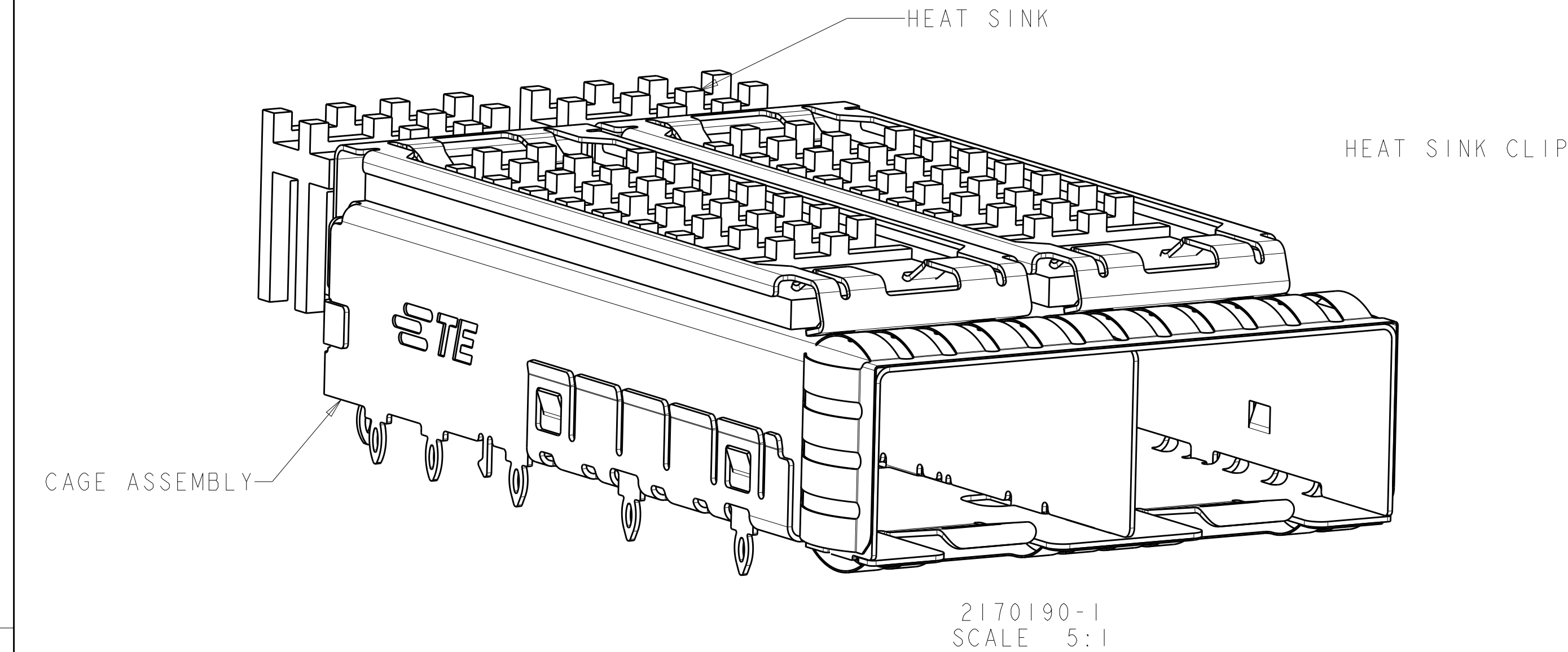
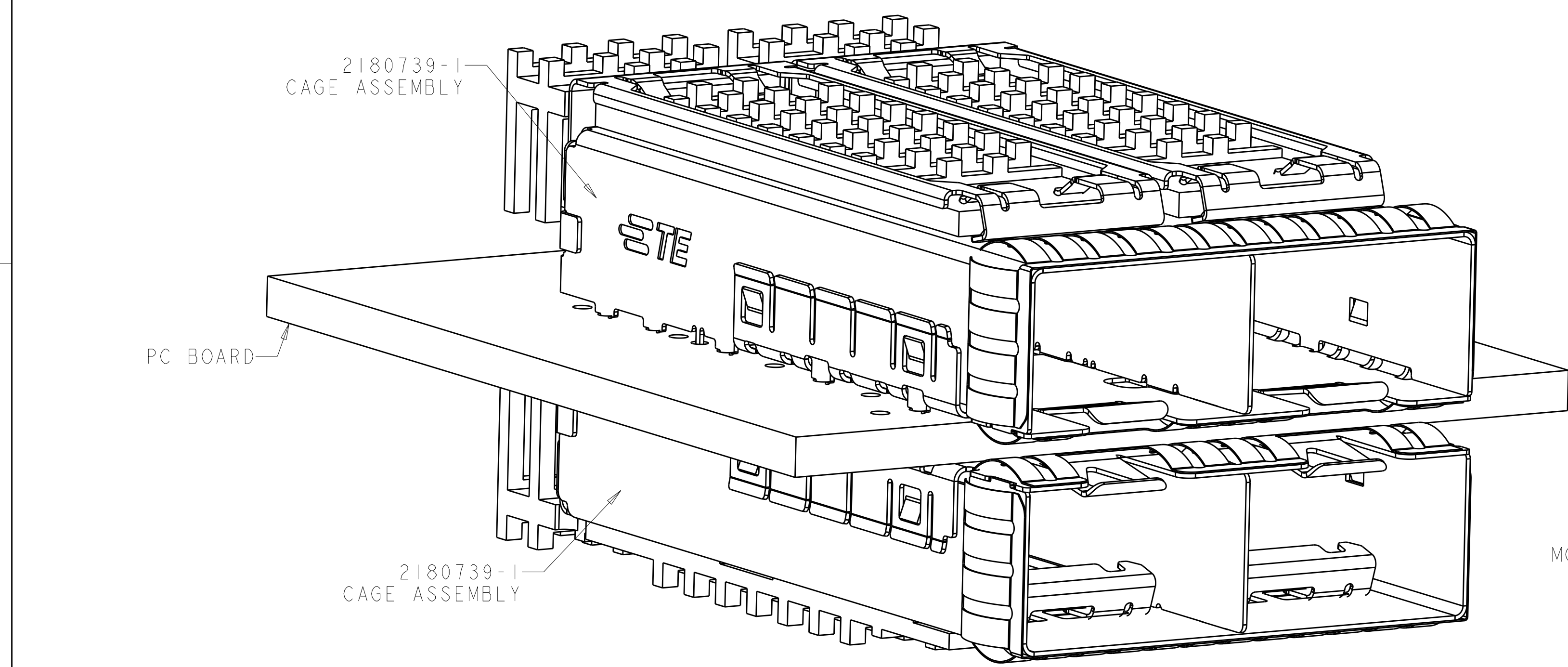
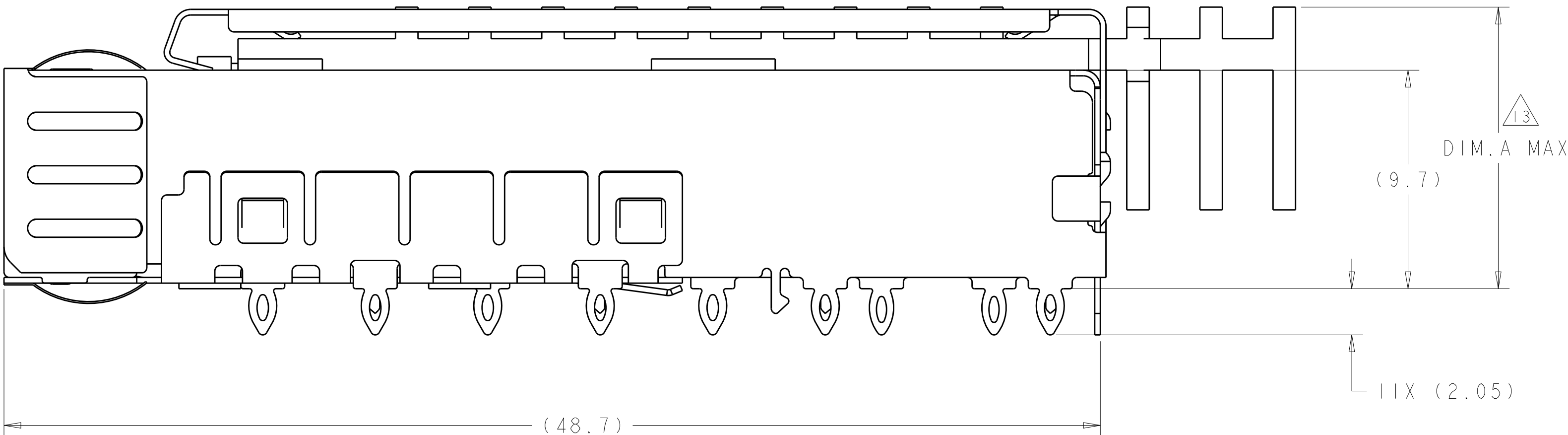
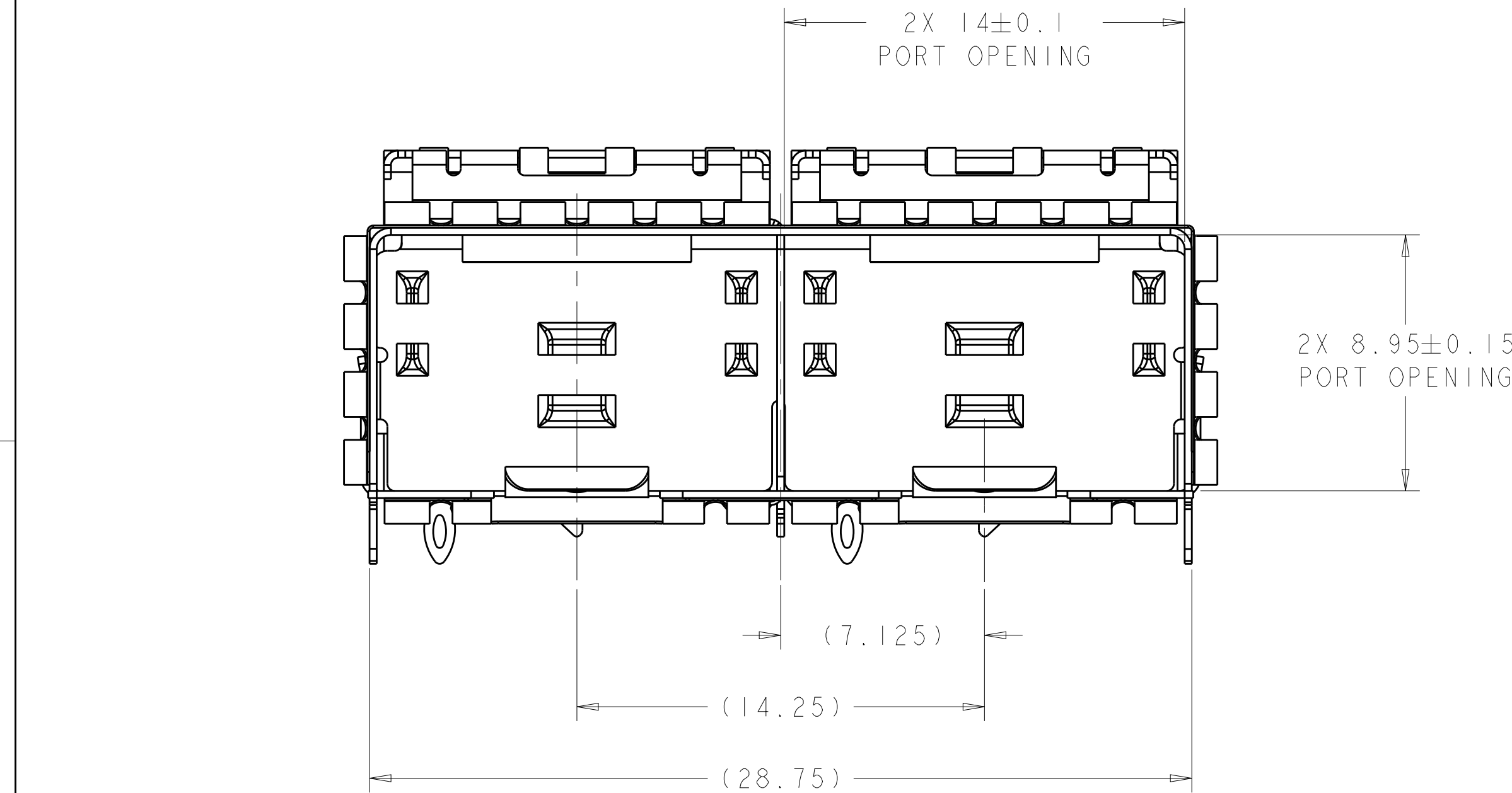


LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			A	PRODUCTION RELEASE	29FEB2016	JW	SH



1. MATERIAL:
CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY
EMI SPRINGS: COPPER ALLOY
HEAT SINK: ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL.
2. FINISH:
2170190-1/-2 HEAT SINK: HARD ANODIC COATING
2170190-3 HEAT SINK: BLACK ANODIZE
HEAT SINK CLIP: PASSIVATE.
3. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
5. PADS AND VIAS CHASSIS GROUND.
5. MATES WITH SFP MSA COMPLIANT RECIEVERS.
6. INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OR ASME Y14.5M-1994.
7. MINIMUM PC BOARD THICKNESS:
SINGLE SIDED: 1.5mm
DOUBLE SIDED: 2.25
8. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm.
9. REFERENCE APPLICATION SPEC. 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
10. REFERENCE APPLICATION SPEC. 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
11. CERTAIN MATING TRANCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD NEED TO BE DETERMINED BY THE CUSTOMER.

12. PRODUCT COMPLIES WITH SPECIFICATION SFF-8433 IMPROVED PLUGGABLE FORM FACTOR FOR SFP+ GANGED CAGES.
13. DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE.
14. PRELIMINARY PART, NO RELEASED TO MASS PRODUCTION

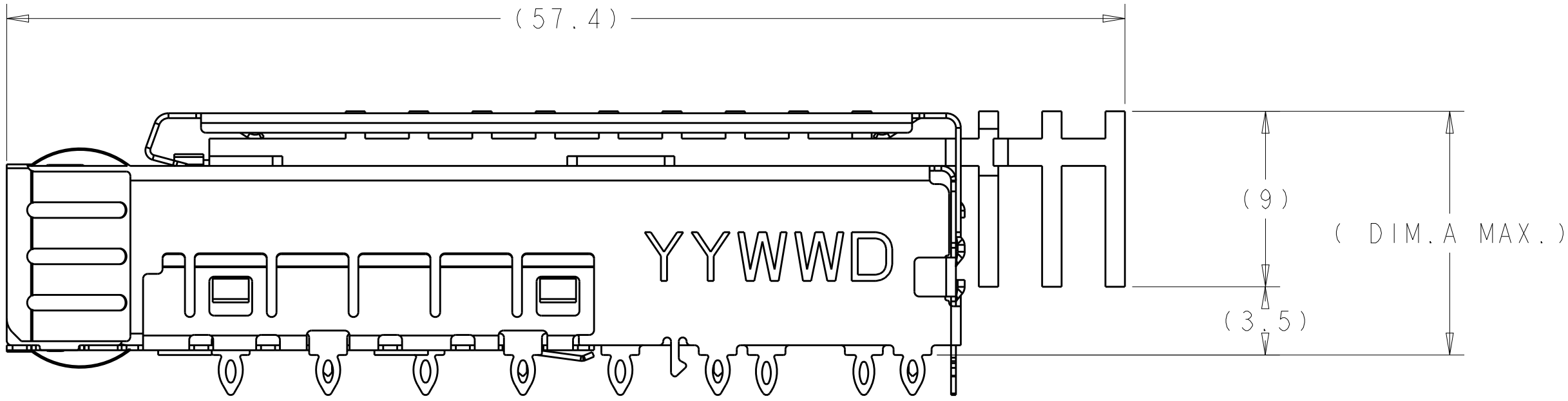


2170190-1
MOUNTED BELLY TO BELLY
SCALE 5:1

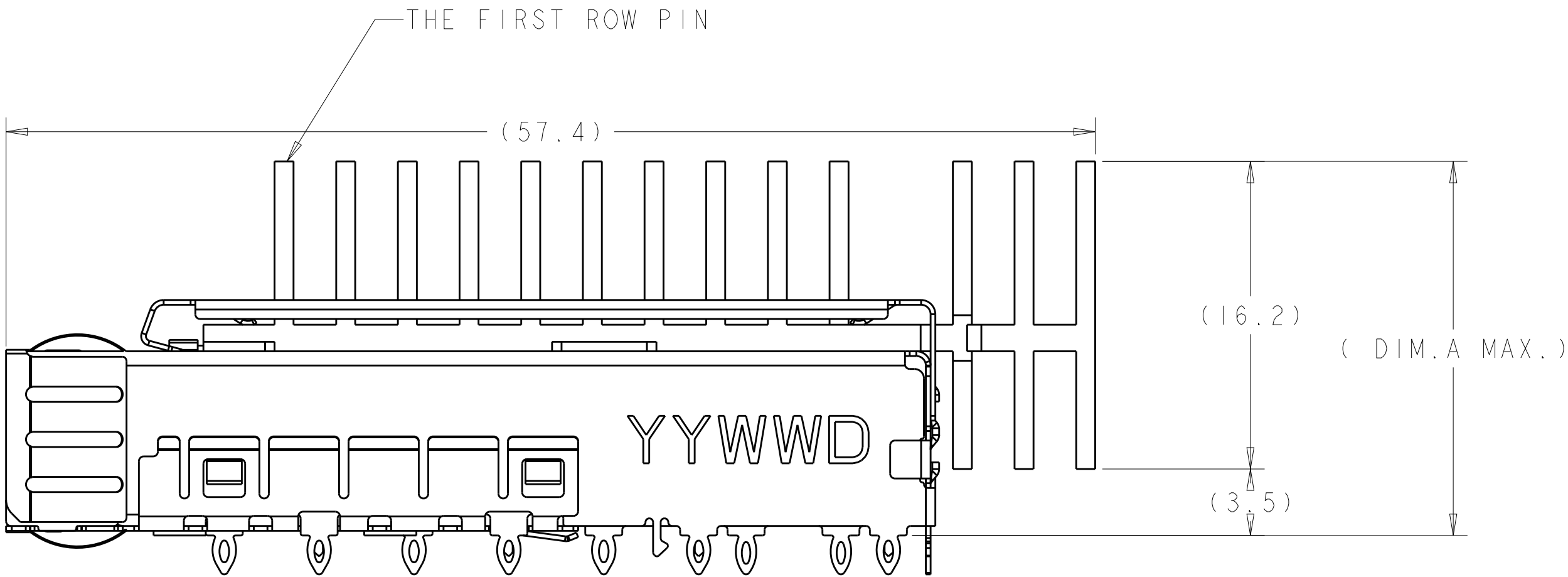
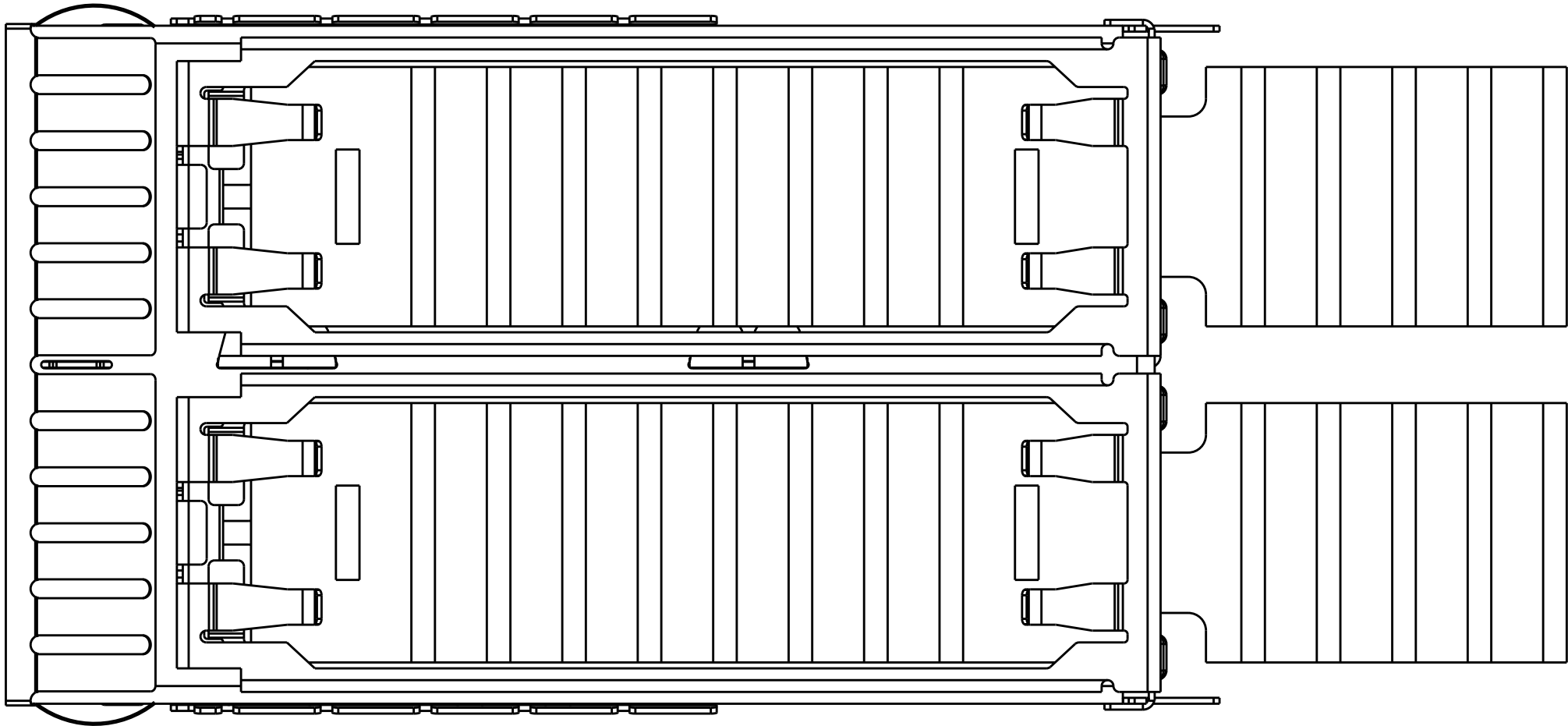
13.10 MAX.(WORKING)	FIN TYPE	HEAT SINK W/ THE FRIST ROW PIN	2170190-3
20.2 Max.	PIN TYPE	HEAT SINK W/ THE FIRST ROW PIN	2170190-2
13 Max.	PIN TYPE	HEAT SINK W/O THE FIRST ROW PIN	2170190-1
A	HEAT SINK	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 21NOV2011	TE Connectivity	
DIMENSIONS:		CHK ALEX CAI 21NOV2011		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEX CAI 21NOV2011	NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK	
mm		PRODUCT SPEC	SIZE	
0 PLC ±0.13		108-2364	CAGE CODE	
1 PLC ±0.1		APPLICATION SPEC	DRAWING NO	
2 PLC ±0.08		114-13120	RESTRICTED TO	
3 PLC ±0.05		WEIGHT	A100779	
4 PLC ±0.05		CUSTOMER DRAWING	SCALE 6:1	
ANGLES			SHEET 1 OF 5	
FINISH			REV A	

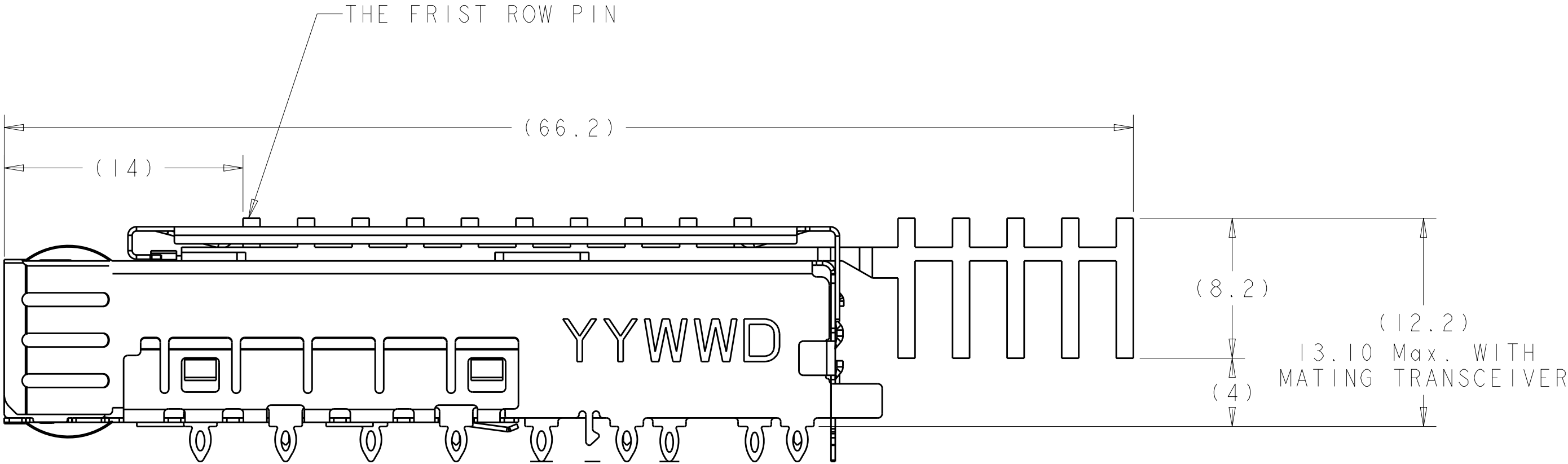
LOC		DIST		REVISIONS				
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD	
		-	-	SEE SHEET 1	-	-	-	



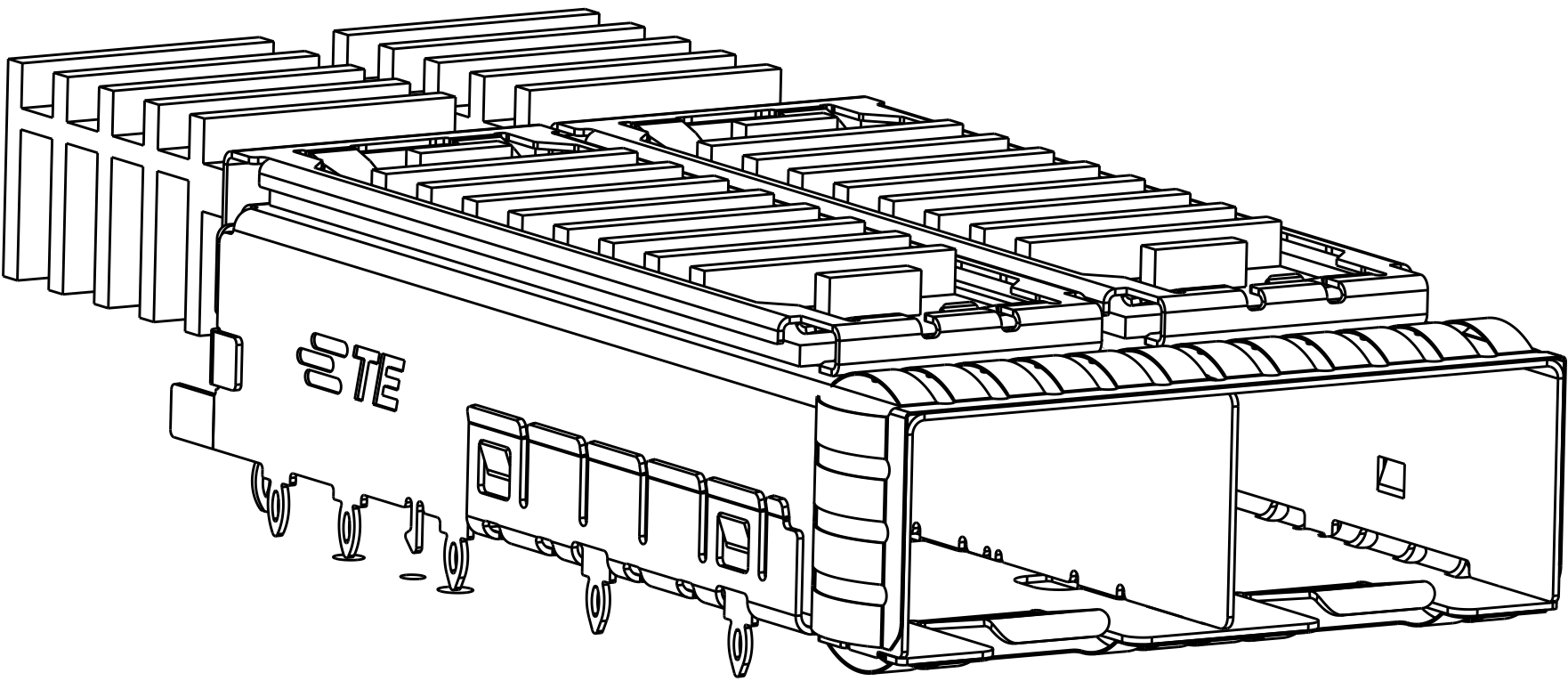
2170190-1 AS SHOWN
HEAT SINK W/O THE FIRST ROW PIN



2170190-2 AS SHOWN

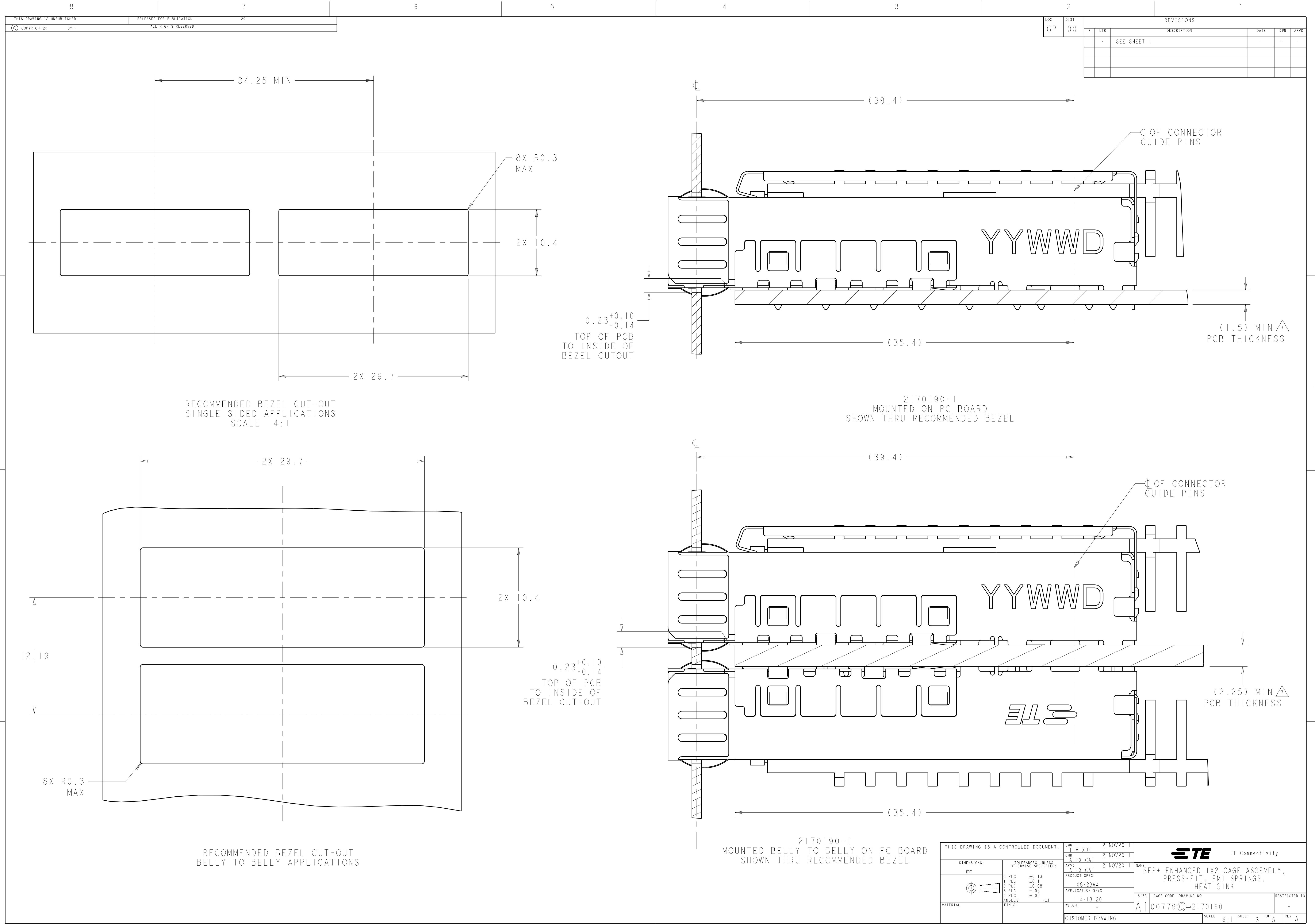


2170190-3 AS SHOWN



2170190-3 AS SHOWN

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: TIM XUE 21NOV2011	 TE Connectivity	
		CHK: ALEX CAI 21NOV2011		
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD: ALEX CAI 21NOV2011	NAME: SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK	
		PRODUCT SPEC: 108-2364	SIZE: A100779	
	0 PLC ±0.13 1 PLC ±0.1 2 PLC ±0.08 3 PLC ±.05 4 PLC ±.05 ANGLES ±.1	APPLICATION SPEC: 114-13120		DRAWING NO: 2170190
		WEIGHT: -	REV: A	
MATERIAL:		CUSTOMER DRAWING		SCALE: 6:1 SHEET 2 OF 5



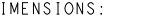
LOC		DIST		REVISIONS			
GP		00		P	LTR	DESCRIPTION	DATE
				-	-	SEE SHEET 1	-

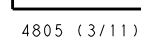
RECOMMENDED BEZEL CUT-OUT
SINGLE SIDED APPLICATIONS
SCALE 4:1

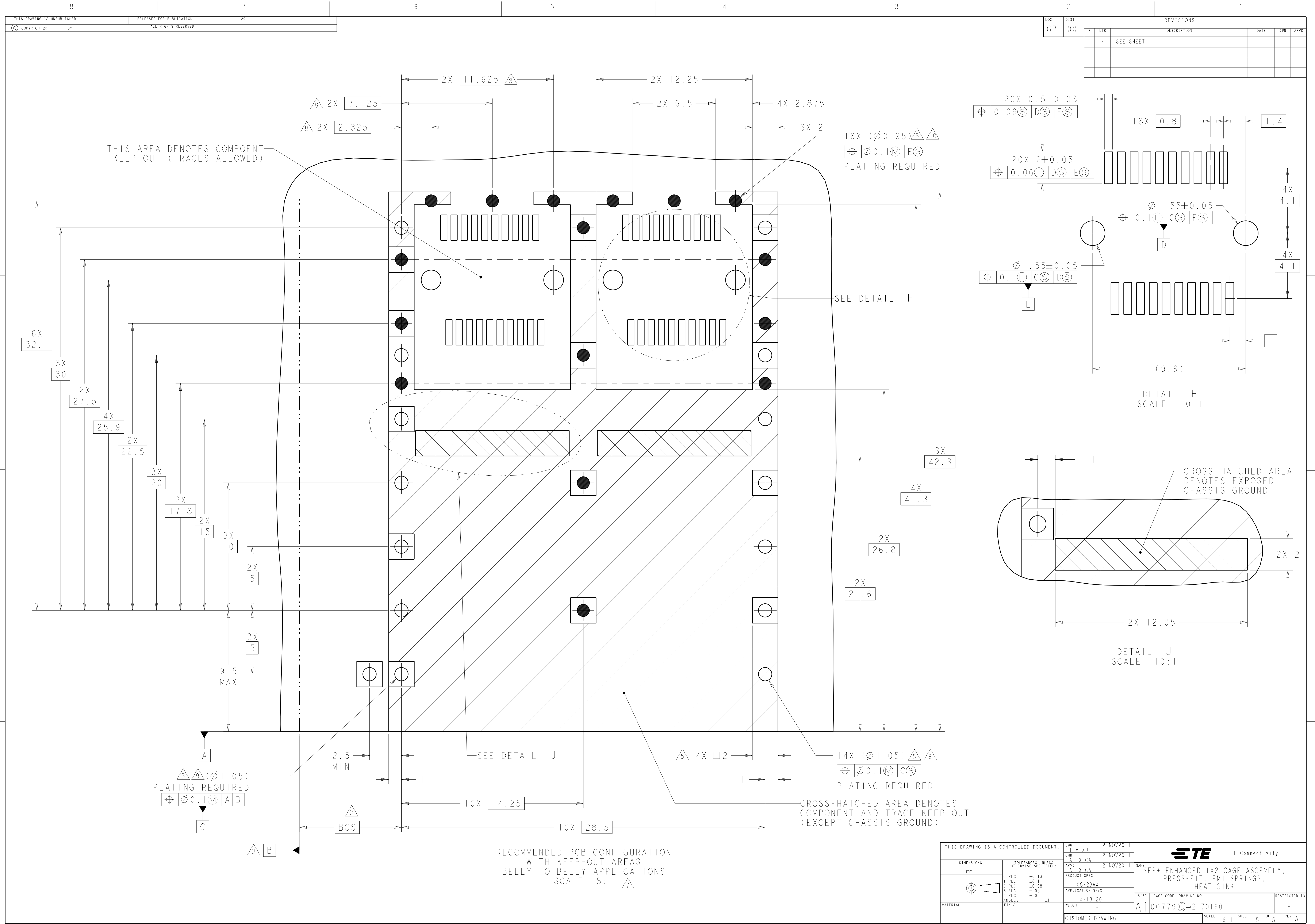
2170190-1
MOUNTED ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

RECOMMENDED BEZEL CUT-OUT
BELLY TO BELLY APPLICATIONS

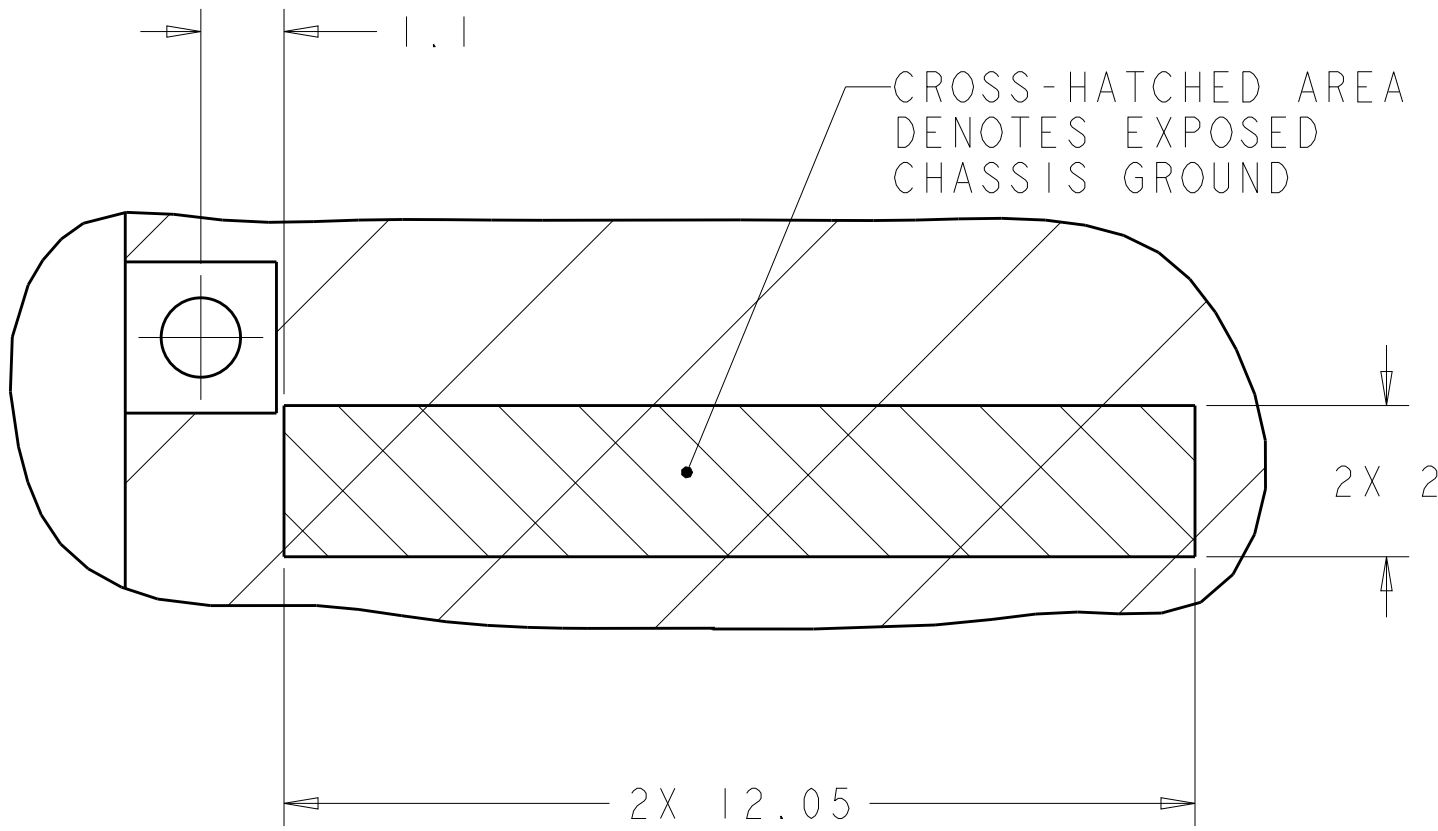
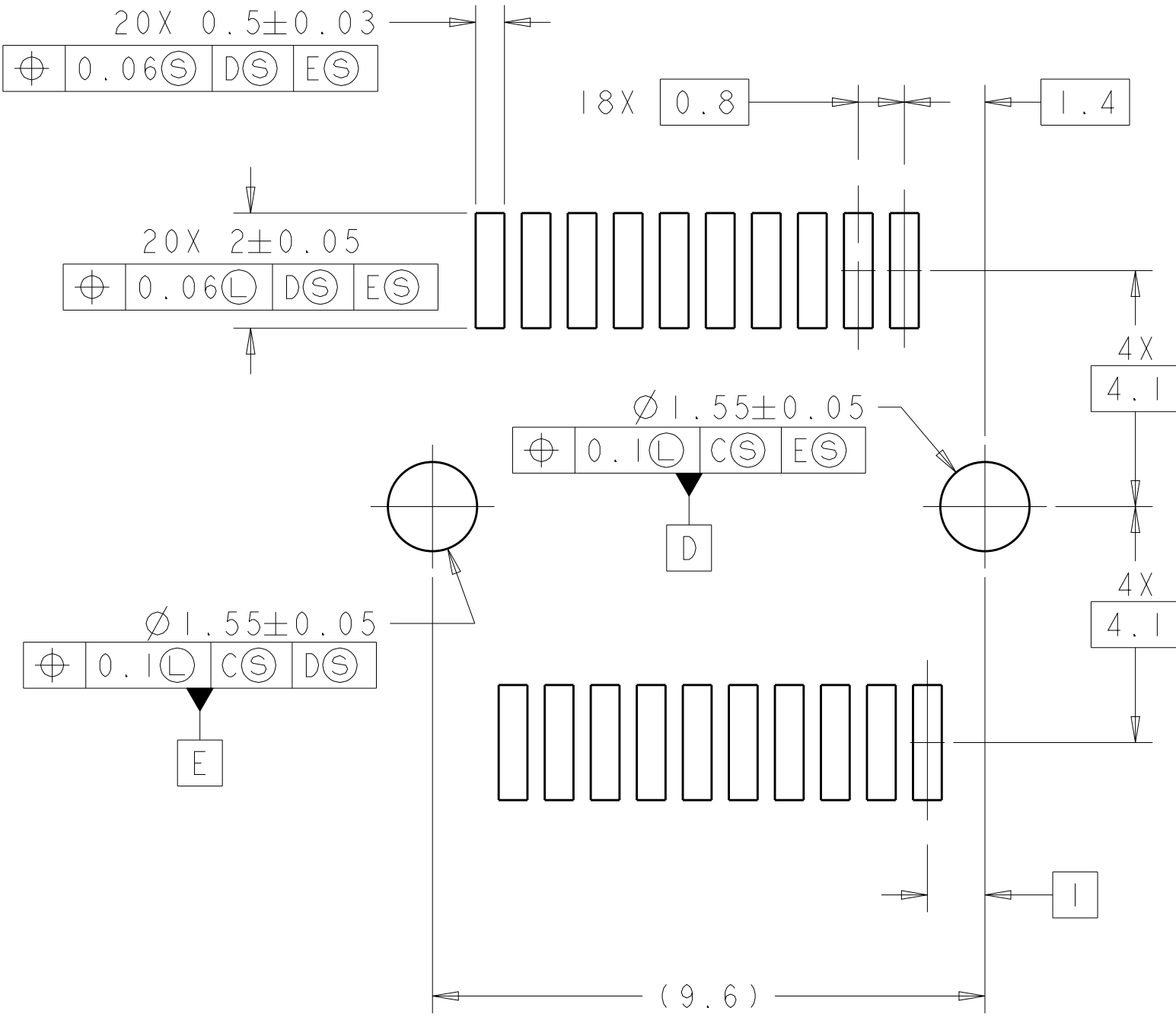
2170190-1
MOUNTED BELLY TO BELLY ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN TIM XUE 21NOV2011		 TE Connectivity	
DIMENSIONS:				CHK ALEX CAI 21NOV2011			
mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEX CAI 21NOV2011		NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK	
		0 PLC ±0.13 1 PLC ±0.1 2 PLC ±0.08 3 PLC ±0.05 4 PLC ±0.05		PRODUCT SPEC 108-2364			
MATERIAL		ANGLES ±1		APPLICATION SPEC 114-13120		SIZE CAGE CODE DRAWING NO A100779C=2170190	
FINISH				WEIGHT -		RESTRICTED TO -	
CUSTOMER DRAWING				SCALE 6:1		SHEET 3 OF 5 REV A	





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



RECOMMENDED PCB CONFIGURATION
WITH KEEP-OUT AREAS
BELLY TO BELLY APPLICATIONS
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	TIM XUE	21NOV2011	 TE Connectivity							
		CHK	ALEX CAI	21NOV2011								
DIMENSIONS:		APVD	ALEX CAI	21NOV2011	NAME SFP+ ENHANCED 1X2 CAGE ASSEMBLY, PRESS-FIT, EMI SPRINGS, HEAT SINK							
mm		PRODUCT SPEC										
		108-2364			SIZE CAGE CODE DRAWING NO							
		APPLICATION SPEC										
		114-13120			RESTRICTED TO -							
		WEIGHT -										
MATERIAL	FINISH	CUSTOMER DRAWING			SCALE	6:1	SHEET	5	OF	5	REV	A