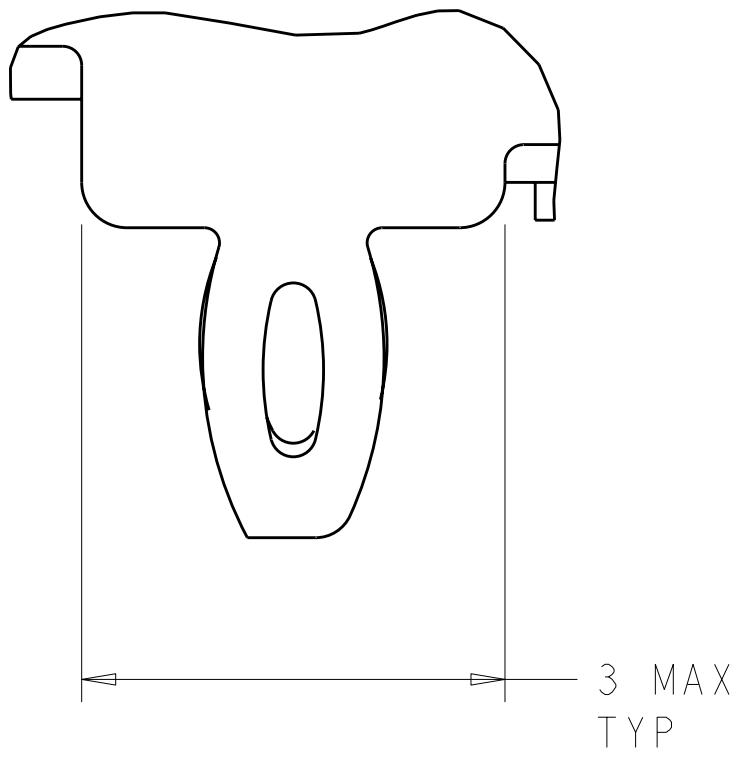


LOC		DIST		REVISIONS			
F	LYR	DESCRIPTION		DATE	DWN	APVD	
-	-	PRELIMINARY		04MAY2009	CR	JP	



DETAIL S
SCALE 20:1

- 1

CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
EMI SPRINGS MATERIAL: COPPER ALLOY
FRONT FLANGE MATERIAL: ZINC ALLOY
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE
DUST COVER MATERIAL: BLACK THERMOPLASTIC
- 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 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

DUST COVERS, 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.
- 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

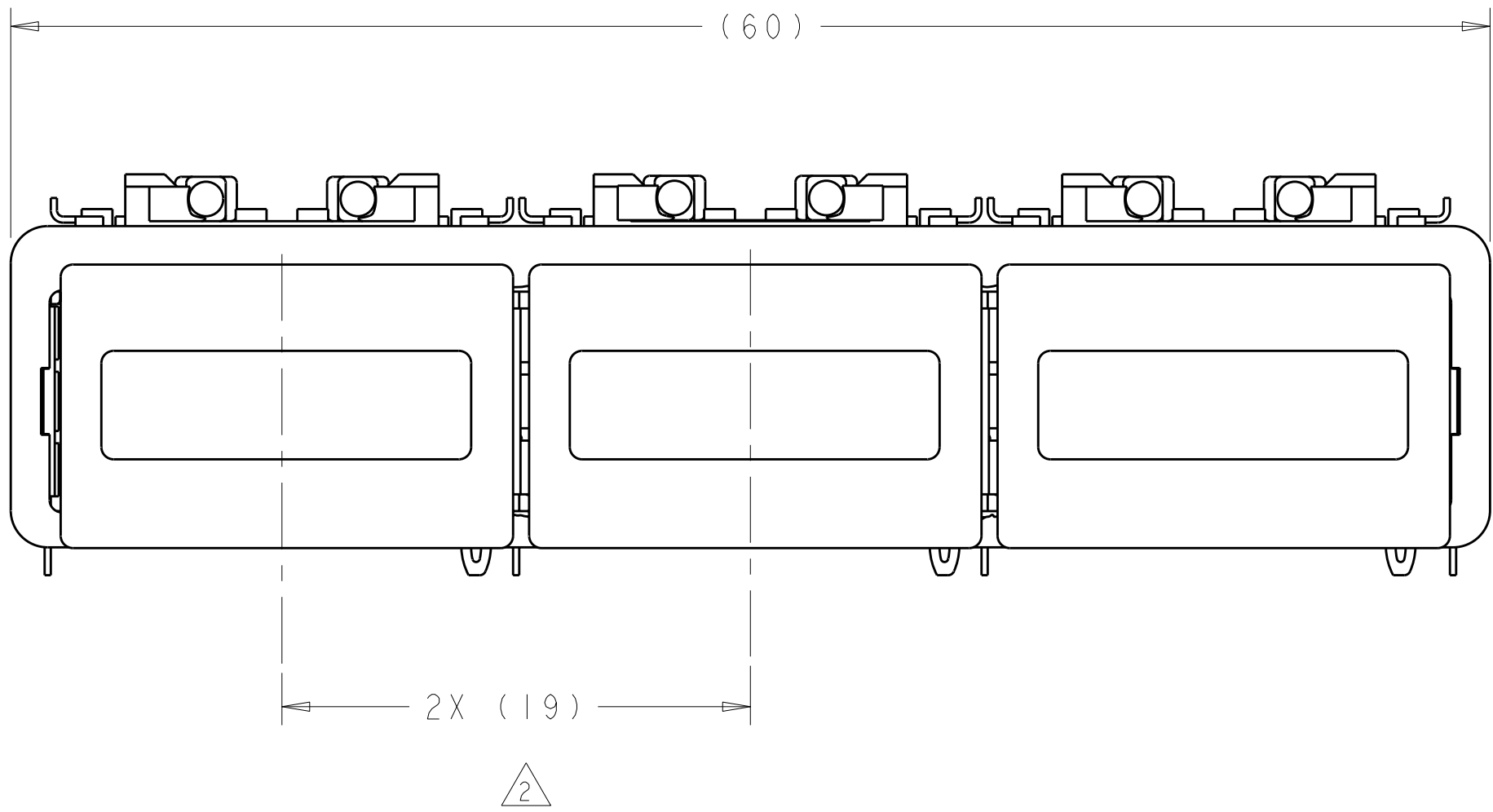
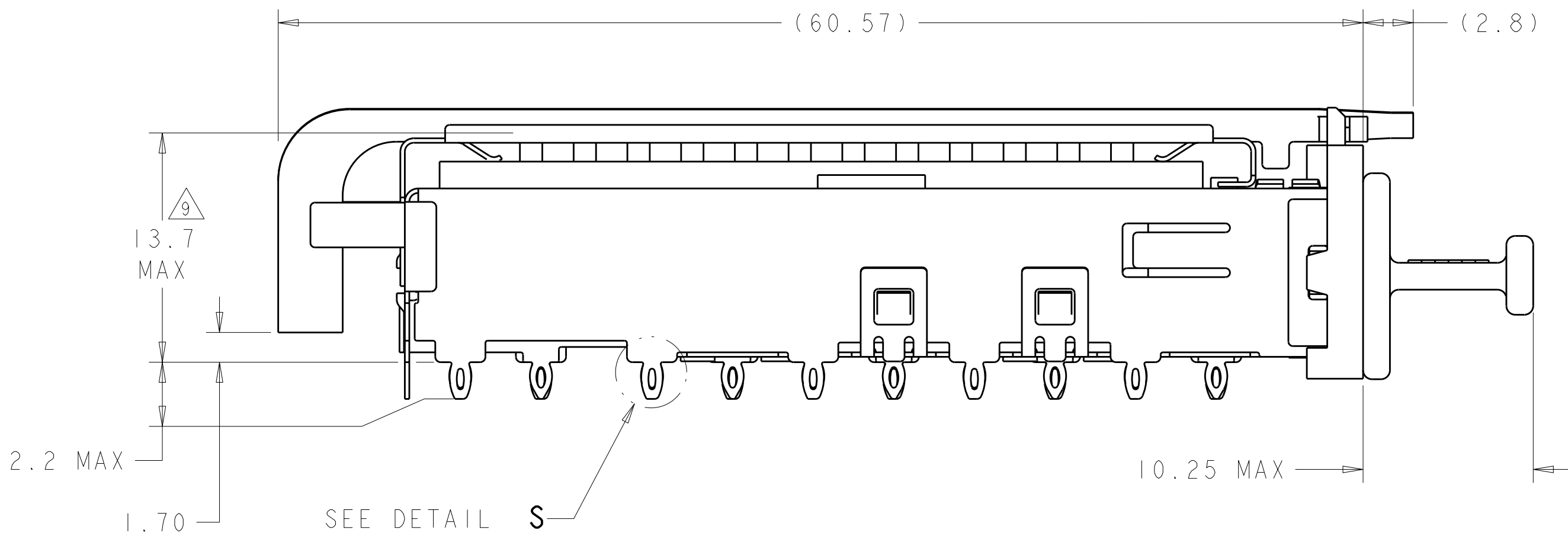
BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- 14

DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINKS APPLIES TO CAGE ASSEMBLY ONLY.

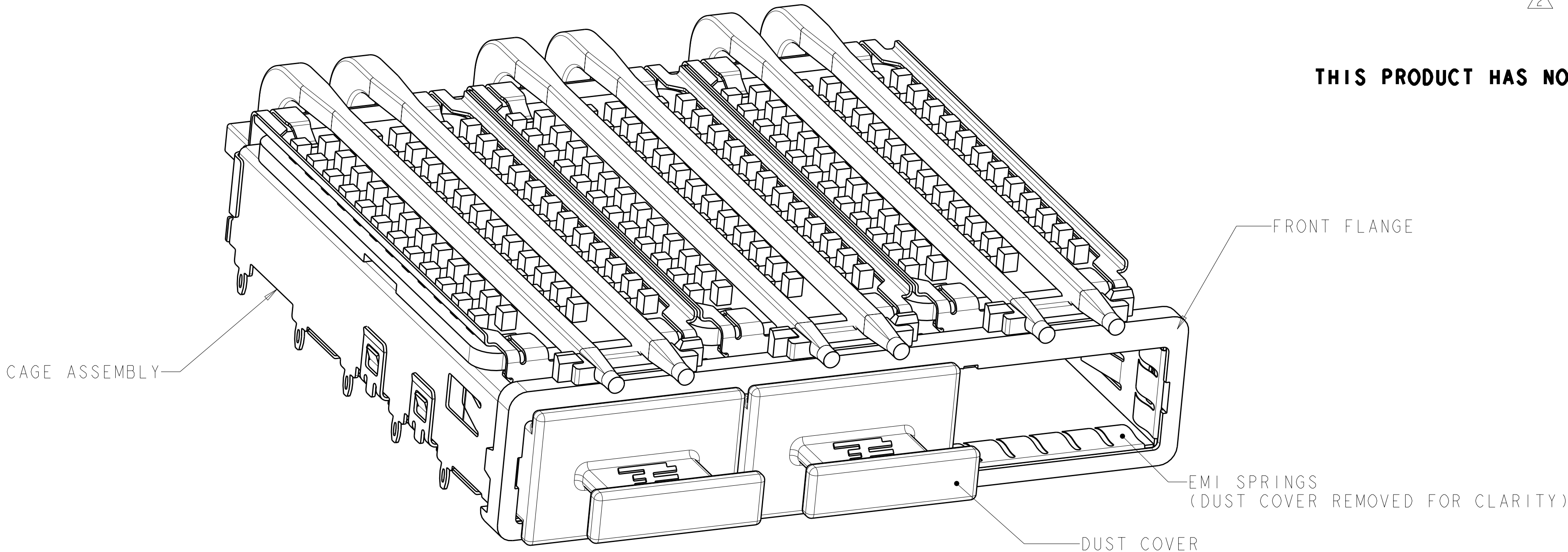
- 15

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

EMI SPRING FINISH: 2µm MIN TIN
FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL
OVER 5.08µm MIN COPPER.
HEAT SINK FINISH: NICKEL.



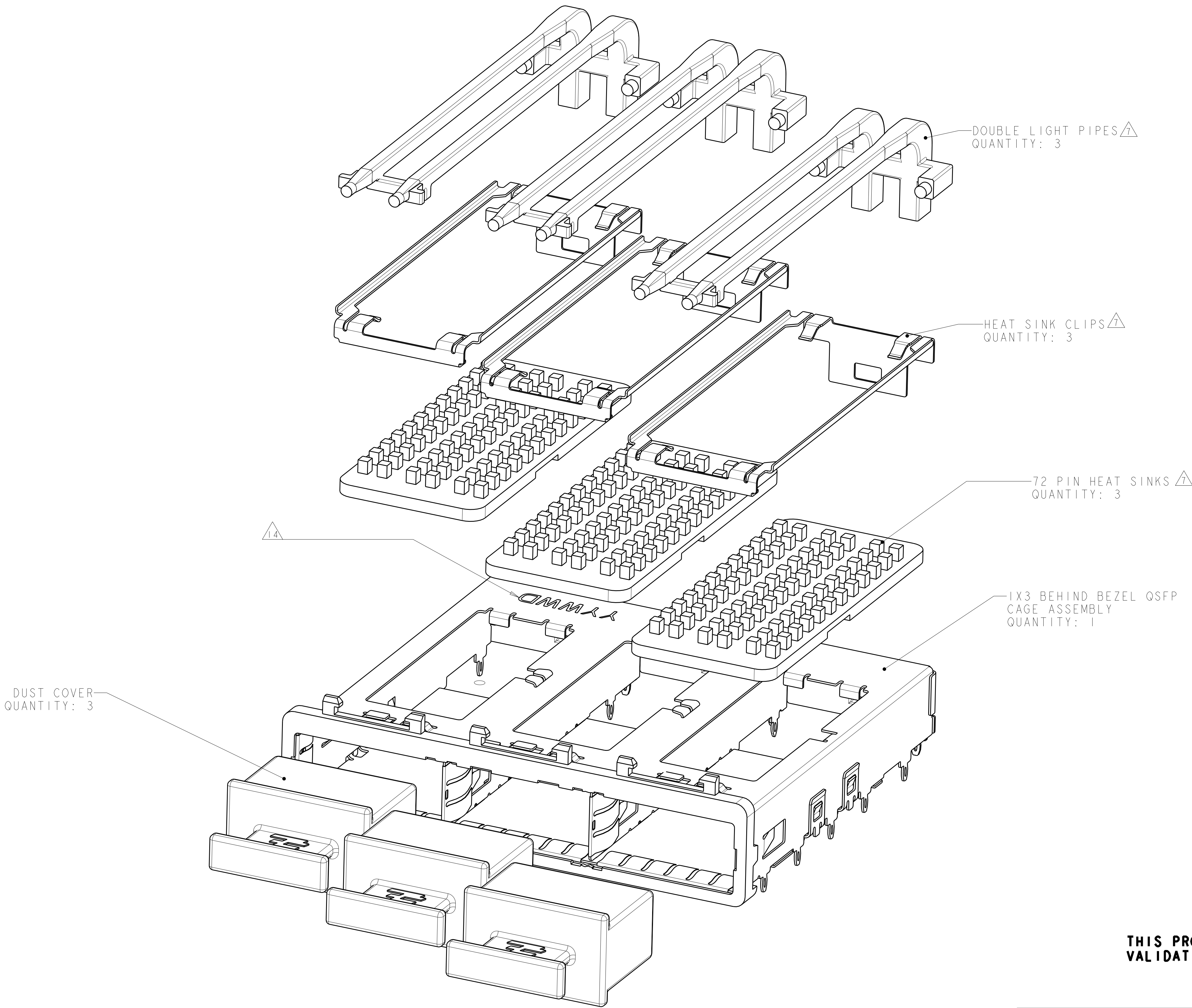
THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING



1	0.8-1.1	PCI	2110653-1
	E	HEAT SINK PROFILE	PART NUMBER

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DIMENSIONS:		CHK J. PETERSON 01MAY2009	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD B. WERTZ 01MAY2009	PRODUCT SPEC	
mm			108-2286	
9 PLC ±.1			APPLICATION SPEC	
2 PLC ±0.1			114-13218	
3 PLC ±0.013			WEIGHT	
5 PLC ±.0001			CUSTOMER DRAWING	
4 PLC ±.0001			SCALE 4:1	
ANGLES			SHEET 1 OF 5	
FINISH			REV	
16				

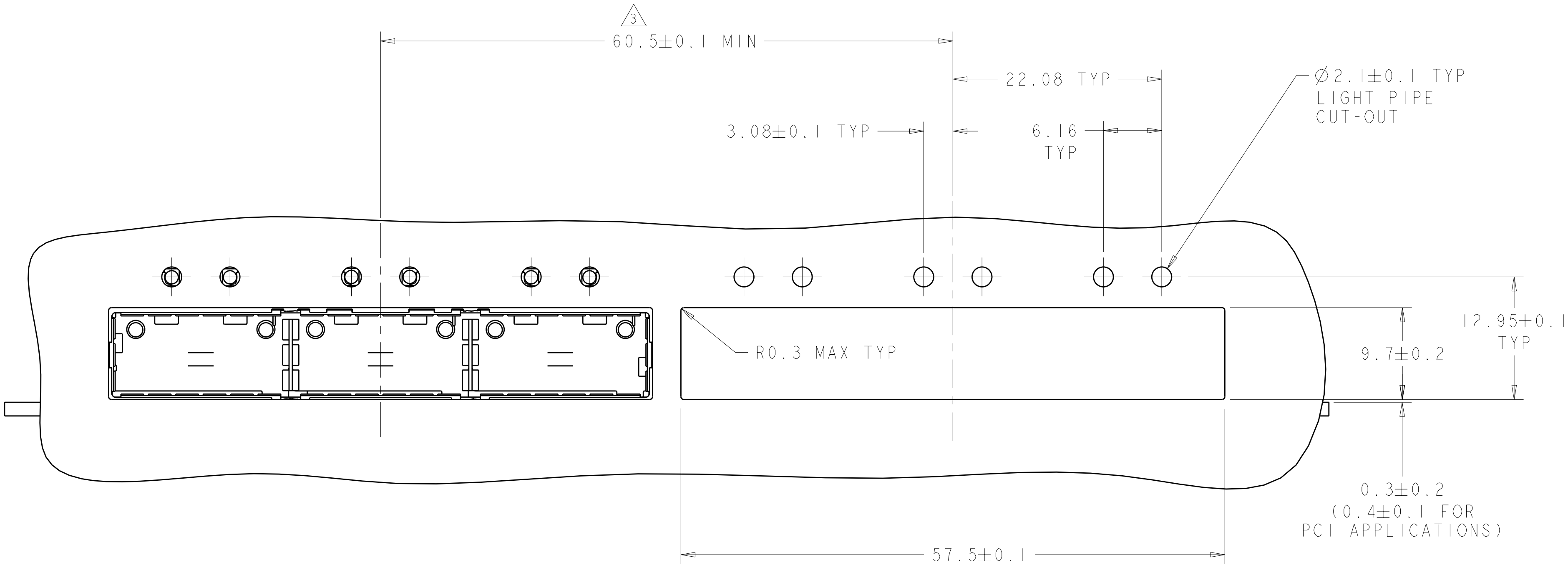
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



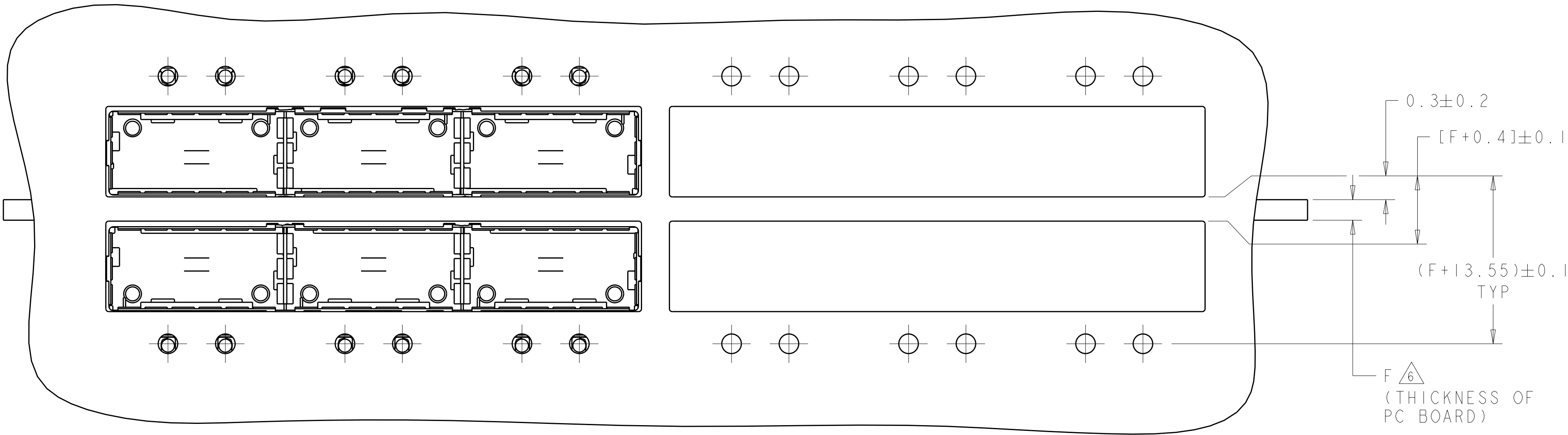
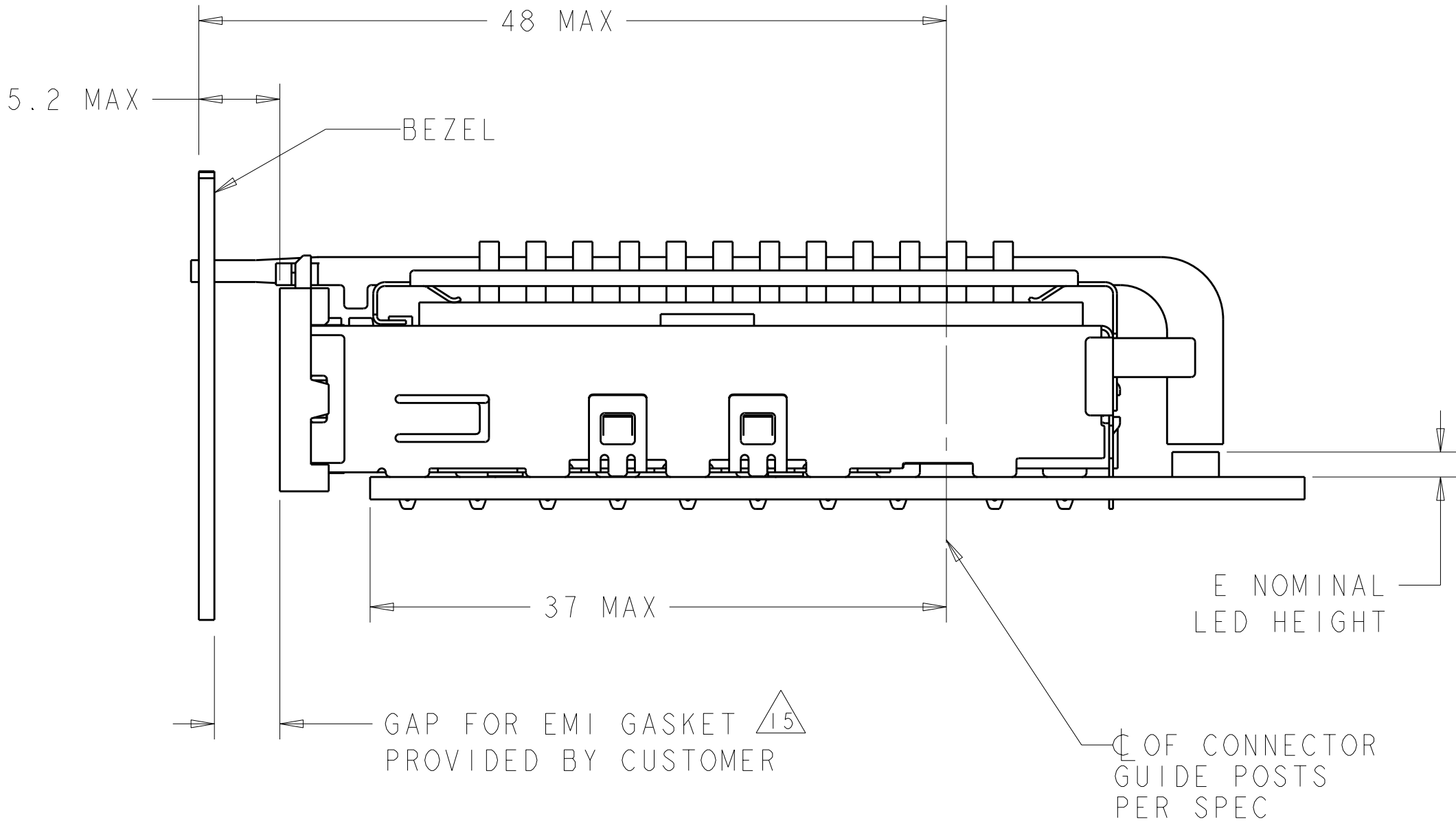
THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING

TYPICAL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE FOR THE LATEST REVISION.		DWN C. ROHLER 01MAY2009	Tyco Electronics Harrisburg, PA 17105-3608	
DIMENSIONS:		CHK J. PETERSON 01MAY2009	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPE, HEAT SINK, AND DUST COVER, QSFP	
mm		APVD B. WERTZ 01MAY2009	SIZE A100779C=2110653	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-2286	RESTRICTED TO	
9 PLC ±.1		APPLICATION SPEC 114-13218	SCALE 4:1	
2 PLC ±0.1		WEIGHT -	SHEET 2 OF 5	
3 PLC ±0.13		CUSTOMER DRAWING	REV 1	
4 PLC ±.0001				
ANGLES ±.1				
FINISH				

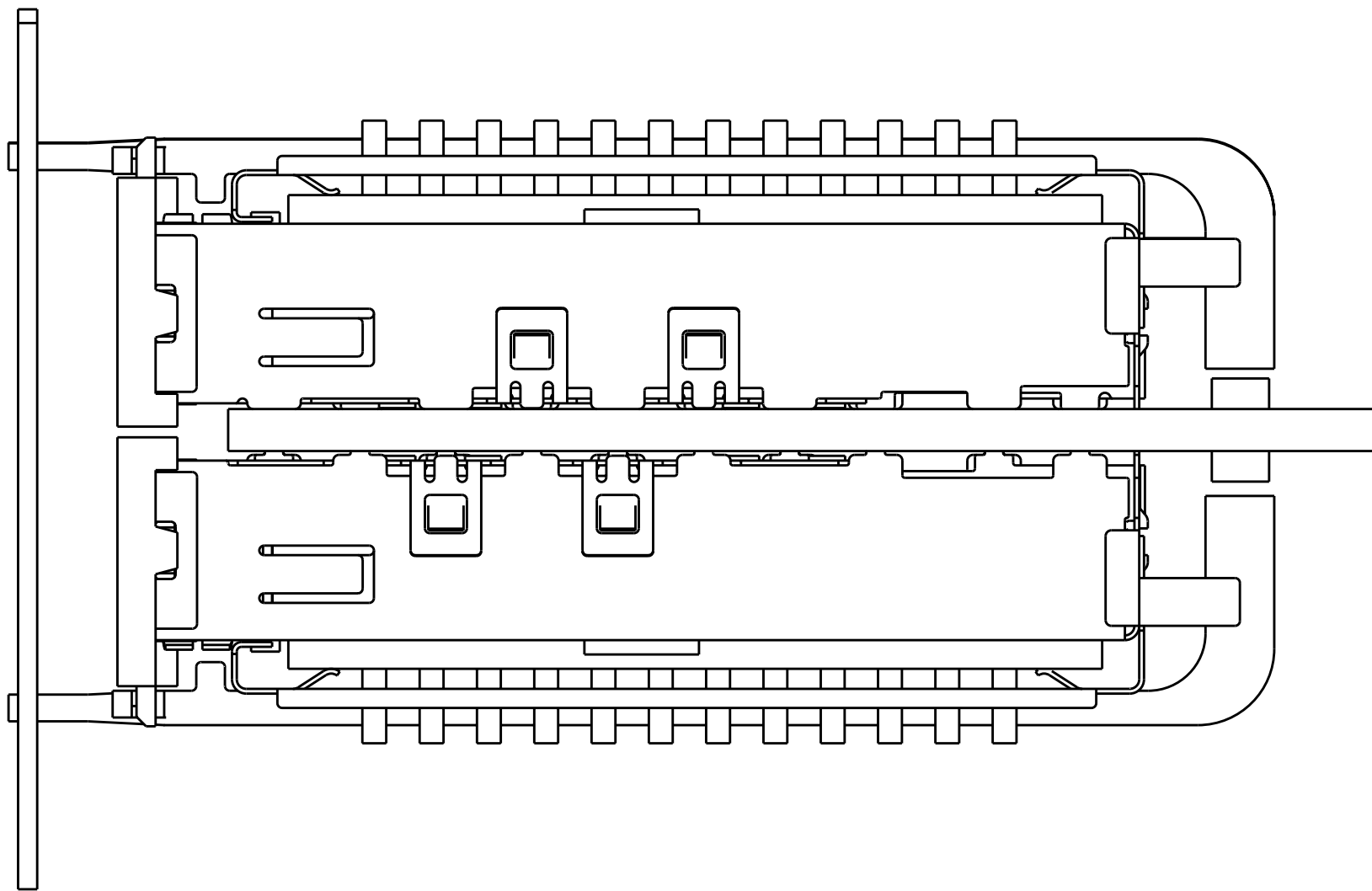
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION
SCALE 3:1

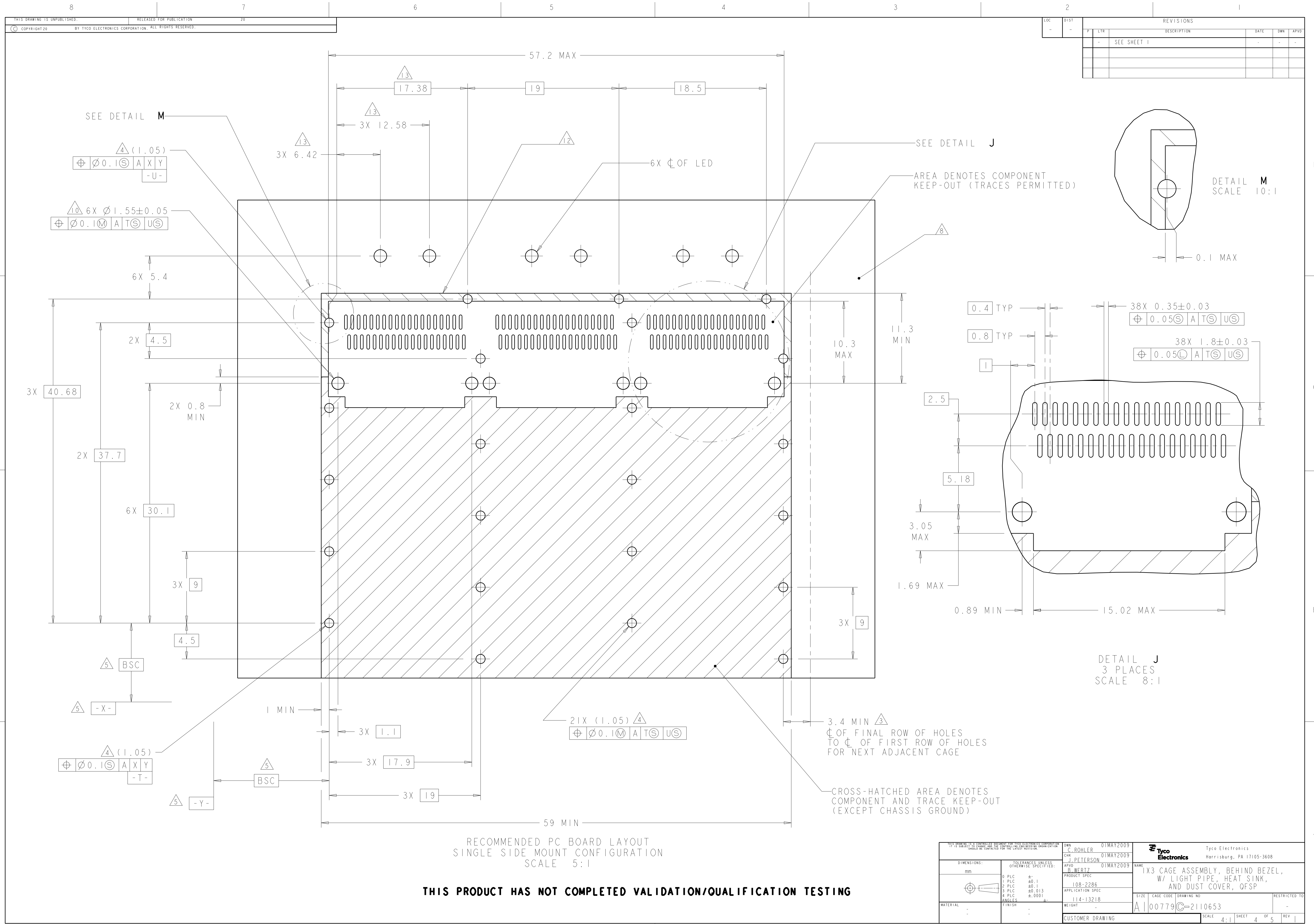


BELLY TO BELLY CONFIGURATION SIMILAR
TO ONE SIDED EXCEPT WHERE NOTED
SCALE 3:1

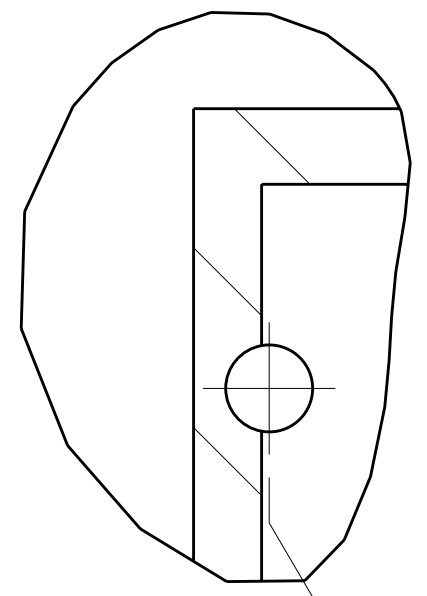


THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

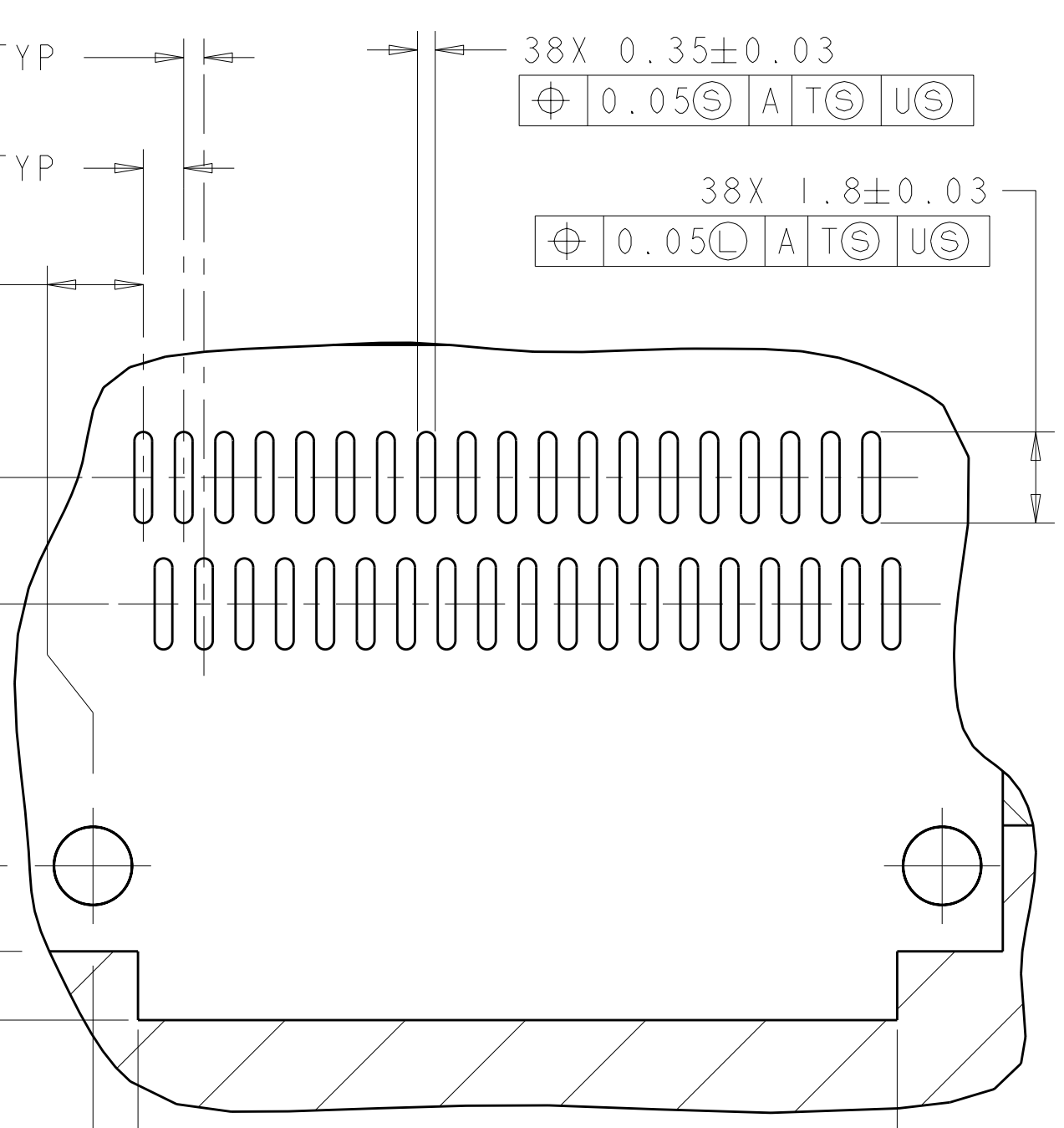
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DIMENSIONS:		CHK J. PETERSON 01MAY2009	NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPE, HEAT SINK, AND DUST COVER, QFSP	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD B. WERTZ 01MAY2009	PRODUCT SPEC	
mm			108-2286	
0 PLC ±0.1			APPLICATION SPEC	
1 PLC ±0.1			114-13218	
2 PLC ±0.1			WEIGHT	
3 PLC ±0.013			CUSTOMER DRAWING	
4 PLC ±0.001			SCALE 4:1	
ANGLES ±0.001			SHEET 3 OF 5	
FINISH			REV 1	



LOC		DIST		REV		DATE		DWN		APVD	
-	-	-	-	-	-	-	-	-	-	-	-
-		-		-		-		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	



DETAIL M
SCALE 10:1

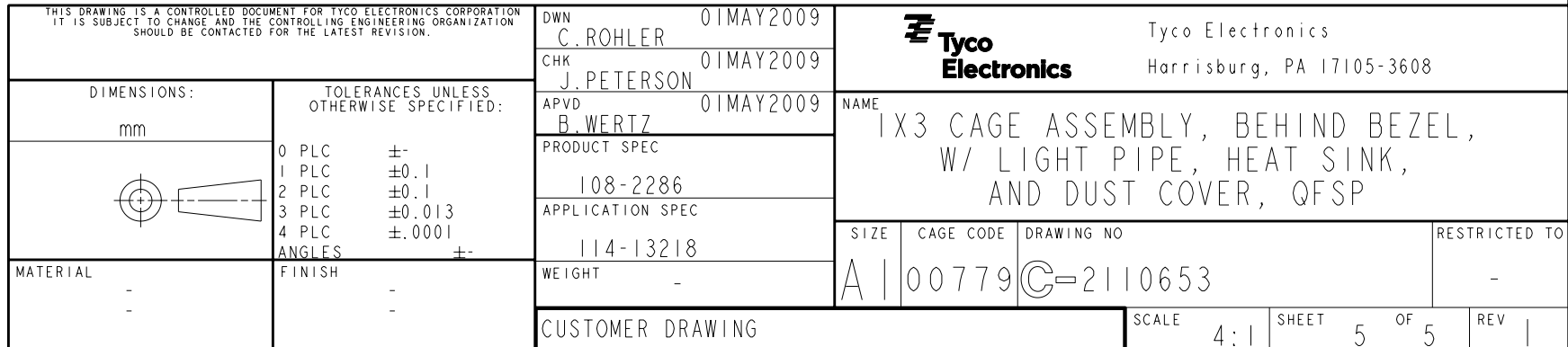


DETAIL J
3 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 5:1

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DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±0.1 1 PLC ±0.1 3 PLC ±0.1 5 PLC ±0.013 4 PLC ±0.001 ANGLES ±0.001 FINISH		NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPE, HEAT SINK, AND DUST COVER, QFSP	
MATERIAL		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218 WEIGHT		SIZE CAGE CODE DRAWING NO. A100779C=2110653	
CUSTOMER DRAWING		SCALE 4:1		SHEET 4 OF 5	



AMP 4805 REV 31MAR2000