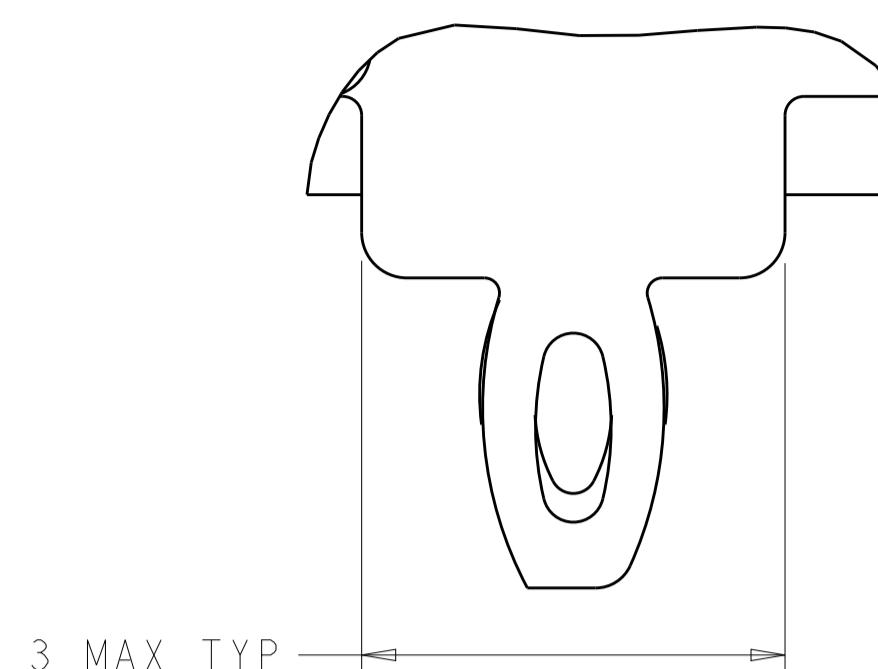


LOC	DIST	REVISIONS						
		GP	00	P LTR	DESCRIPTION	DATE	DNW	APV0
				D	REVISED PER ECO-10-018054	04NOV2010	CJV	EJB
				E	REVISED PER ECO-12-005533	05APR2012	JY	AC
				F	REVISED PER ECO-14-016878	03DEC2014	RG	MC



DETAIL S ¹³
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 IX3 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 STANOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

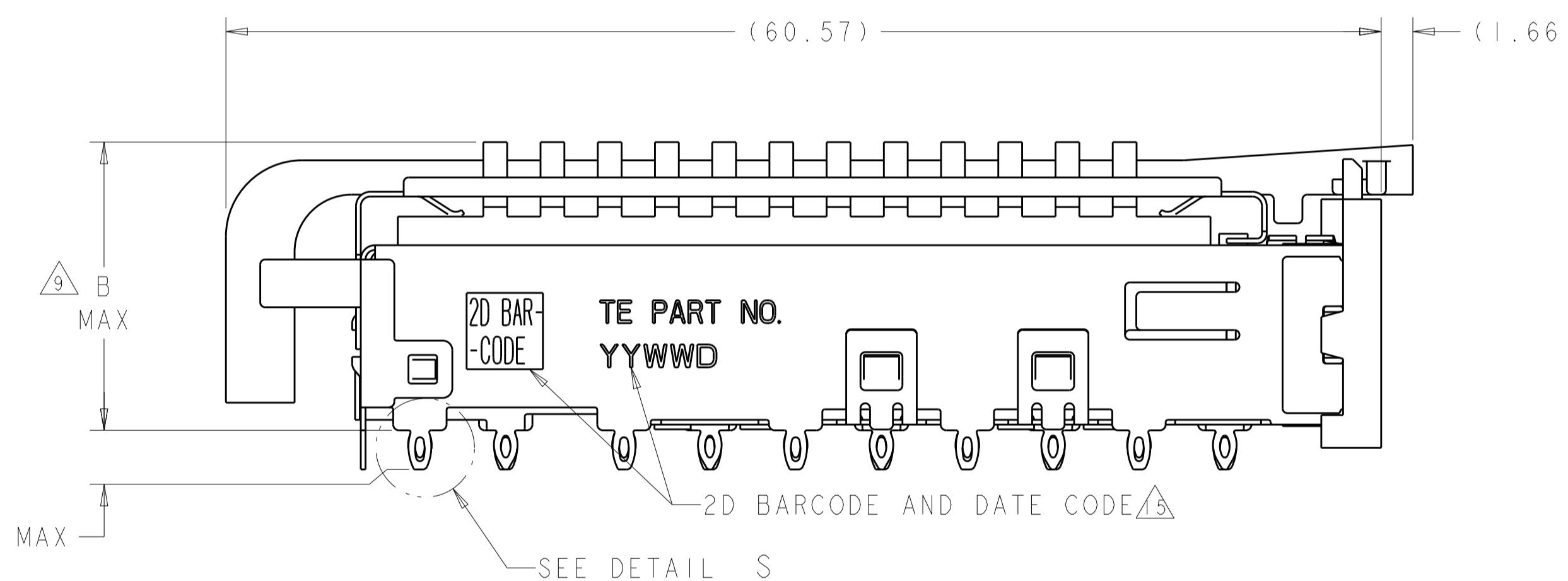
14 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.

15 2D BARCODE AND DATE CODE (YYWW) MARKED ON SIDE OF CAGE.

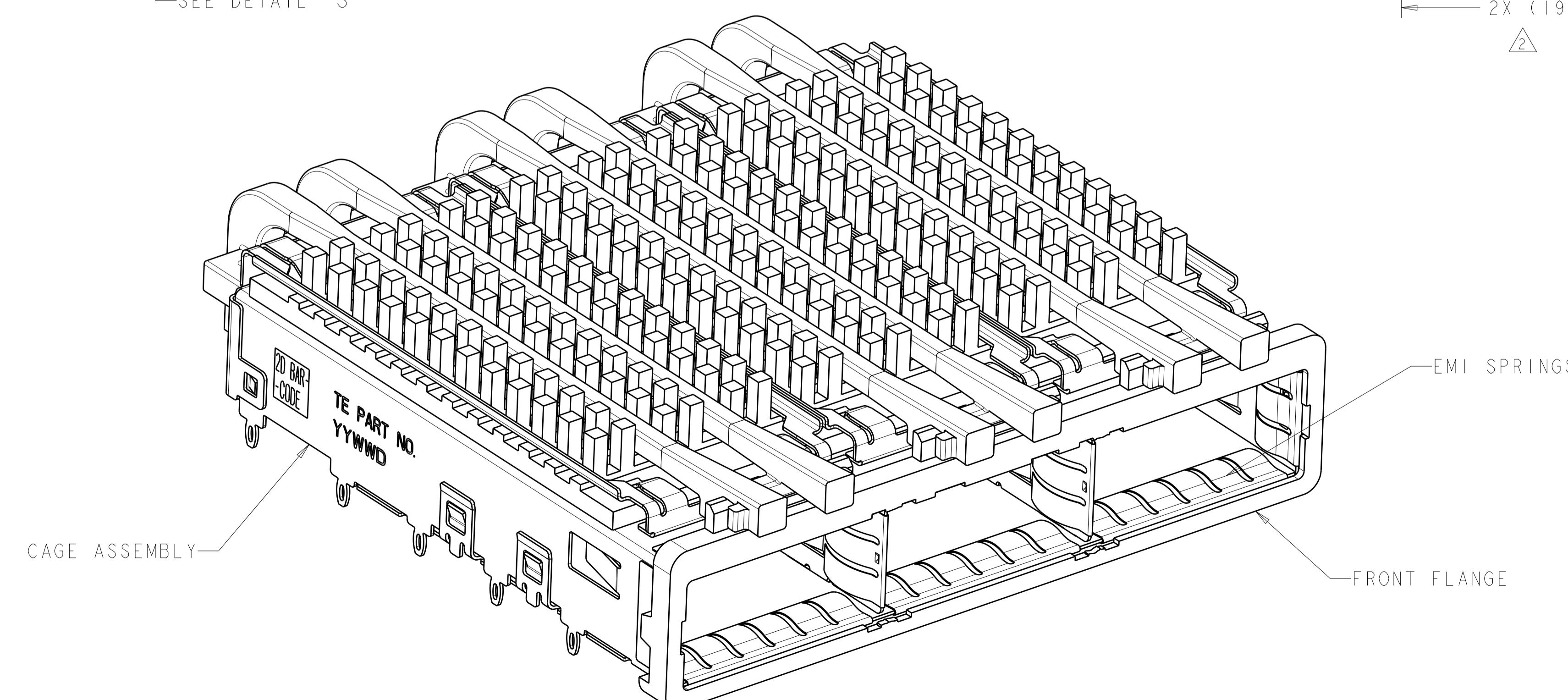
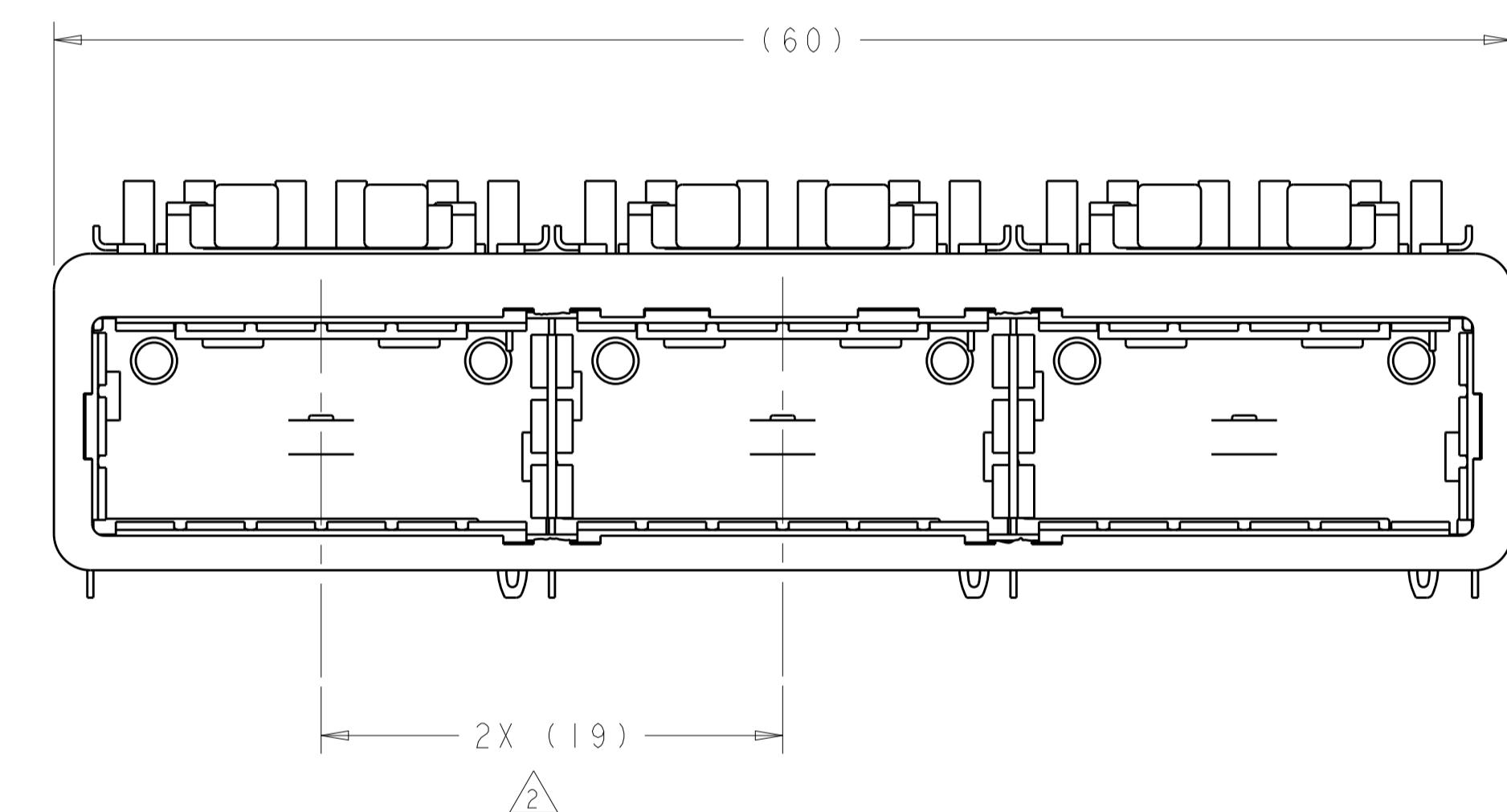
16 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.

17 FINISH:
EMI SPRING: 2 μ m MINIMUM TIN
FRONT FLANGE: 3 μ m MINIMUM TIN OVER 1.27 μ m MINIMUM NICKEL OVER 5.08 μ m 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.

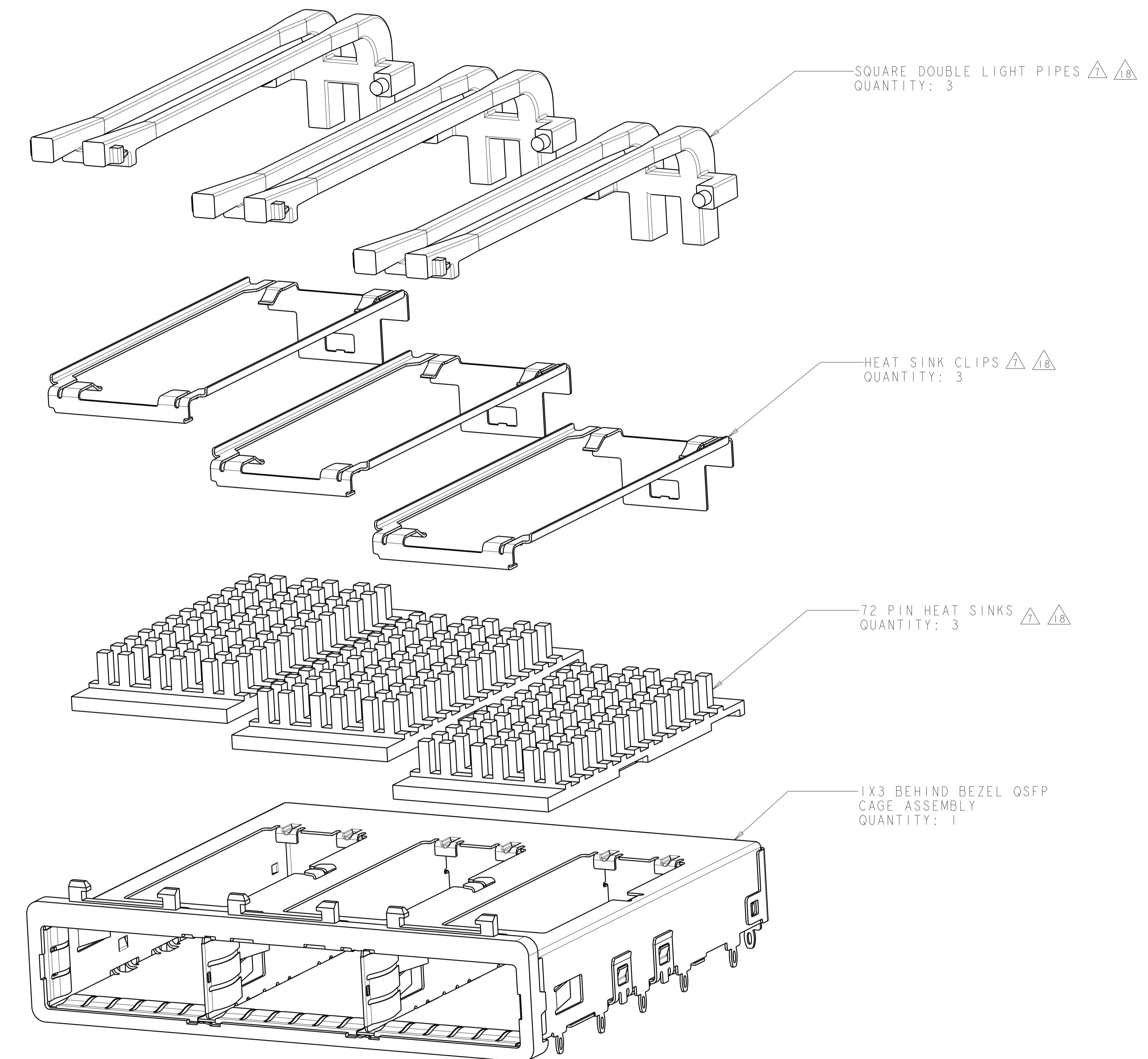


SEE DETAIL S



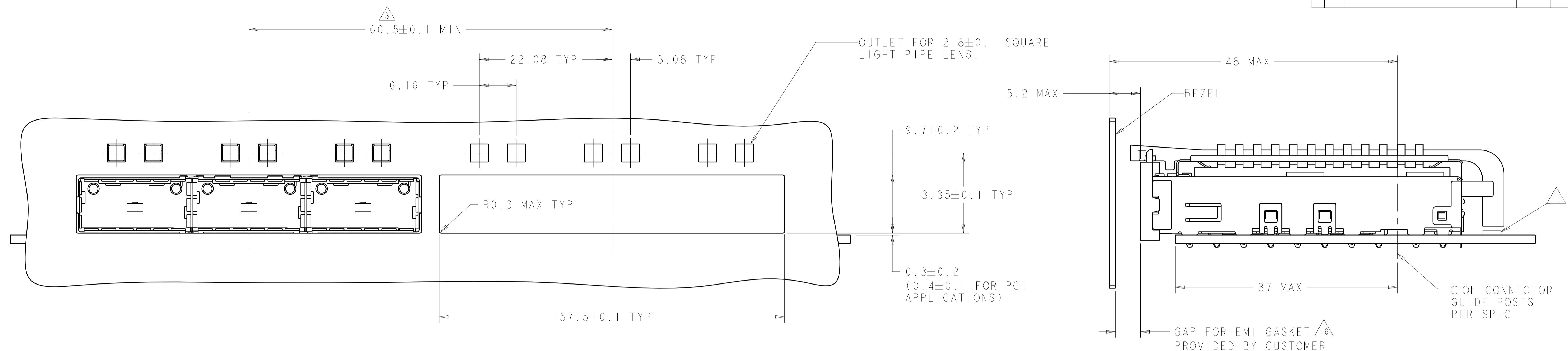
THIS DRAWING IS A CONTROLLED DOCUMENT.		28FEB2008	28FEB2008
		C. VALENTINE	J. PETERSON
		APV0	APV0
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
mm		0 PLC	\pm 0.1
		1 PLC	\pm 0.1
		2 PLC	\pm 0.1
		3 PLC	\pm 0.1
		4 PLC	\pm 0.1
MATERIAL		ANGLES:	
		\pm 10°	
FINISH			
PRODUCT SPEC		NAME	
108-2286		IX3 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP	
APPLICATION SPEC			
114-13218			
WEIGHT			
A100779		CUSTOMER DRAWING	
C=2110412			
		SCALE 4:1	
		SHEET 1 OF 5	
		REV F	

LOC	DIST	REVISIONS						
		GP	00	P LTR	DESCRIPTION	DATE	DNW	APV0
				-	SEE SHEET 1	-	-	-

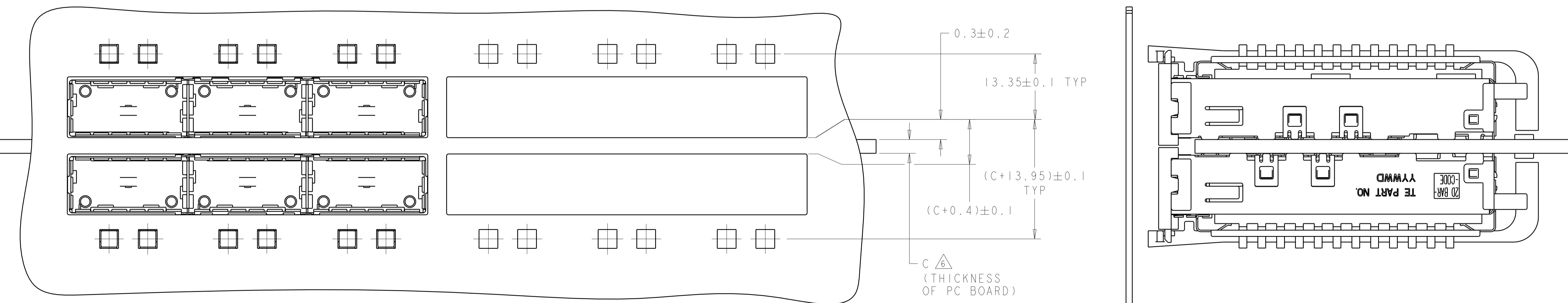


THIS DRAWING IS A CONTROLLED DOCUMENT.		28FEB2008	TE Connectivity
		CHG: 28FEB2008	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME: IX3 CAGE ASSEMBLY, BEHIND BEZEL, N/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
		0 PLC \pm . 1 PLC \pm . 3 PLC \pm . 4 PLC \pm .	CHG: 28FEB2008
MATERIAL:		FINISH:	PRODUCT SPEC: 108-2286
			APPLICATION SPEC: 114-13218
			WEIGHT: -
			SIZE: CAGE CODE: DRAWING NO: A100779C=2110412
			RESTRICTED TO: -
			CUSTOMER DRAWING
			SCALE: 4:1 SHEET: 2 OF 5 REV: F

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



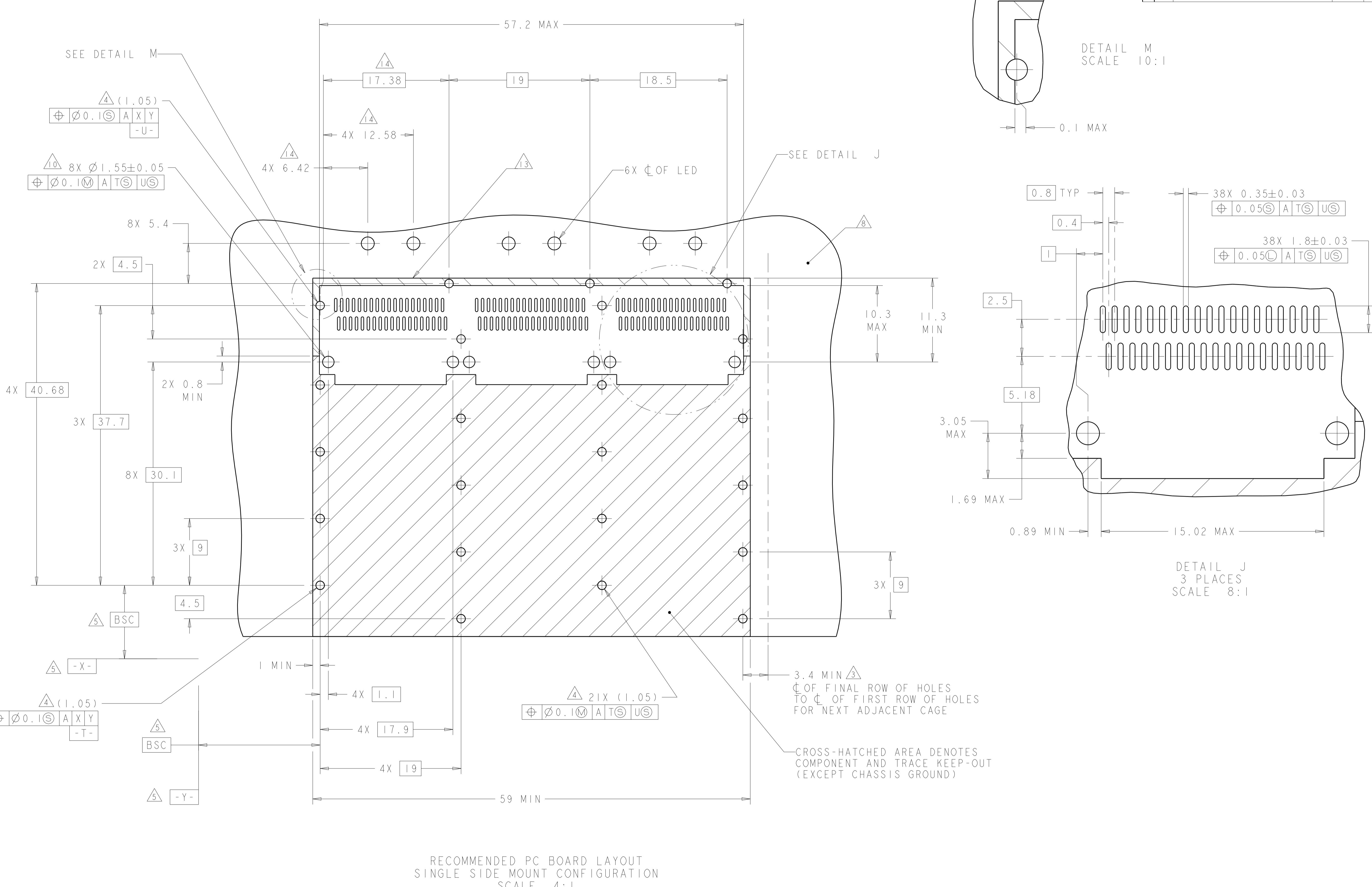
ONE SIDED CONFIGURATION
SCALE 3:1



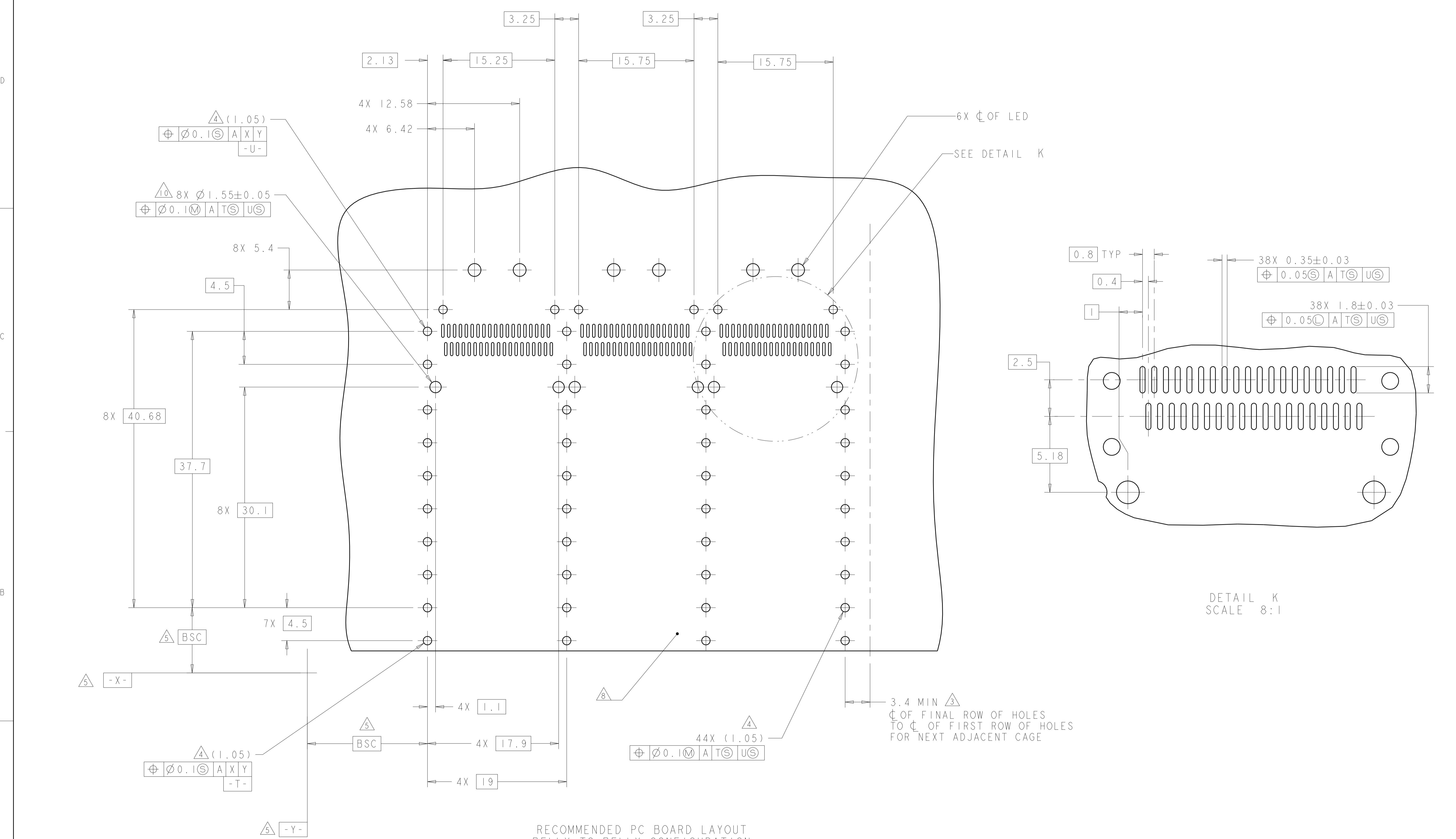
BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED
EXCEPT WHERE NOTED
SCALE 3:1

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

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



THIS DRAWING IS A CONTROLLED DOCUMENT.		28FEB2008	28FEB2008	TE Connectivity
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME: IX3 CAGE ASSEMBLY, BEHIND BEZEL, N/ SQUARE LIGHT PIPES AND HEAT SINKS QSFP
0 PLC	±0.1	1 PLC	±0.1	CH: J. PETERSON
1 PLC	±0.1	2 PLC	±0.1	APV: J. PETERSON
3 PLC	±0.1	4 PLC	±0.1	PRODUCT SPEC: 108-2286
ANGLES	±0.1	ANGLES	±0.1	APPLICATION SPEC: 114-13218
MATERIAL:	FINISH:	WEIGHT:	SIZE: CAGE CODE: DRAWING NO: A100779C=2110412	RESTRICTED TO: -
				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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. VALENTINE CHK J. PETERSON APVD J. PETERSON	28FEB2008 28FEB2008 28FEB2008	 TE Connectivity					
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME 1X3 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 ±- ANGLES ±-	PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218	SIZE A 1	CAGE CODE 00779	DRAWING NO C-2110412	RESTRICTED TO -			
MATERIAL -	FINISH -	WEIGHT -	CUSTOMER DRAWING			SCALE 4:1	SHEET 5	OF 5	REV E

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