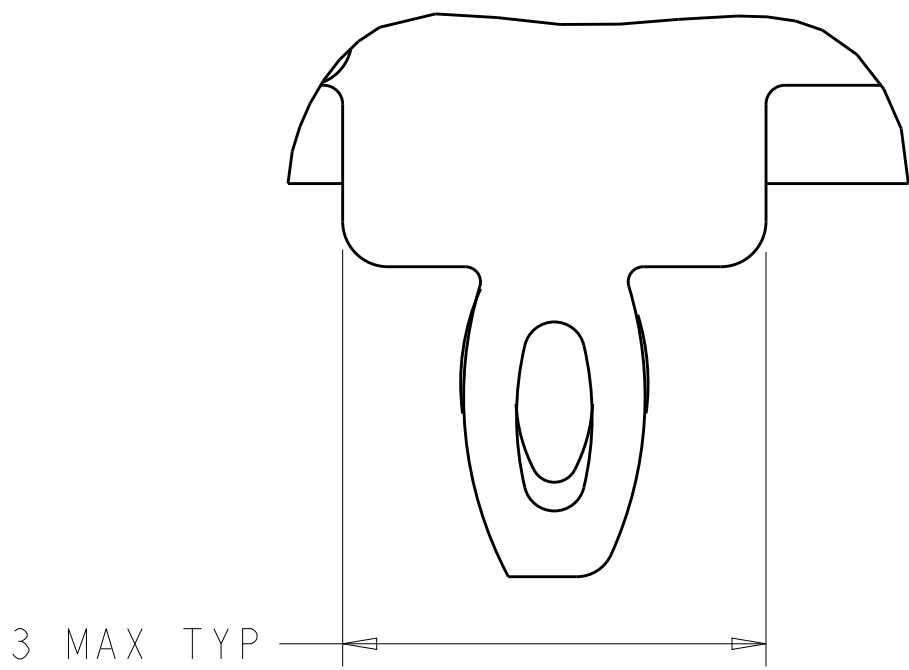


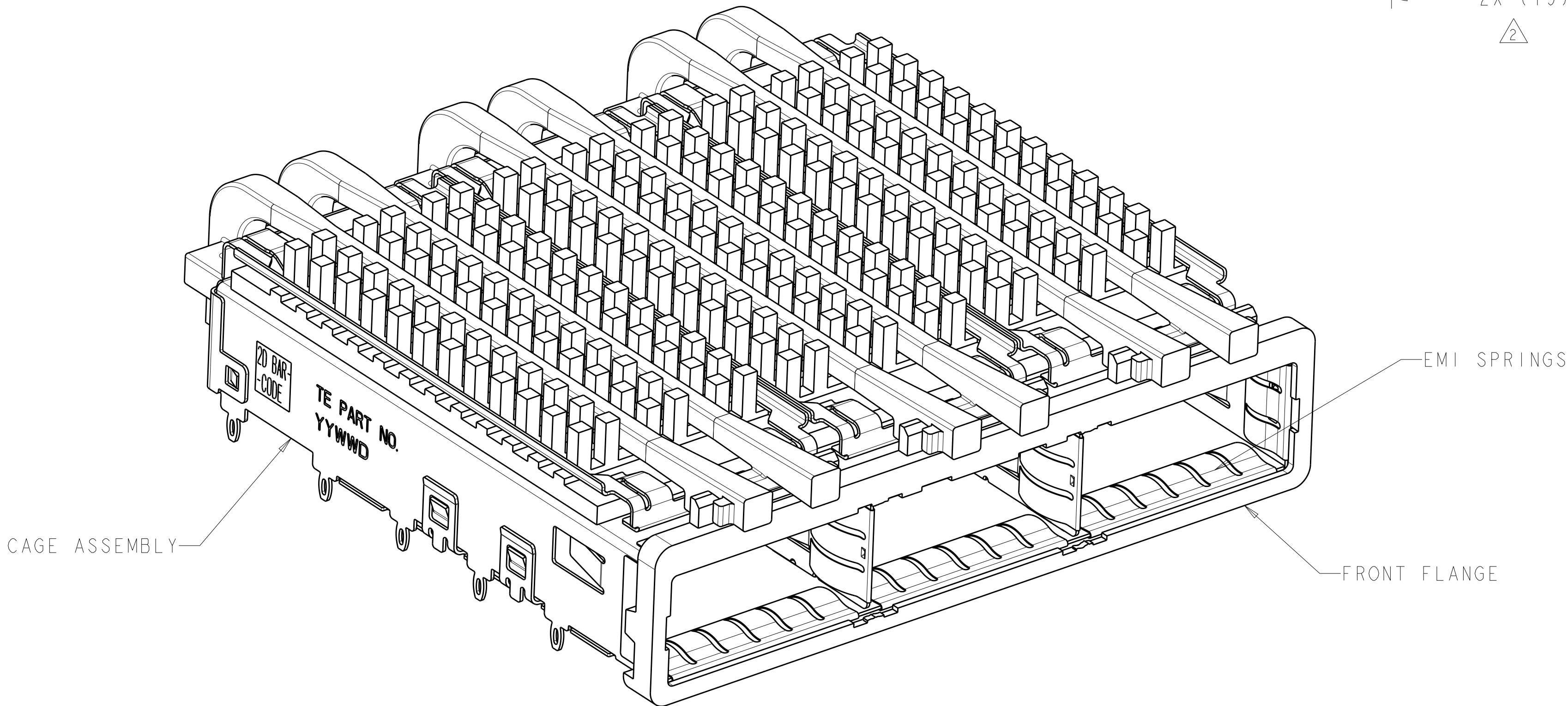
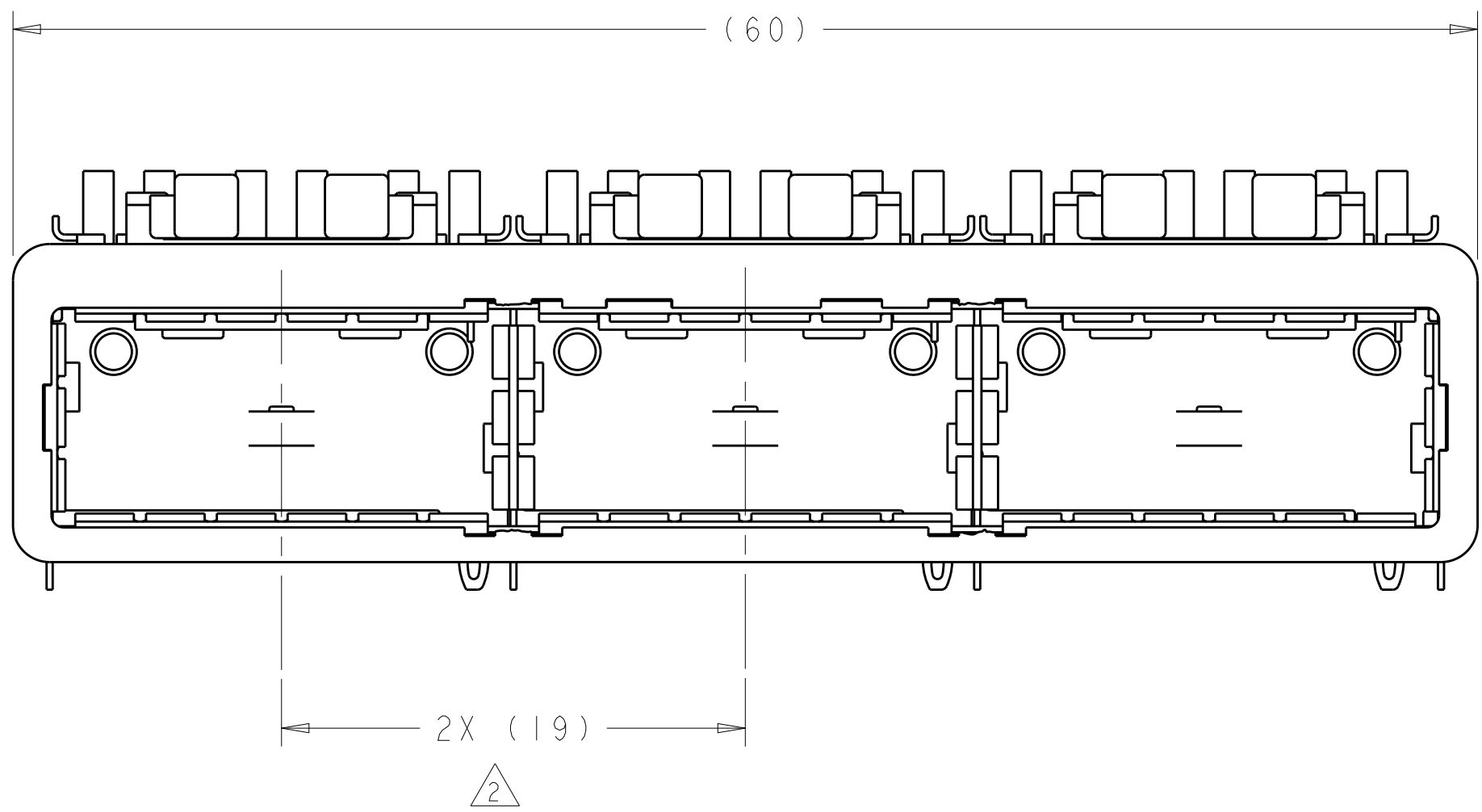
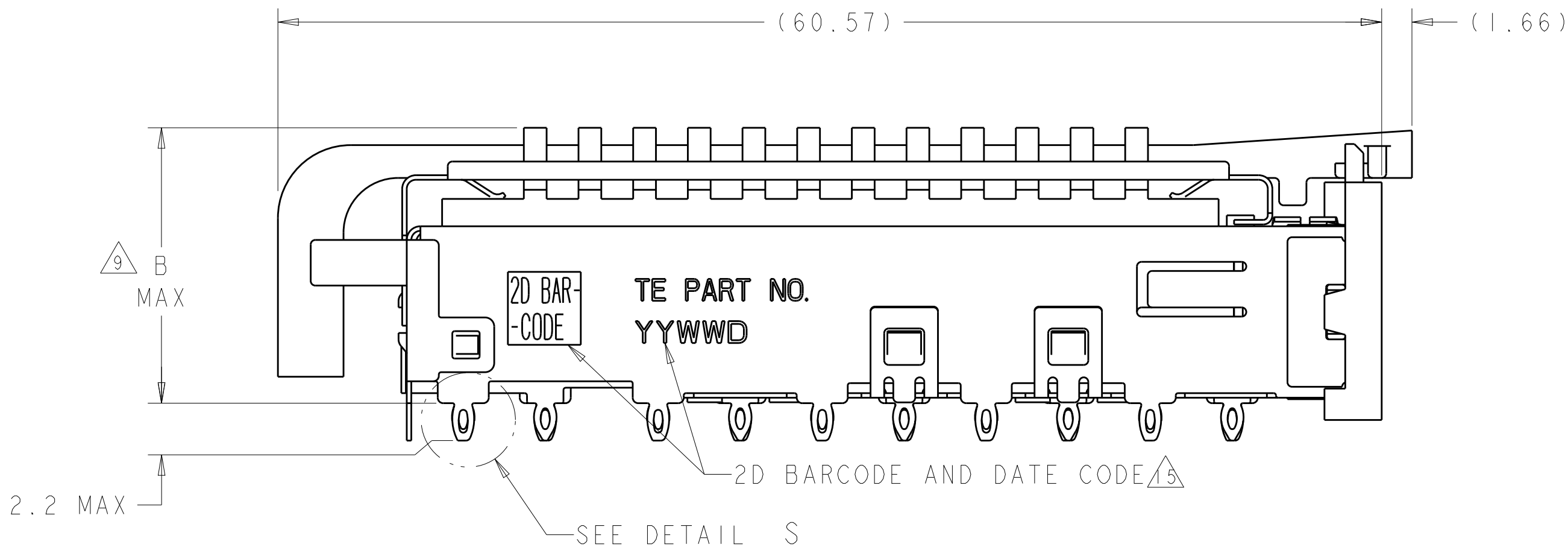
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		D	REVISED PER ECO-10-018054	04NOV2010	CJV	EJB
			E	REVISED PER ECO-12-005533	05APR2012	JY	AC
			F	REVISED PER ECO-14-016878	03DEC2014	RG	MC



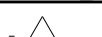
DETAIL S
SCALE 20:1

- 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.

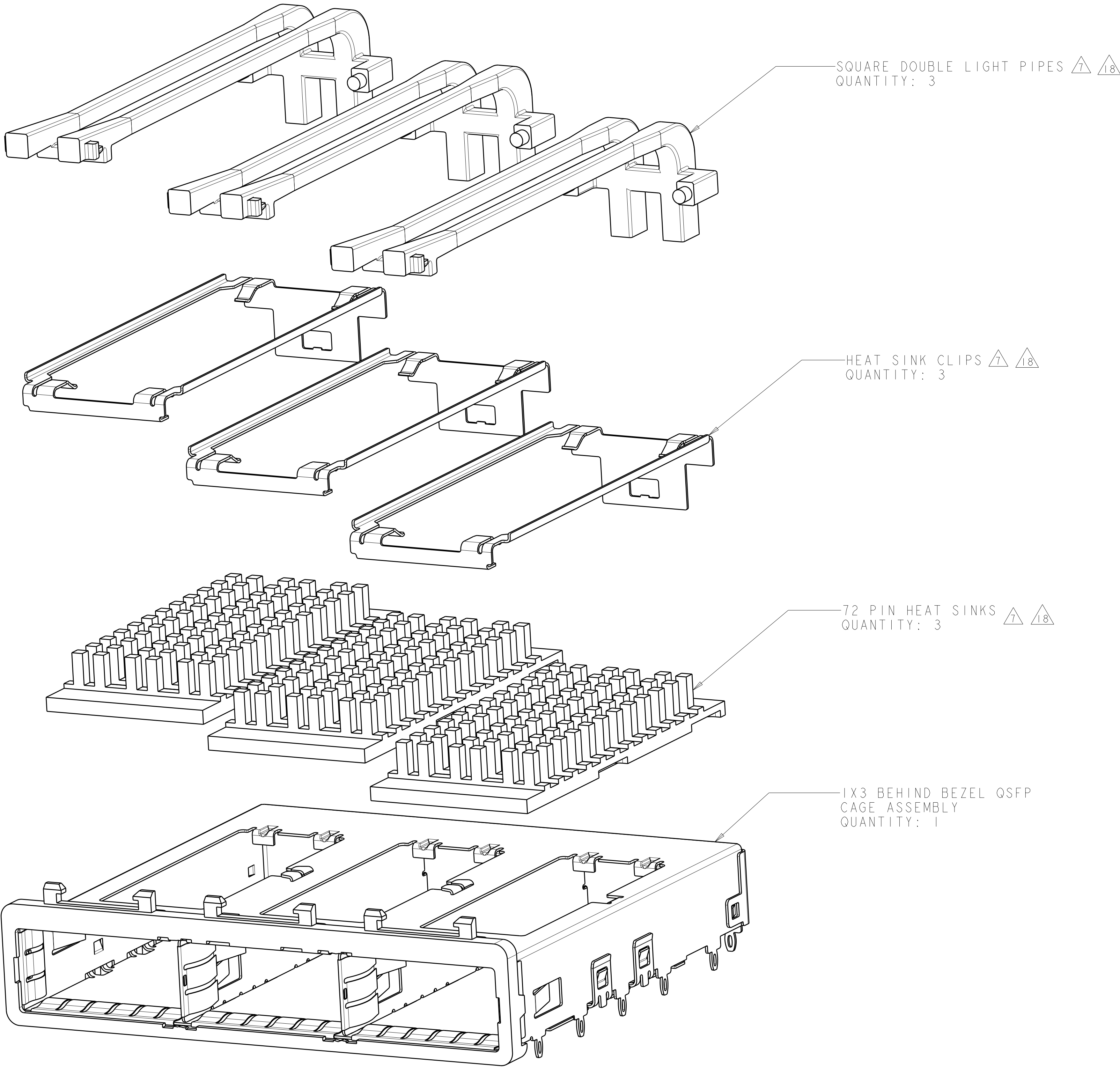
- 9 DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- 10 UNPLATED THRU HOLE.
- 11 MAXIMUM HEIGHT OF LED OFF BOARD: 0.9mm.
12. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- 13 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
- 14 BASELINE FOR 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

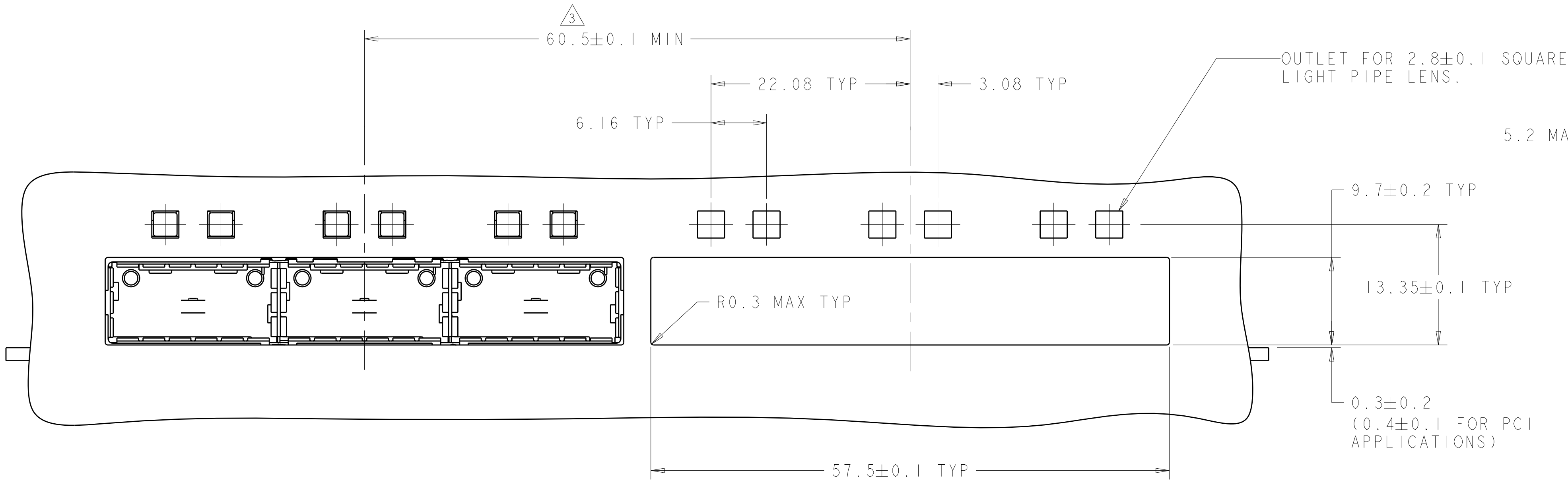
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE 28FEB2008	 TE Connectivity	
		CHK J. PETERSON 28FEB2008		
DIMENSIONS:		APVD J. PETERSON 28FEB2008	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC 108-2286	APPLICATION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

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

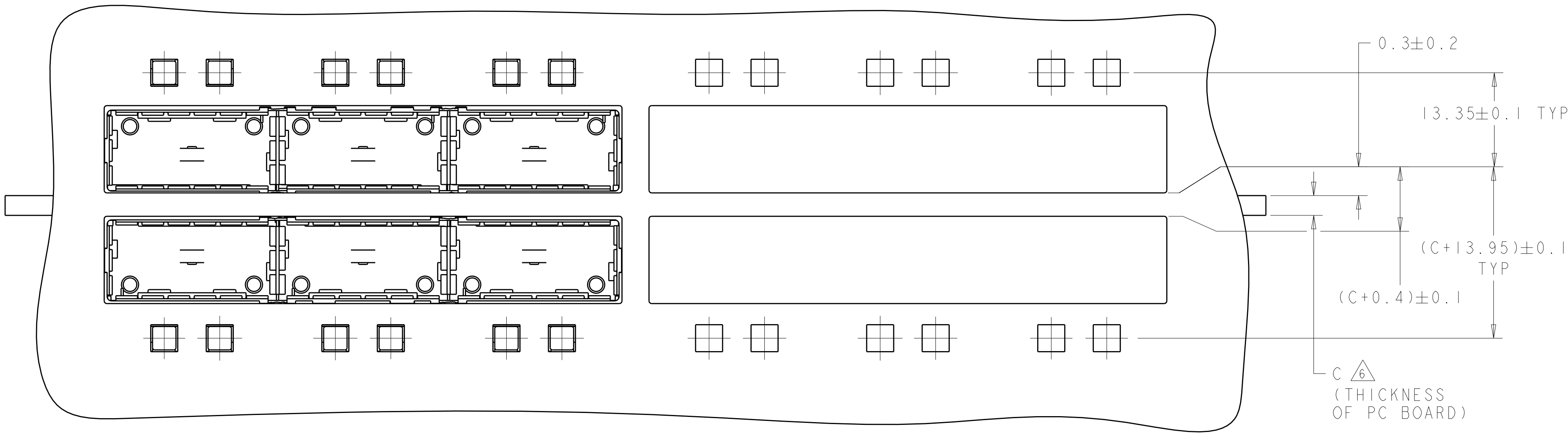


THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN	C. VALENTINE	28FEB2008	 TE Connectivity	
		CHK	J. PETERSON	28FEB2008		
		APVD	J. PETERSON	28FEB2008	NAME	
		PRODUCT SPEC			IX3 CAGE ASSEMBLY, BEHIND BEZEL,	
		APPLICATION SPEC			W/ SQUARE LIGHT PIPES AND HEAT SINKS	
		WEIGHT			RESTRICTED TO	
		CUSTOMER DRAWING			A100779C=2110412	
					SCALE 4:1 SHEET 2 OF 5 REV F	

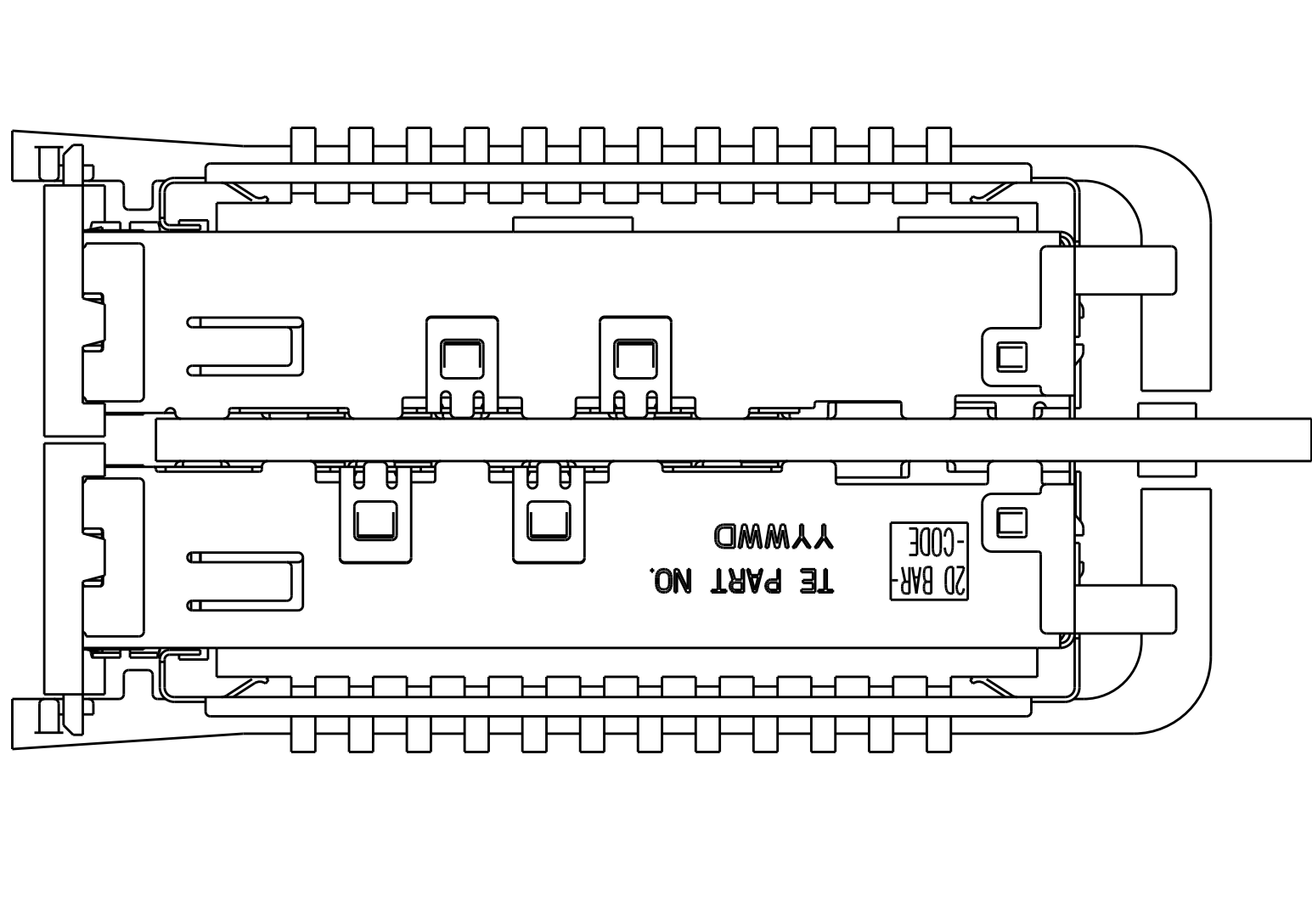
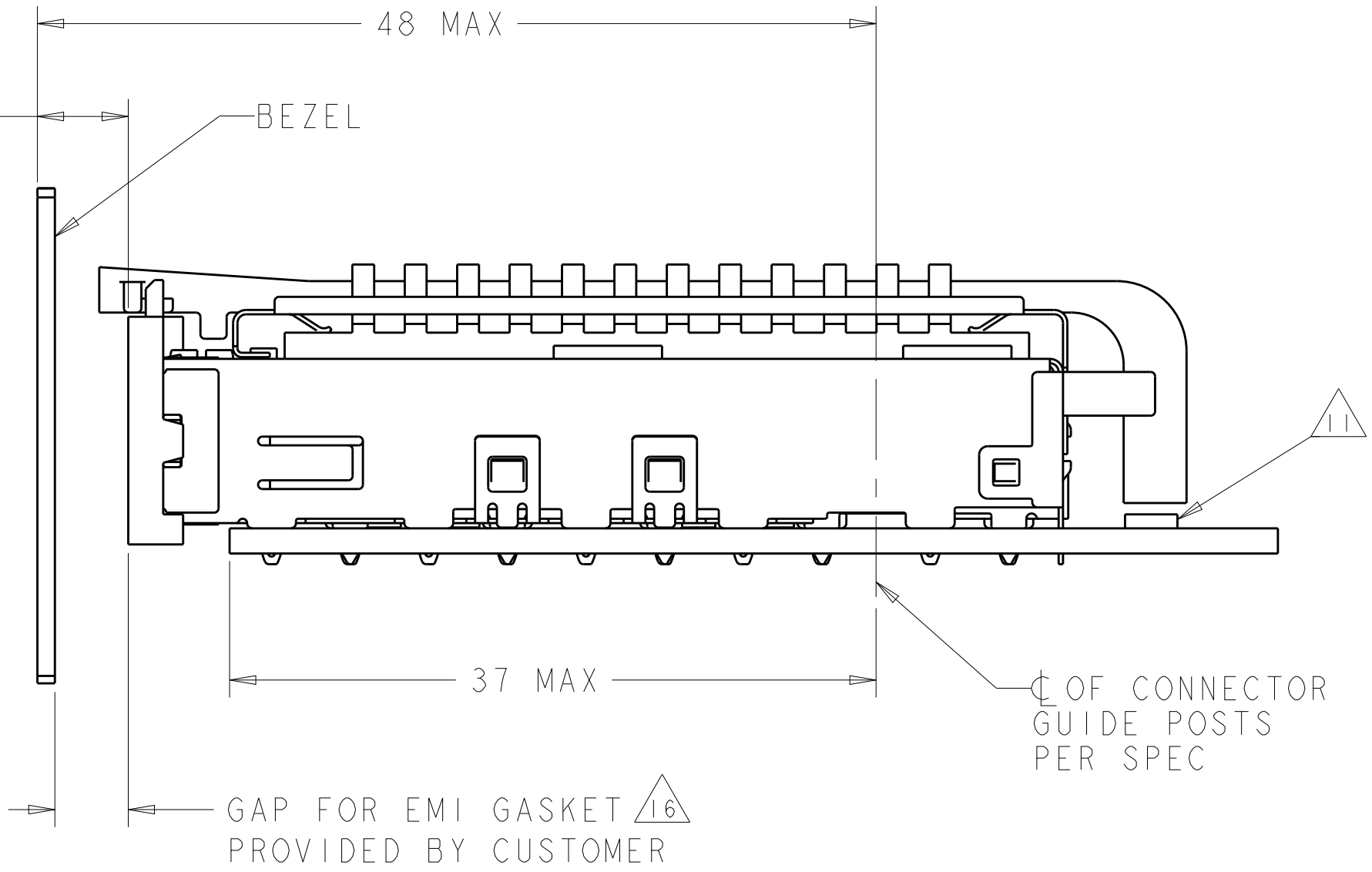
LOC		DIST		REVISIONS			
GP		00		P	LTR	DESCRIPTION	DATE
				-	-	SEE SHEET 1	-



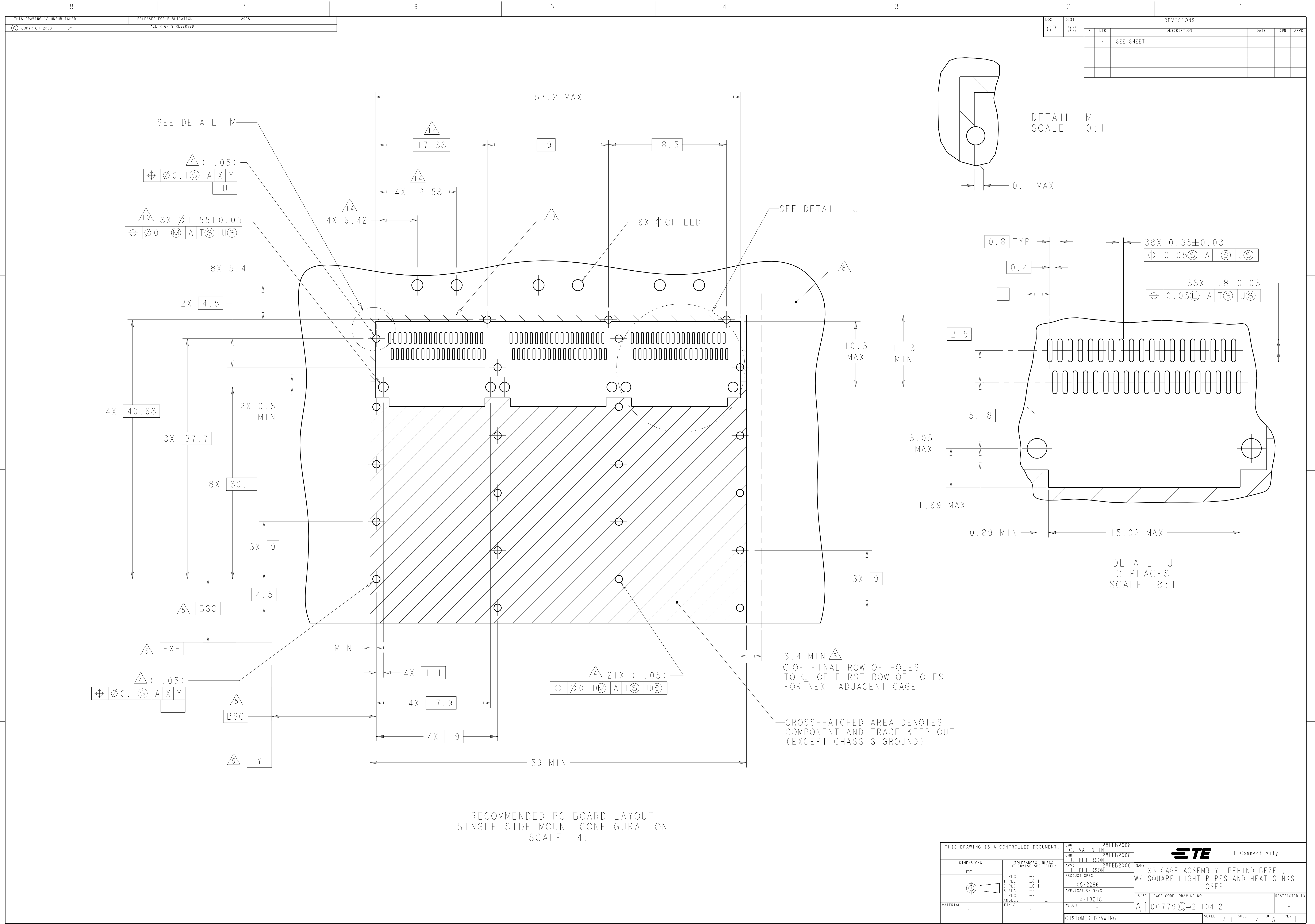
ONE SIDED CONFIGURATION
SCALE 3:1



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

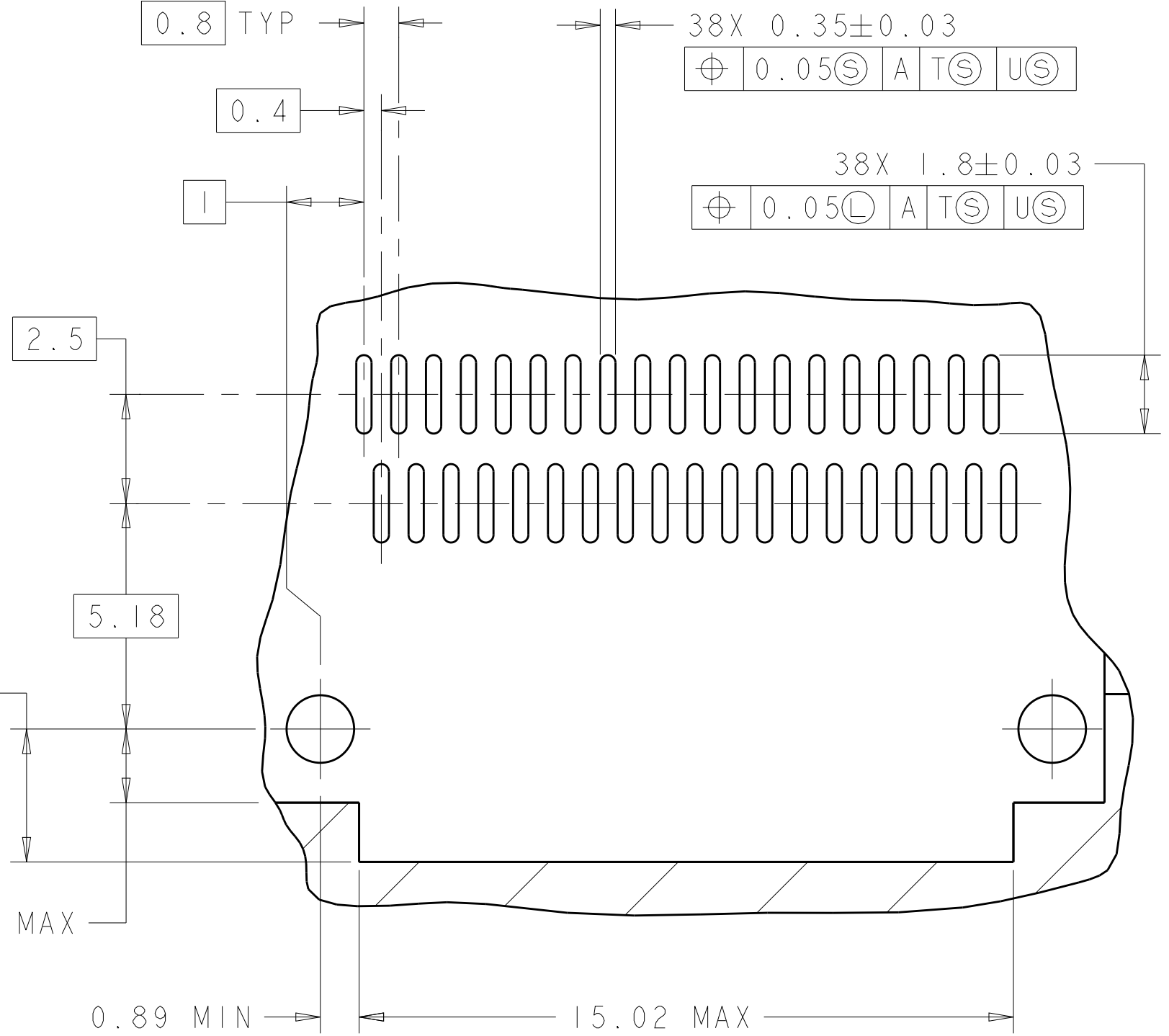


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE CHK J. PETERSON APVD J. PETERSON	28FEB2008 28FEB2008 28FEB2008	TE Connectivity	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm		0 PLC $\pm$.1 1 PLC ± 0.1 2 PLC ± 0.1 3 PLC $\pm$.1 4 PLC $\pm$.1 ANGLES $\pm$.1 FINISH		1X3 CAGE ASSEMBLY,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



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

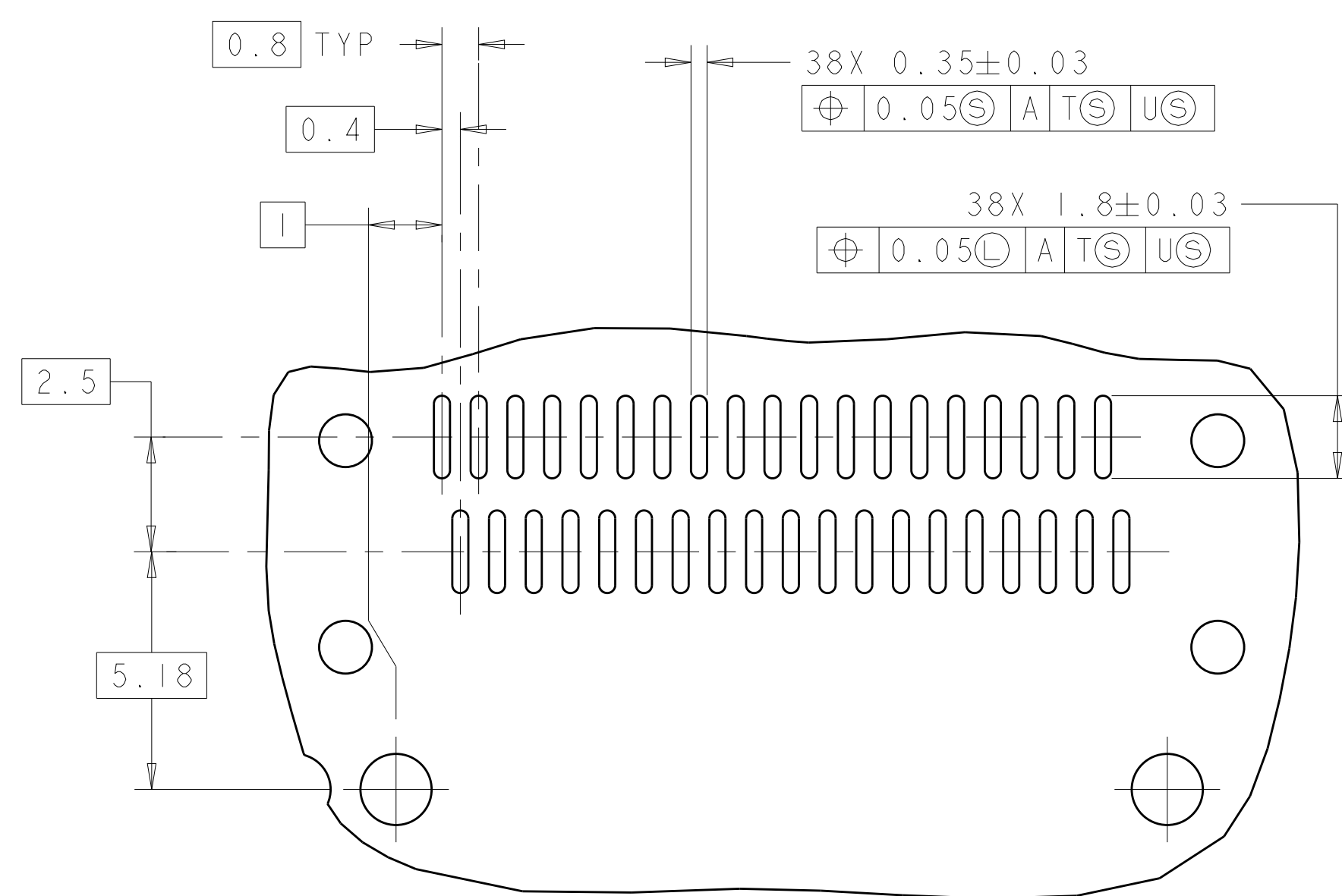
DETAIL M
SCALE 10:1



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:		CHK J. PETERSON 28FEB2008		
mm		APVD J. PETERSON 28FEB2008	NAME	
		PRODUCT SPEC	IX3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP	
		108-2286		
		APPLICATION SPEC		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		114-13218	SIZE CAGE CODE DRAWING NO	
0 PLC ± 1 PLC ±0.1 2 PLC ±0.1 3 PLC ± 4 PLC ±			A100779C=2110412	
ANGLES ±			RESTRICTED TO	
FINISH		WEIGHT		
MATERIAL		CUSTOMER DRAWING	SCALE 4:1 SHEET 4 OF 5 REV F	



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT AND TRACE KEEP-OUTS
SCALE 4:1

4805 (3/11)