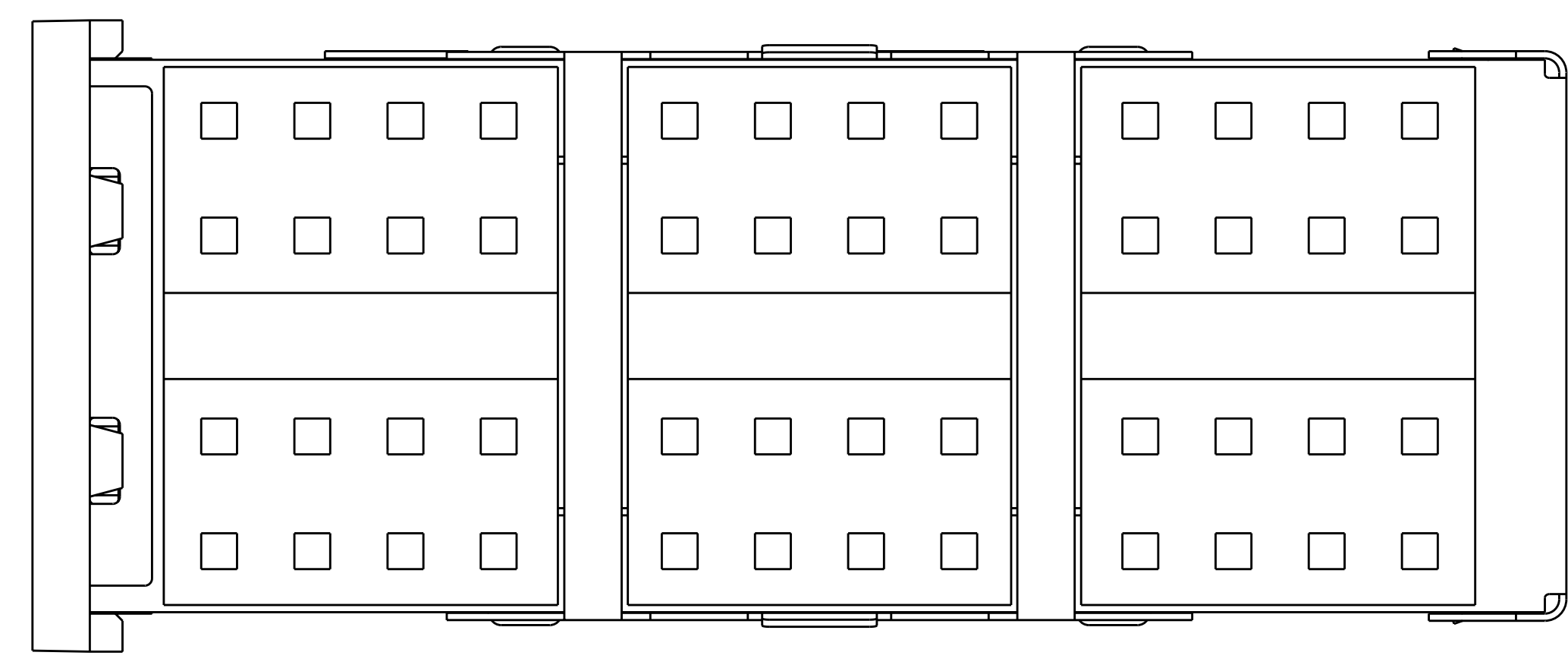
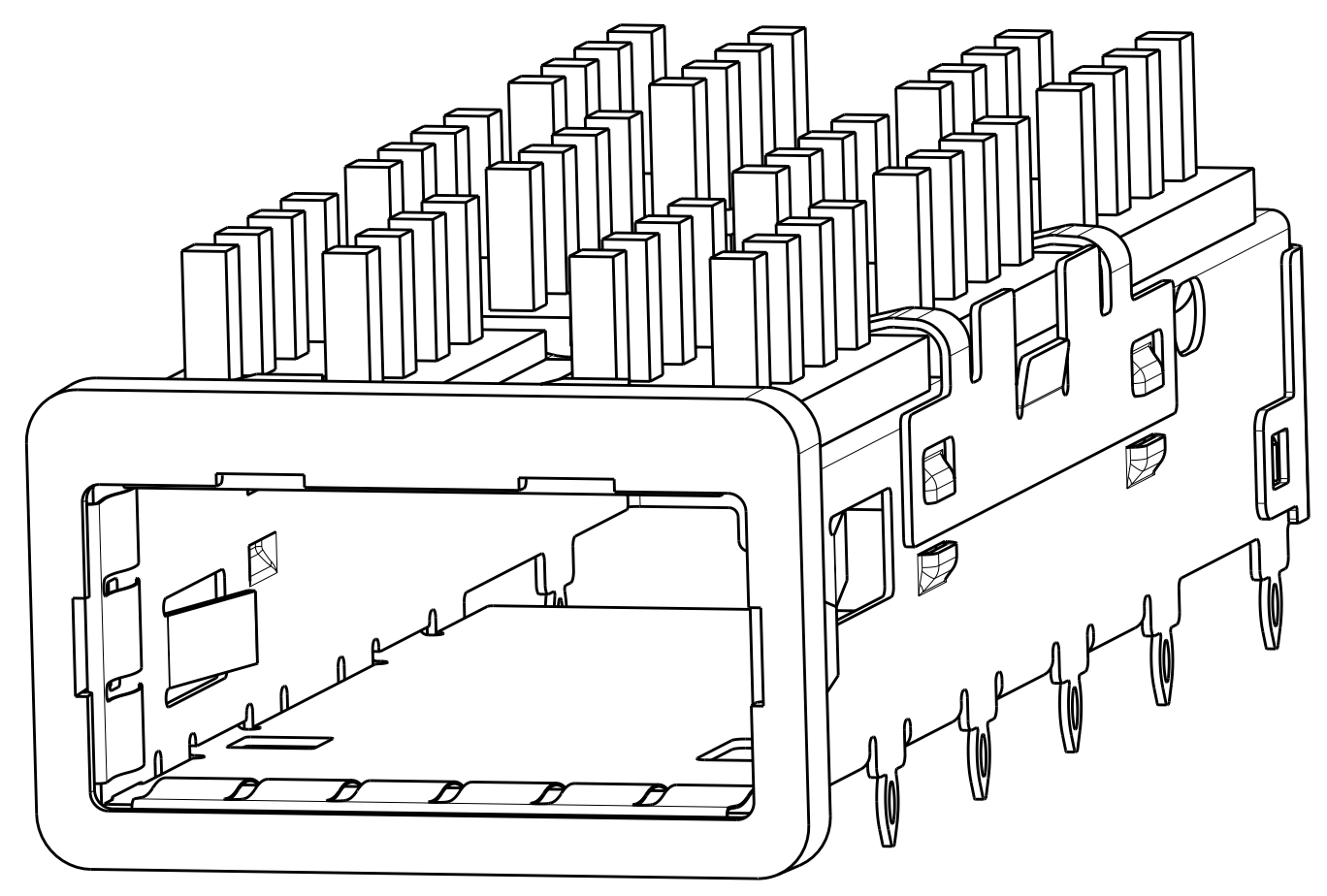
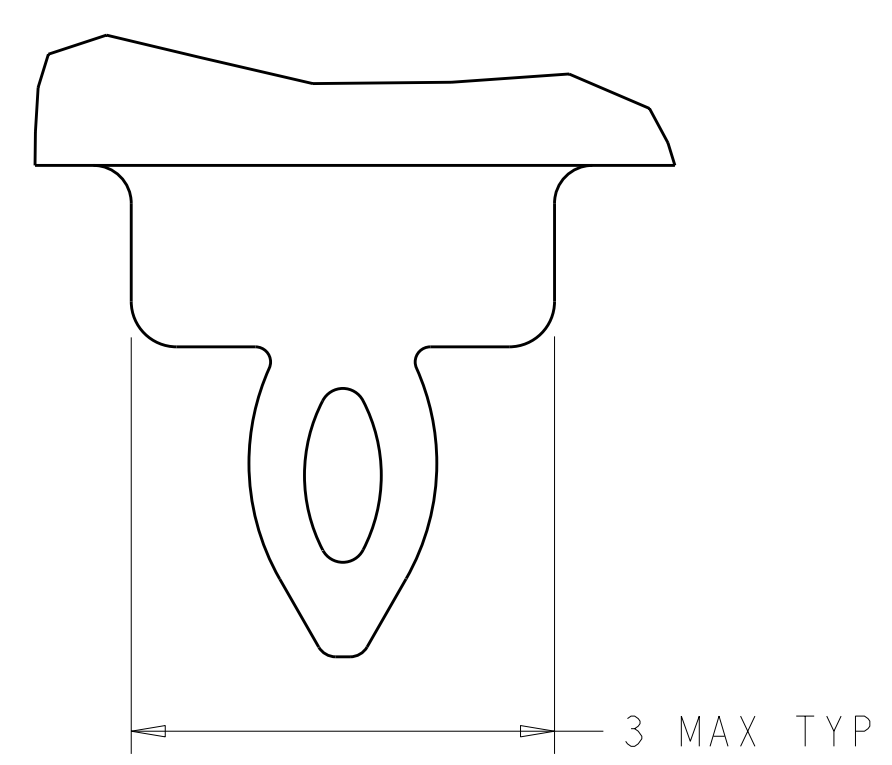
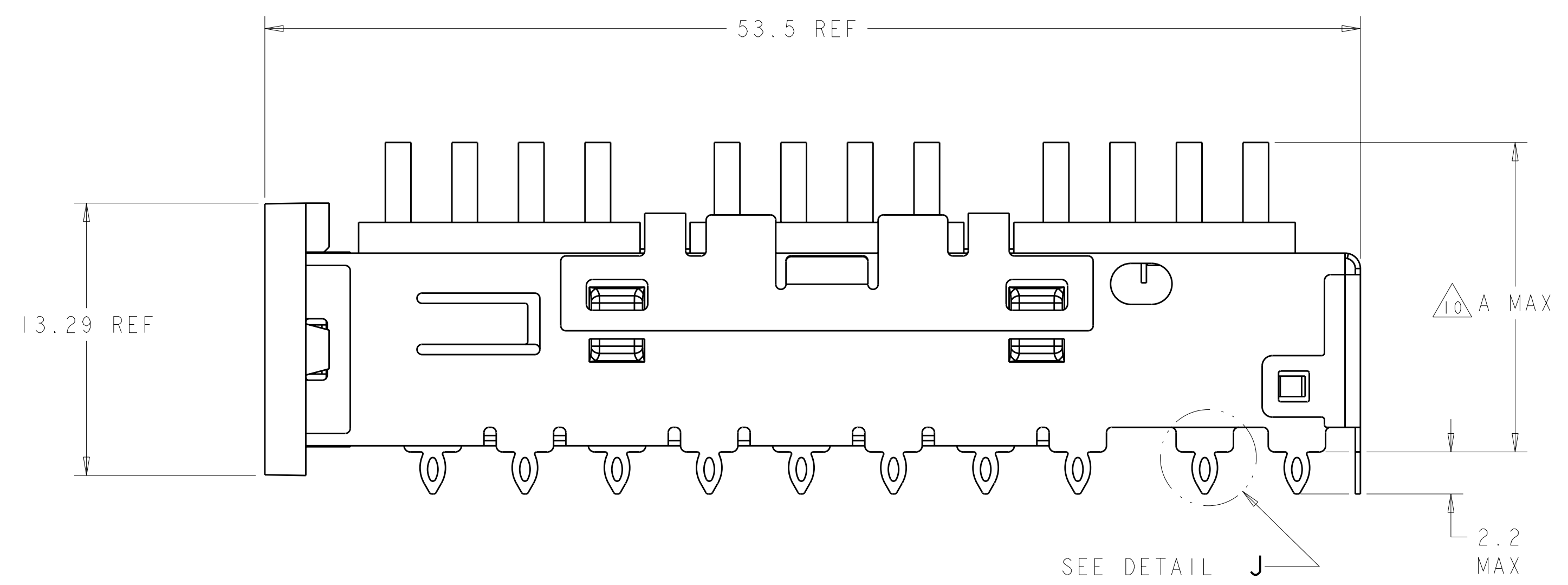
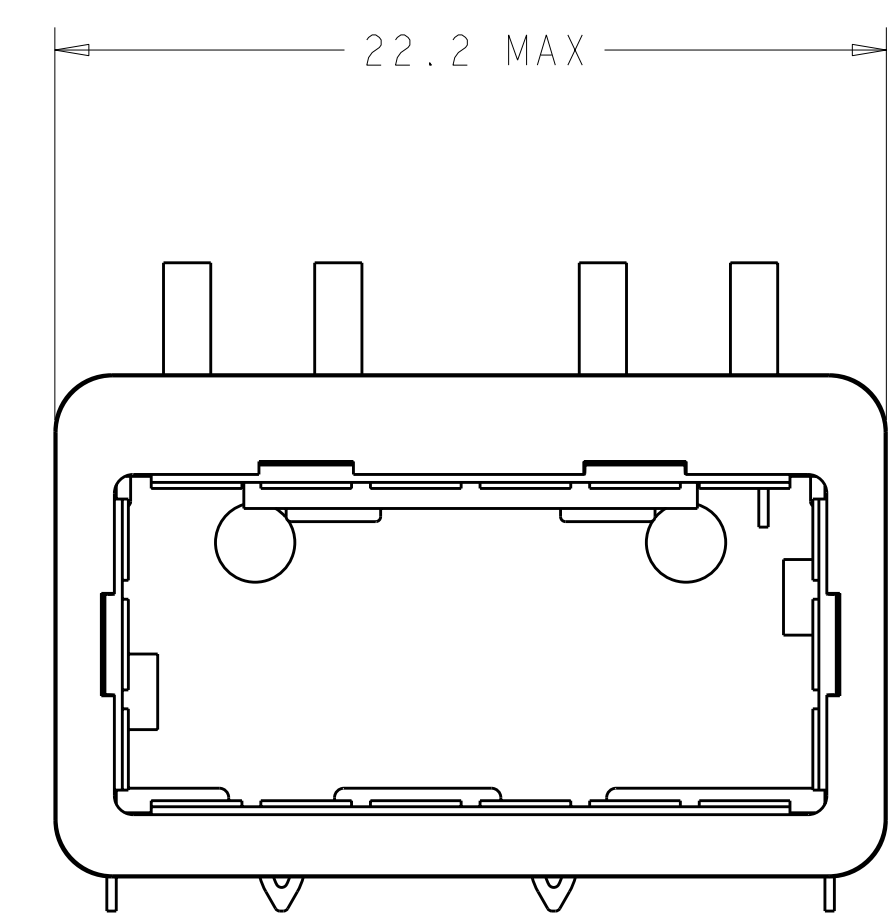


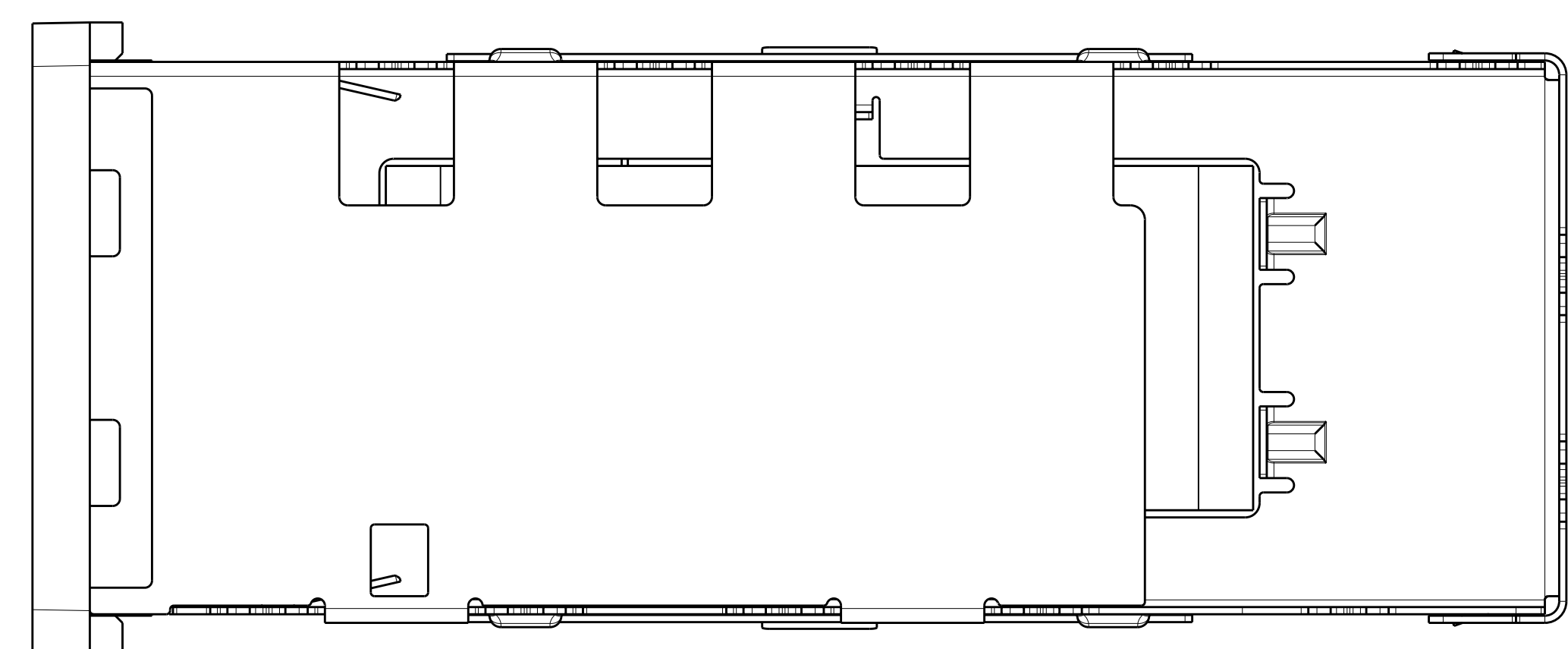
LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPD
		B	REV PER ECO-09-020440	11SEP2009	CR JP



- △ CAGE 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
- △ MINIMUM PITCH DIMENSION.
- 3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- △ REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- △ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- △ DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
 SINGLE SIDED PC BOARD MINIMUM THICKNESS: 1.45
 DOUBLE SIDED PC BOARD MINIMUM THICKNESS: 2.7.
- △ HEAT SINK AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- △ DATUM [-A-] IS TOP SURFACE OF HOST BOARD.
- △ SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.
- △ DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE.
- △ DATE CODE (YYWW) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINK APPLIES TO CAGE ASSEMBLY ONLY.
- △ 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: 0.076µm MIN NICKEL.
- 13. PRODUCT HAS NOT COMPLETED QUALIFICATION TESTING.



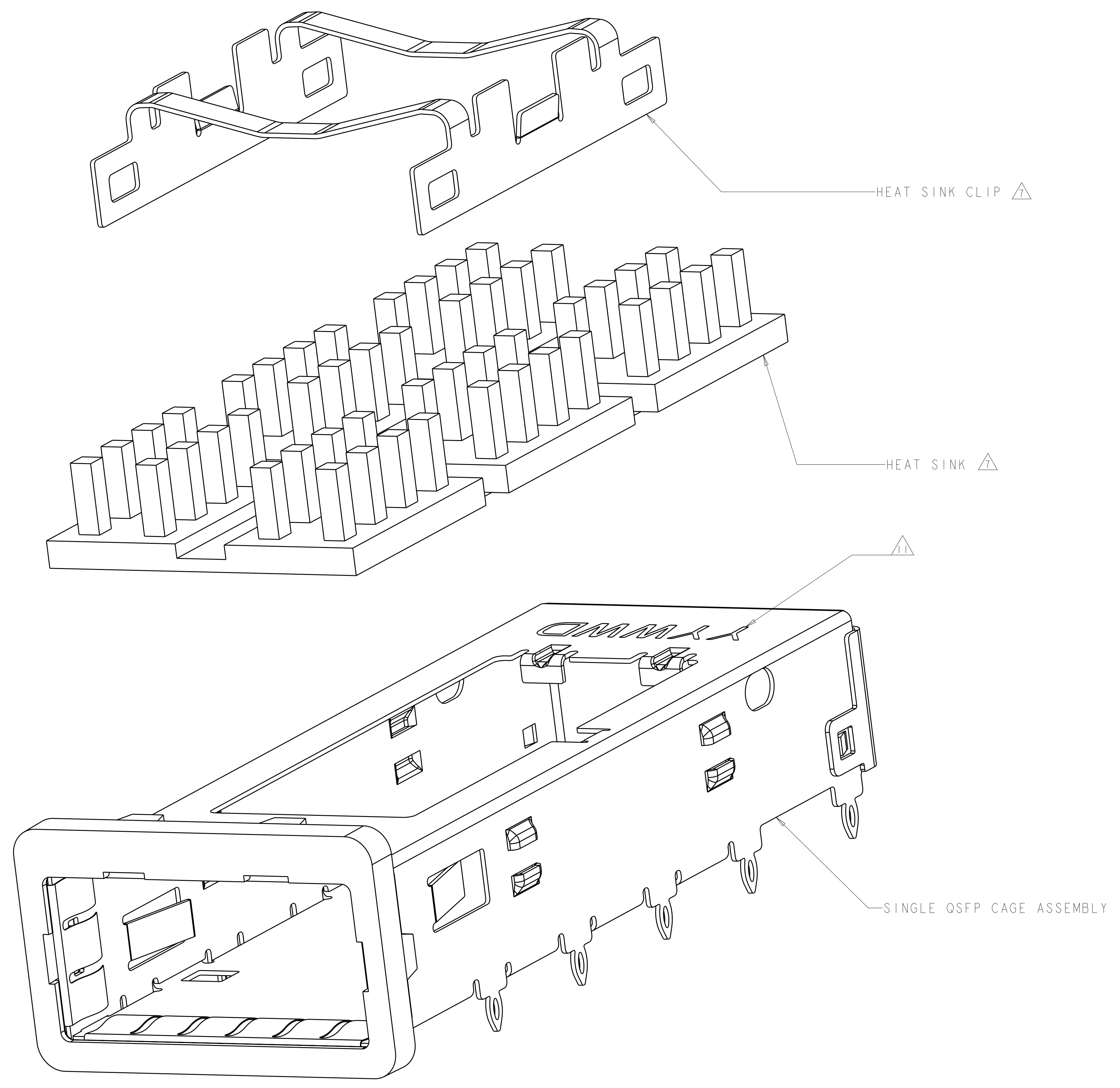
DETAIL J
 SCALE 20:1



A	DESCRIPTION	PART NUMBER
23.0	NETWORKING HEAT SINK	1888968-3
16.0	SAN HEAT SINK (SHOWN)	1888968-2
13.7	PCI HEAT SINK	1888968-1

DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±.5 1 PLC ±0.5 2 PLC ±0.13 3 PLC ±0.013 4 PLC ±0.001 ANGLES ±.		DWN C. VALENTINE 19FEB2007 CHK E. BRIGHT 19FEB2007 APVD E. BRIGHT 19FEB2007		Tyco Electronics Harrisburg, PA 17105-3608	
MATERIAL △		FINISH △12		PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218		NAME CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK SIZE CAGE CODE DRAWING NO RESTRICTED TO A100779C=1888968	
CUSTOMER DRAWING				SCALE 5:1		SHEET 1 OF 5 REV B	

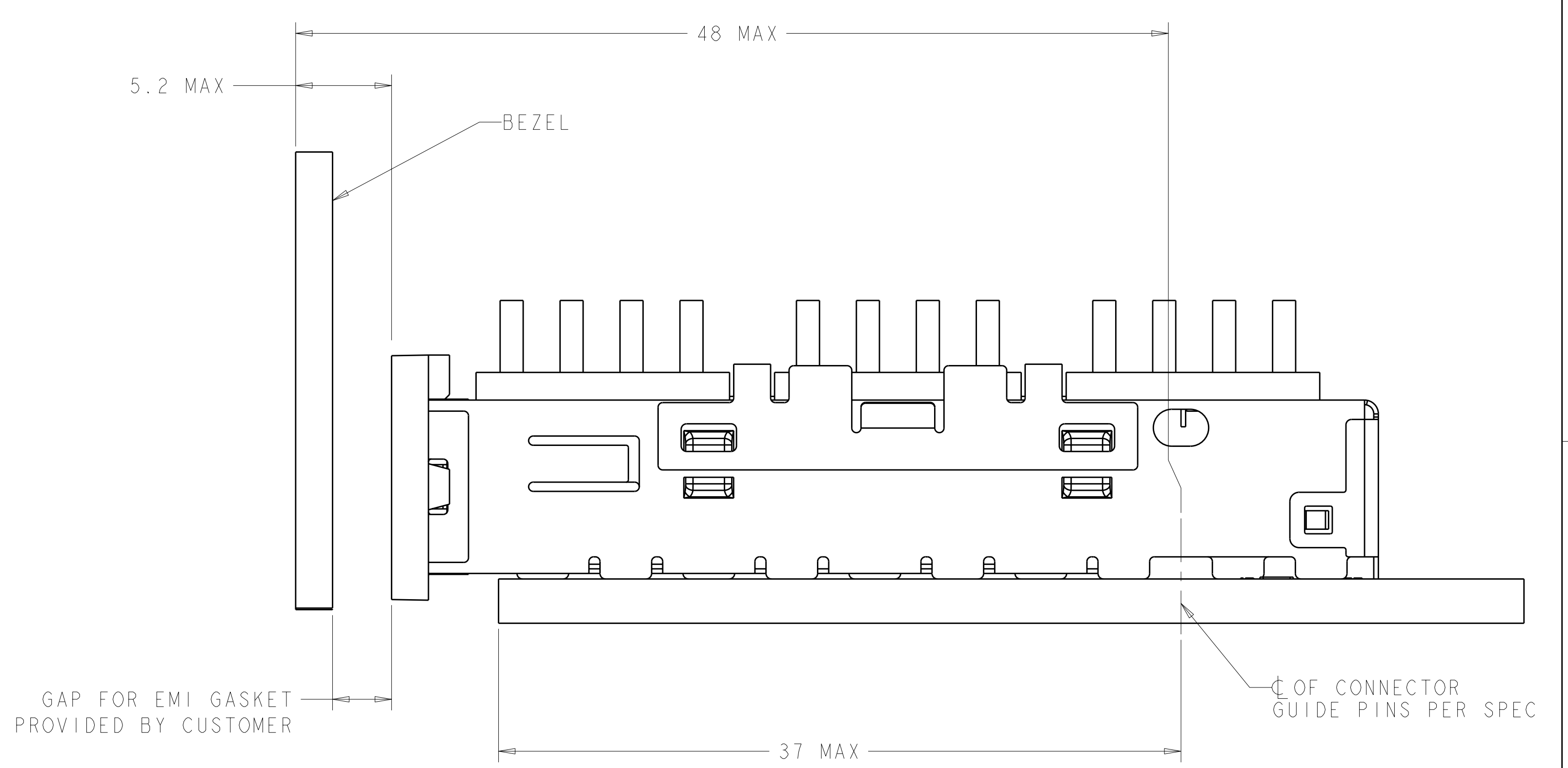
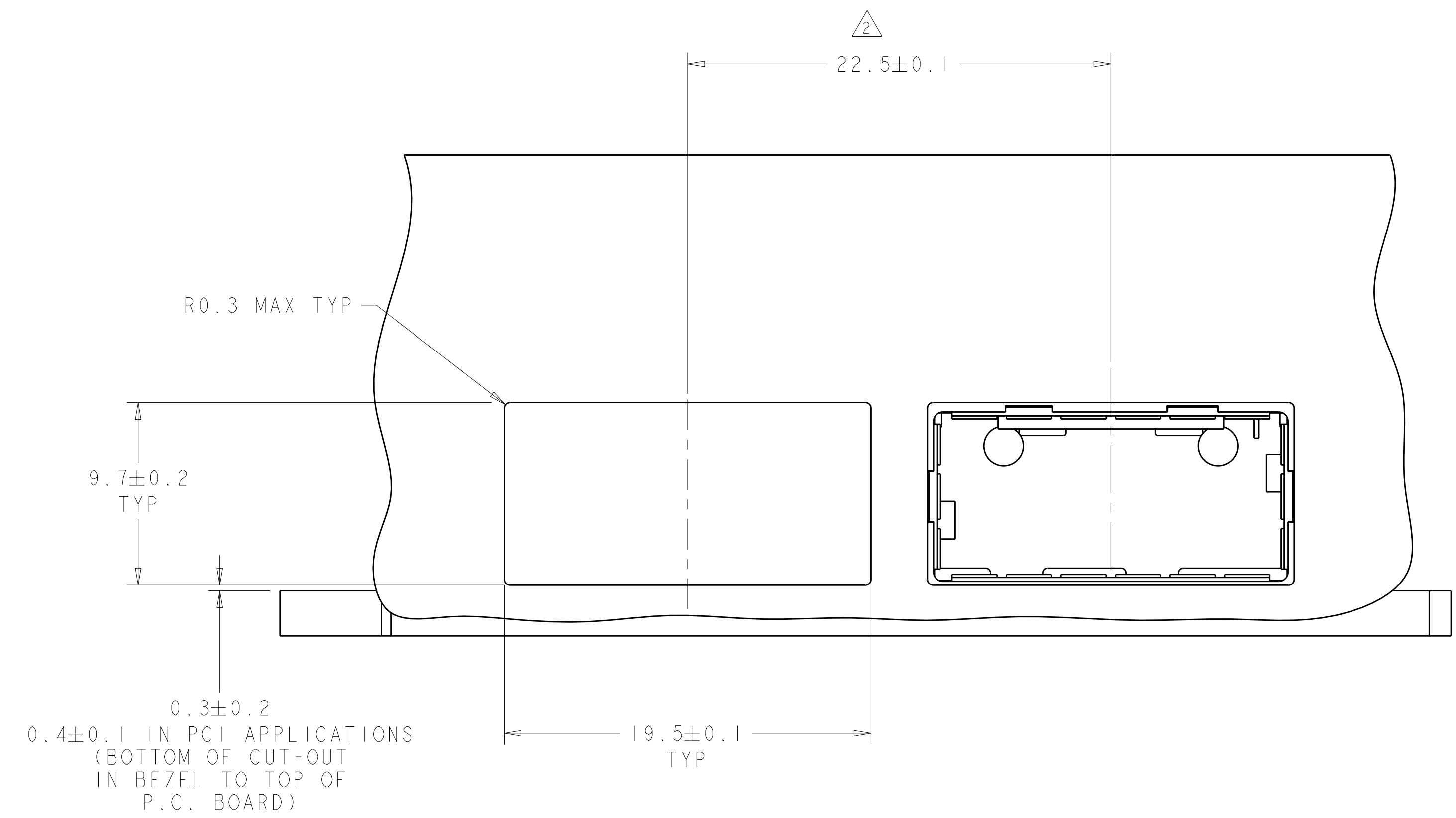
LOC	DIST	REVISIONS					
GP	00	P	LTB	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-



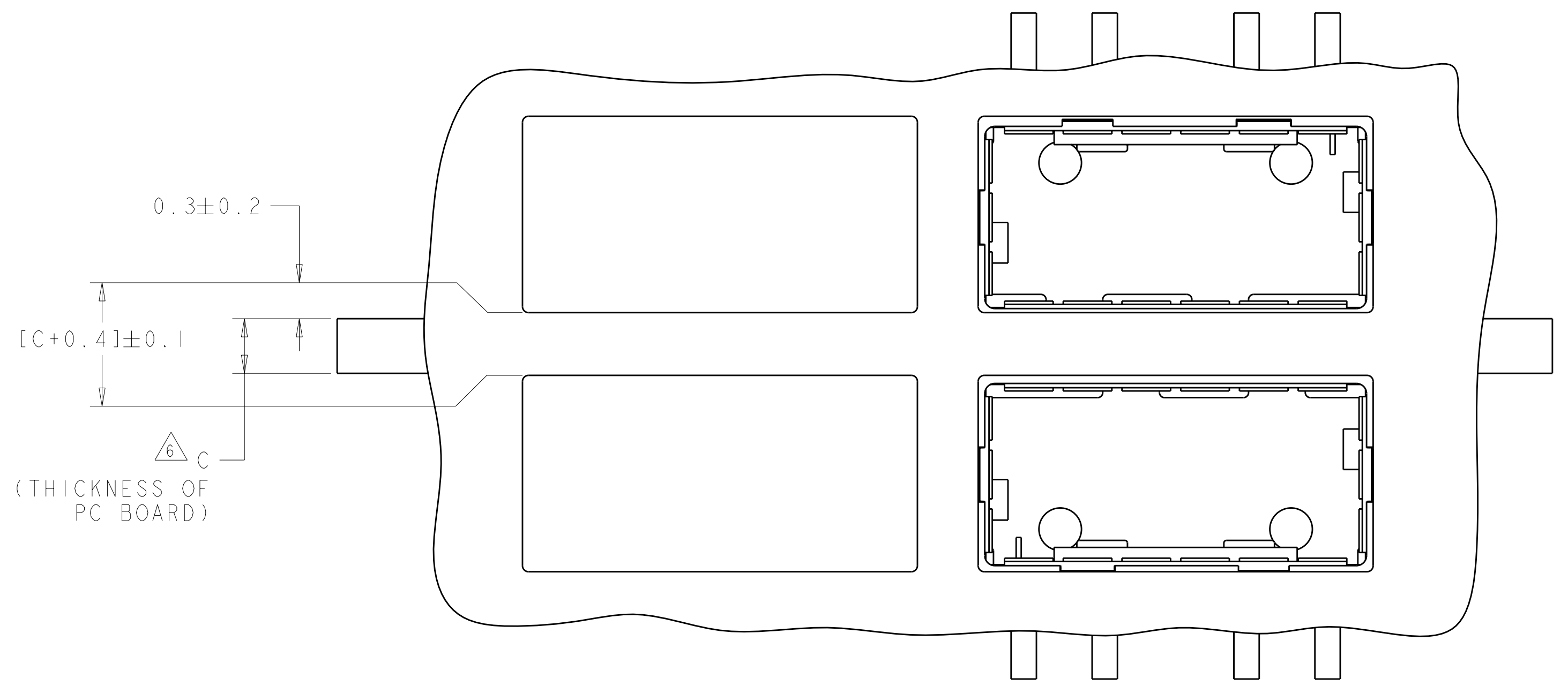
EXPLODED VIEW
SCALE 8:1

<small>THIS DRAWING IS UNPUBLISHED. IT IS SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT OBLIGATION. IT IS SUBJECT TO CHANGE TO CORRECT ANY ERRORS OR OMISSIONS. IT IS SUBJECT TO CHANGE TO CORRECT ANY ERRORS OR OMISSIONS. IT IS SUBJECT TO CHANGE TO CORRECT ANY ERRORS OR OMISSIONS.</small>		DWN C. VALENTINE 19FEB2007	Tyco Electronics Harrisburg, PA 17105-3608
DIMENSIONS: mm		CHK E. BRIGHT 19FEB2007	NAME CAGE ASSEMBLY, BEHIND BEZEL, QSPF, WITH HEAT SINK
TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±.5 2 PLC ±0.13 5 PLC ±0.013 4 PLC ±0.001 ANGLES ±.		APVD E. BRIGHT 19FEB2007	PRODUCT SPEC 108-2286 APPLICATION SPEC 114-13218
MATERIAL FINISH		WEIGHT -	SIZE CAGE CODE DRAWING NO A1100779C=1888968
CUSTOMER DRAWING		SCALE 5:1	SHEET 2 OF 5 REV B

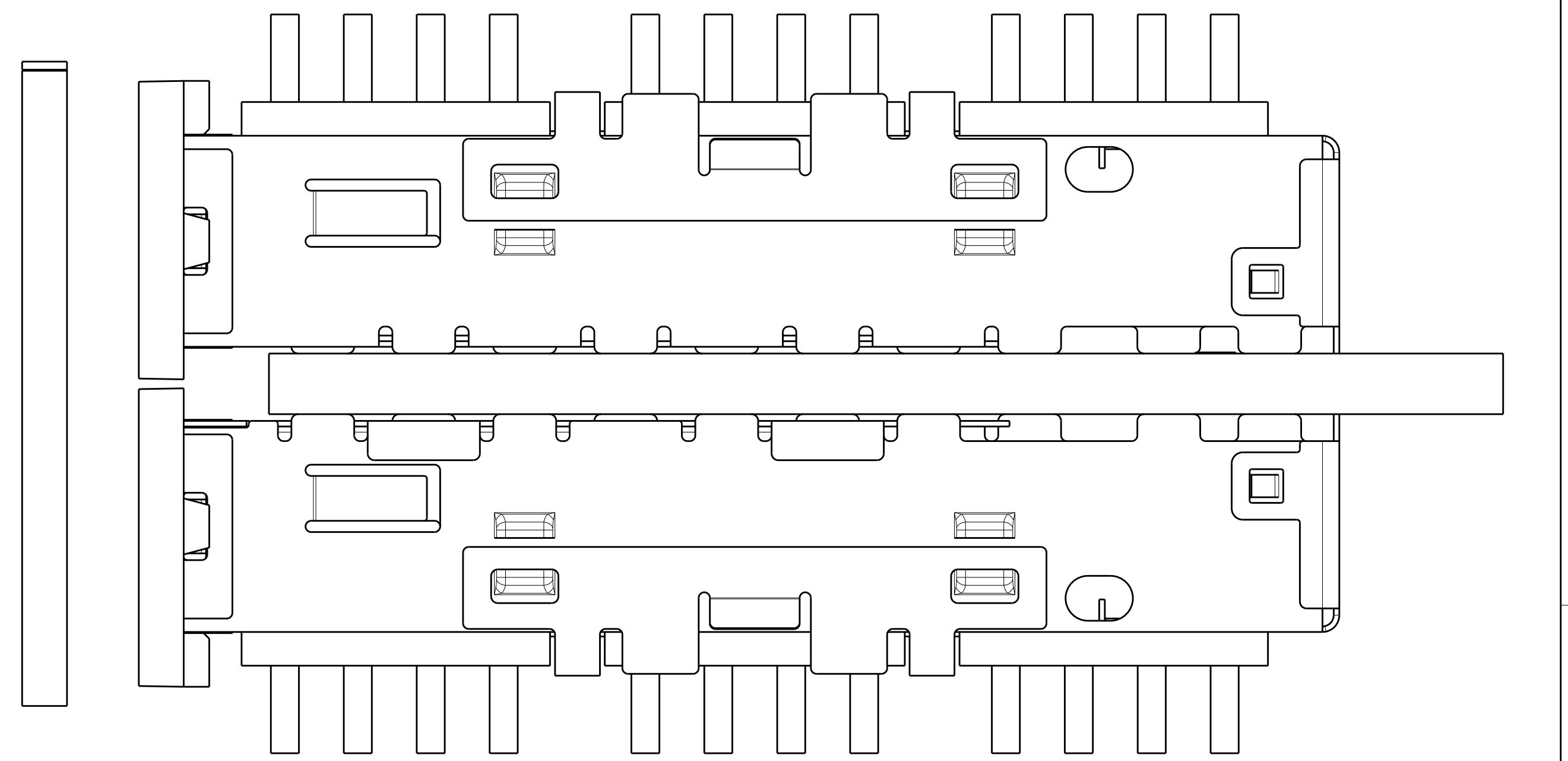
LOC	DIST	REV	DATE	BY	APPD
GP	00				
REVISIONS					



ONE SIDED CONFIGURATION

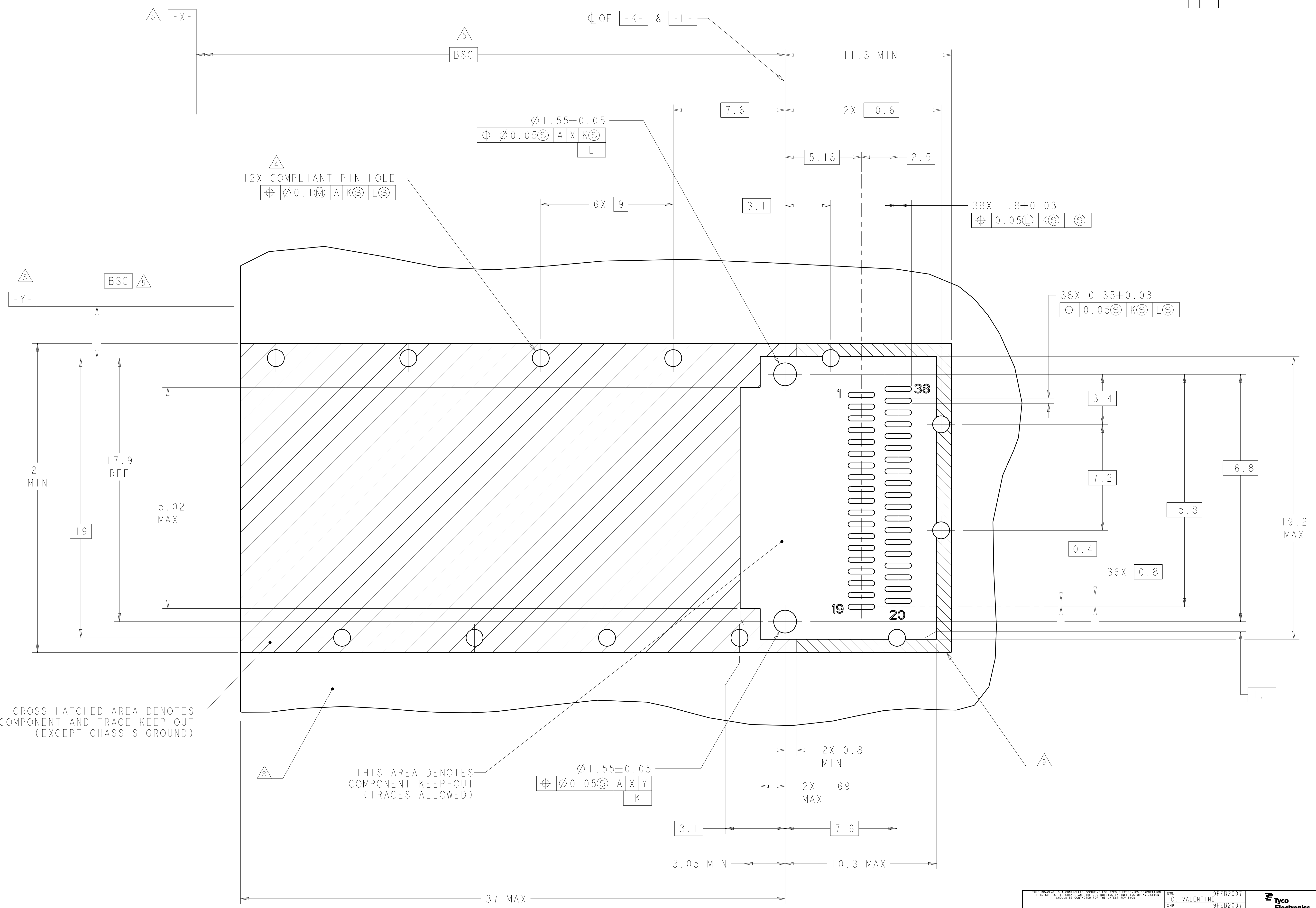


BELLY TO BELLY CONFIGURATION
SIMILAR TO ONE SIDED EXCEPT
WHERE NOTED



DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.5 1 PLC ±0.13 5 PLC ±0.013 4 PLC ±0.0001 ANGLES ±.		DWN C. VALENTINE 19FEB2007 CHK E. BRIGHT 19FEB2007 APVD E. BRIGHT 19FEB2007		Tyco Electronics Harrisburg, PA 17105-3608	
MATERIAL		FINISH		NAME CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK		SIZE CAGE CODE DRAWING NO A1100779C-1888968	
CUSTOMER DRAWING		SCALE 5:1		SHEET 3 OF 5		REV B	

LOC	DIST	REV	DATE	BY	APPD
GP	00	1			
DESCRIPTION			DATE	DWN	APPD
SEE SHEET 1			-	-	-



CROSS-HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

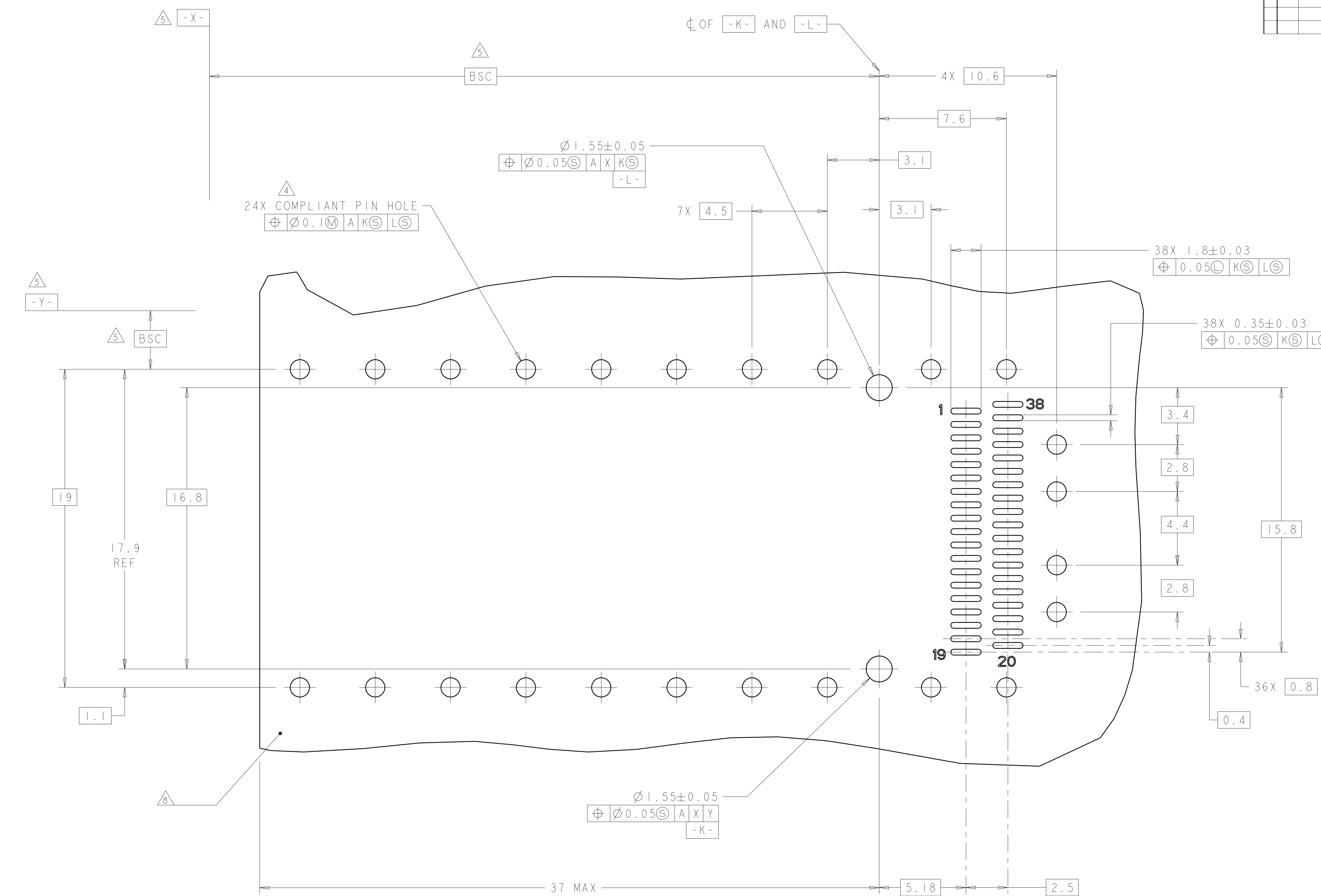
THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

Ø1.55±0.05
 Ø0.05
 A X Y
 -K-

RECOMMENDED PCB LAYOUT
 SINGLE SIDED CONFIGURATION
 SCALE 8:1

DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±.5 8 PLC ±0.13 5 PLC ±0.013 4 PLC ±0.001 ANGLES ±.001		DWN C. VALENTINE 19FEB2007 CHK E. BRIGHT 19FEB2007 APVD E. BRIGHT 19FEB2007		Tyco Electronics Harrisburg, PA 17105-3608	
MATERIAL FINISH		WEIGHT 114-13218		NAME CAGE ASSEMBLY, BEHIND BEZEL, QSPF, WITH HEAT SINK		SIZE CAGE CODE DRAWING NO A1100779C=1888968	
CUSTOMER DRAWING				SCALE 4:1		SHEET 4 OF 5 REV B	

LOC	DIST	REV	DATE	BY	APPD
GP	00				
REVISIONS			DESCRIPTION	DATE	DWN
			SEE SHEET 1		



RECOMMENDED PCB LAYOUT
 BELLY TO BELLY CONFIGURATION
 SEE SHEET 4 FOR KEEP OUT AREAS
 SCALE 8:1

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DIMENSIONS: mm 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±0.5 1 PLC ±0.5 2 PLC ±0.13 3 PLC ±0.013 4 PLC ±0.001 ANGLES ±0.001	NAME PRODUCT SPEC APPLICATION SPEC WEIGHT CUSTOMER DRAWING	NAME CAGE ASSEMBLY, BEHIND BEZEL, QSFP, WITH HEAT SINK SIZE CAGE CODE DRAWING NO A100779C-1888968 RESTRICTED TO
MATERIAL	FINISH	WEIGHT CUSTOMER DRAWING	SCALE 4:1 SHEET 5 OF 5 REV B