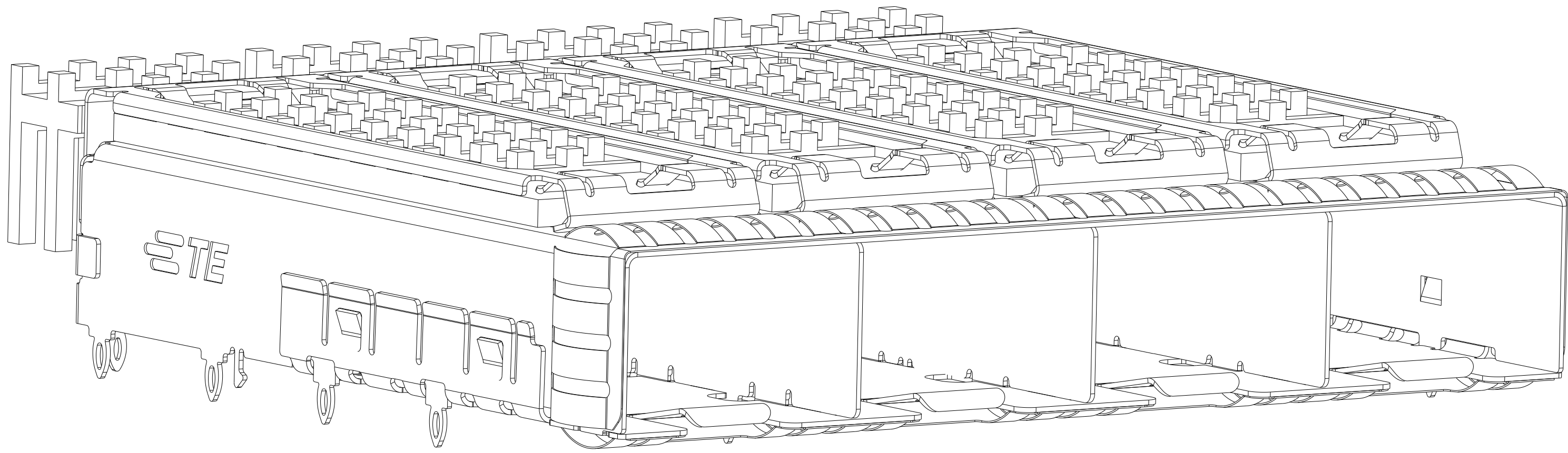
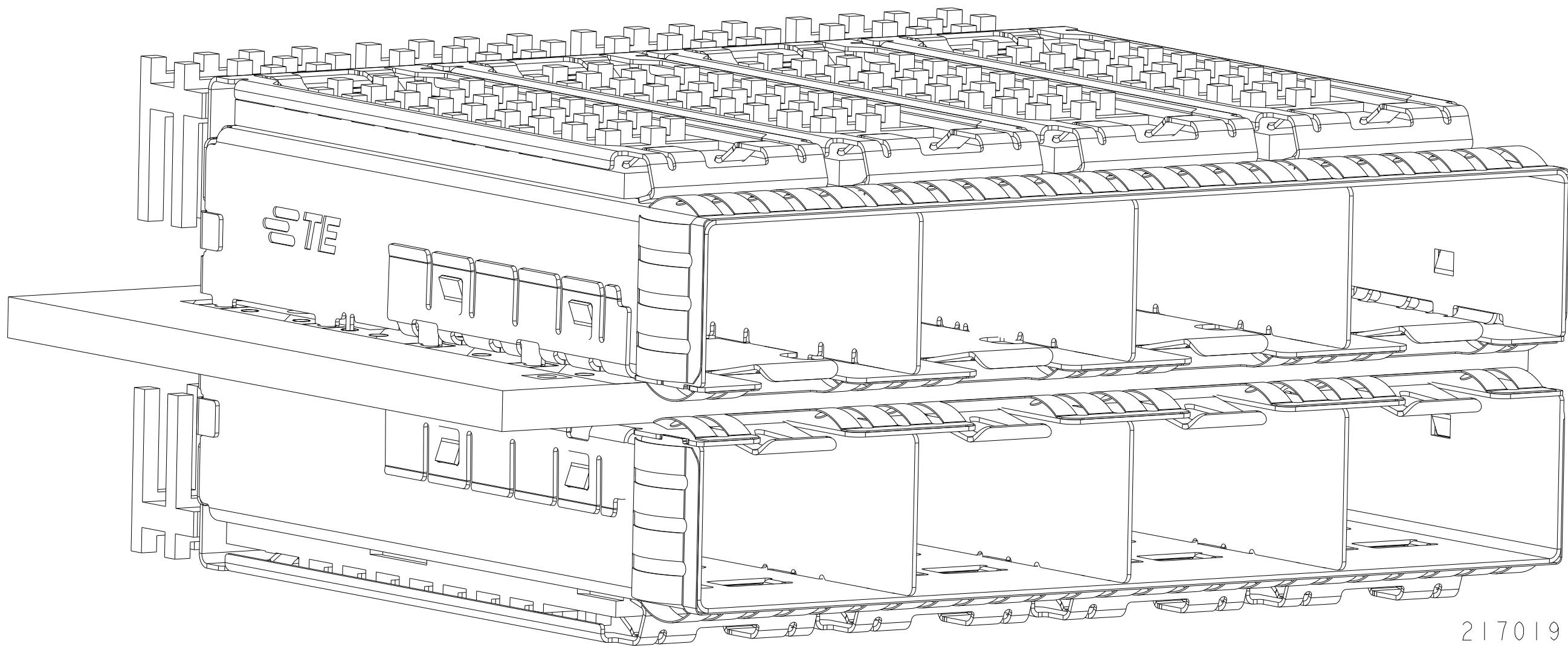
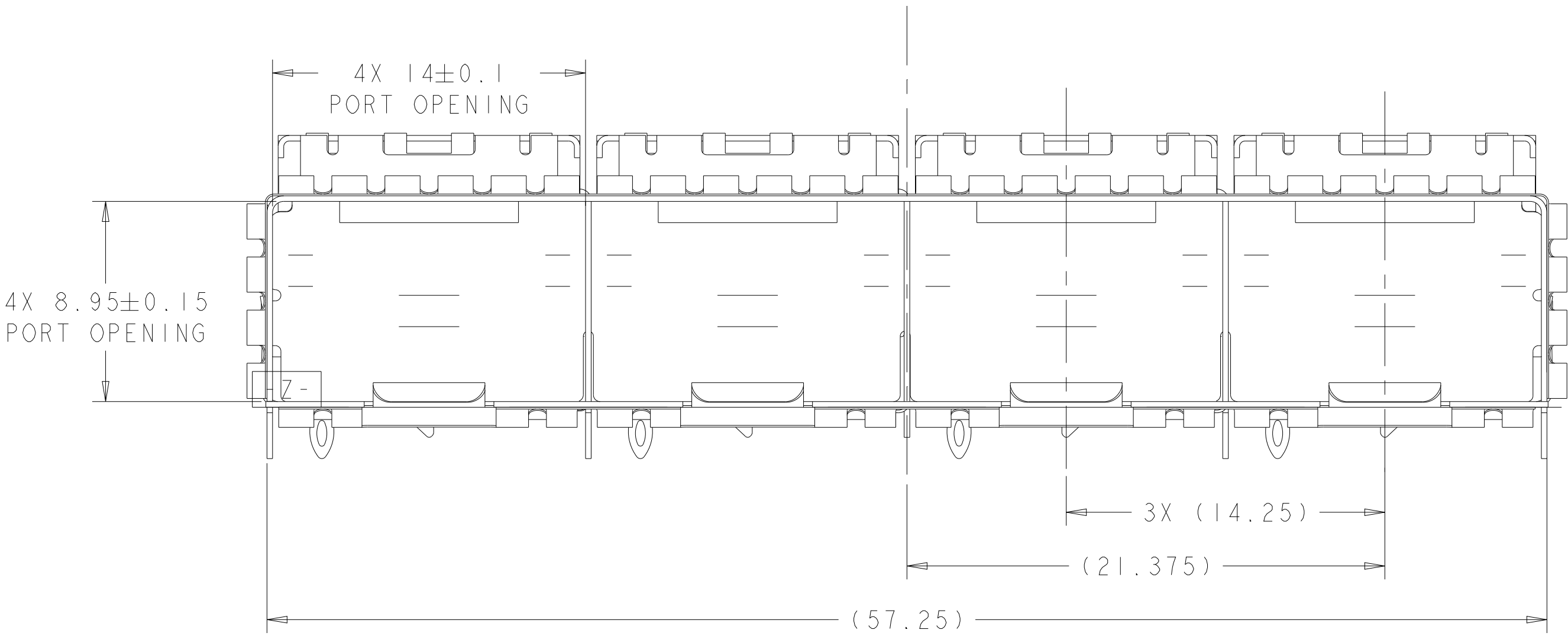
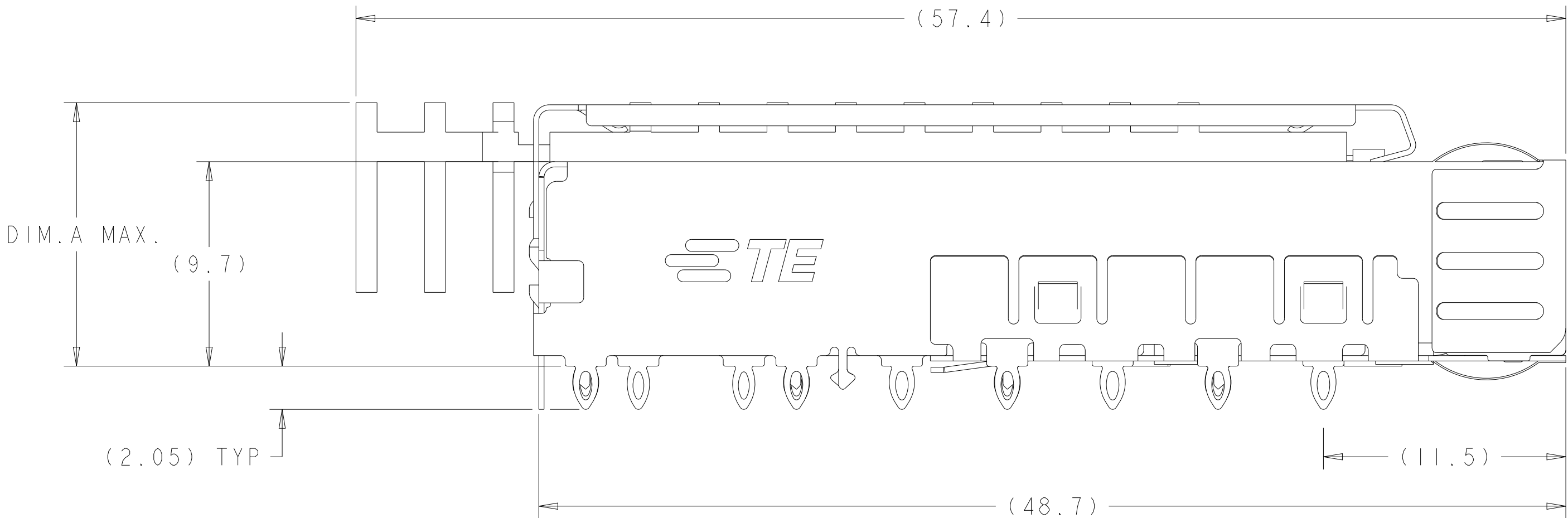


LOC	DIST	REVISIONS						
		P	LTR	DESCRIPTION	DATE	DWN	APVD	
GP	00		1	PRELIMINARY RELEASE	23NOV2011	TX	AC	
			2	REVISE THE DRAWING	21DEC2011	TX	AC	
			A	REVISED PER ECN-24-272345	15JUL2024	KH	SZ	



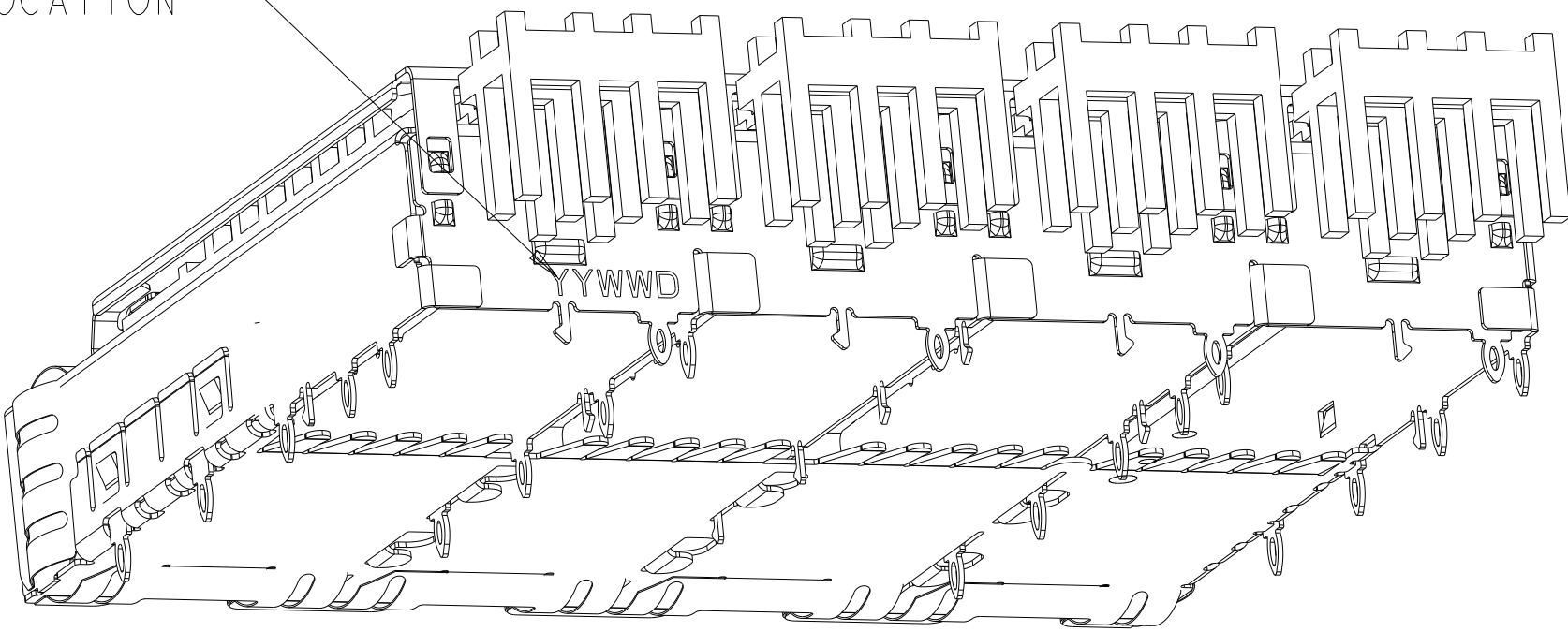
2170191-1
FINISHED ASSEMBLY

- 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 PC 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 FROM FACTOR FOR SFP+ GANGED CAGES.
- 13 DIMENSION APPLIES PRIOR TO INSERTION OF SFP MODULE



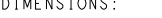
2170191-1
MOUNTED BELLY TO BELLY ON PCB
SCALE 4:1

APPROX. DATE CODE
LOCATION

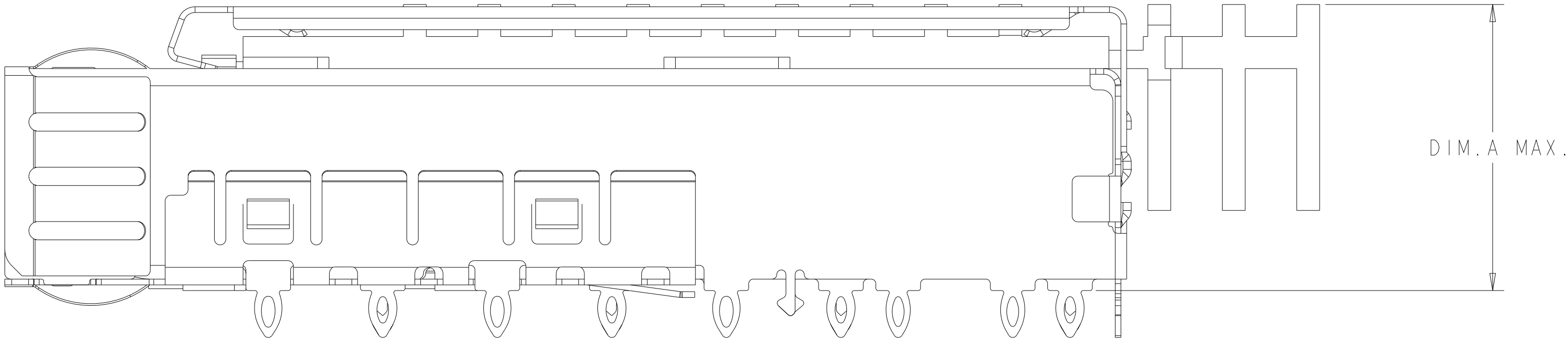


SCALE 3:1

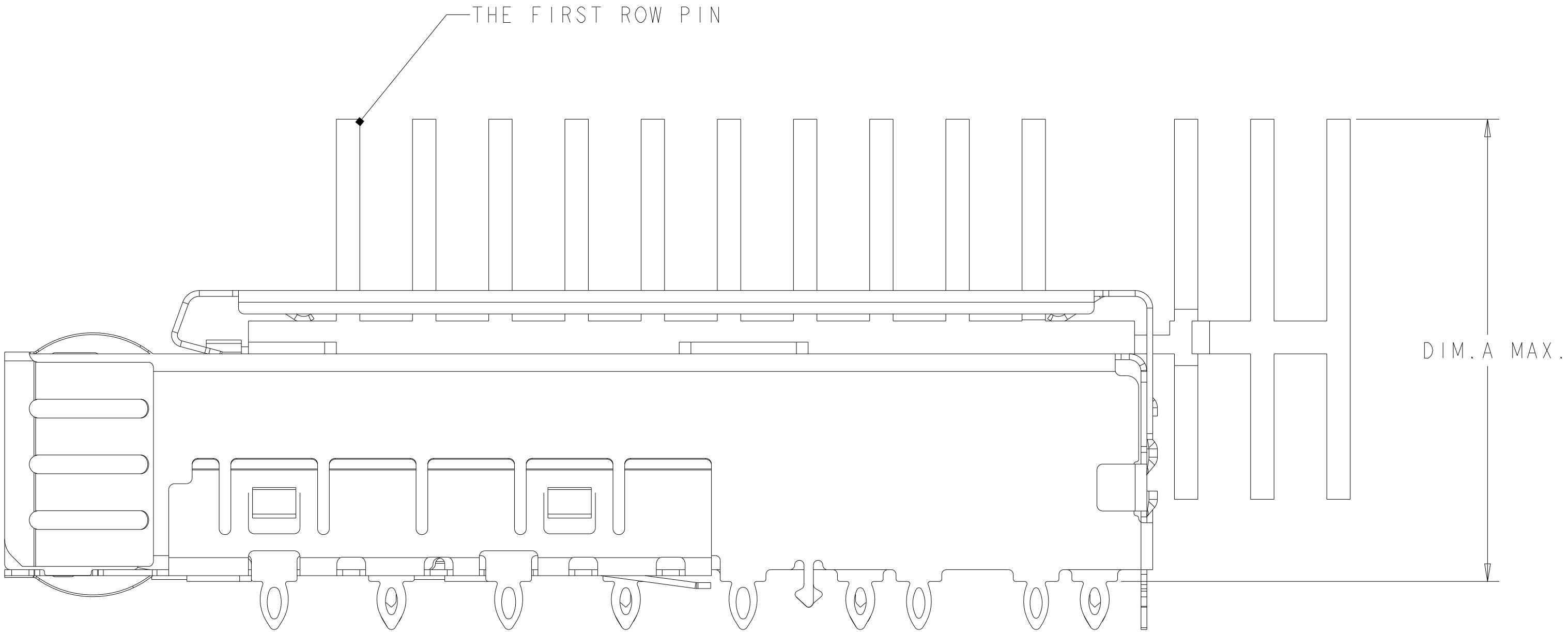
20.2	HEAT SINK W/ THE FIRST ROW PIN	2170191-2
13	HEAT SINK W/O THE FIRST ROW PIN	2170191-1
A MAX	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE	23NOV2011	 TE Connectivity			
DIMENSIONS:		CHK ALEX CAI	23NOV2011				
mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK	RESTRICTED TO		
		0 PLC ±0.1					
		1 PLC ±0.1					
		2 PLC ±0.1					
		3 PLC ±0.1		SIZE A1	CAGE CODE 00779		
		4 PLC ±0.1					
		FINISH ±1°					
MATERIAL		DRAWING NO		REV A			
		WEIGHT		SCALE 5:1			
		CUSTOMER DRAWING		SHEET 1 OF 5			

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

NAME

SFP+ ENHANCED 1X4 CAGE ASSEMBLY
PRESS FIT, EXTERNAL EMI SPRINGS
WITH HEATSINK

DIMENSIONS:

mm

0 PLC

±0.1

1 PLC

±0.1

2 PLC

±0.1

3 PLC

±0.1

4 PLC

±0.1

ANGLES

±1°0'

FINISH

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

PRODUCT SPEC

108-2364

APPLICATION SPEC

114-13120

WEIGHT

-

MATERIAL

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A100779

C=2170191

SCALE

5:1

SHEET

2

OF

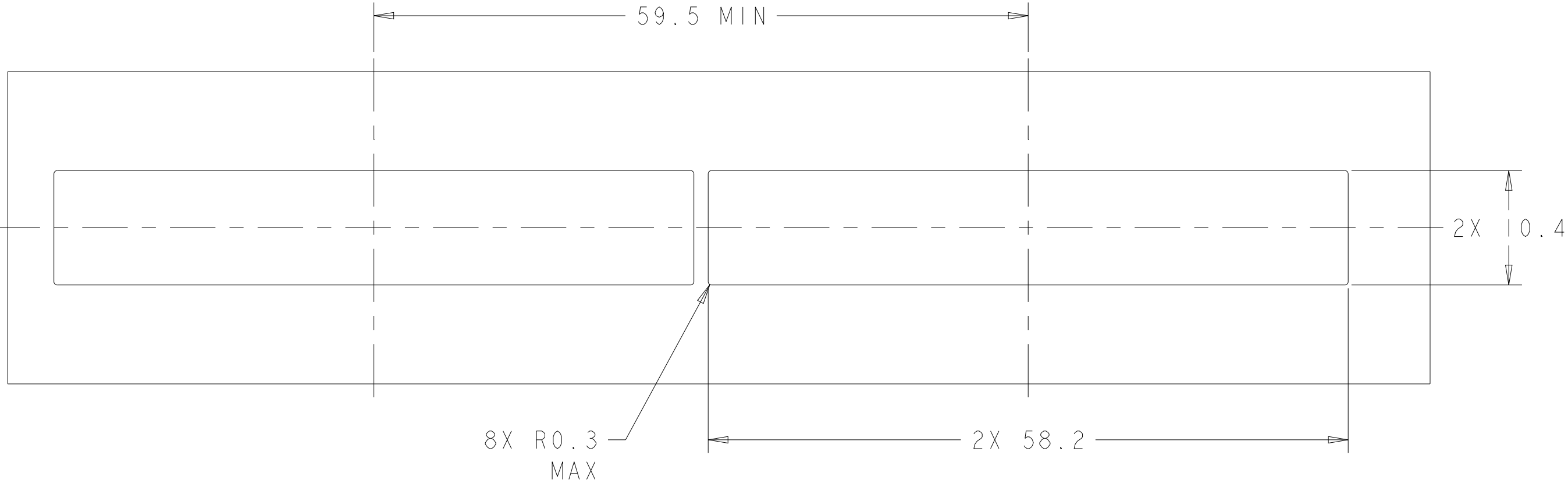
5

REV

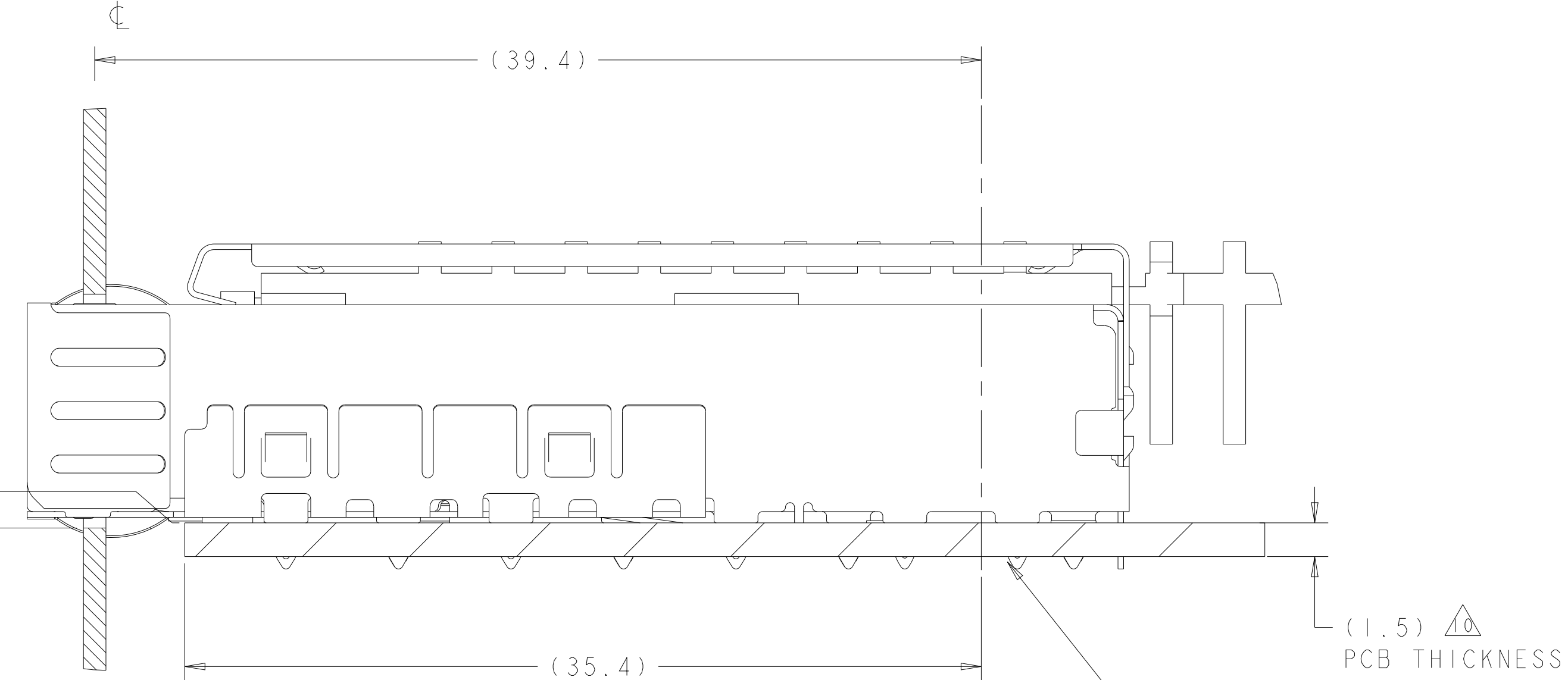
A

CUSTOMER DRAWING

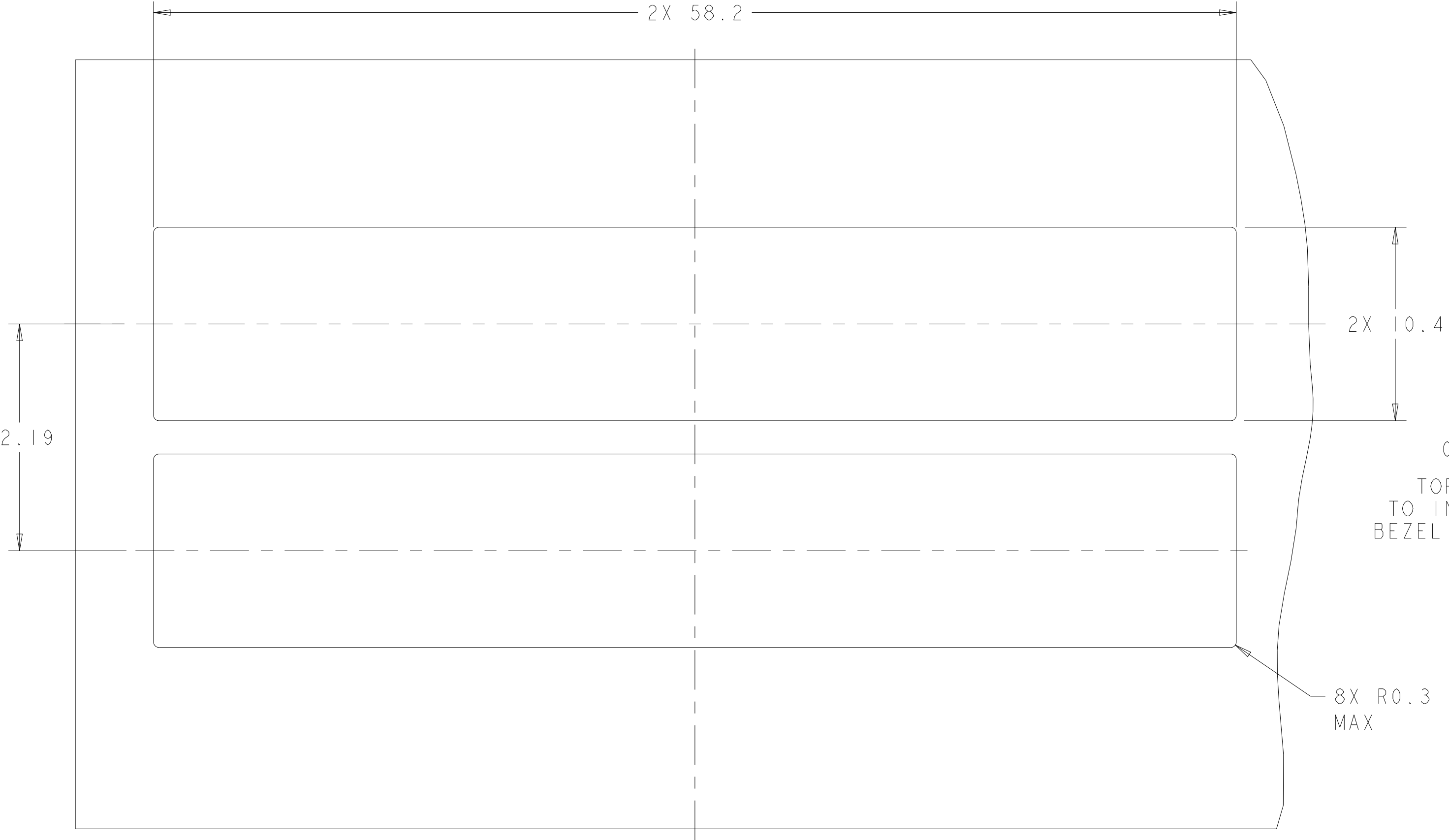
LOC		DIST		REVISIONS					
GP			00	P	LTR	DESCRIPTION	DATE	DWN	APVD
				-		SEE SHEET 1	-	-	-



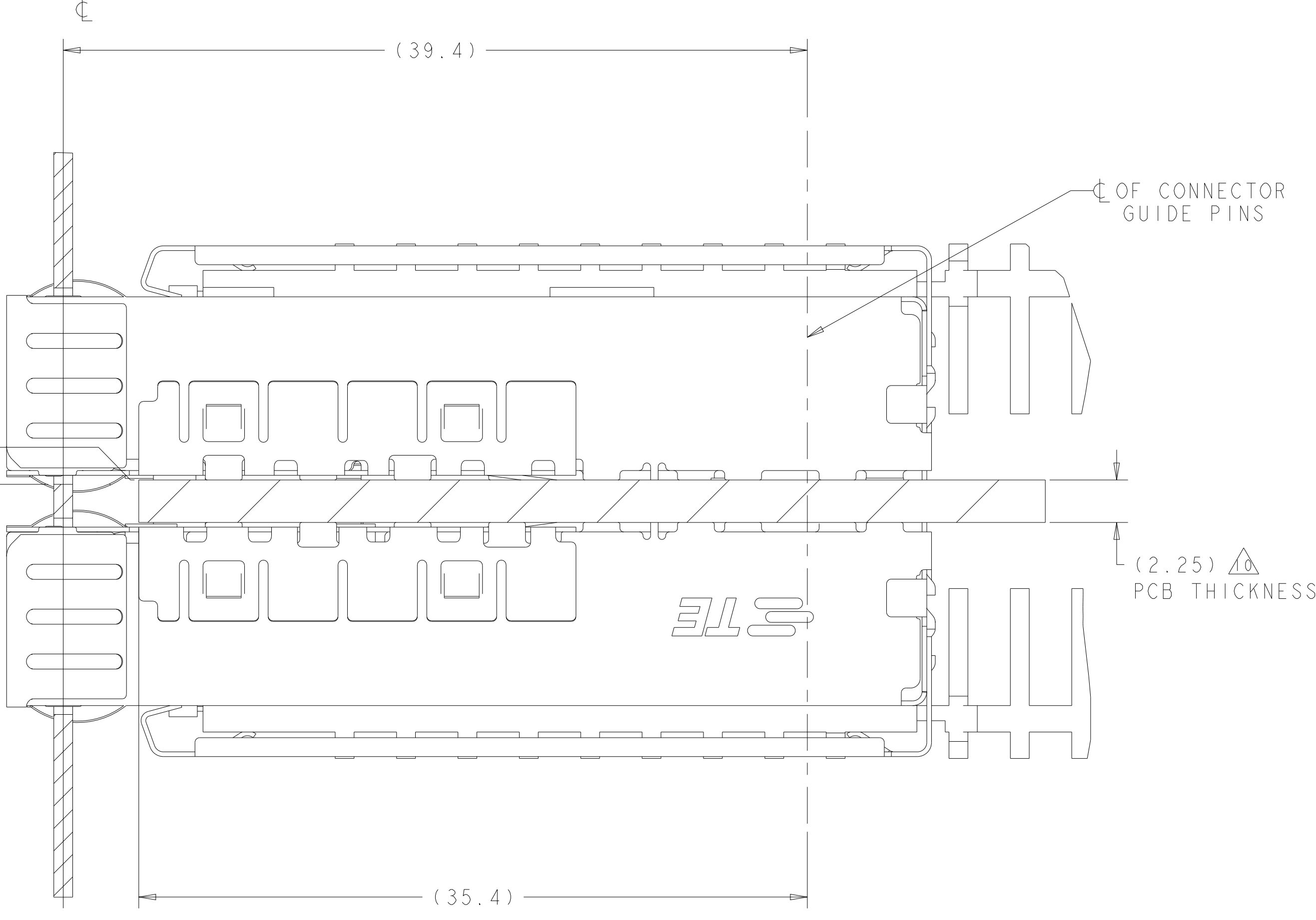
RECOMMENDED BEZEL CUT-OUT
SINGLE SIDED APPLICATIONS
SCALE 5:2



2149730
MOUNTED ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

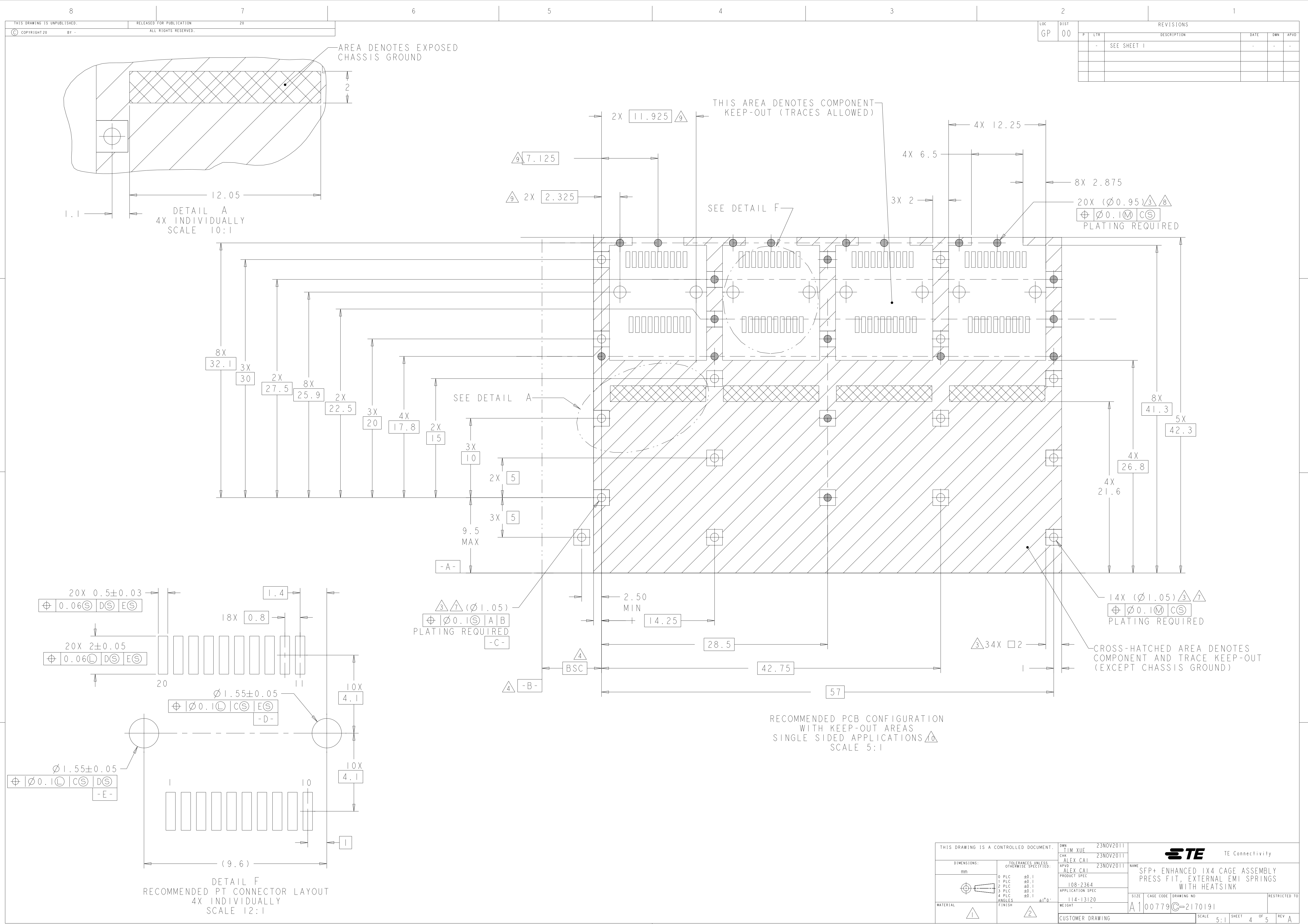


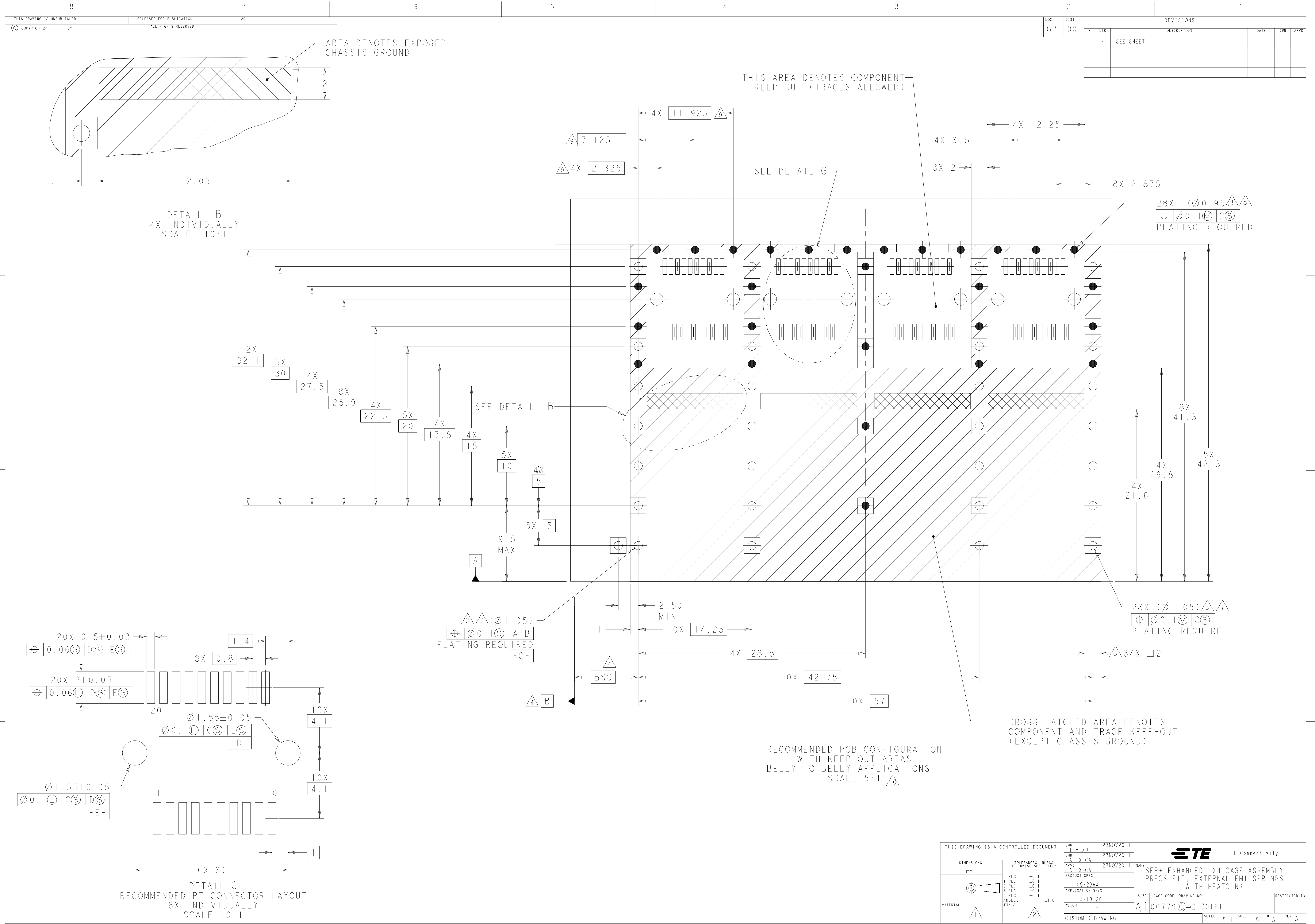
RECOMMENDED BEZEL CUT-OUT
BELLY TO BELLY APPLICATIONS



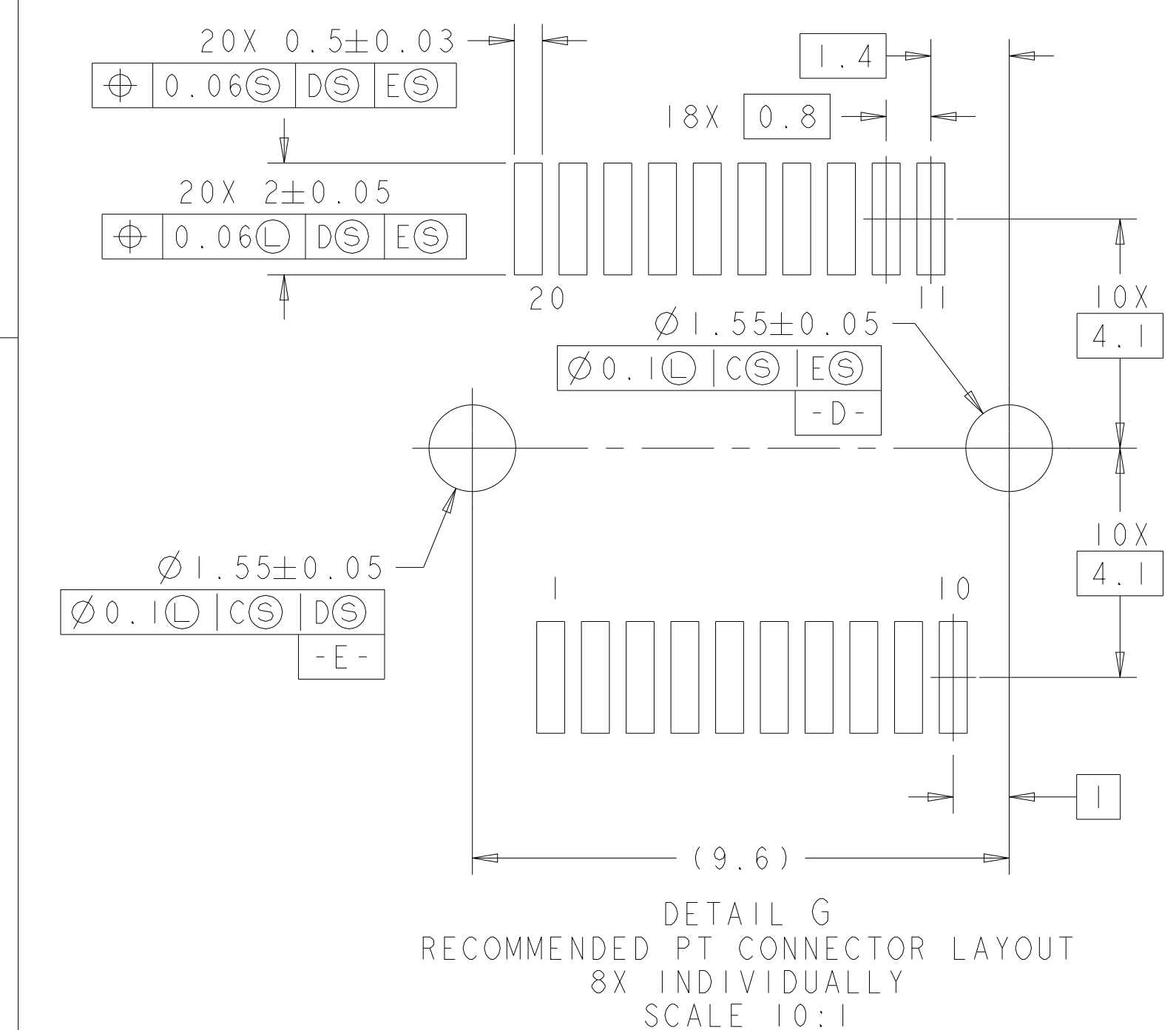
2149730
MOUNTED BELLY TO BELLY ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN	TIM XUE	23NOV2011	TE Connectivity		
				CHK	ALEX CAI	23NOV2011			
				APVD	ALEX CAI	23NOV2011	NAME		
				PRODUCT SPEC			SFP+ ENHANCED 1X4 CAGE ASSEMBLY		
				APPLICATION SPEC			PRESS FIT, EXTERNAL EMI SPRINGS		
				WEIGHT			WITH HEATSINK		
				CUSTOMER DRAWING			SCALE 5:1 SHEET 3 OF 5 REV A		





DETAIL B
4X INDIVIDUALLY
SCALE 10:1



THIS AREA DENOTES COMPONENT
KEEP-OUT (TRACES ALLOWED)

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

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

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

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

MATERIAL

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.1
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±0.1
4 PLC ±0.1
ANGLES ±1°

2

DWN: TIM XUE 23NOV2011
CHK: ALEX CAI 23NOV2011
APVD: ALEX CAI 23NOV2011

PRODUCT SPEC
108-2364
APPLICATION SPEC
114-13120

WEIGHT
-

CUSTOMER DRAWING

TE Connectivity

NAME
SFP+ ENHANCED 1X4 CAGE ASSEMBLY
PRESS FIT, EXTERNAL EMI SPRINGS
WITH HEATSINK

SIZE
A1

CAGE CODE
00779

DRAWING NO.
C=2170191

RESTRICTED TO

SCALE 5:1 SHEET 5 OF 5 REV A