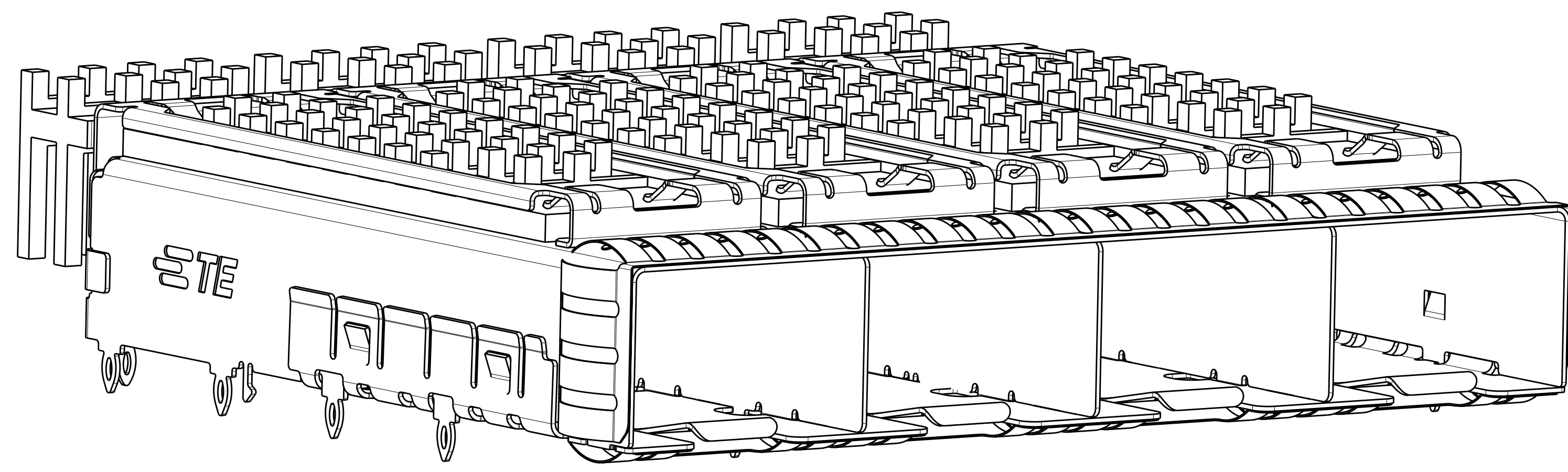
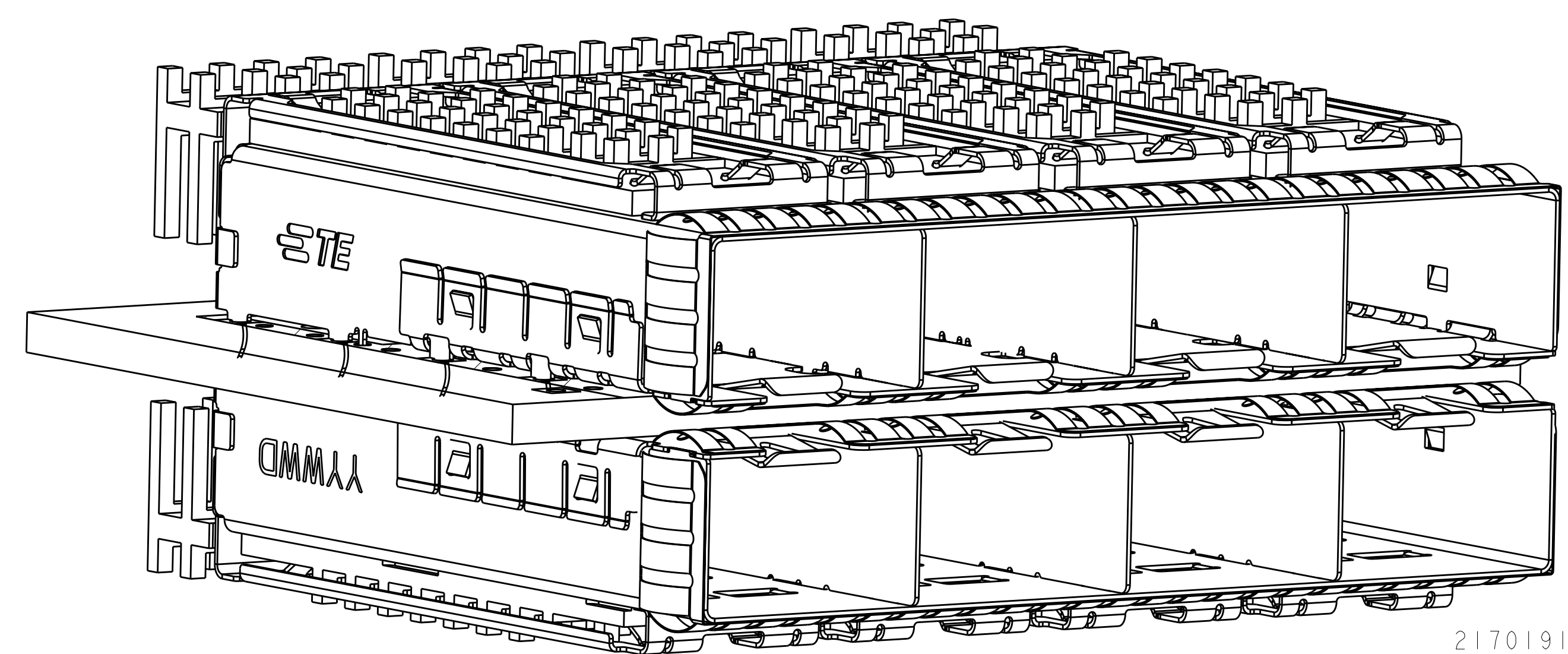
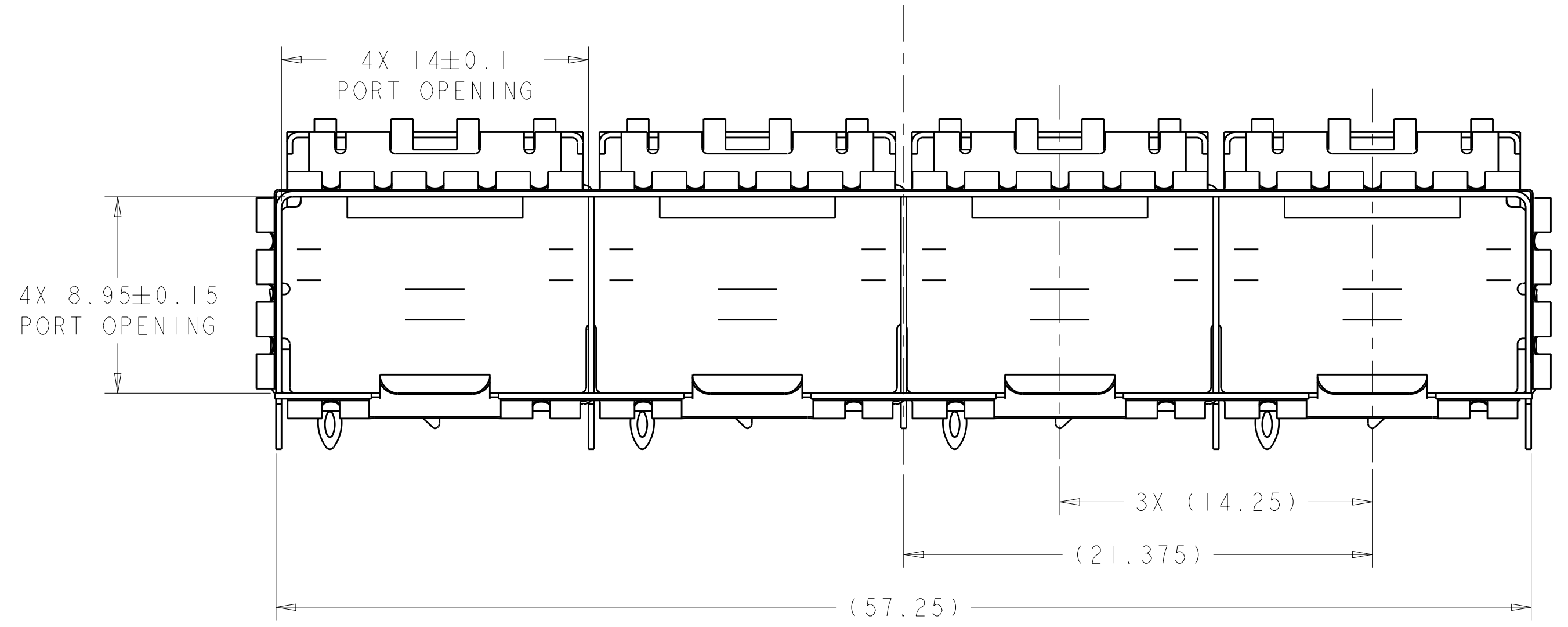
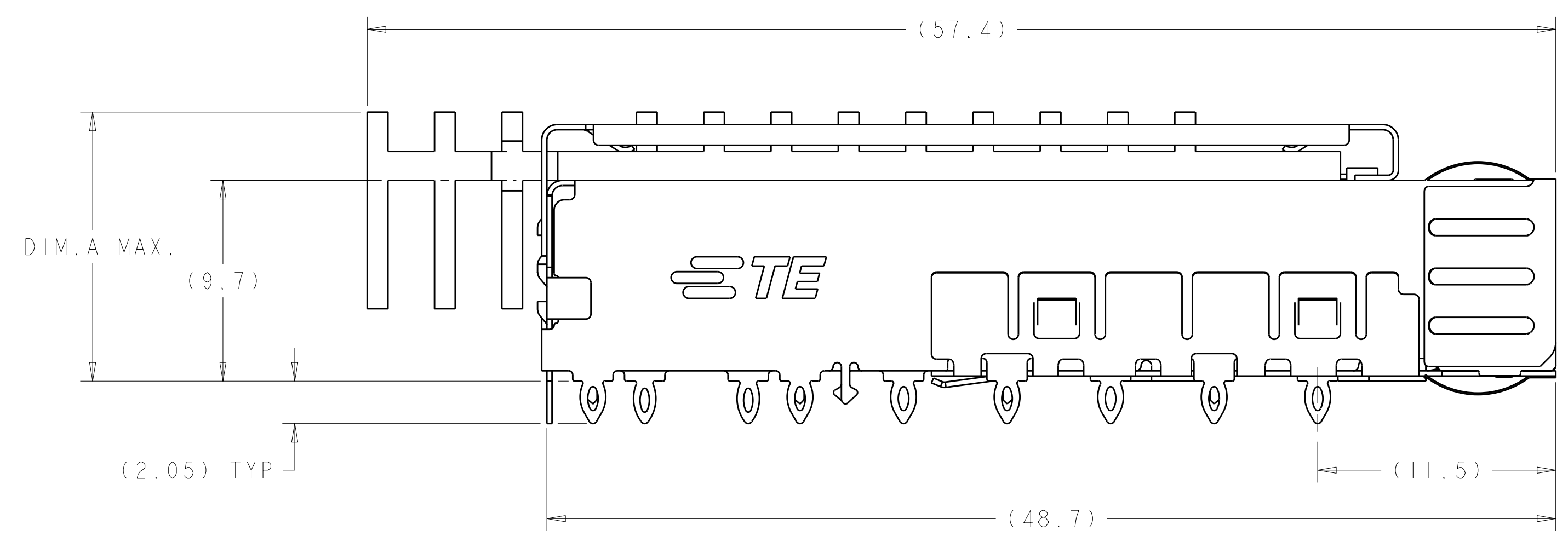


LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPD
		1	23NOV2011	TX	AC
		2	21DEC2011	TX	AC



2170191-1
FINISHED ASSEMBLY

- 1 MATERIAL:
CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY
HEATSINK CLIP: STAINLESS STEEL
HEATSINK: ALUMINUM
- 2 FINISH:
SPRINGS: MINIMUM OF 0.8um TIN PLATE OVER A MINIMUM OF 0.8um NICKEL UNDERPLATE.
NON-PLATED EDGES PERMISSIBLE.
HEATSINK: ELECTROLESS NICKEL
HEATSINK CLIP: PASSIVATE
- 3 PADS AND VIAS CHASSIS GROUND.
- 4 DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- 5 MATES WITH SFP MSA COMPLIANT TRANSCEIVERS.
- 6 INTERPRETATION OF DATUM REFERENCE FRAME IN ACCORDANCE WITH SECT 4.4.1.1 OF ASME Y14.5M-1994.
- 7 REFERENCE APPLICATION SPEC. 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 8 REFERENCE APPLICATION SPEC. 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- 9 HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 14.25mm.
- 10 MINIMUM PCB BOARD THICKNESS:
SINGLE SIDED = 1.50
DOUBLE SIDED = 2.25
- 11 CERTAIN MATING TRANSCEIVERS MAY REQUIRE ADDITIONAL PCB THICKNESS THAT WOULD 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



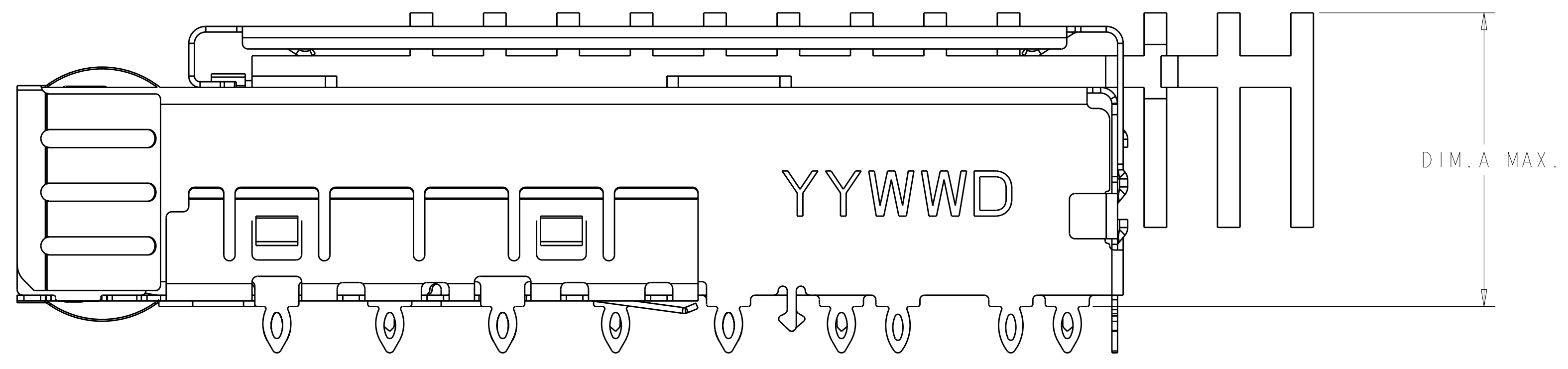
2170191-1
MOUNTED BELLY TO BELLY ON PCB
SCALE 4:1

A MAX	DESCRIPTION	PART NUMBER
20.2	HEAT SINK W/ THE FIRST ROW PIN	2170191-2
13	HEAT SINK W/O THE FIRST ROW PIN	2170191-1

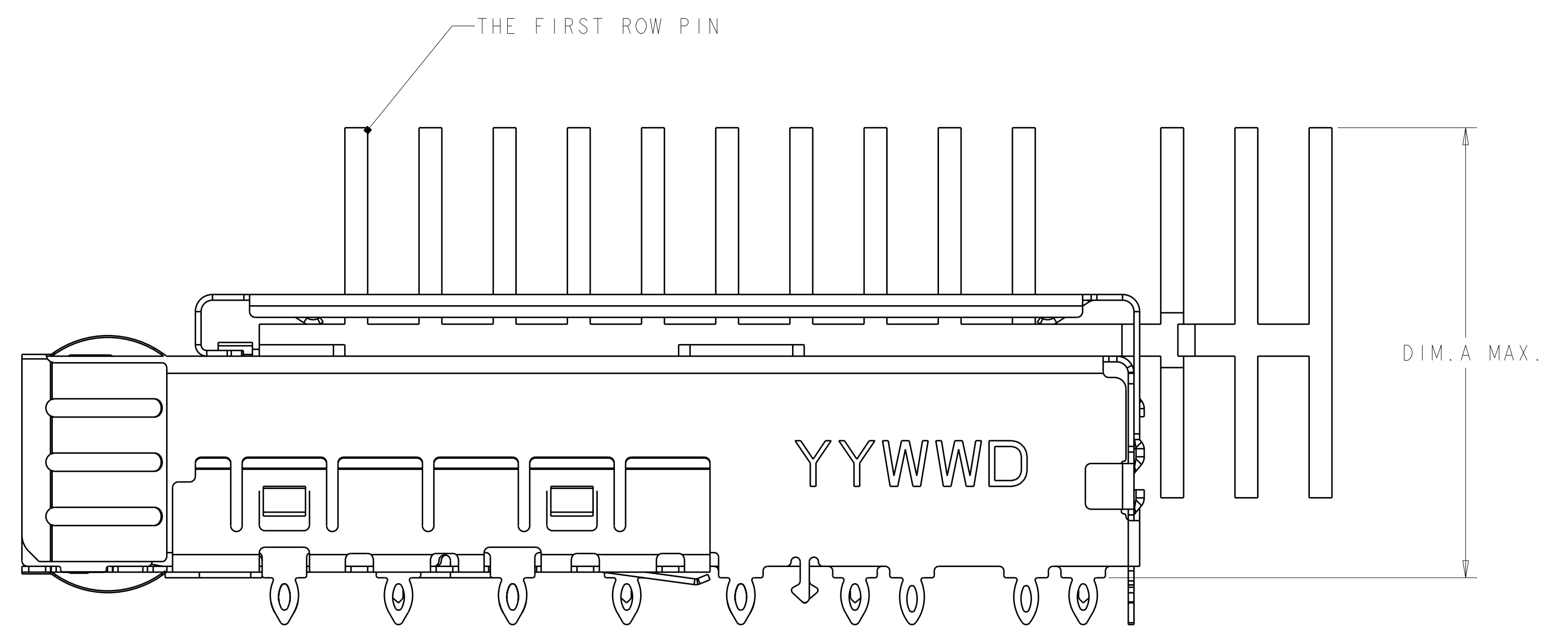
THIS PRINT IS
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CONTACT PRODUCT ENGINEERING
BEFORE USING THIS PRINT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN TIM XUE 23NOV2011	TE Connectivity
DIMENSIONS: mm		CHK ALEX CAI 23NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD ALEX CAI 23NOV2011	NAME SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
9 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±0.1°		PRODUCT SPEC 108-2364 APPLICATION SPEC 114-13120	
MATERIAL		WEIGHT	SIZE CAGE CODE DRAWING NO A100779C=2170191
FINISH		CUSTOMER DRAWING	RESTRICTED TO SCALE 5:1 SHEET 1 OF 5 REV 2

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



2170191-1 AS SHOWN
 HEAT SINK W/O THE FIRST ROW PIN

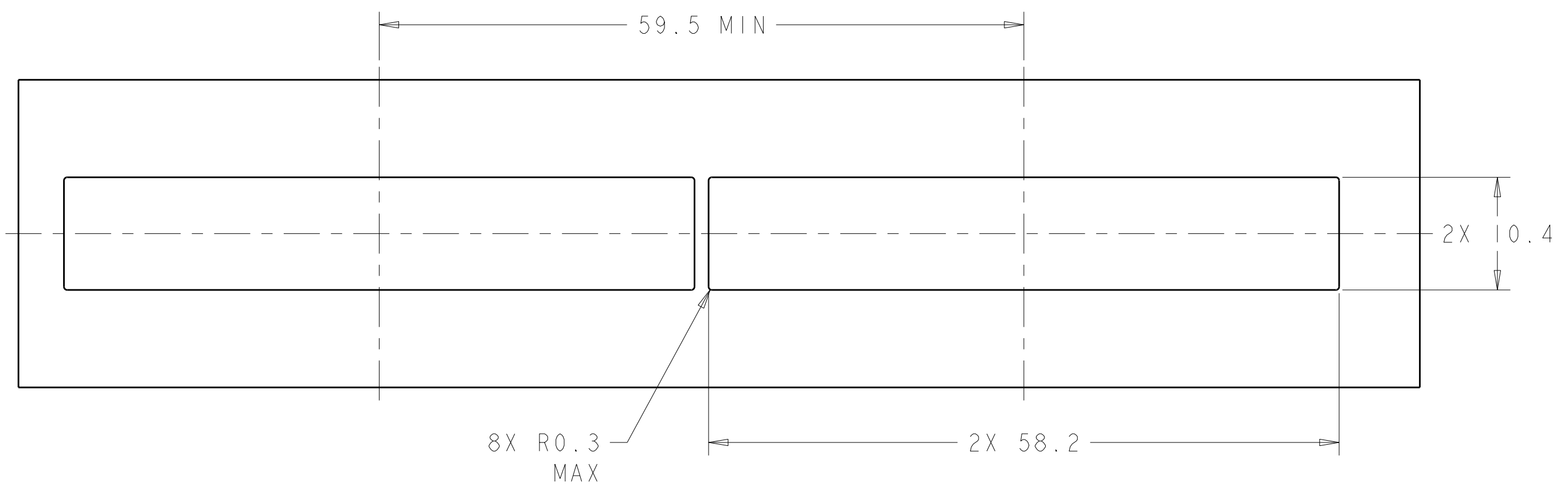


2170191-2 AS SHOWN

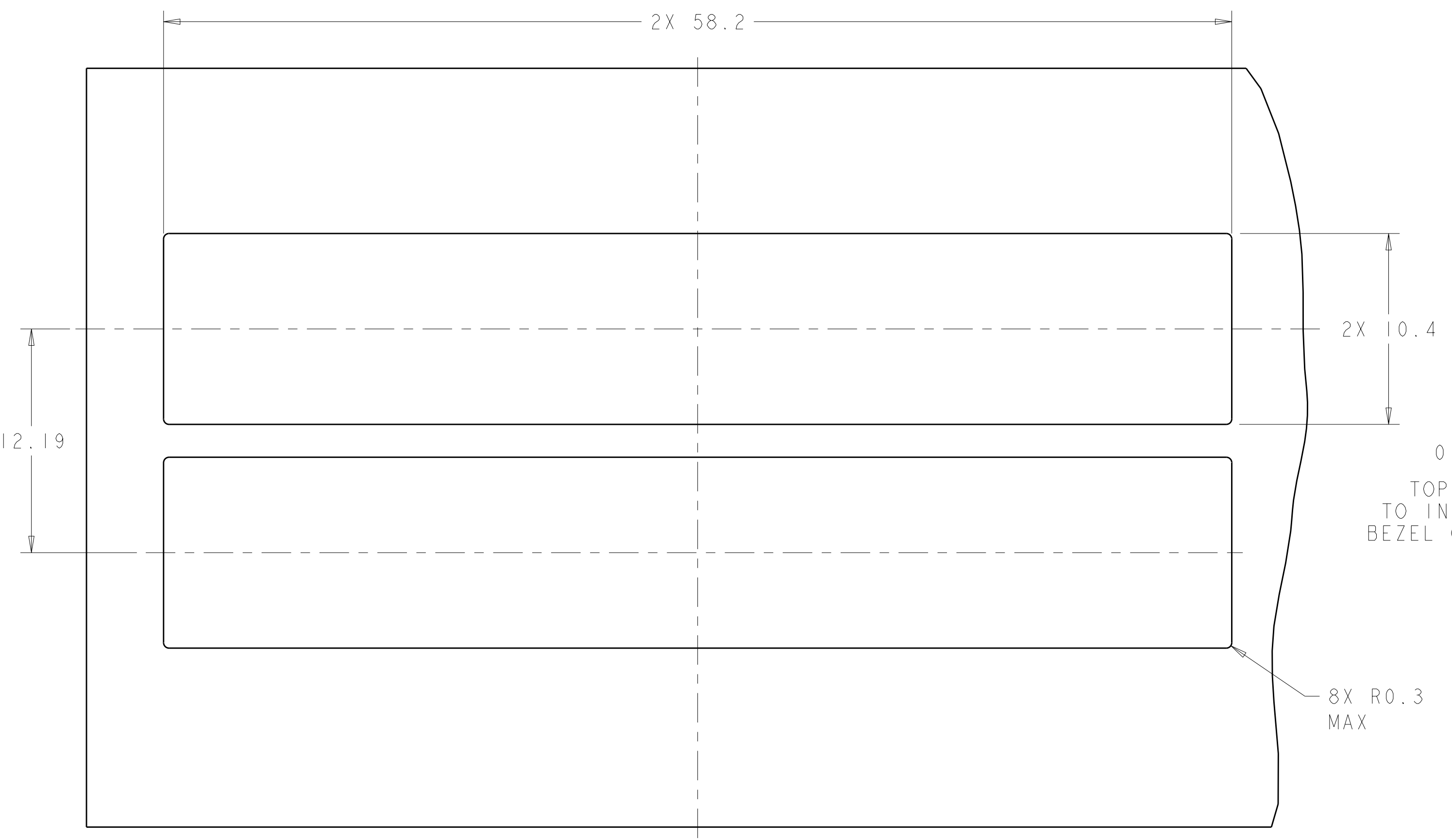
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: TIM_XUE 23NOV2011 CHK: ALEX_CAI 23NOV2011 APVD: ALEX_CAI 23NOV2011	TE Connectivity
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120	
MATERIAL: FINISH	WEIGHT: - CUSTOMER DRAWING	SIZE: A100779 CAGE CODE: C=2170191 RESTRICTED TO: -	SCALE: 5:1 SHEET: 2 OF 5 REV: 2

LOC	DIST	REV	DATE	BY	APPD
GP	00				

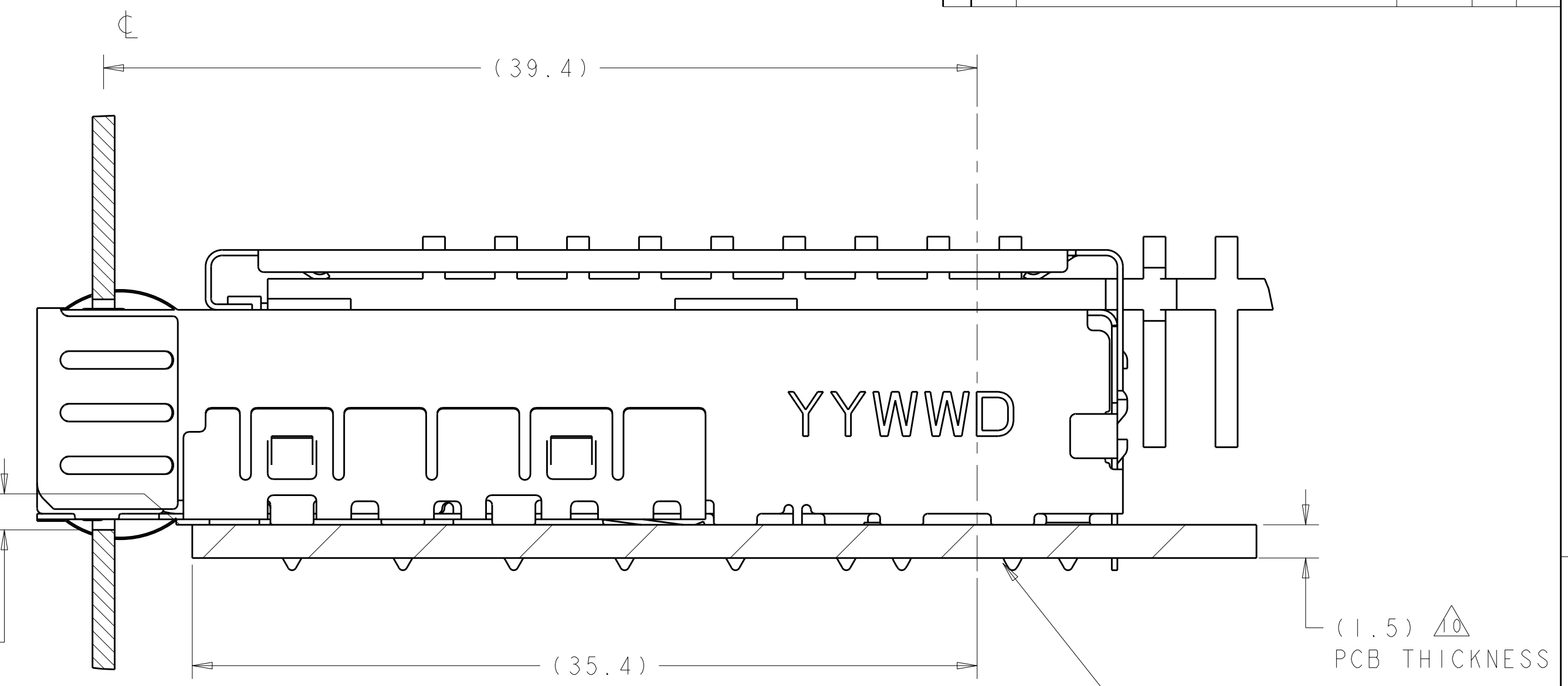
REV	DESCRIPTION	DATE	BY	APPD
-	SEE SHEET 1	-	-	-



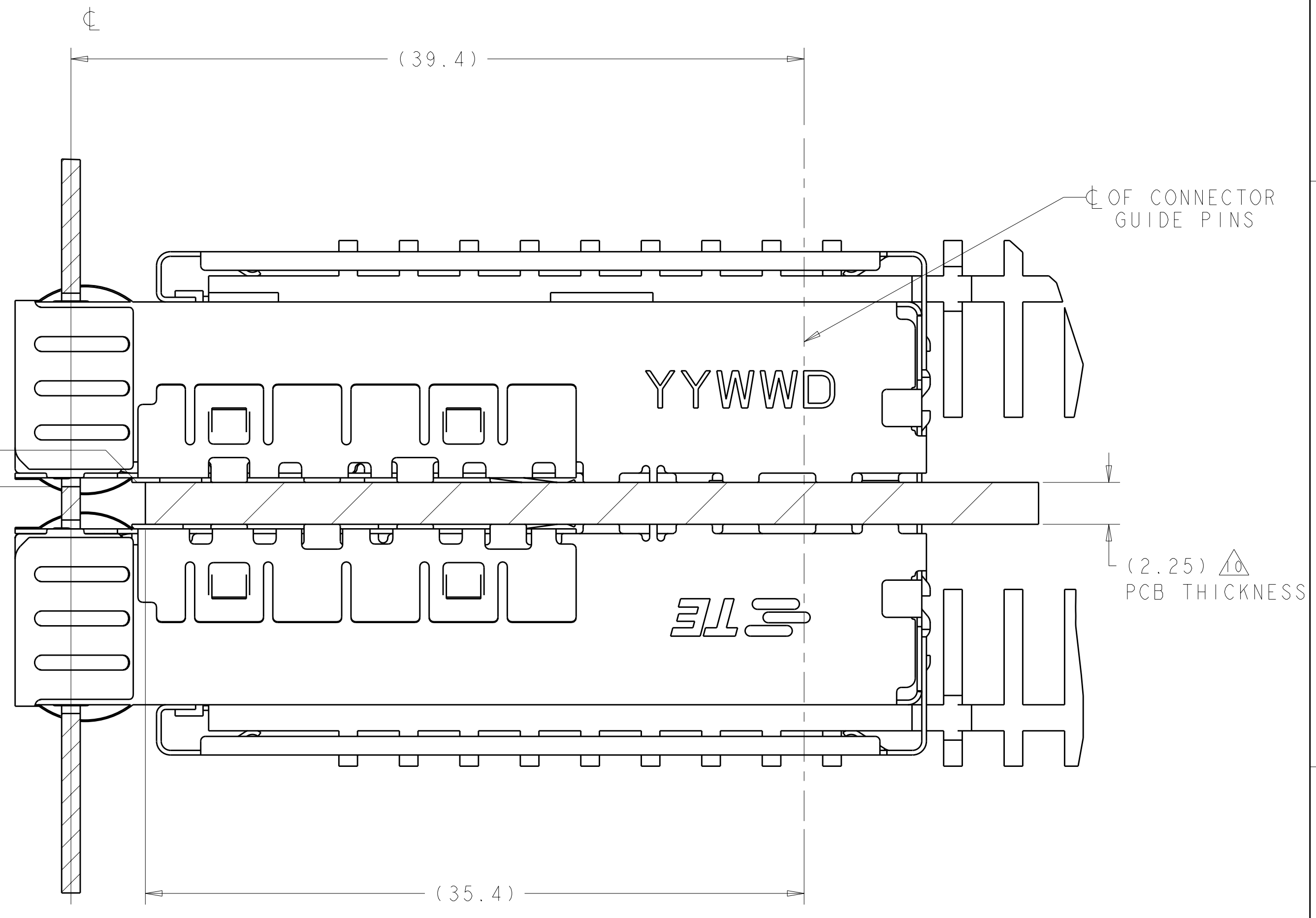
RECOMMENDED BEZEL CUT-OUT
SINGLE SIDED APPLICATIONS
SCALE 5:2



RECOMMENDED BEZEL CUT-OUT
BELLY TO BELLY APPLICATIONS



2149730
MOUNTED ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL



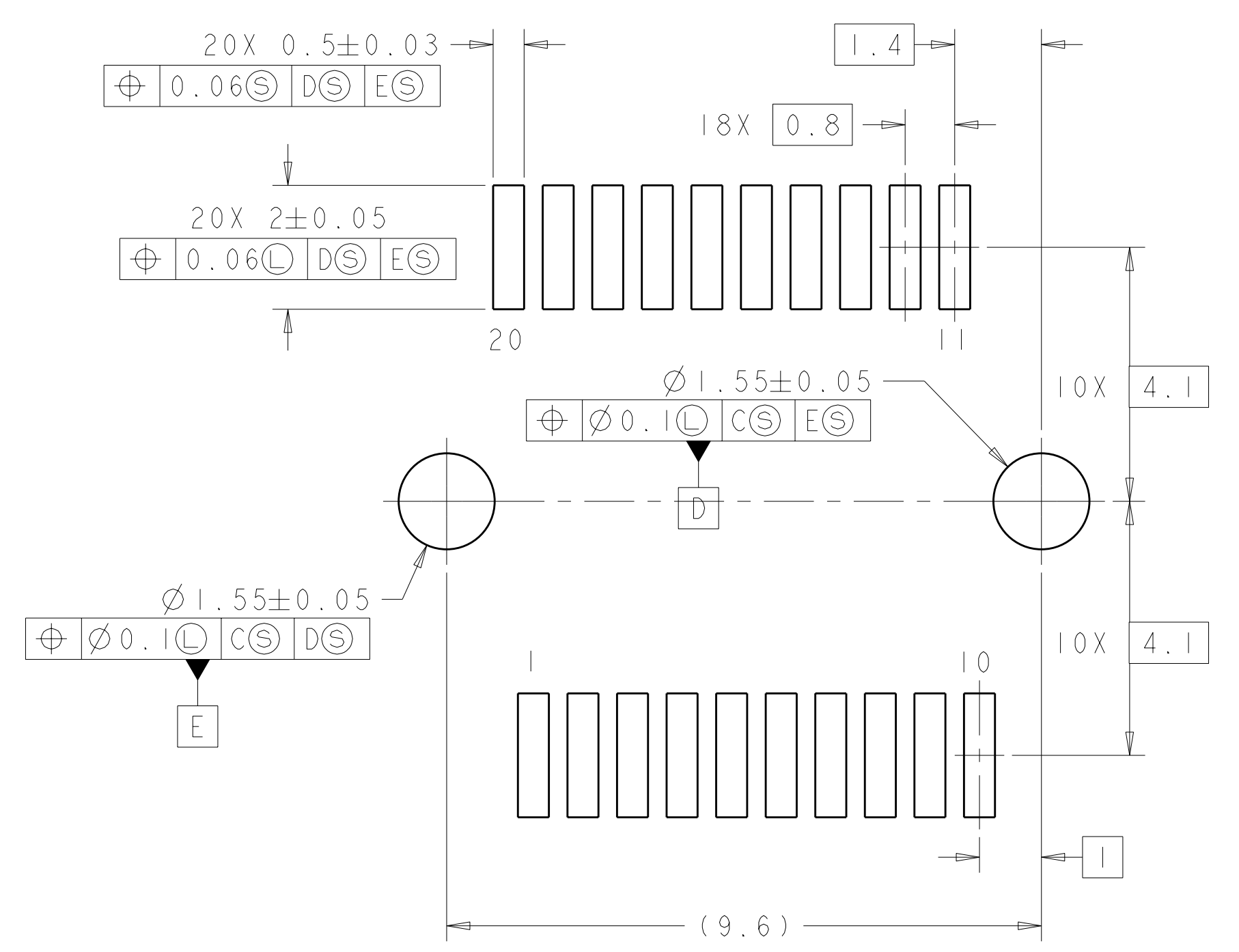
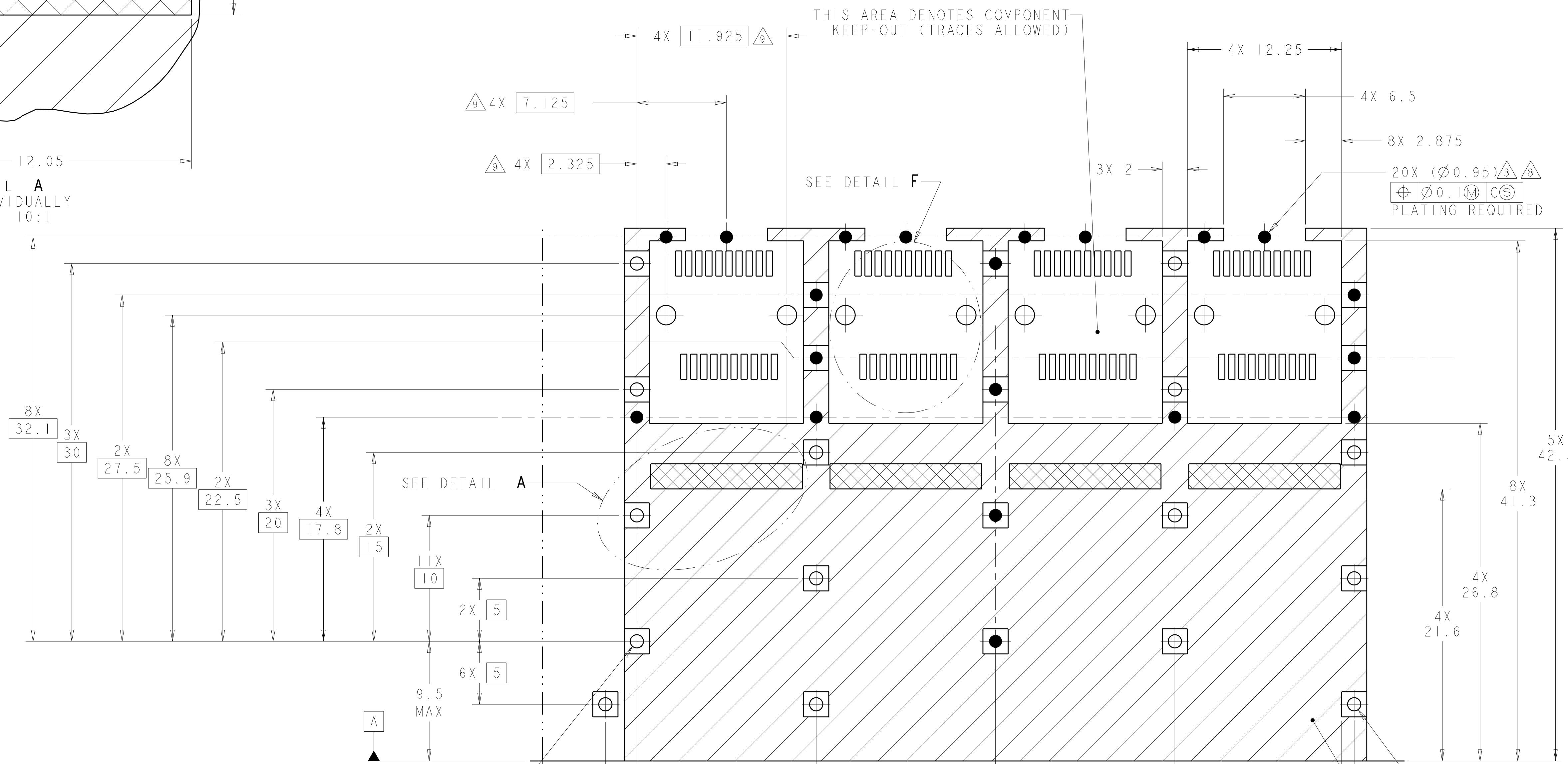
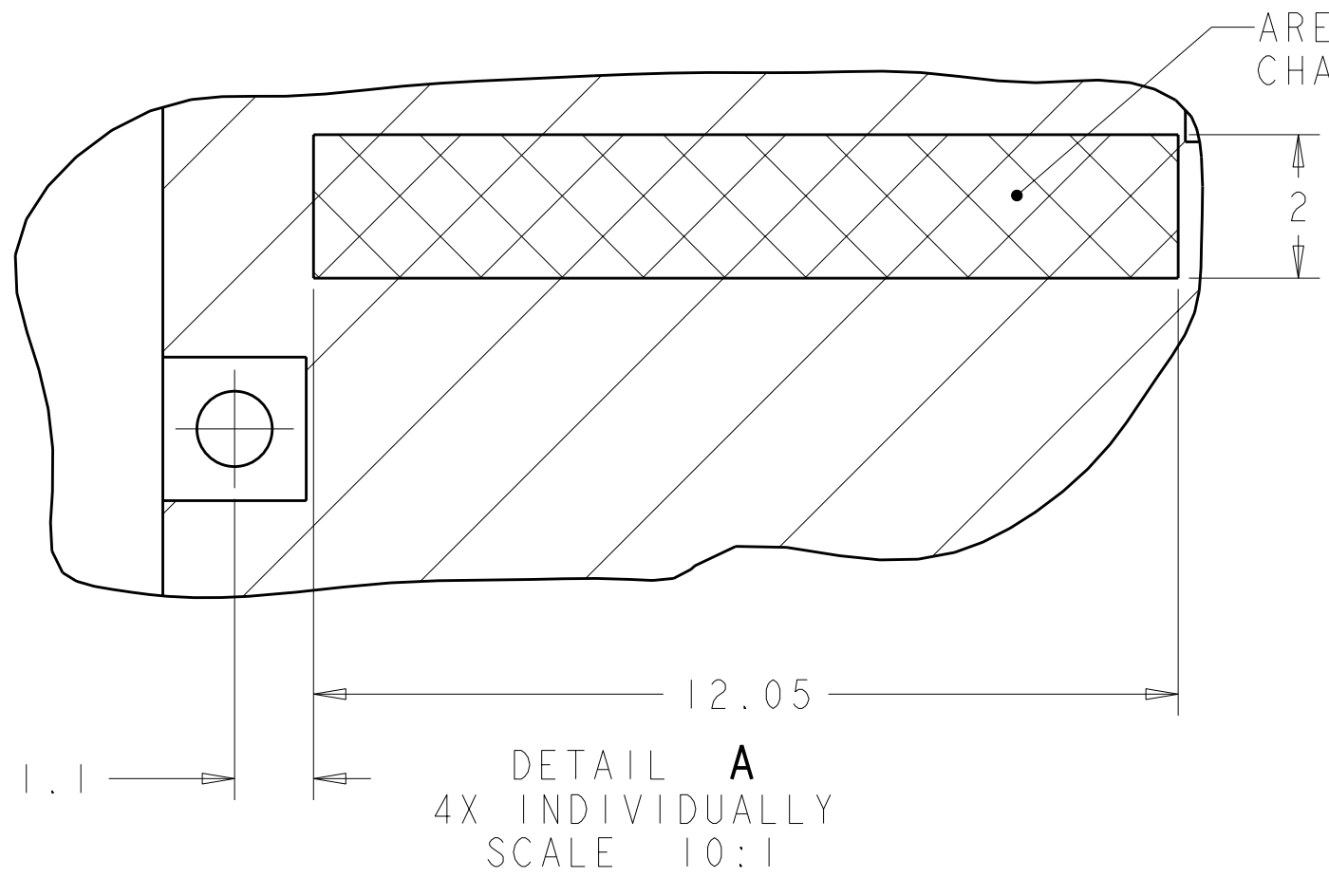
2149730
MOUNTED BELLY TO BELLY ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

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THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN	TIM_XUE	23NOV2011
DIMENSIONS:		CHK	ALEX_CAI	23NOV2011
mm		APPD	ALEX_CAI	23NOV2011
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	108-2364	
9 PL	±0.1	APPLICATION SPEC	114-13120	
2 PL	±0.1	WEIGHT		
3 PL	±0.1	CUSTOMER DRAWING		
5 PL	±0.1			
4 PL	±0.1			
ANGLES	±1°			
MATERIAL		SIZE	CAGE CODE	DRAWING NO
FINISH		A100779	C=2170191	
		SCALE	5:1	SHEET 3 OF 5
		REV	2	

LOC	DIST	REV	DATE	BY	APPD
GP	00				

REV	DATE	BY	APPD	DESCRIPTION
-	-	-	-	SEE SHEET 1



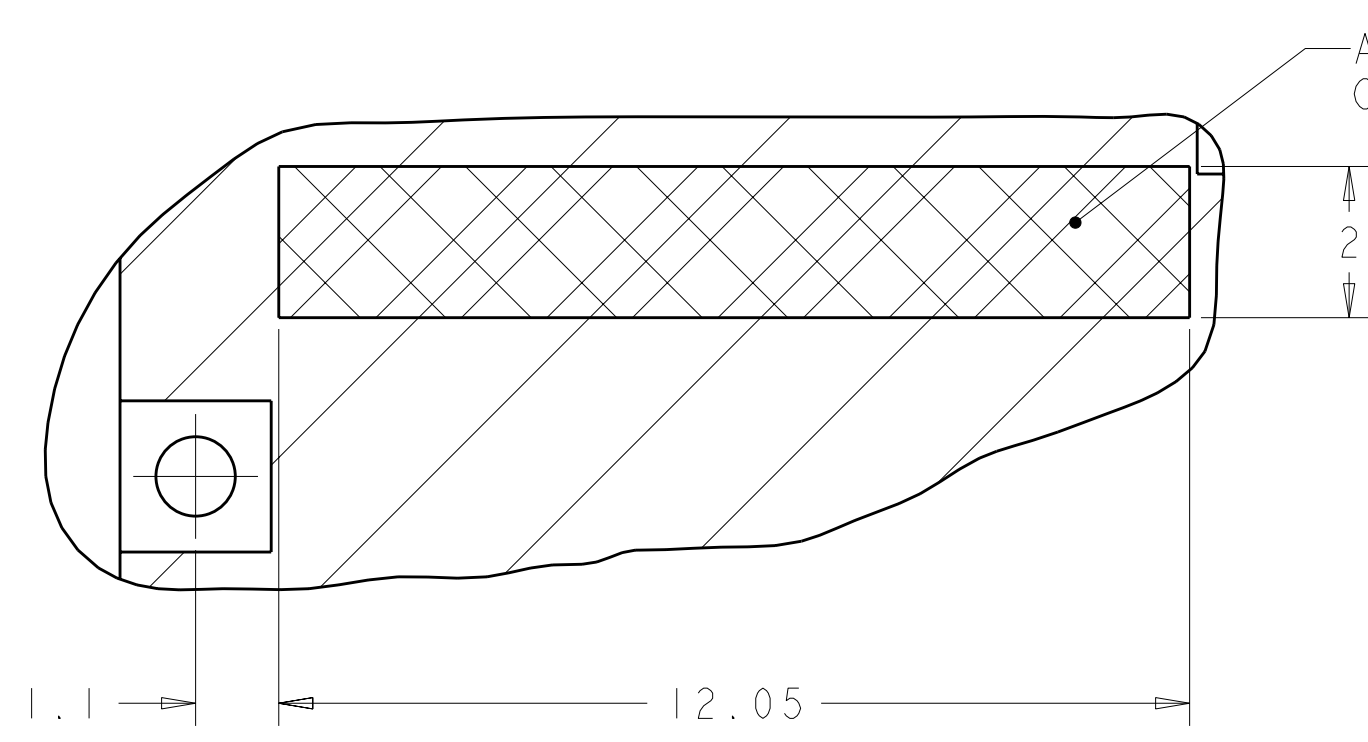
RECOMMENDED PCB CONFIGURATION WITH KEEP-OUT AREAS
SINGLE SIDED APPLICATIONS
SCALE 5:1

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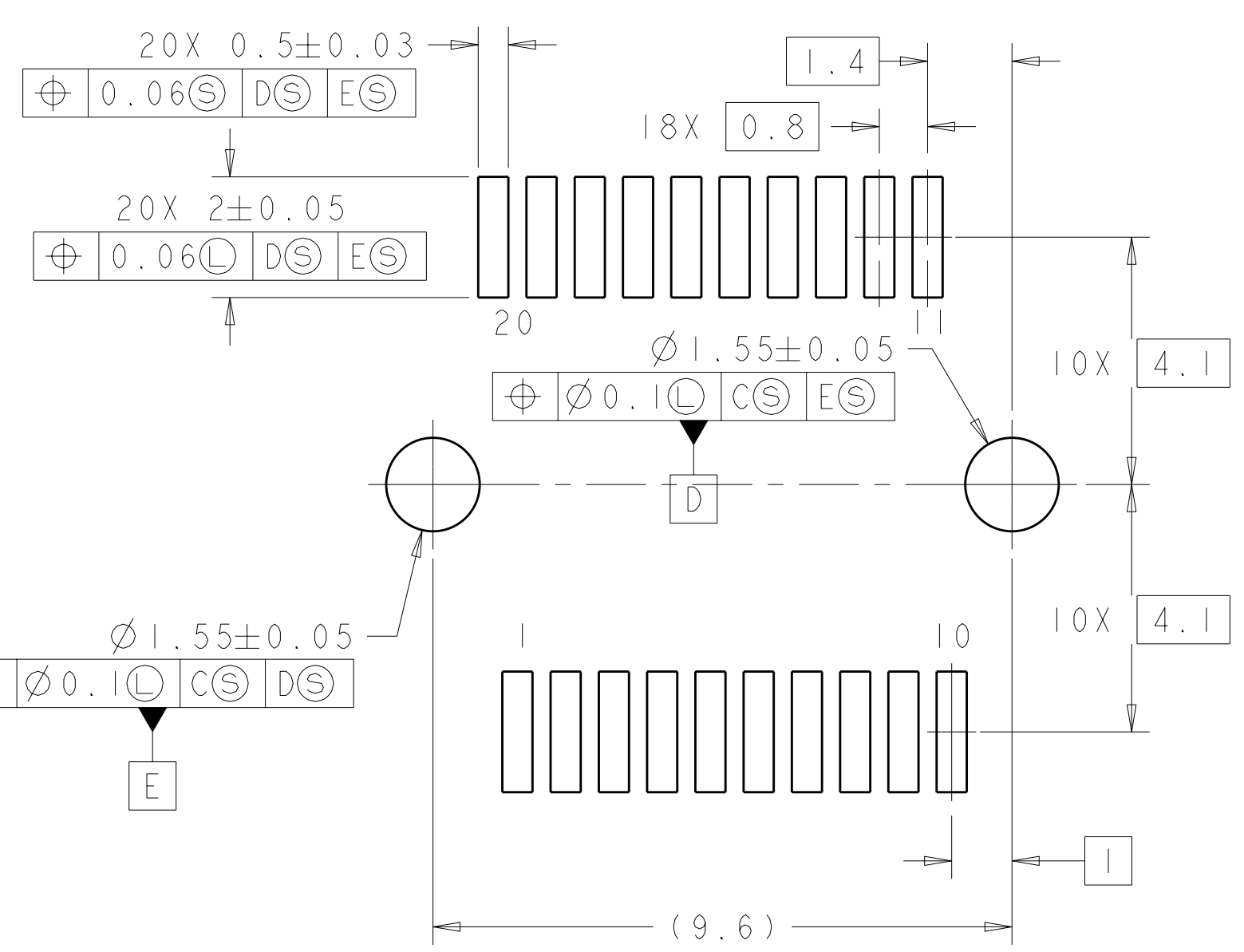
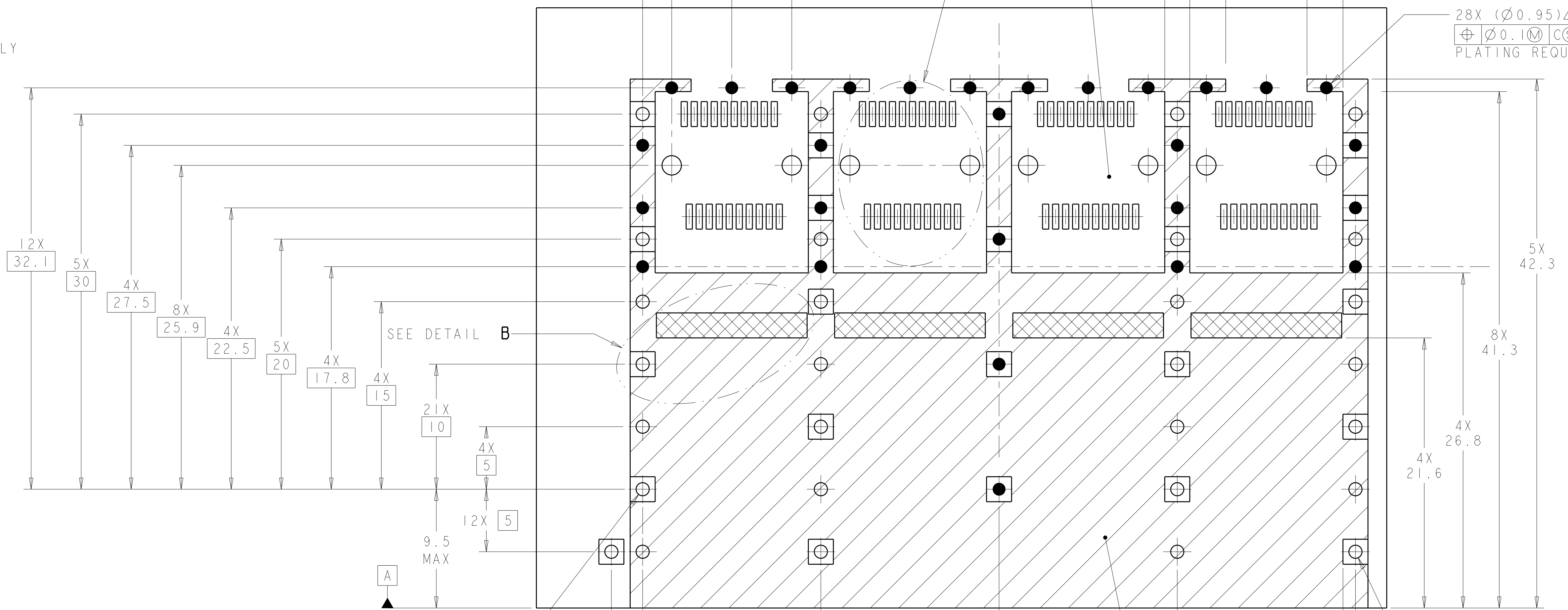
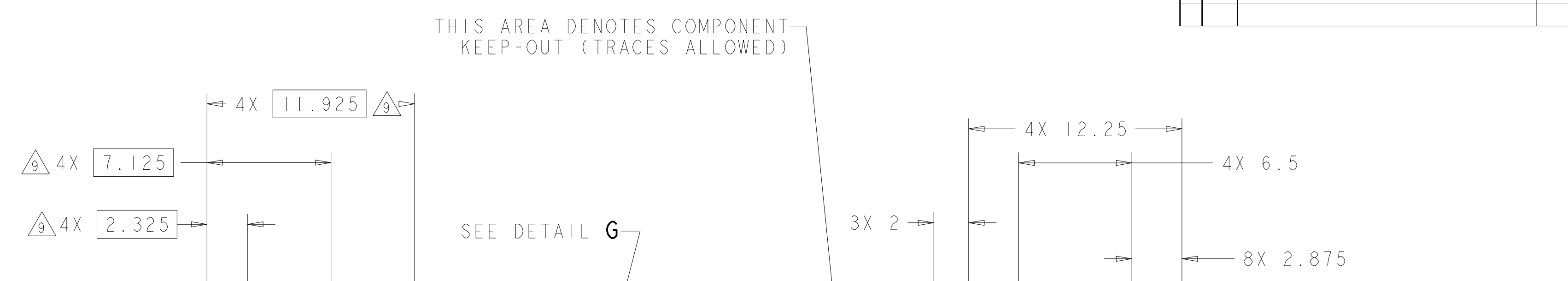
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: TIM XUE 23NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 23NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 23NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 WEIGHT: - CUSTOMER DRAWING
9 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		SIZE: CAGE CODE DRAWING NO: A100779C=2170191 RESTRICTED TO: -	
MATERIAL: △		FINISH: △	
SCALE: 5:1		SHEET: 4 OF 5	

LOC	DIST	REV	DATE	BY	APPD
GP	00				

REVISIONS		DATE	BY	APPD
1	SEE SHEET 1			



DETAIL B
4X INDIVIDUALLY
SCALE 10:1



DETAIL G
RECOMMENDED PT CONNECTOR LAYOUT
8X INDIVIDUALLY
SCALE 10:1

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RECOMMENDED PCB CONFIGURATION
WITH KEEP-OUT AREAS
BELLY TO BELLY APPLICATIONS
SCALE 5:1

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 23NOV2011	STE TE Connectivity
DIMENSIONS: mm		DRW: TIM_XUE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK: ALEX_CAI	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
Ø 0.1		APPD: ALEX_CAI	
9 PLC ±0.1		PRODUCT SPEC	SIZE: CAGE CODE DRAWING NO. RESTRICTED TO
1 PLC ±0.1		108-2364	
3 PLC ±0.1		APPLICATION SPEC	A100779C-2170191
4 PLC ±0.1		WEIGHT	
ANGLES ±1°		CUSTOMER DRAWING	SCALE: 5:1 SHEET 5 OF 5 REV 2