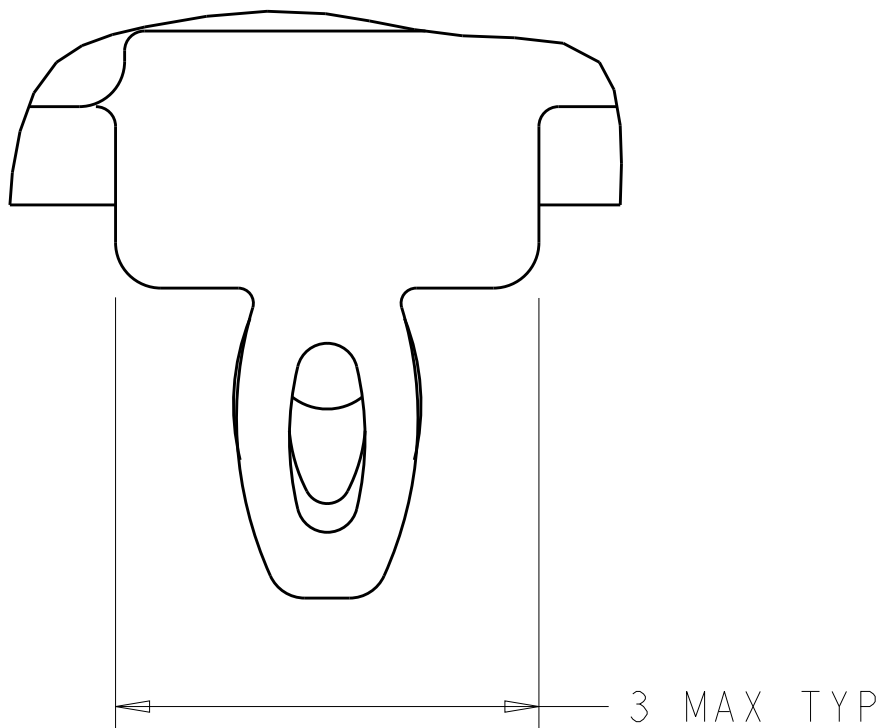


LOC	DIST	REVISIONS						
		P	LTR	DESCRIPTION	DATE	DWN	APVD	
GP	00		6	REVISED PER ECO-12-003841	14MAR2012	TY	KS	
			7	REVISED PER ECO-12-005533	05APR2012	JY	AC	
			A	REVISED PER ECR-13-019963	5NOV2013	RG	MC	
			B	REVISED PER ECO-14-016878	30EC2014	RG	MC	

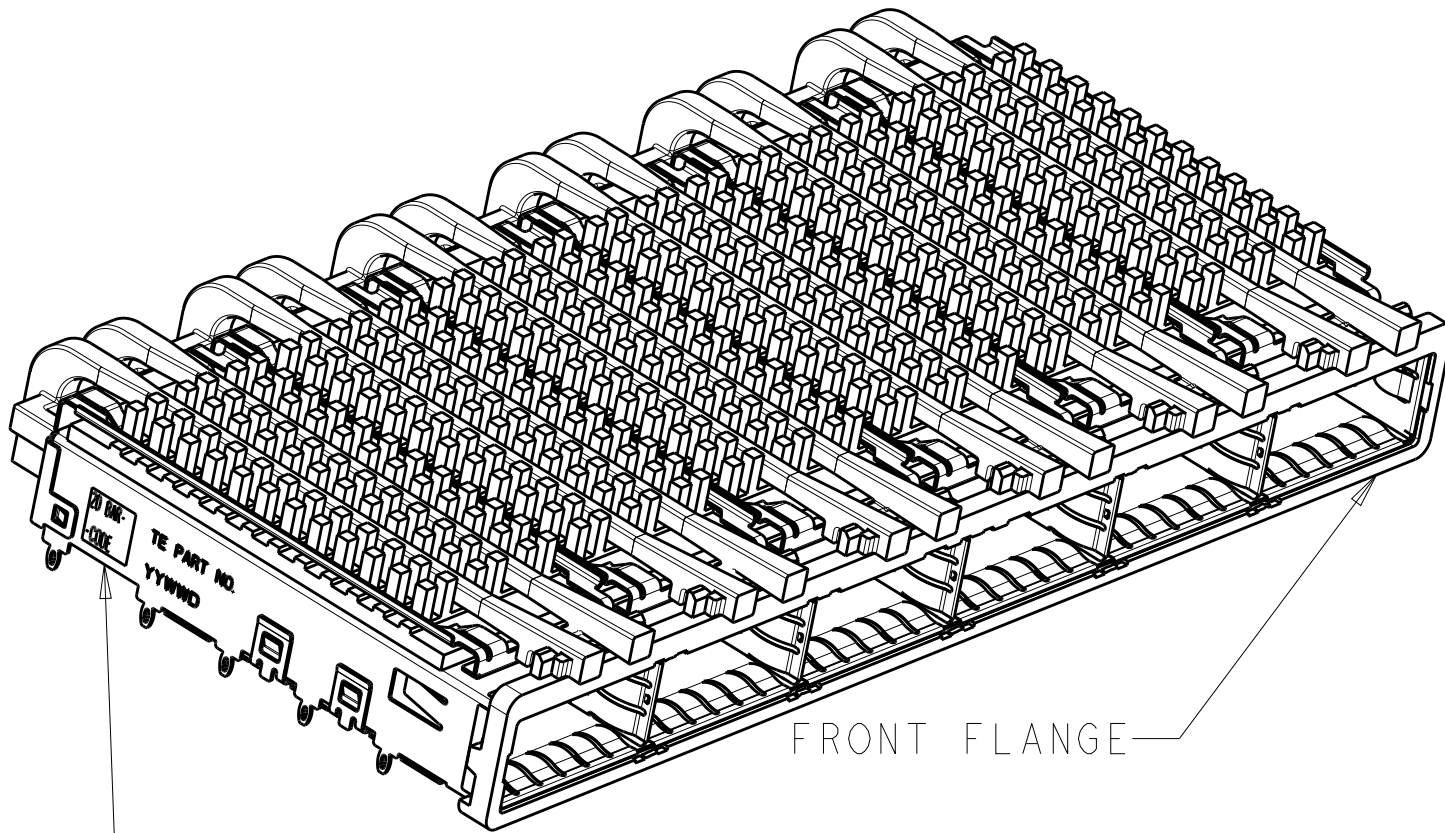
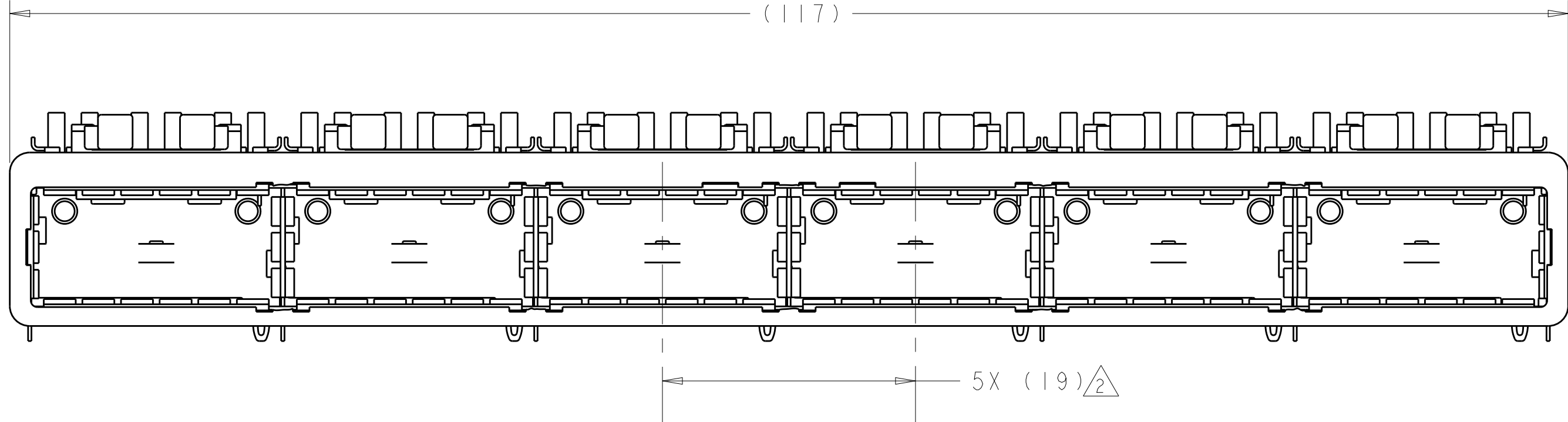
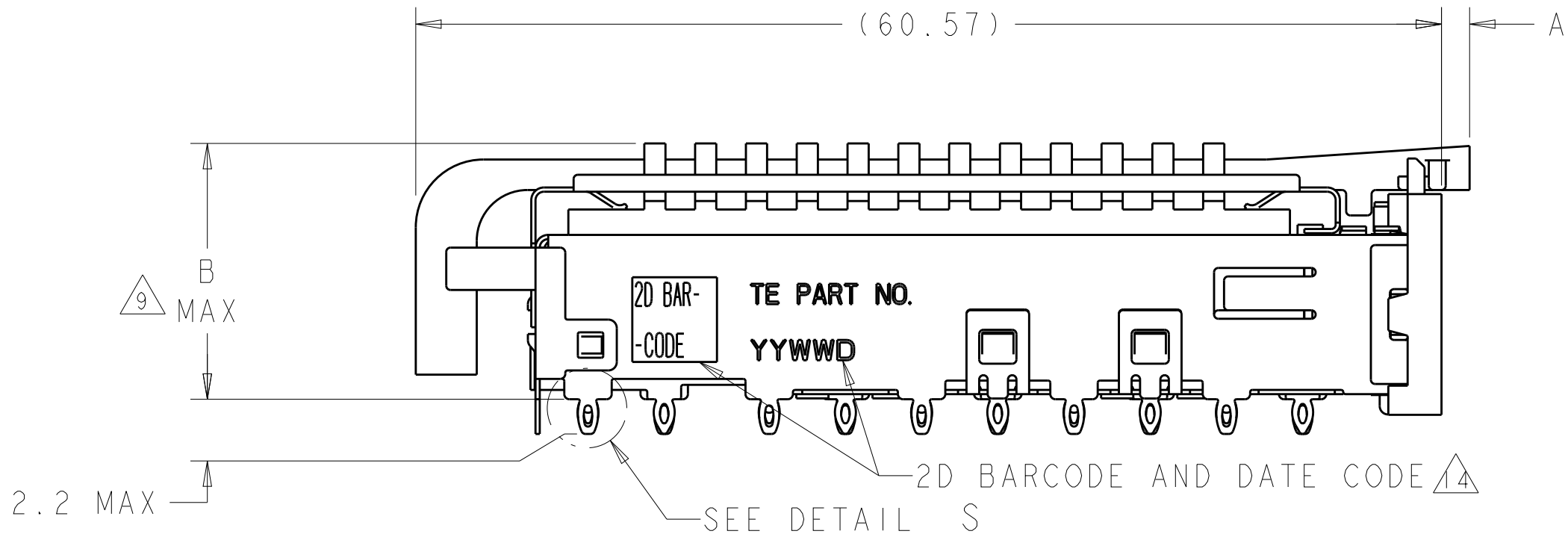


DETAIL S
SCALE 20:1

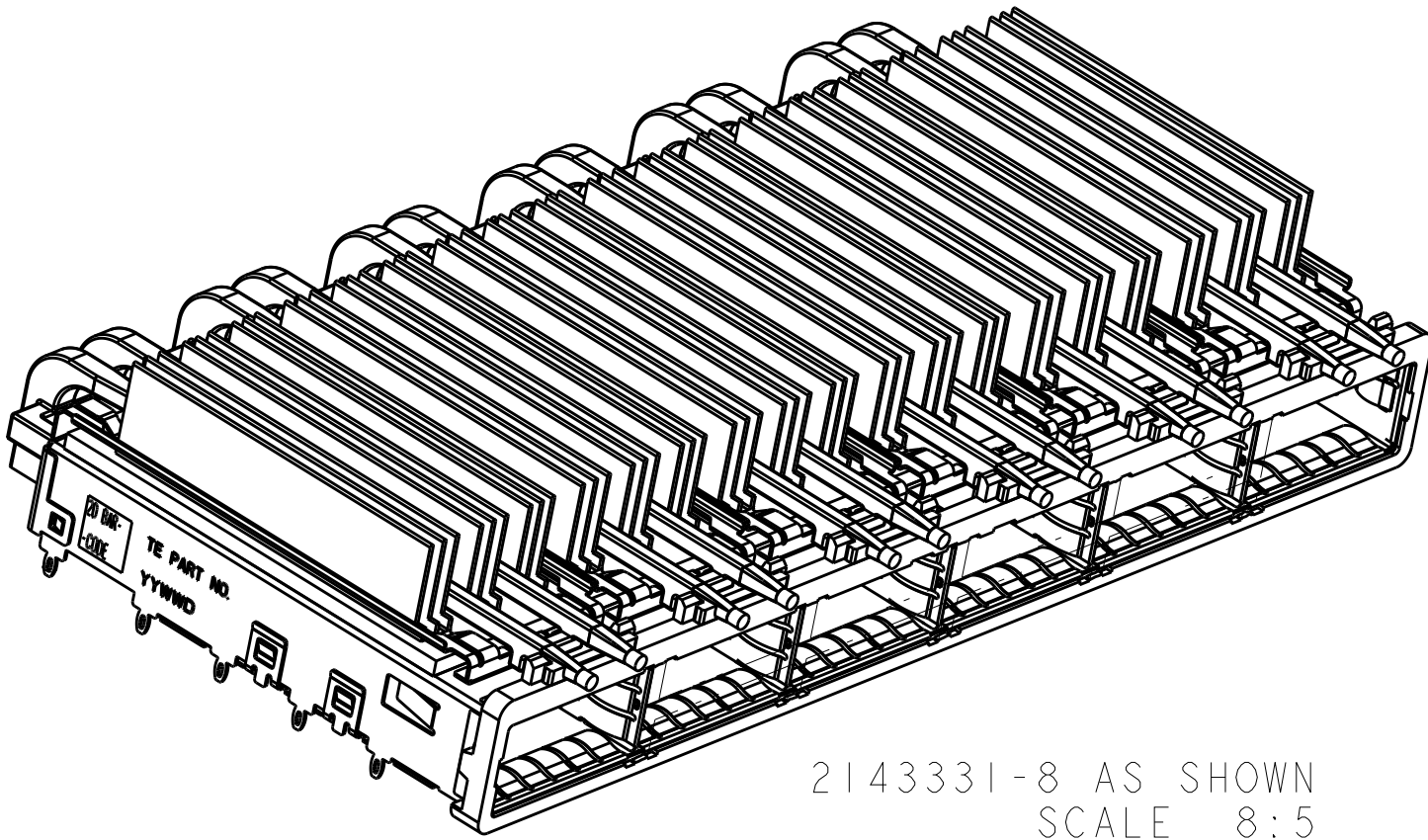
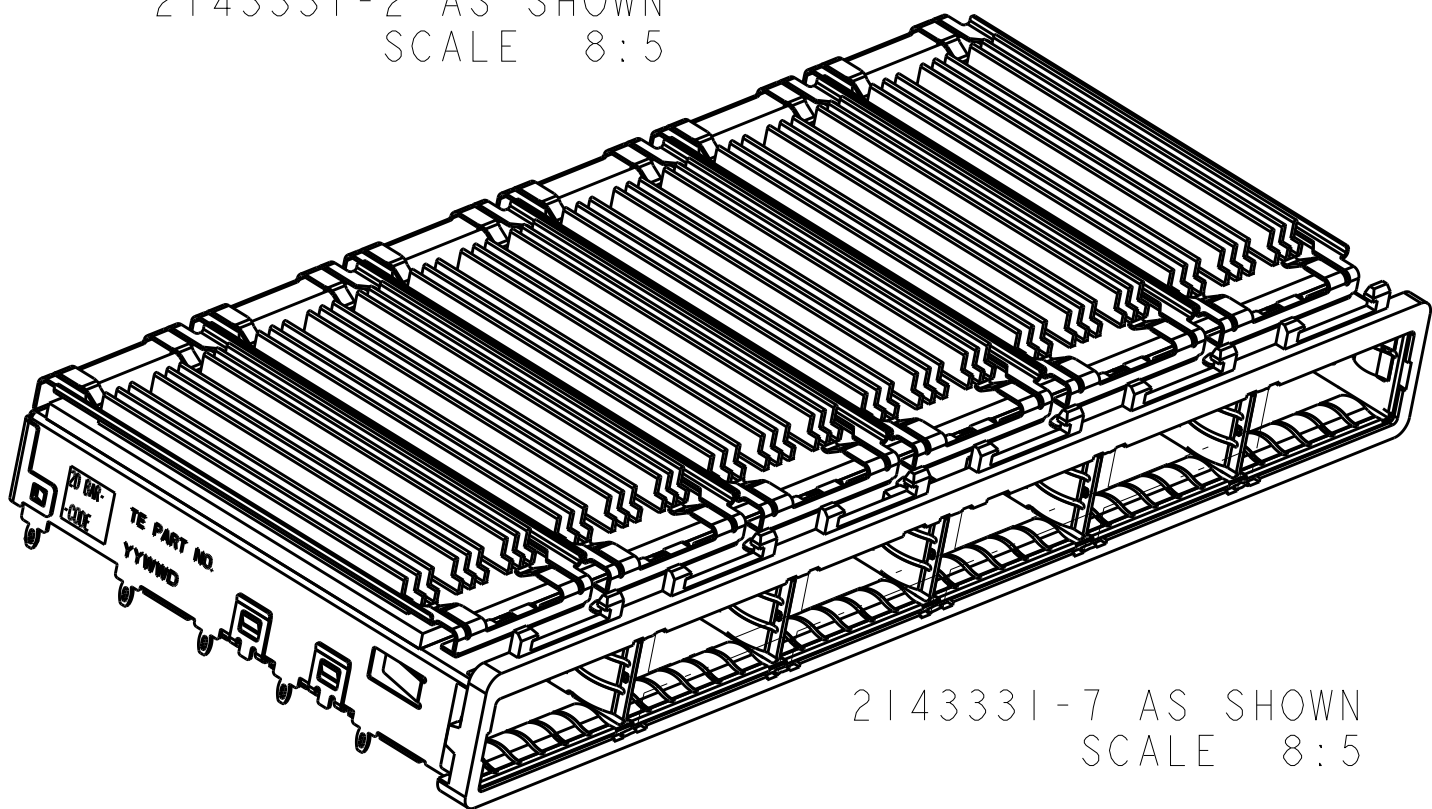
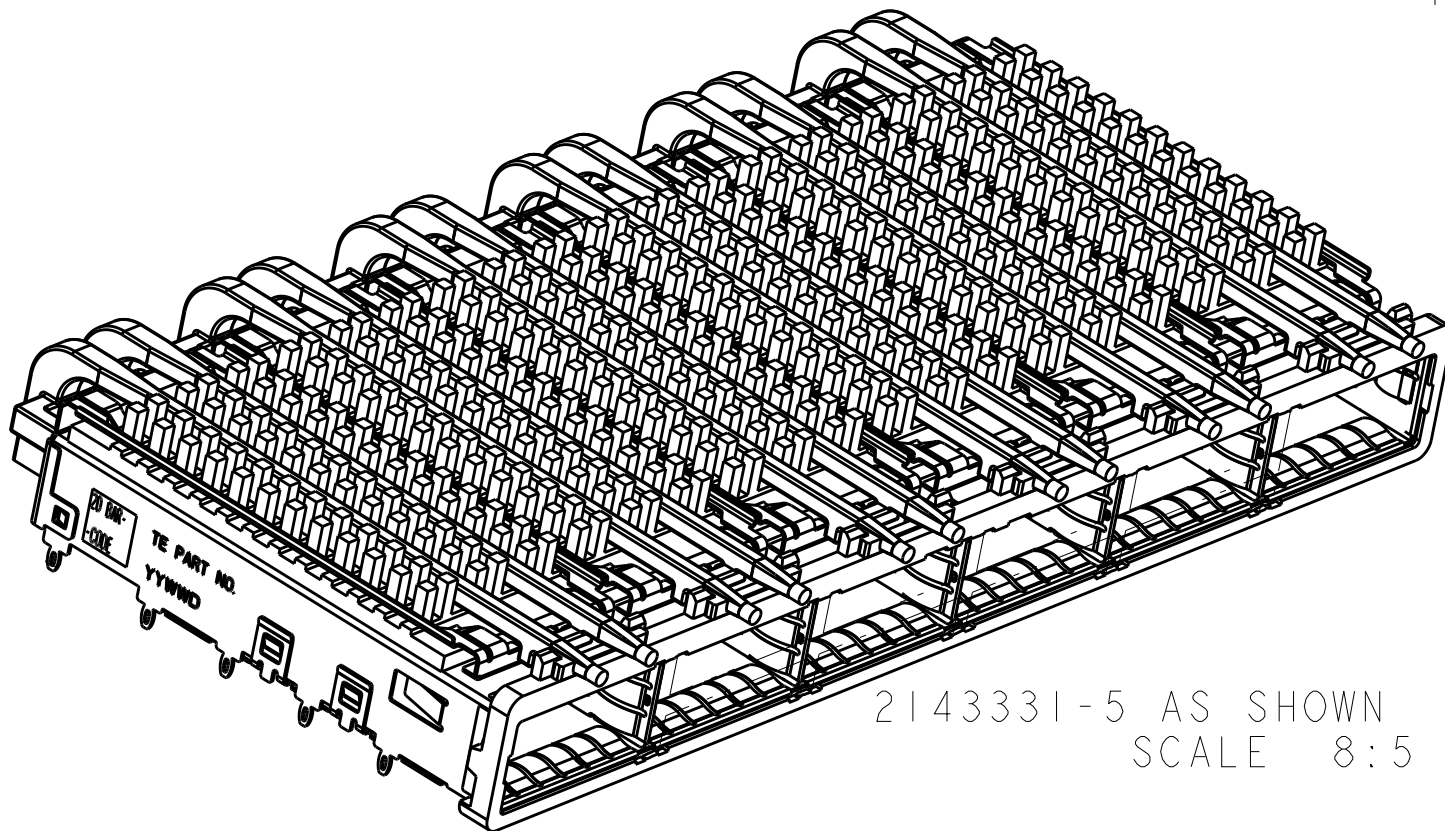
- 1 CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM/NICKLE PLATING
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
EMI SPRING MATERIAL: COPPER ALLOY
FRONT FLANGE MATERIAL: ZINC ALLOY
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
- 2 PITCH BETWEEN PORTS OF ONE 1X6 CAGE ASSEMBLY.
- 3 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 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.
- 7 HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS 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.

- 15 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- 16 EMI SPRING FINISH: 2um MINIMUM TIN
FRONT FLANGE FINISH: 3um MINIMUM TIN OVER 1.27um MINIMUM NICKEL OVER 5.08um MINIMUM COPPER.
- 17 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.
- 18 ROUND LIGHT PIPES PLEASE SEE SHEET 4/6
- 19 HEAT SINK FINISH: BLACK ANODIZED

11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- 13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 14 2D BARCODE AND DATE CODE (YYWW) MARKED ON SIDE OF CAGE ASSEMBLY.



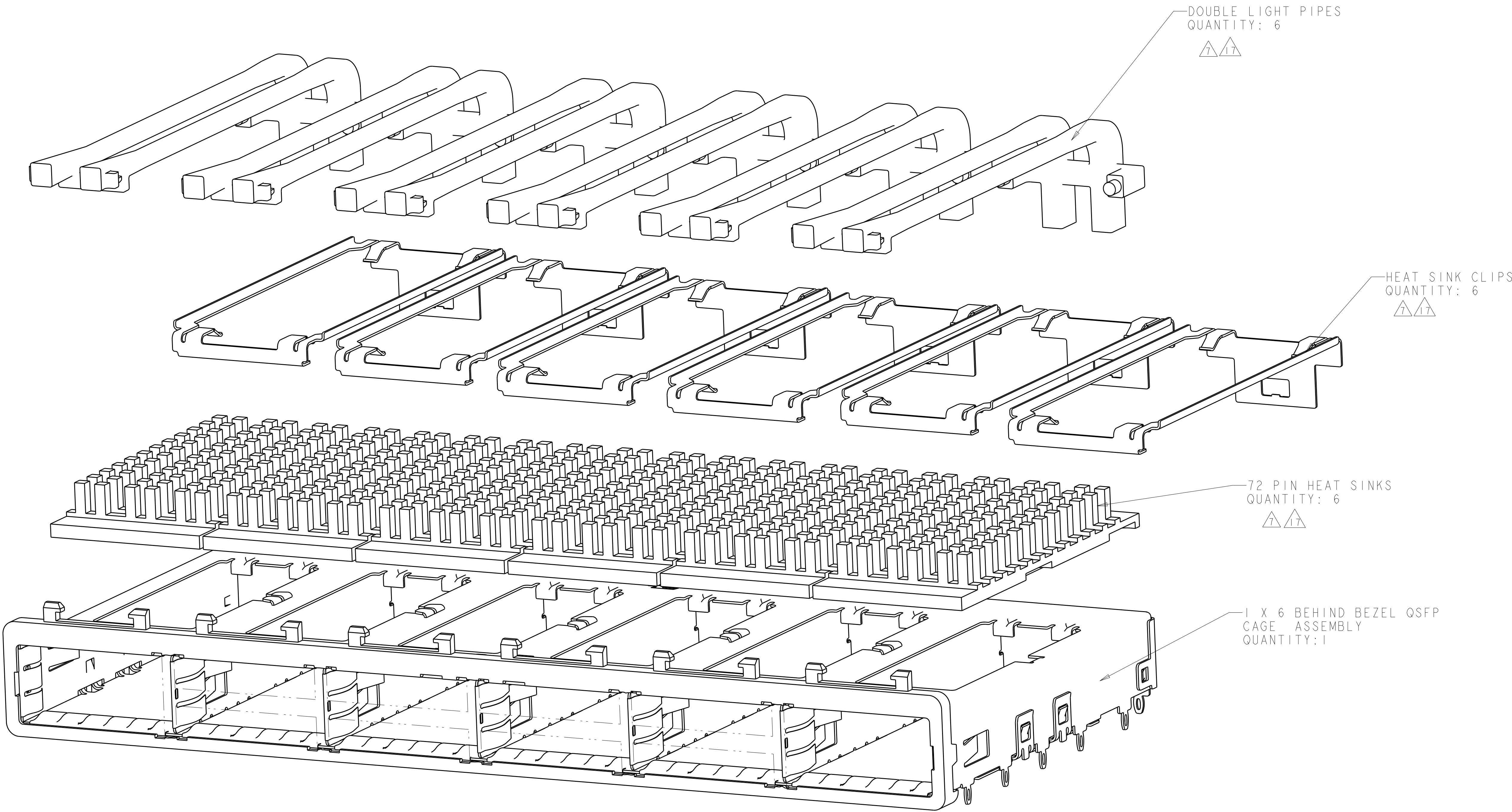
EMI SPRINGS

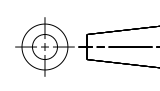


19	18	ROUND LIGHT PIPE	2.00	21.0	FIN TYPE	2143331-8
	19	N/A	N/A	15.0	FIN TYPE	2143331-7
	18	ROUND LIGHT PIPES	1.66	23.0	NETWORKING	2143331-6
				16.0	SAN	2143331-5
				13.7	PCI	2143331-4
	17	SQUARE LIGHT PIPES	1.66	23.0	NETWORKING	2143331-3
				16.0	SAN	2143331-2
				13.7	PCI	2143331-1
		LIGHT PIPE TYPE	A	B	HEAT SINK PROFILE	PART NUMBER

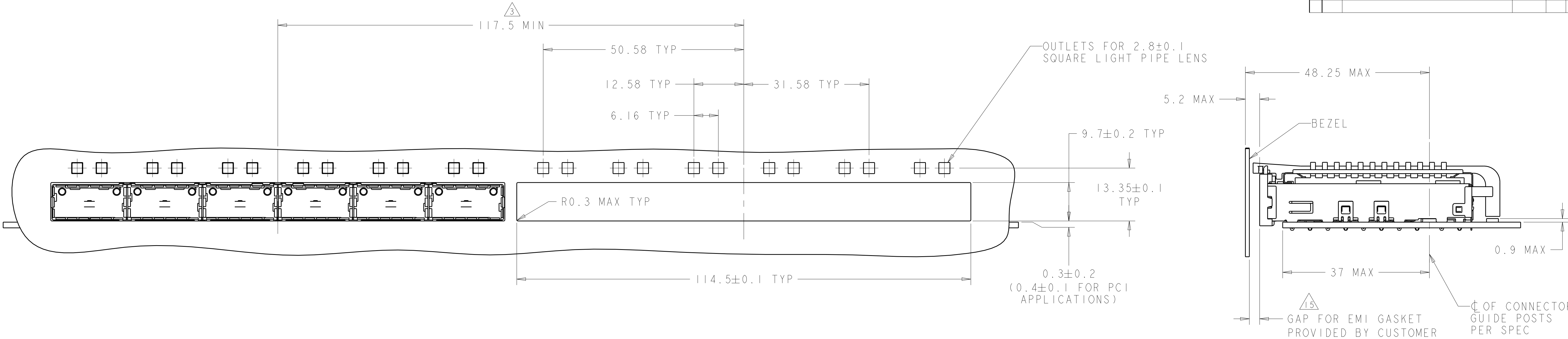
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 18MAR2010	TE Connectivity			
DIMENSIONS:		CHK J. PETERSON 18MAR2010				
mm		APVD J. PETERSON 18MAR2010	NAME 1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQR LIGHT PIPES AND HEAT SINKS, QSFP			
		PRODUCT SPEC 108-2286				
		APPLICATION SPEC 114-13218				
MATERIAL		WEIGHT	SIZE A100779			
		FINISH	CAGE CODE C=2143331			
			RESTRICTED TO			
			Customer Drawing			
			SCALE 3:1 SHEET 1 OF 6 REV B1			

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

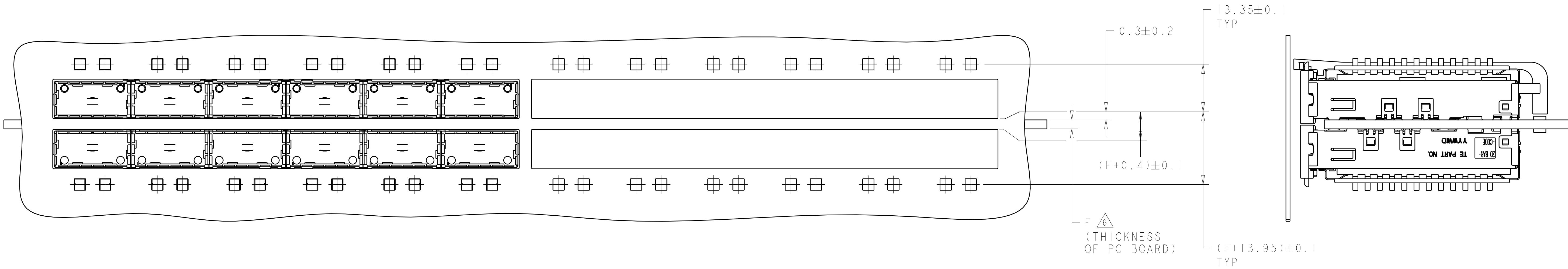


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	C. VALENTINE	18MAR2010	 TE Connectivity	
		CHK	J. PETERSON	18MAR2010		
DIMENSIONS:		APVD	J. PETERSON	18MAR2010	NAME	
mm		PRODUCT SPEC				
		108-2286			SIZE	
		APPLICATION SPEC				
		114-13218				
		WEIGHT				
MATERIAL		Customer Drawing			SCALE	
					4:1	
					SHEET	
					2	
					OF	
					6	
					REV	
					B1	

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



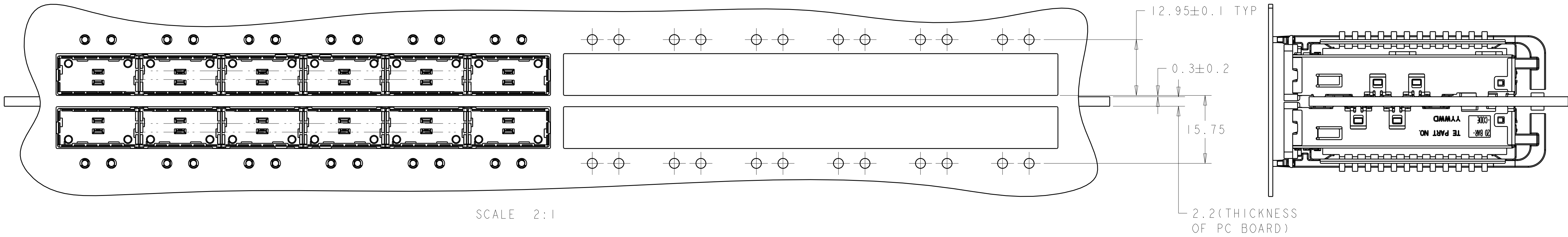
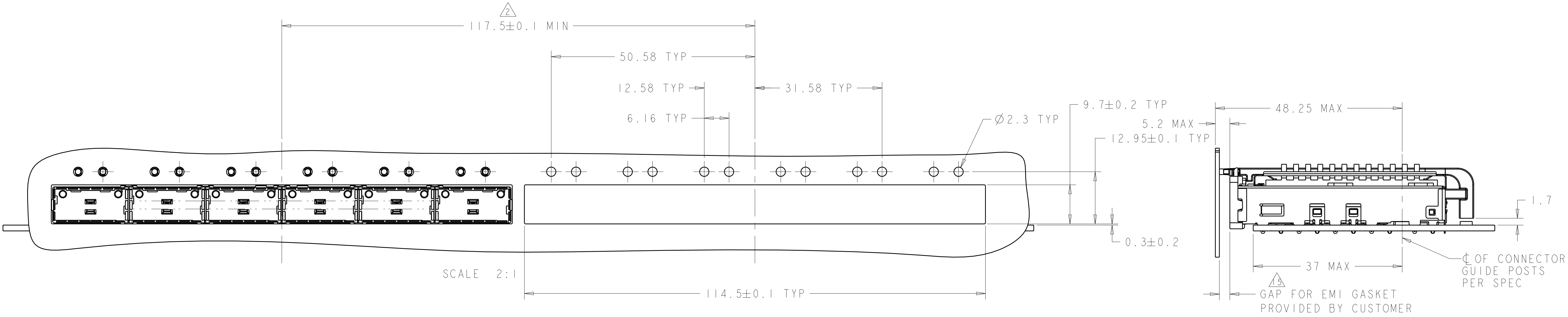
ONE SIDED CONFIGURATION
WITH SQUARE LIGHT PIPES
SCALE 2:1



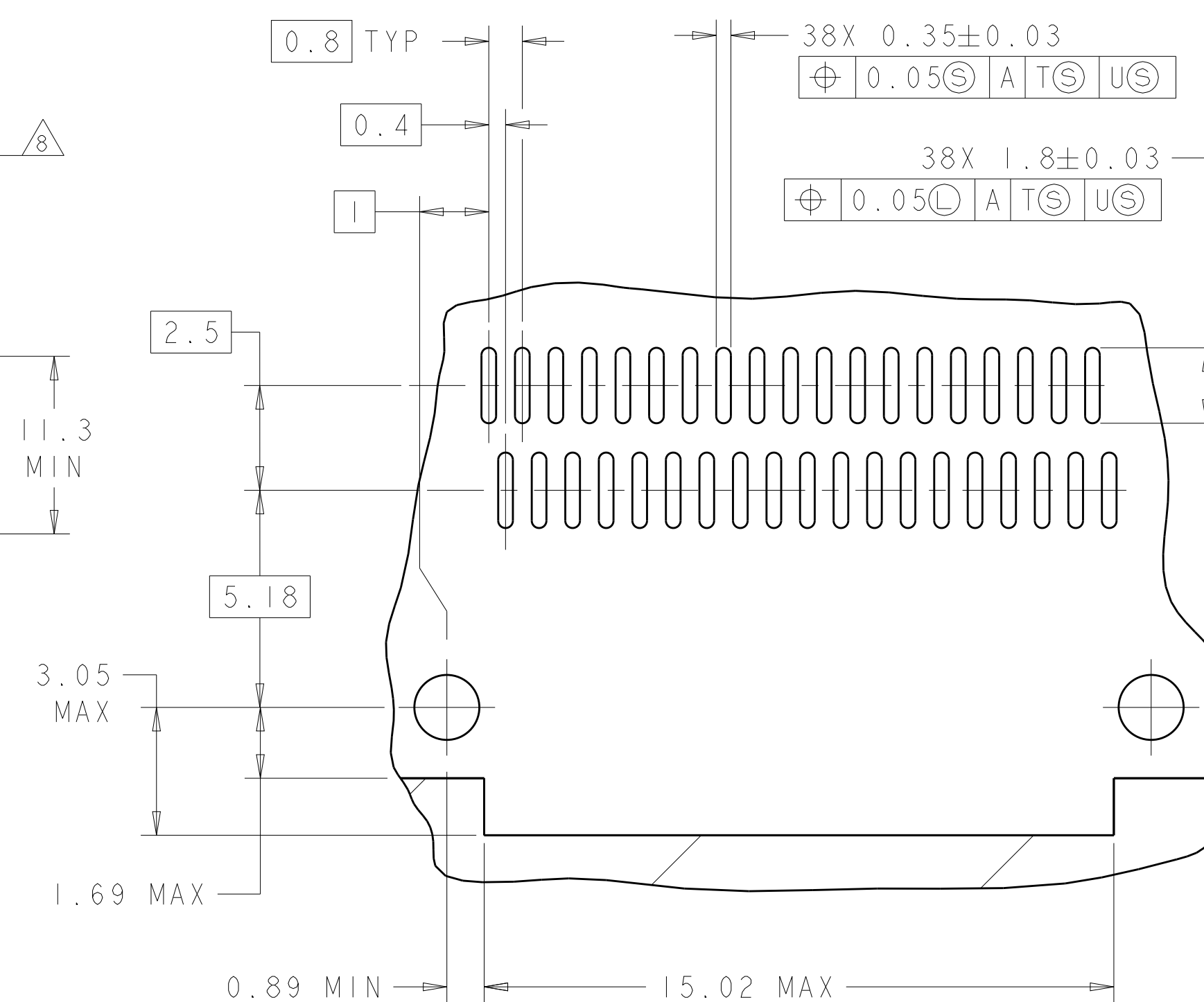
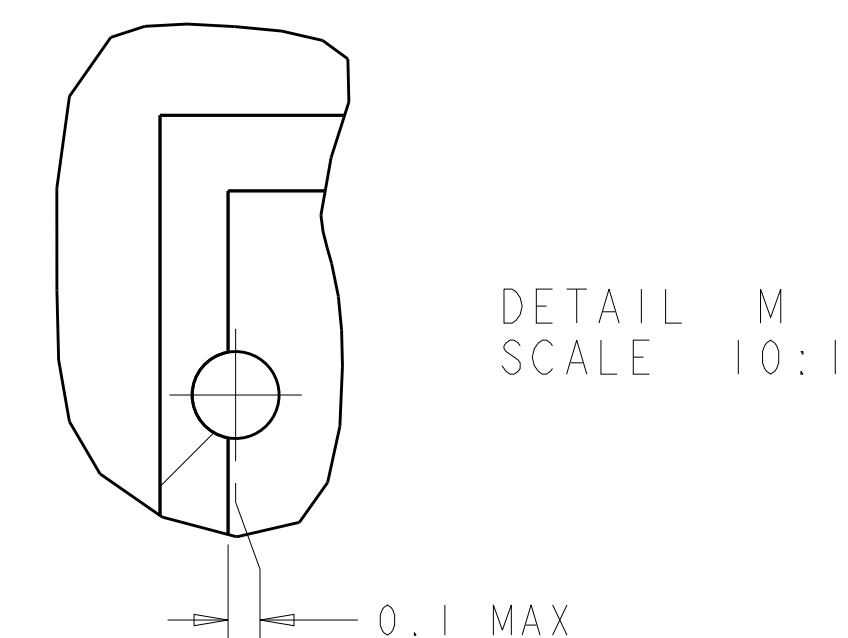
BELLY TO BELLY CONFIGURATION
WITH SQUARE LIGHT PIPES
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 18MAR2010	 TE Connectivity		NAME 1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQR LIGHT PIPES AND HEAT SINKS, QSFP
DIMENSIONS:		CHK J. PETERSON 18MAR2010			
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD J. PETERSON 18MAR2010	PRODUCT SPEC		
	0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ± ANGLES ± FINISH ±	108-2286	APPLICATION SPEC		
MATERIAL	-	114-13218	WEIGHT		
-	-	-	SIZE CAGE CODE DRAWING NO		
-	-	-	A100779C=2143331		
-	-	-	RESTRICTED TO		
-	-	-	Customer Drawing		
			SCALE 4:1	SHEET 3 OF 6	REV B1

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

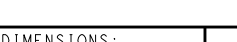


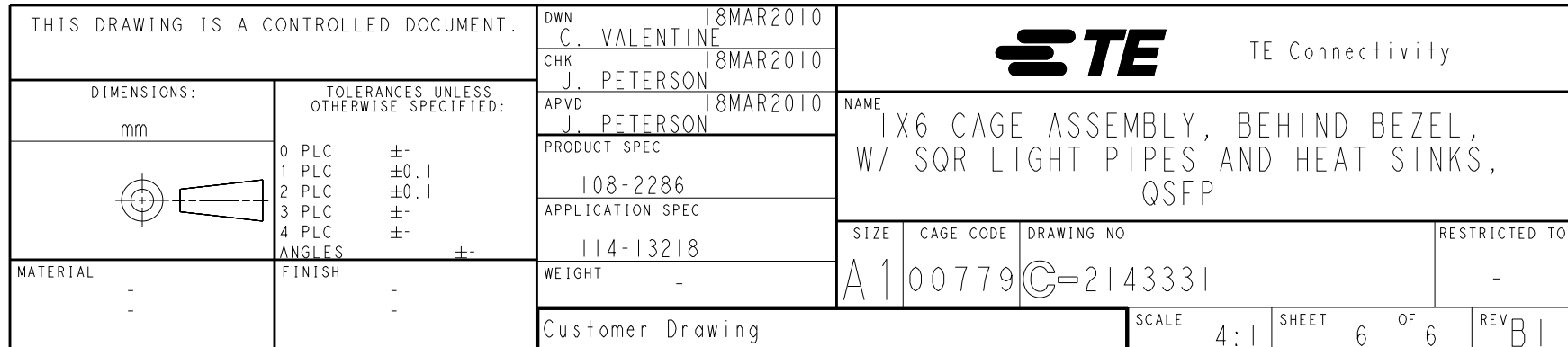
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 18MAR2010	TE Connectivity	
DIMENSIONS:		CHK J. PETERSON 18MAR2010		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD J. PETERSON 18MAR2010	NAME 1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SOR LIGHT PIPES AND HEAT SINKS, QSFP	
	0 PLC ±	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO	
	1 PLC ±0.1	108-2286	A100779C=2143331	
	2 PLC ±0.1	APPLICATION SPEC	RESTRICTED TO	
	3 PLC ±	114-13218	Customer Drawing	
	4 PLC ±	WEIGHT	SCALE 3:1 SHEET 4 OF 6 REV B1	
MATERIAL	FINISH			



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 CHK PETERSON APVD 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/ SQR LIGHT PIPES AND HEAT SINKS, QSFP	
		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 B	RESTRICTED TO -



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