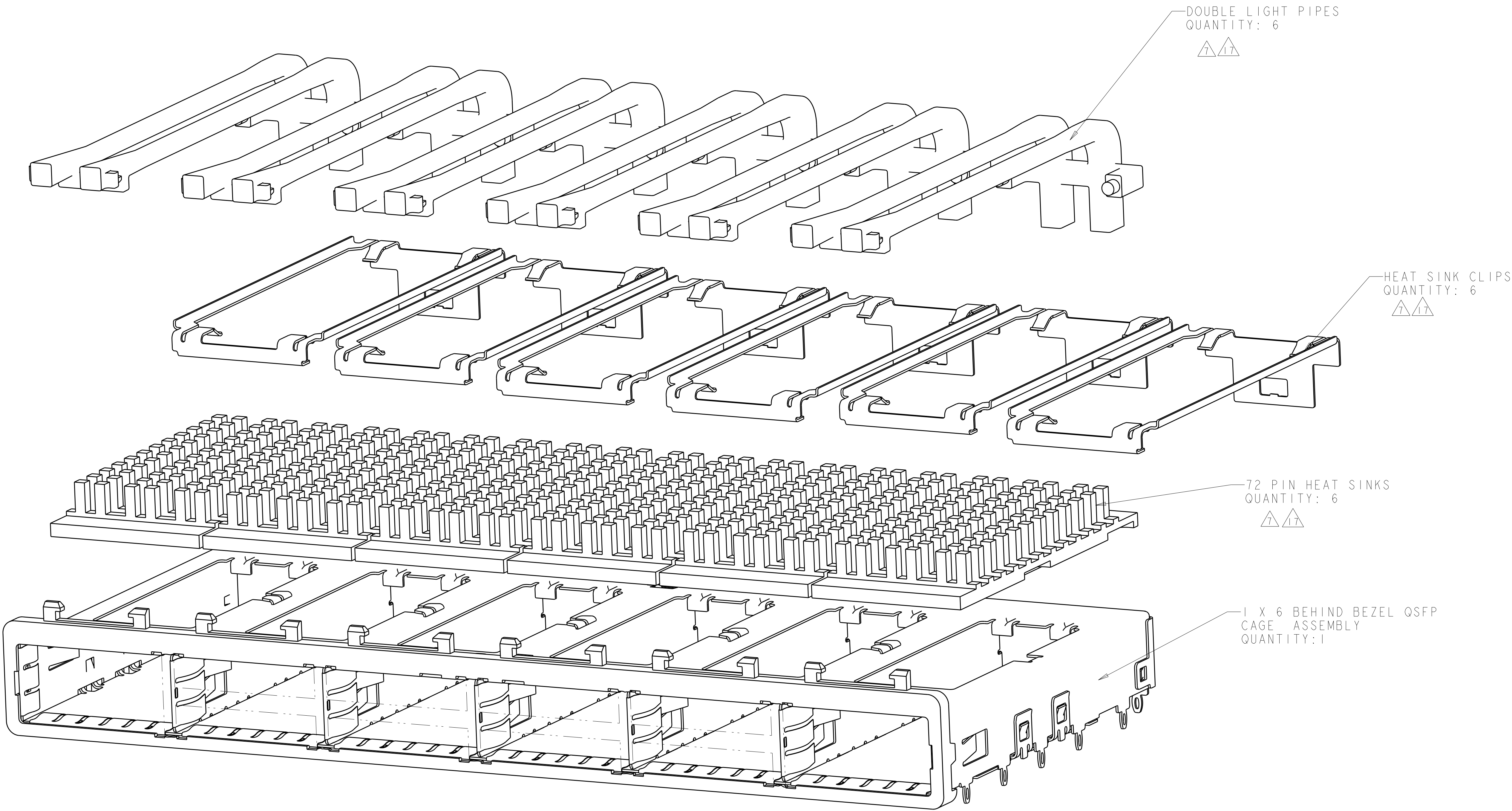
- REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- EMI SPRING FINISH: 2um MINIMUM TIN
FRONT FLANGE FINISH: 3um MINIMUM TIN OVER 1.27um MINIMUM NICKEL
OVER 5.08um MINIMUM COPPER.
HEAT SINK FINISH: BLACK ANODIZED
- HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED. LIGHT PIPES, SHIPPED UNATTACHED, MUST BE ASSEMBLED BY CUSTOMER AFTER THE CAGE IS SEATED IN THE PCB.
- ROUND LIGHT PIPES PLEASE SEE SHEET 4/6

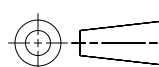


	ROUND LIGHT PIPE	2.00	21.0	FIN TYPE	2143331-8
	N/A	N/A	15.0	FIN TYPE	2143331-7
	ROUND LIGHT PIPES	1.66	23.0	NETWORKING	2143331-6
			16.0	SAN	2143331-5
			13.7	PCI	2143331-4
	SQUARE LIGHT PIPES	1.66	23.0	NETWORKING	2143331-3
			16.0	SAN	2143331-2
			13.7	PCI	2143331-1
	LIGHT PIPE TYPE	A	B	HEAT SINK PROFILE	PART NUMBER

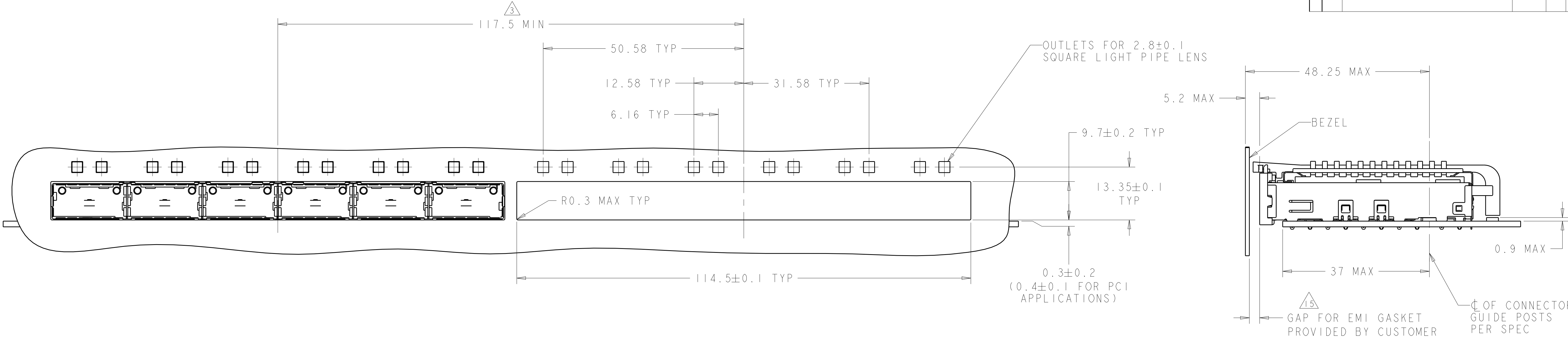
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE CHK J. PETERSON APVD J. PETERSON	18MAR2010 18MAR2010 18MAR2010	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC ±.020 1 PLC ±0.15 2 PLC ±. 3 PLC ±. 4 PLC ±. ANGLES ±.		PRODUCT SPEC	
				APPLICATION SPEC	
MATERIAL		FINISH		114-13218	
				WEIGHT	
				Customer Drawing	
A100779		C=2143331		RESTRICTED TO	
SCALE 3:1		SHEET 1 OF 6		REV B	

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

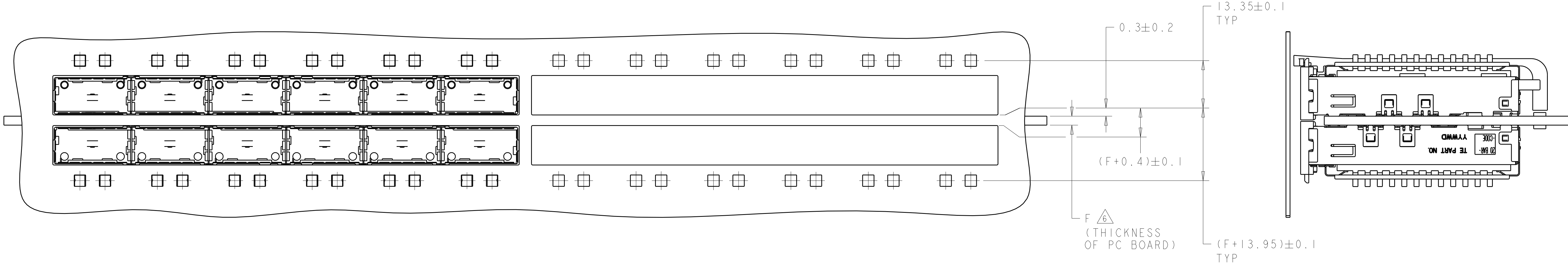


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	C. VALENTINE	18MAR2010	 TE Connectivity	
		CHK	J. PETERSON	18MAR2010		
DIMENSIONS:		APVD	J. PETERSON	18MAR2010	NAME	
mm		PRODUCT SPEC			1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SOR LIGHT PIPES AND HEAT SINKS, QSFP	
		APPLICATION SPEC			SIZE	
		114-13218			CAGE CODE	
		WEIGHT			DRAWING NO	
		Customer Drawing			RESTRICTED TO	
MATERIAL		Customer Drawing			SCALE	
					4:1	
					SHEET	
					2	
					OF	
					6	
					REV	
					B	

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



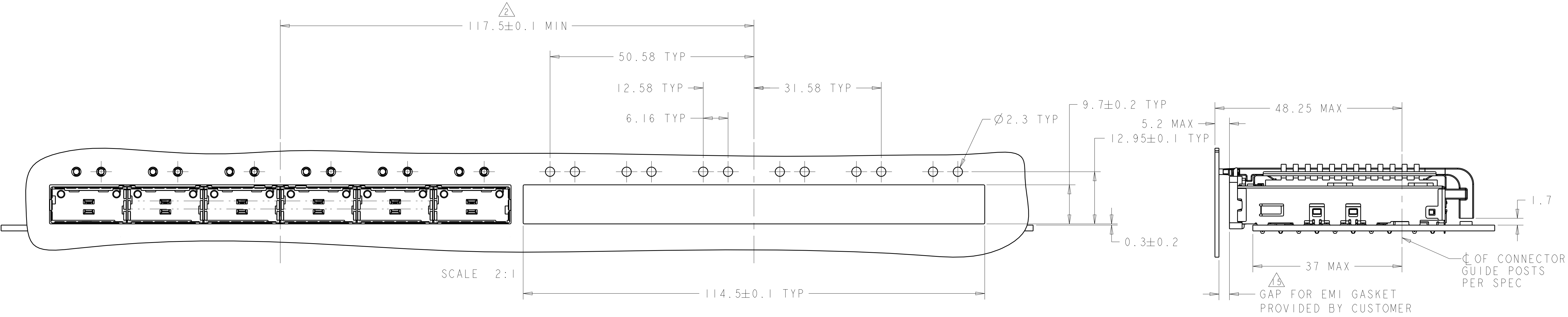
ONE SIDED CONFIGURATION
WITH SQUARE LIGHT PIPES
SCALE 2:1



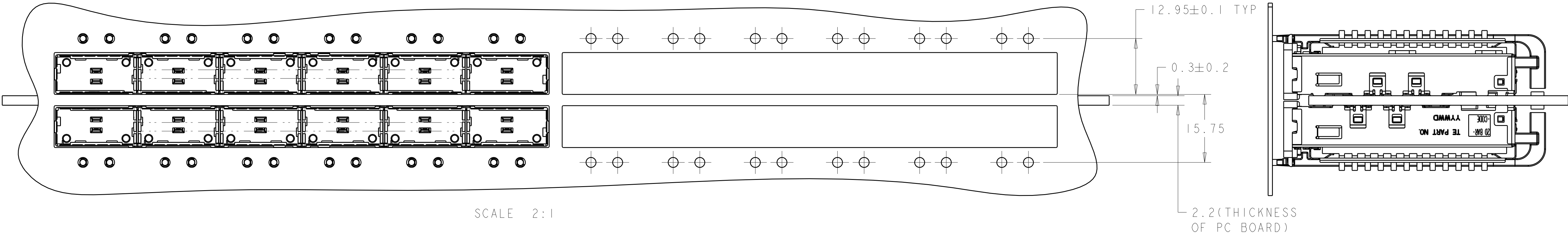
BELLY TO BELLY CONFIGURATION
WITH SQUARE LIGHT PIPES
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	C. VALENTINE	18MAR2010	TE Connectivity		
		CHK	J. PETERSON	18MAR2010			
		APVD	J. PETERSON	18MAR2010	NAME		
		PRODUCT SPEC			1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQR LIGHT PIPES AND HEAT SINKS, QSFP		
		APPLICATION SPEC			SIZE		
		114-13218			CAGE CODE		
		WEIGHT			DRAWING NO		
		Customer Drawing			A100779C=2143331		
					RESTRICTED TO		
					SCALE		
					4:1		
					SHEET		
					3		
					OF		
					6		
					REV		
					B		

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

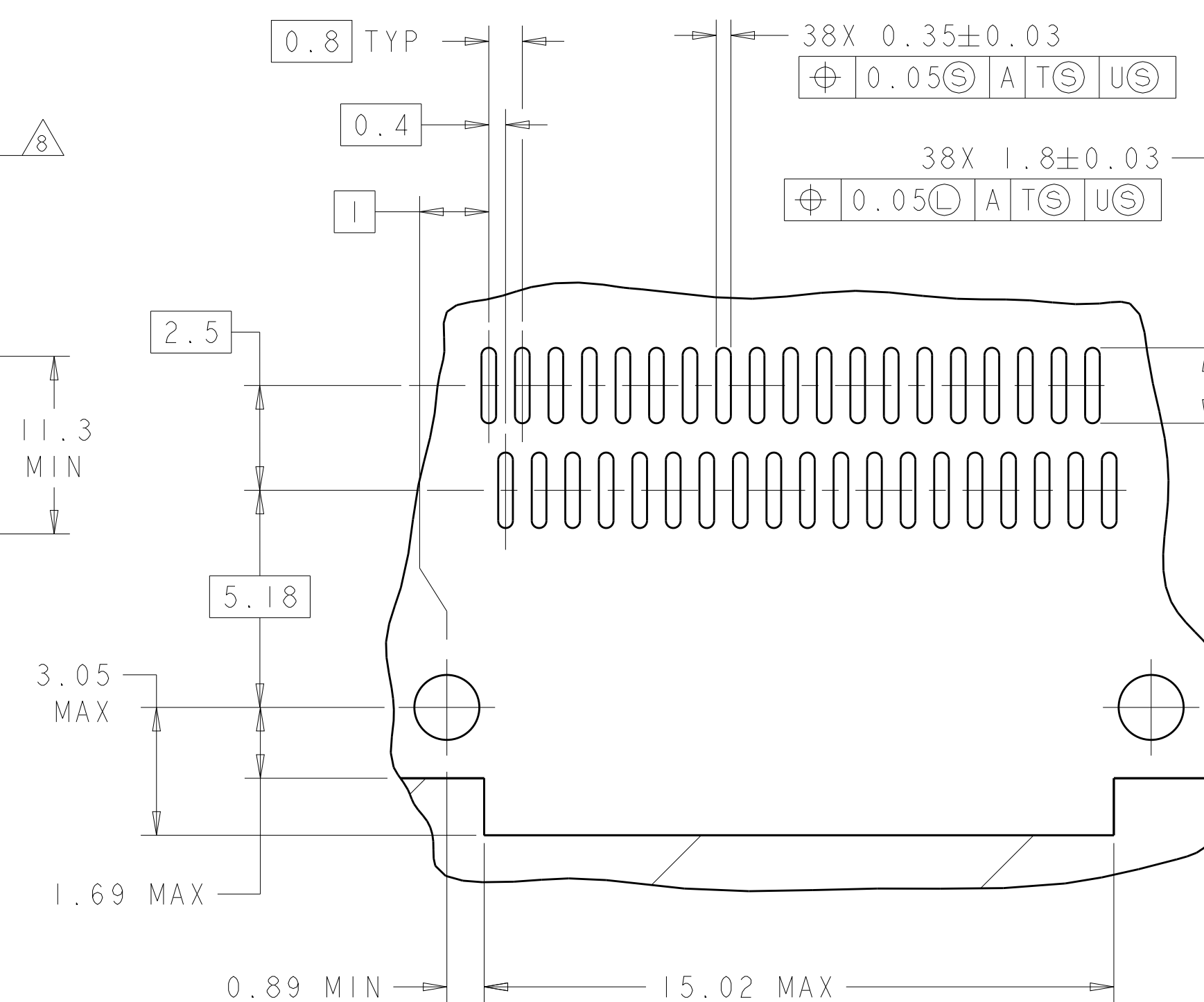
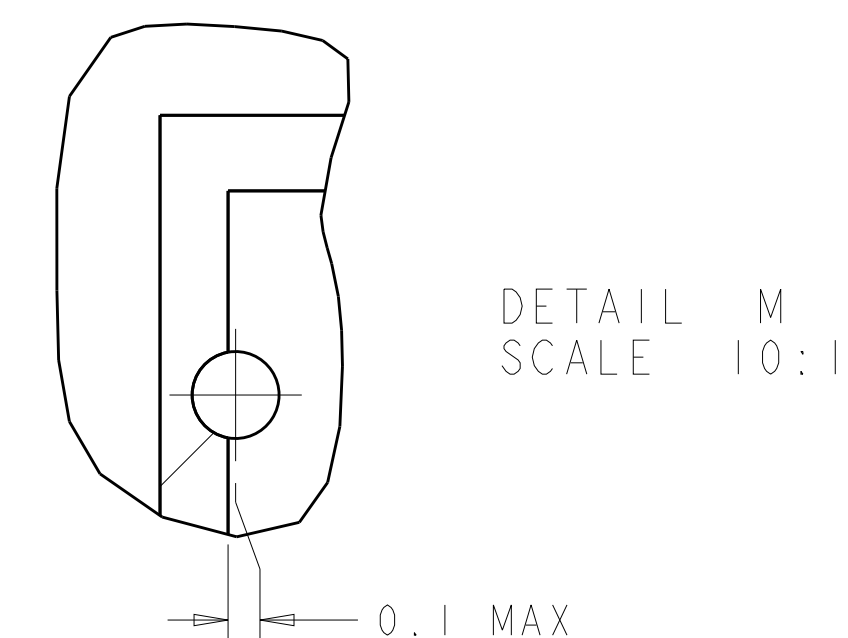


ONE SIDED CONFIGURATION WITH
ROUND LIGHT PIPES



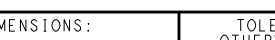
BELLY TO BELLY CONFIGURATION
WITH ROUND LIGHT PIPES
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 18MAR2010	TE Connectivity	
DIMENSIONS:		CHK J. PETERSON 18MAR2010		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD J. PETERSON 18MAR2010	NAME 1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SOR LIGHT PIPES AND HEAT SINKS, QSFP	
	0 PLC ±	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO	
	1 PLC ±0.1	108-2286	A100779C=2143331	
	2 PLC ±0.1	APPLICATION SPEC	RESTRICTED TO	
	3 PLC ±	114-13218		
	4 PLC ±	WEIGHT		
MATERIAL	FINISH	Customer Drawing	SCALE 3:1 SHEET 4 OF 6 REV B	

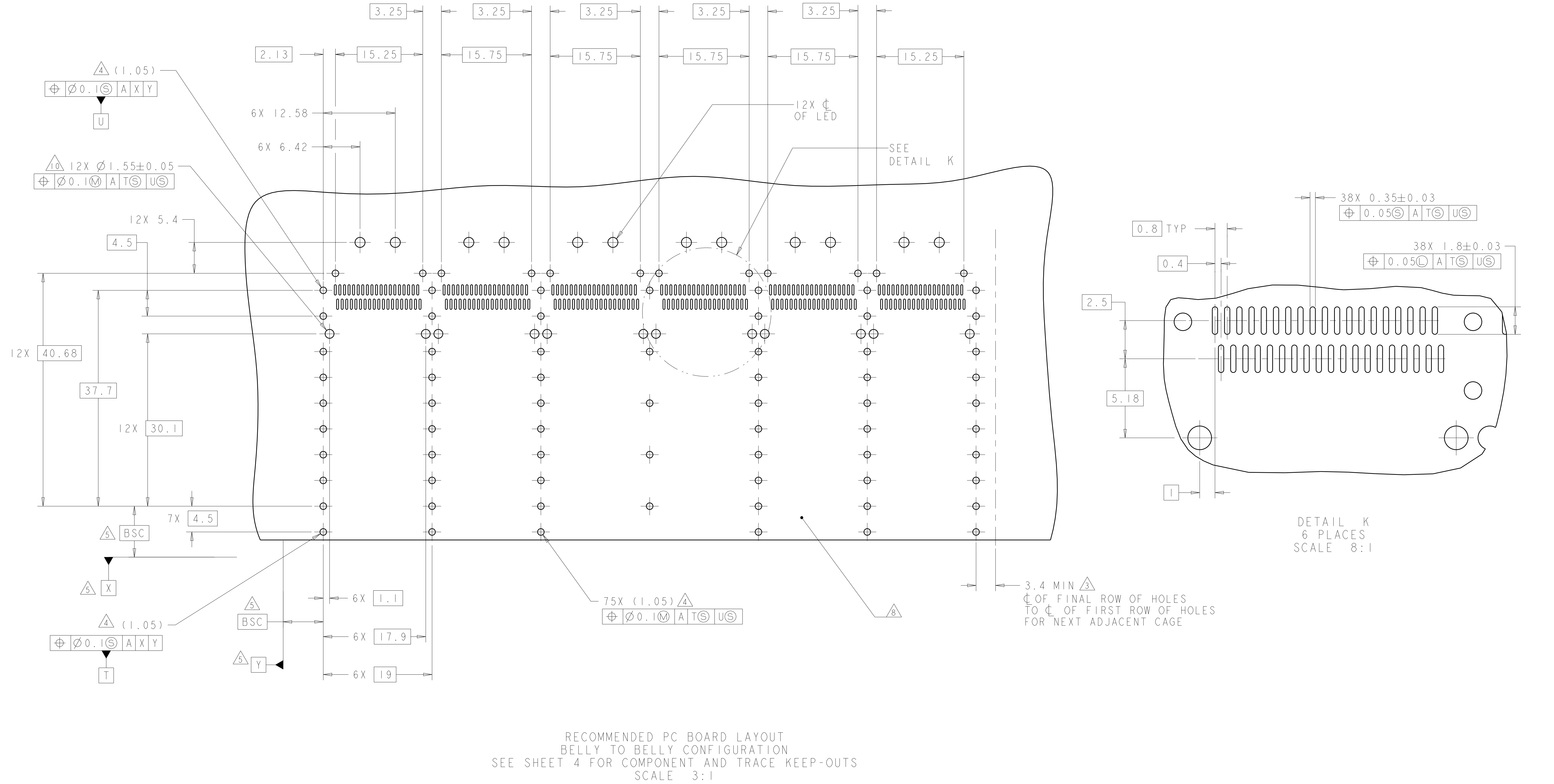


DETAIL J
6 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C VALENTINE J PETERSON APVD J PETERSON	18MAR2010 18MAR2010 18MAR2010	 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.1 1 PLC ±0.1 2 PLC ±.1 3 PLC ±.1 4 PLC ±.1 ANGLES ±.1		NAME 1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQ R LIGHT PIPES AND HEAT SINKS, OSFP	
		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218		SIZE A1	
MATERIAL -		WEIGHT -		CAGE CODE 00779	DRAWING NO C=2143331
FINISH -		Customer Drawing		SCALE 4:1	SHEET 5 OF 6
				REV A	RESTRICTED TO

LOC	DIST	REVISONS				
		P	LTR	DESCRIPTION	DATE	OWN
GP	00	-	-	SEE SHEET 1	-	-



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN C. VALENTINE CHK J. PETERSON APVD J. PETERSON	18MAR2010 8MAR2010 8MAR2010	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC $\pm .1$ 1 PLC ± 0.1 2 PLC ± 0.1 3 PLC $\pm .1$ 4 PLC $\pm .1$ ANGLES $\pm .1$ FINISH		1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SOR LIGHT PIPES AND HEAT SINKS, QSFP	
MATERIAL		WEIGHT		SIZE CAGE CODE DRAWING NO	
-		-		A100779C=2143331	
Customer Drawing		SCALE 4:1		SHEET 6 OF 6 REV B	