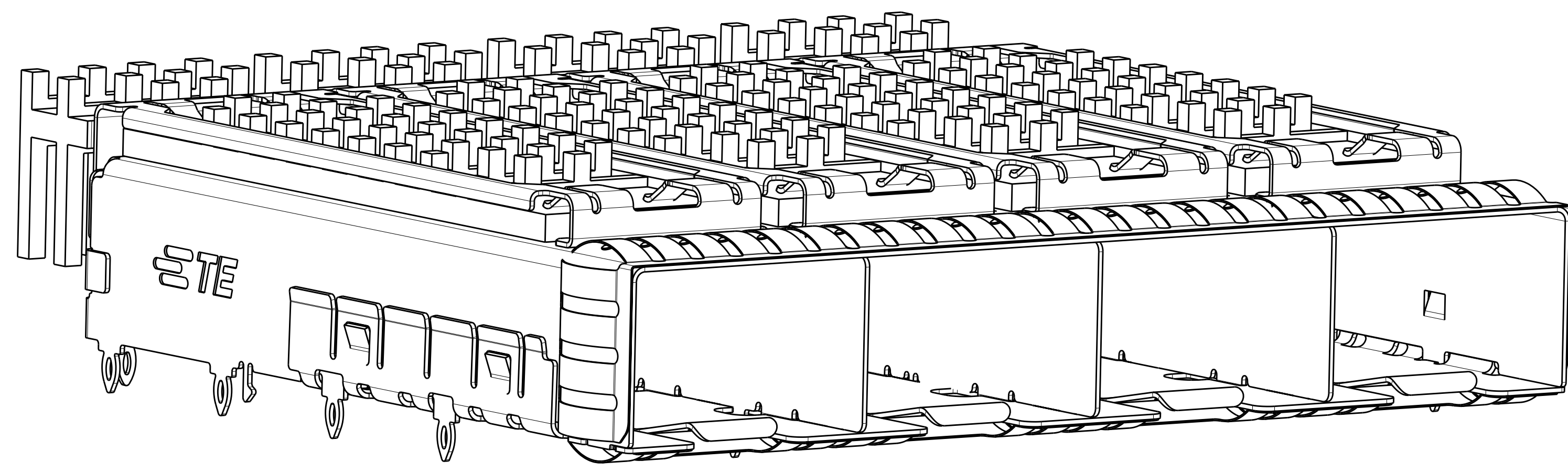
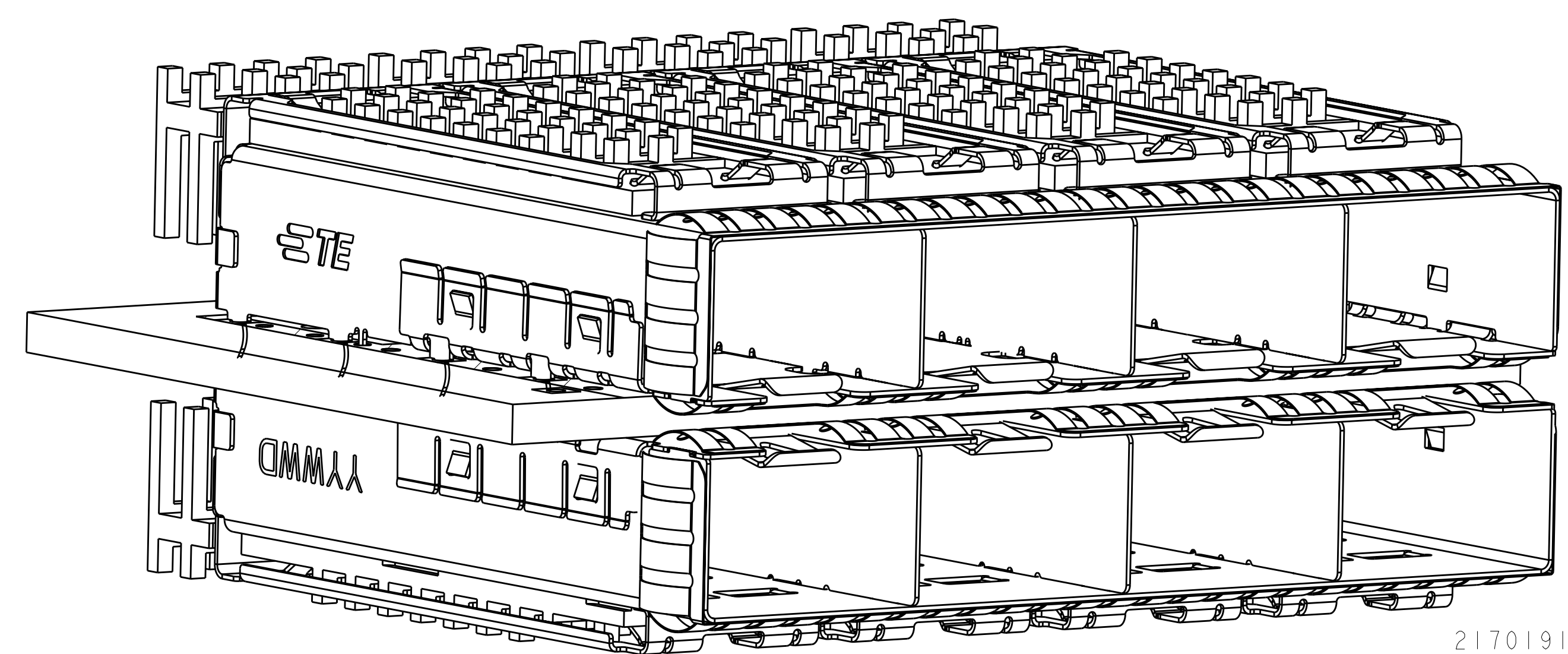
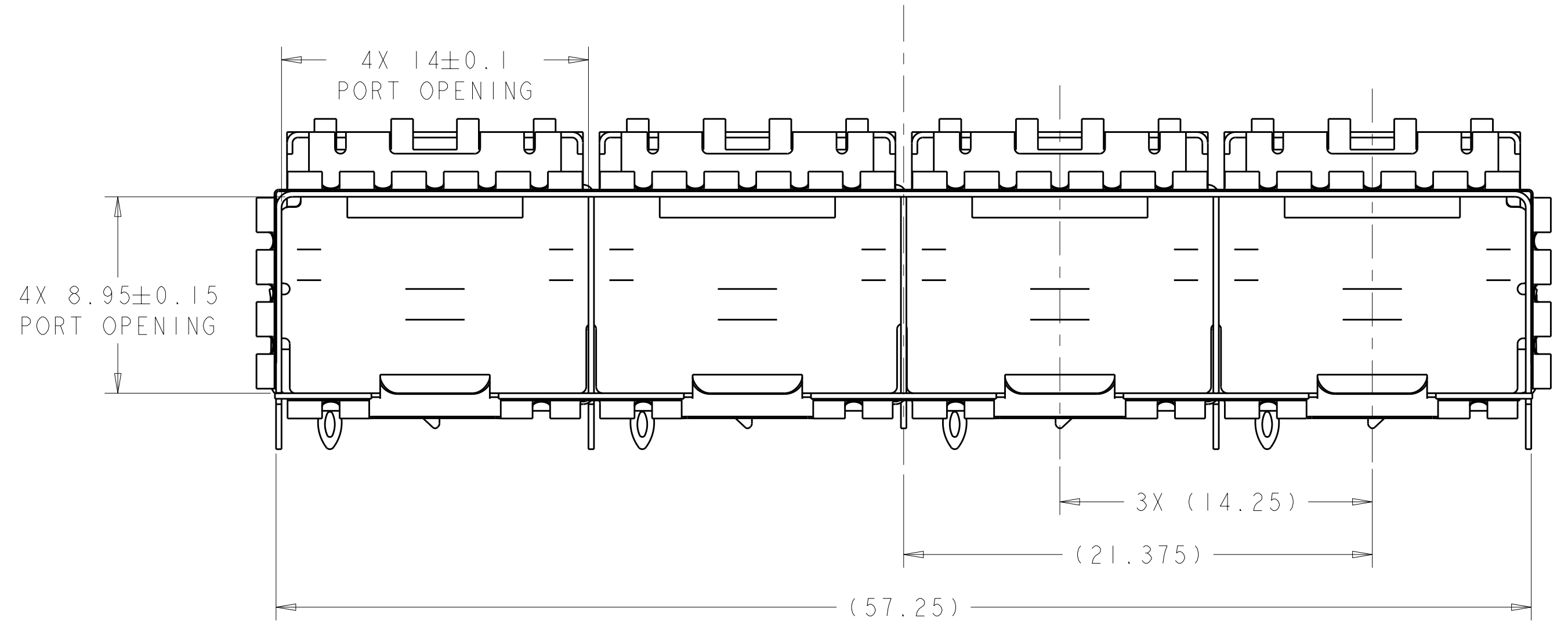
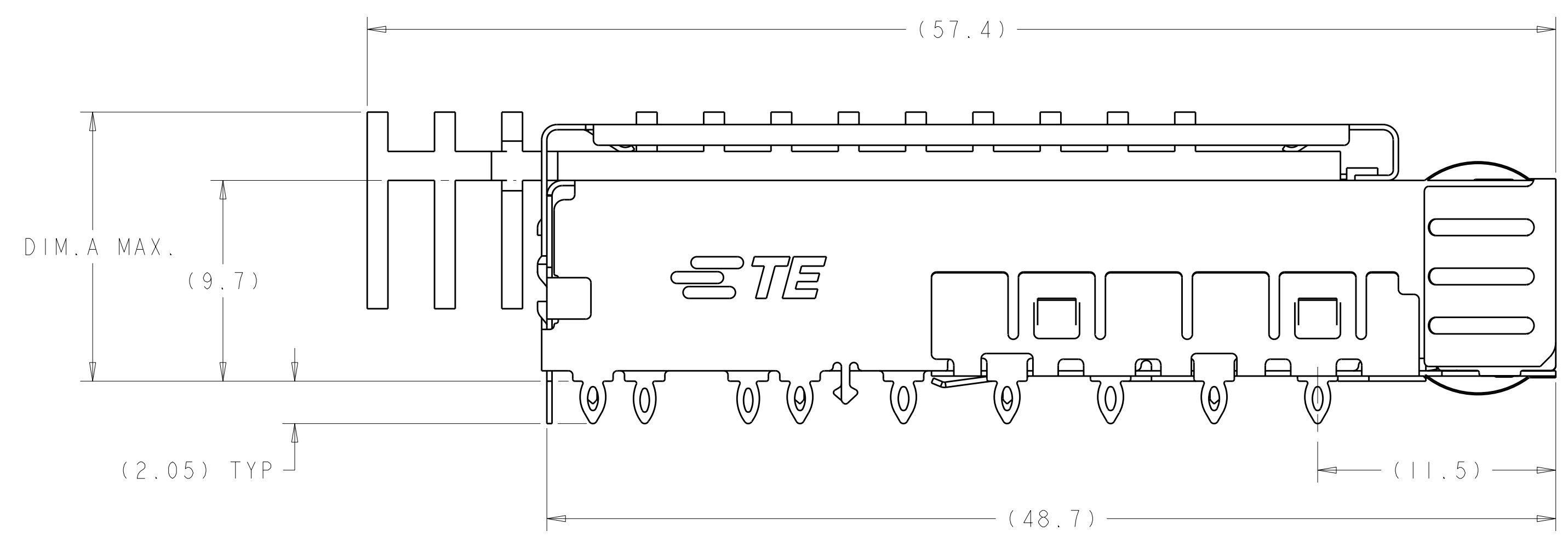


LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPD
		1	23NOV2011	TX	AC
		2	21DEC2011	TX	AC

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



2170191-1
 FINISHED ASSEMBLY



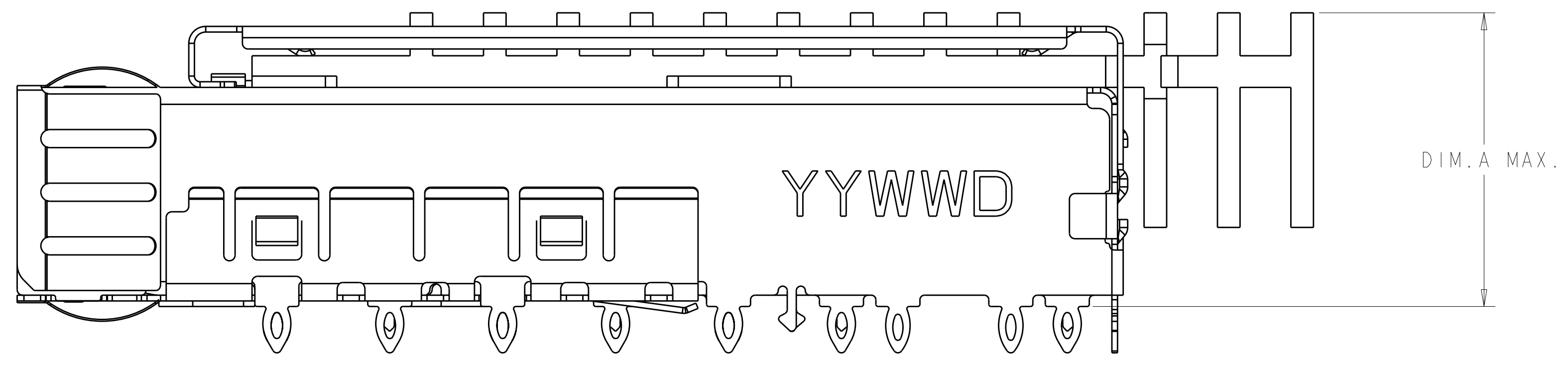
2170191-1
 MOUNTED BELLY TO BELLY ON PCB
 SCALE 4:1

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

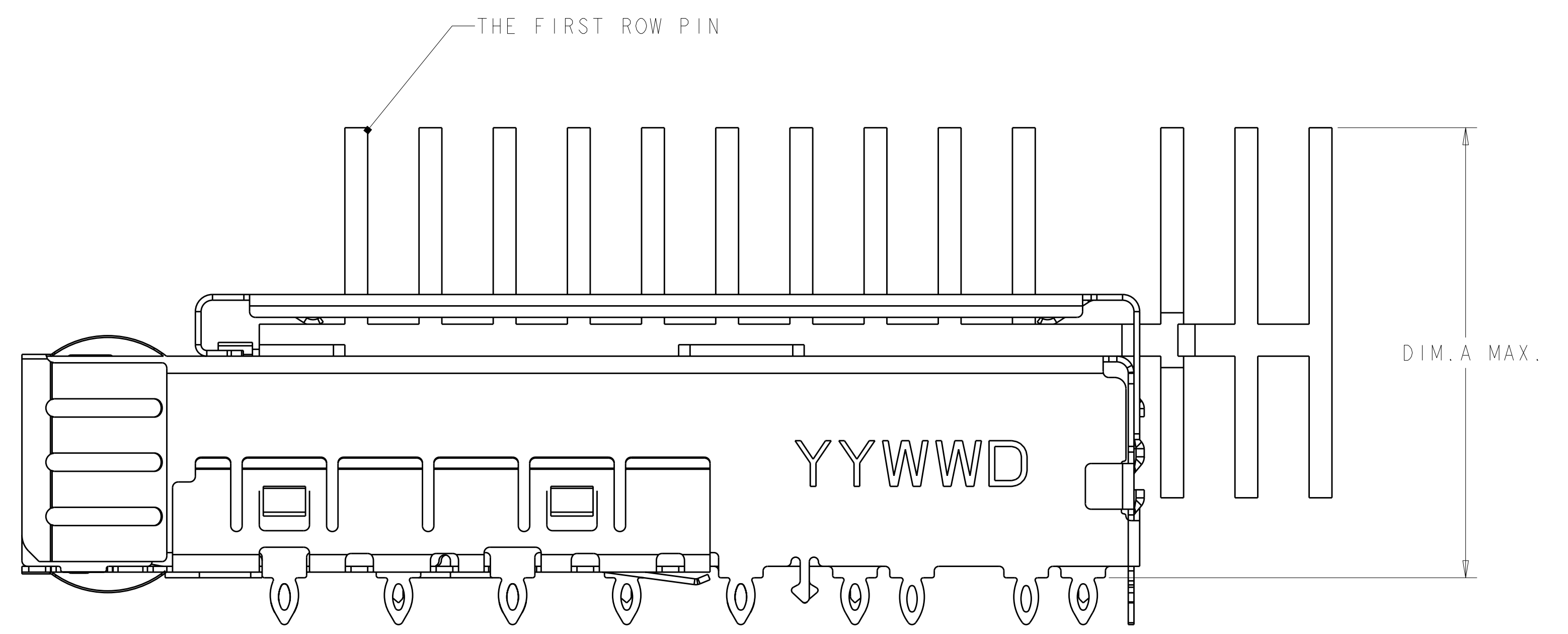
THIS PRINT IS
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 CONTACT PRODUCT ENGINEERING
 BEFORE USING THIS PRINT

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	
9 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		NAME 108-2364 APPLICATION SPEC 114-13120 WEIGHT -	
MATERIAL	FINISH	SIZE CAGE CODE DRAWING NO A100779C=2170191 CUSTOMER DRAWING	RESTRICTED TO SCALE 5:1 SHEET 1 OF 5 REV 2

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



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

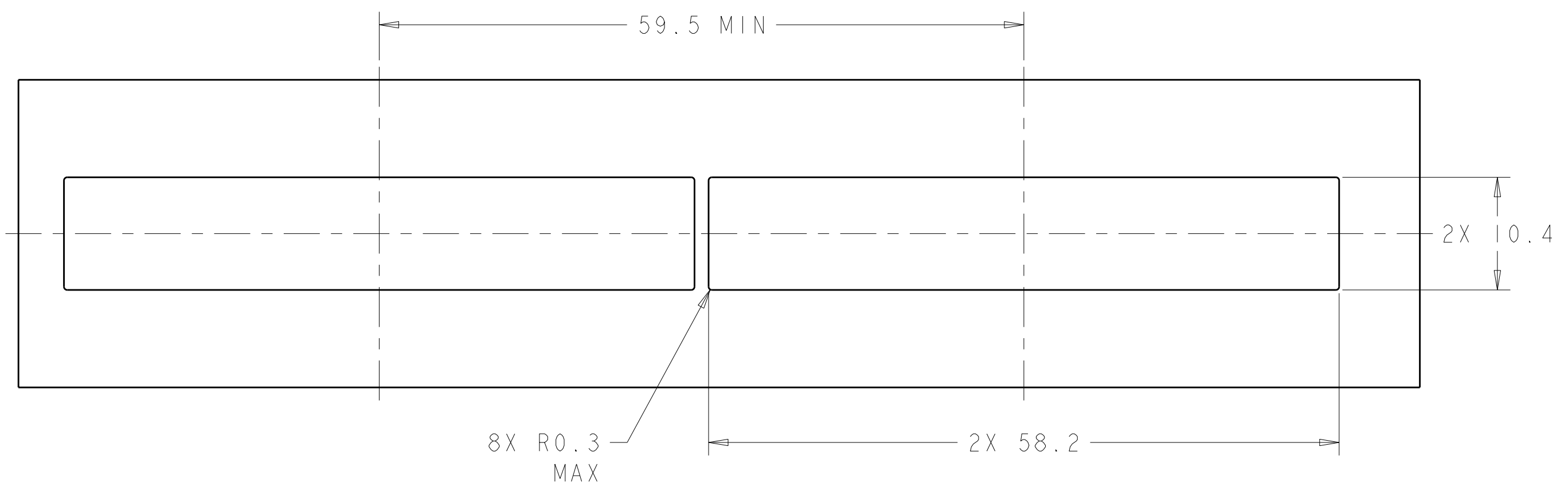


2170191-2 AS SHOWN

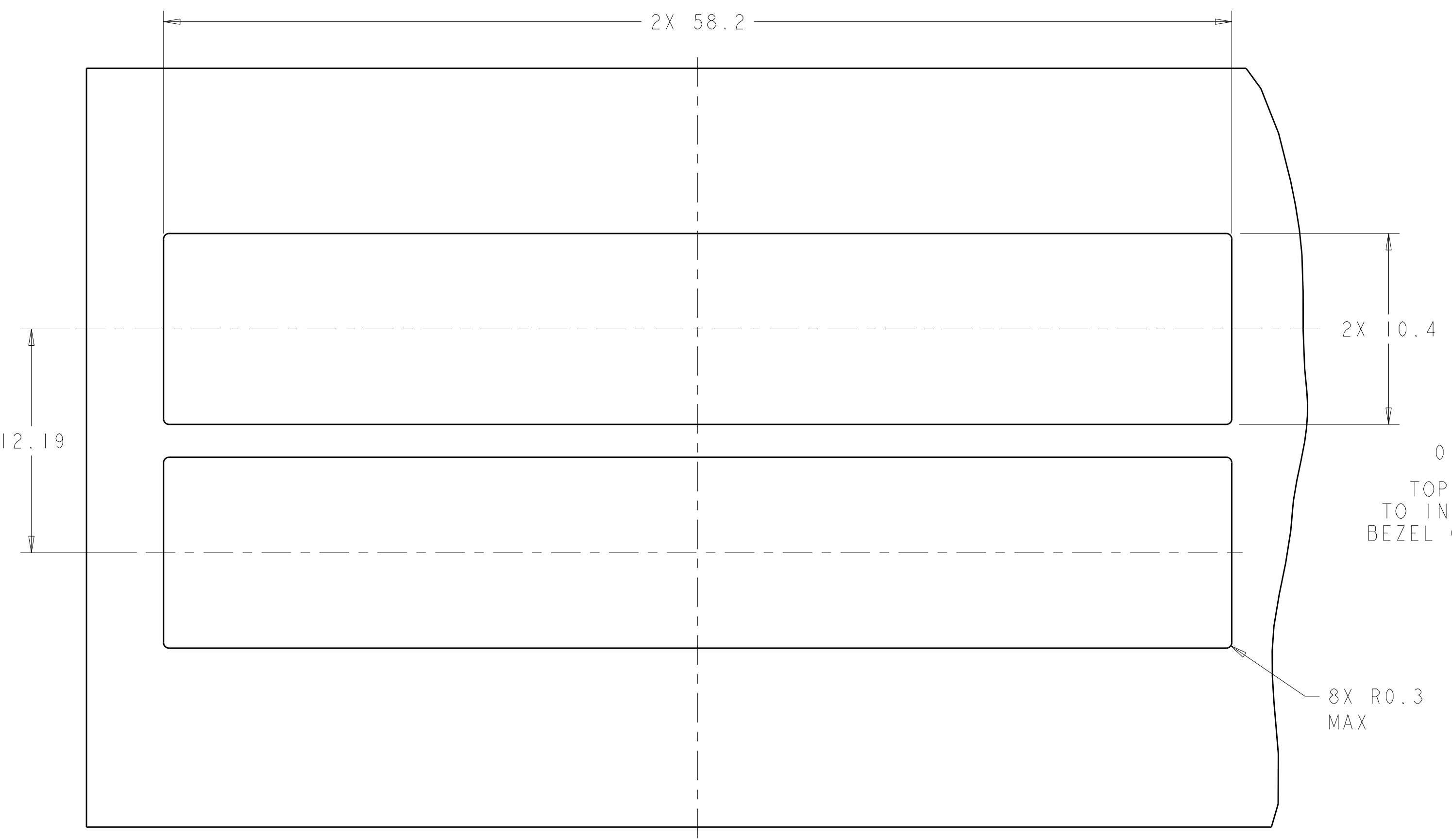
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: TIM_XUE 23NOV2011 CHK: ALEX_CAI 23NOV2011 APVD: ALEX_CAI 23NOV2011	TE Connectivity
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 9 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120	
MATERIAL: FINISH	WEIGHT: - CUSTOMER DRAWING	SIZE: A100779 CAGE CODE: C=2170191 DRAWING NO: - RESTRICTED TO: -	SCALE: 5:1 SHEET: 2 OF 5 REV: 2

LOC	DIST	REV	DATE	BY	APPD
GP	00				

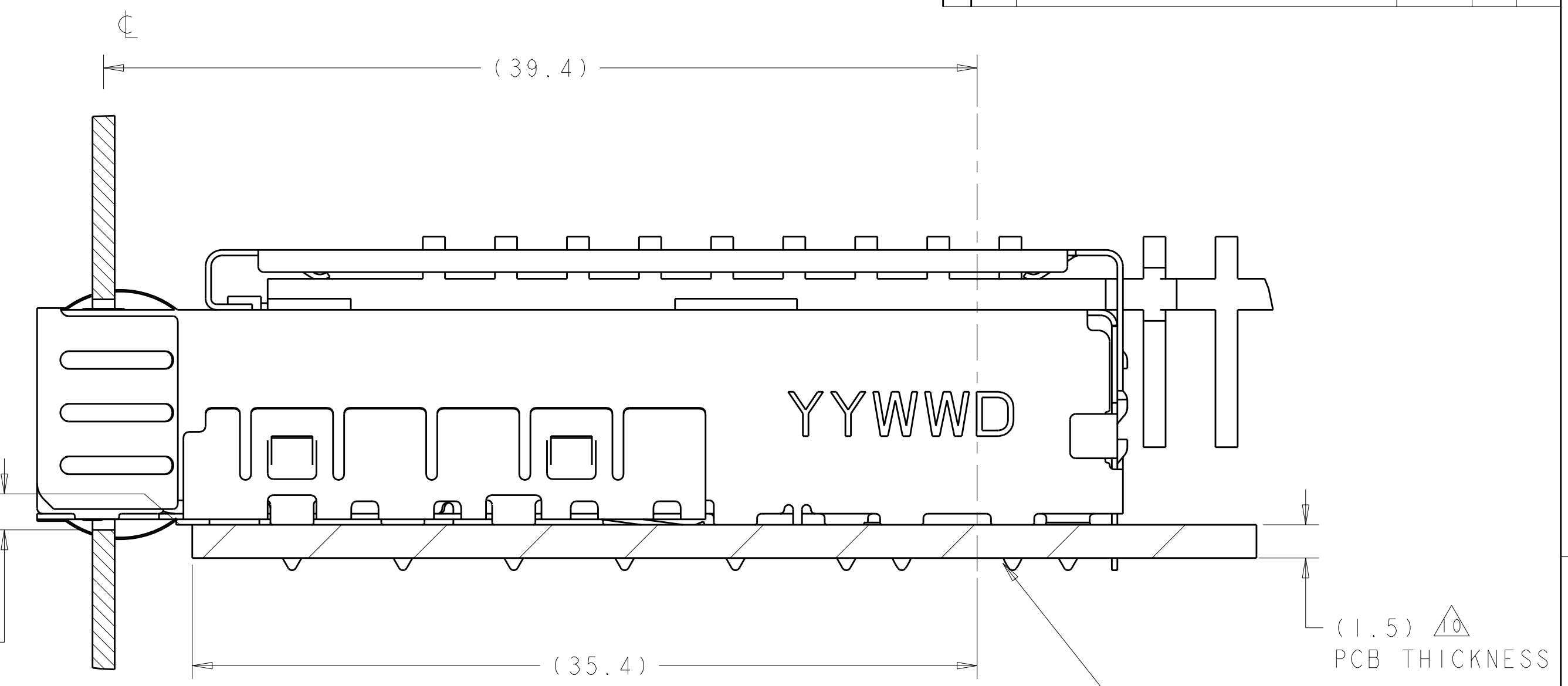
REVISIONS		DATE	BY	APPD
1	SEE SHEET 1	-	-	-



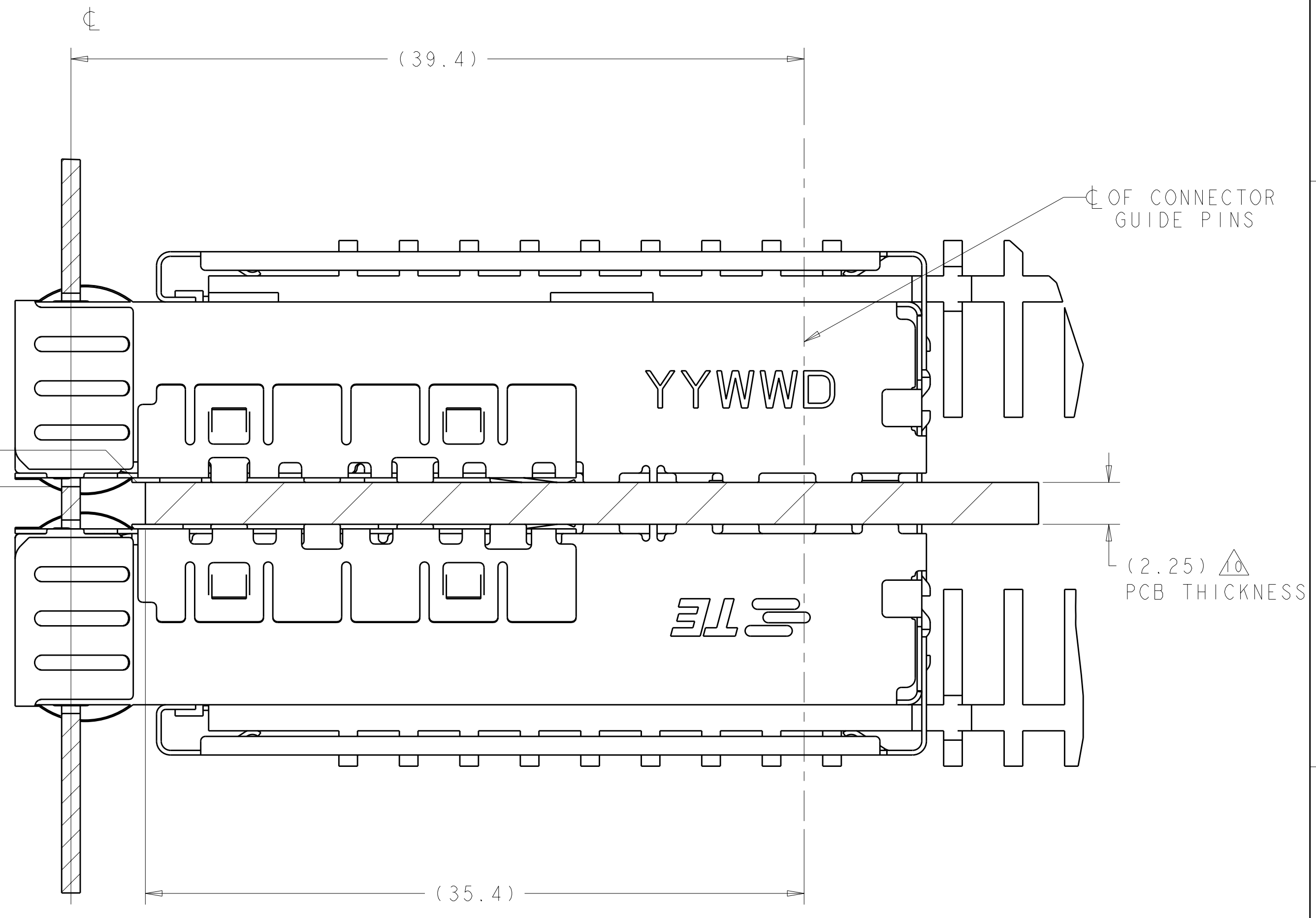
RECOMMENDED BEZEL CUT-OUT
SINGLE SIDED APPLICATIONS
SCALE 5:2



RECOMMENDED BEZEL CUT-OUT
BELLY TO BELLY APPLICATIONS



2149730
MOUNTED ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL



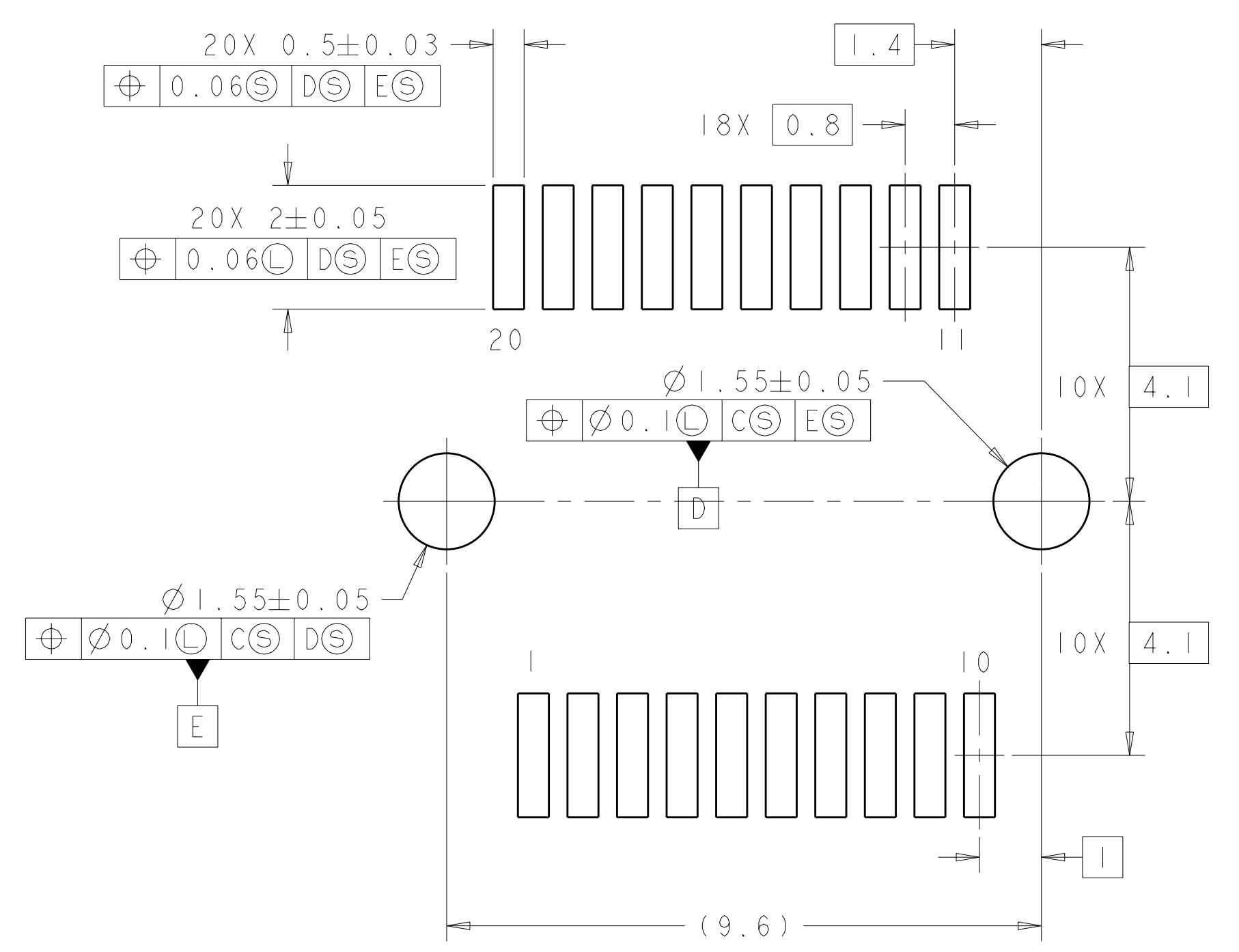
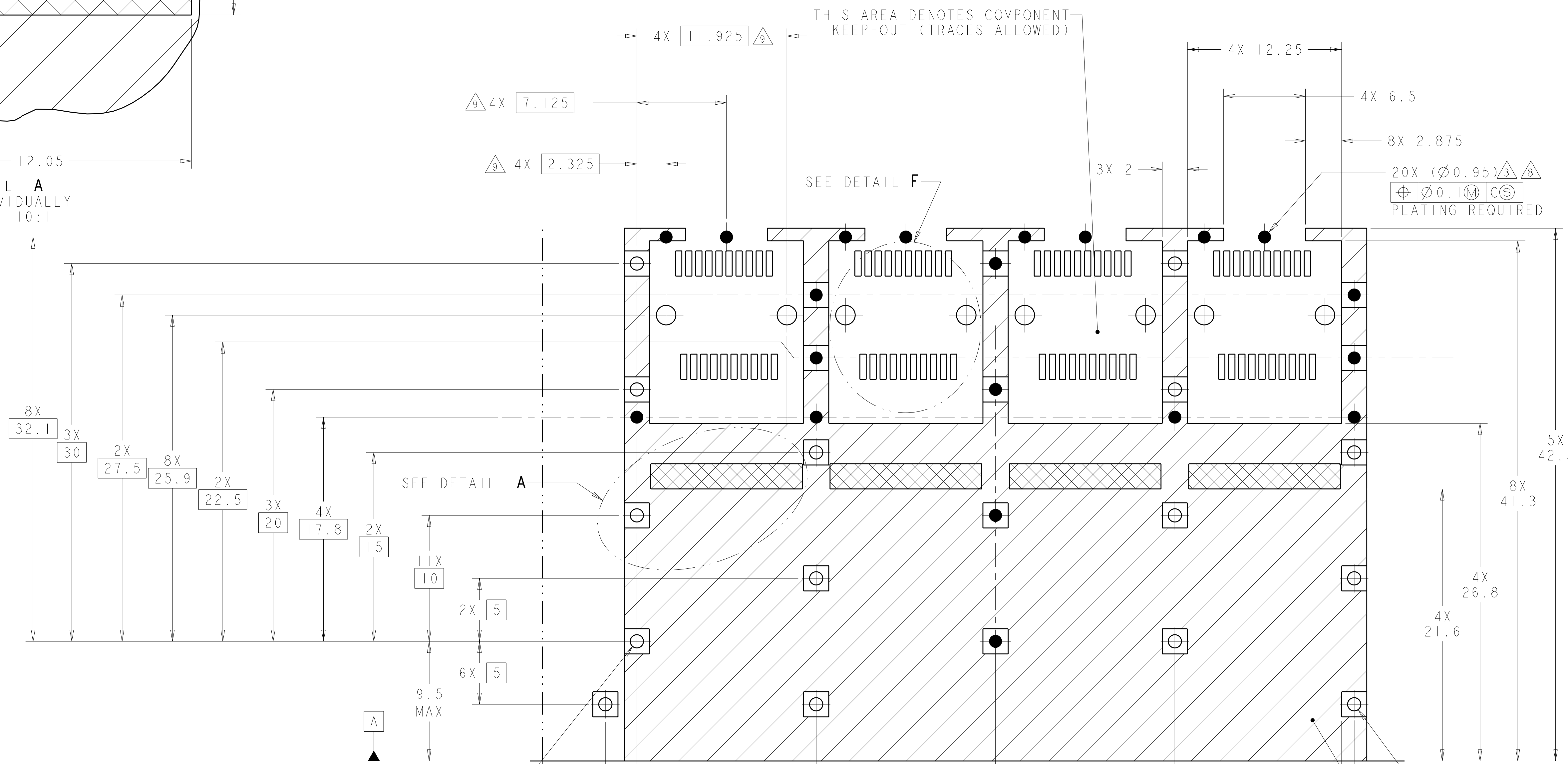
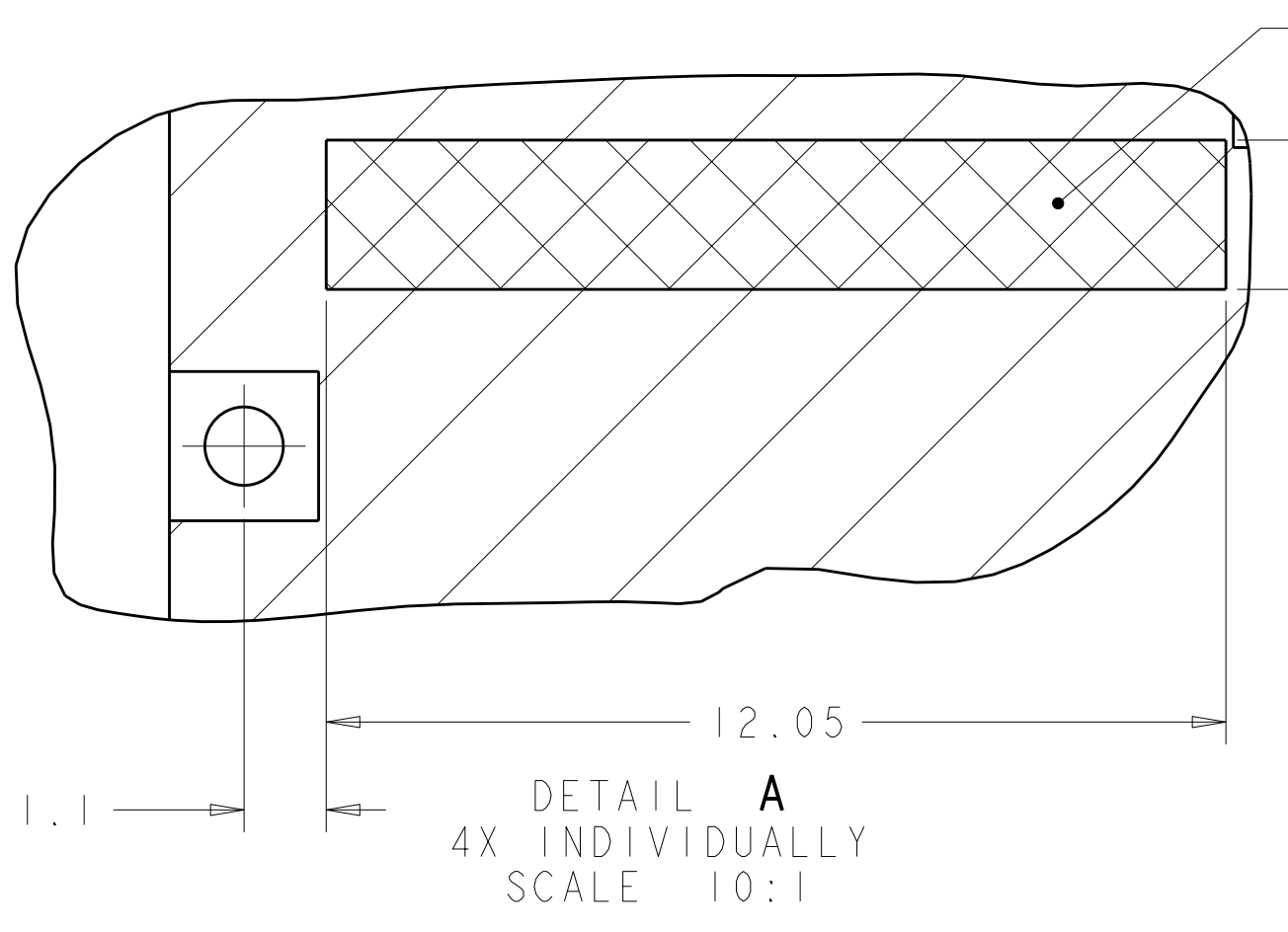
2149730
MOUNTED BELLY TO BELLY ON PC BOARD
SHOWN THRU RECOMMENDED BEZEL

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CONTACT PRODUCT ENGINEERING
BEFORE USING THIS PRINT

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 23NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DATE: 23NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
9 PLC ±0.1 7 PLC ±0.1 5 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		APVD: ALEX CAI	
MATERIAL		PRODUCT SPEC: 108-2364	SIZE: CAGE CODE DRAWING NO: A100779C-2170191 RESTRICTED TO:
FINISH		APPLICATION SPEC: 114-13120	
		WEIGHT: -	SCALE: 5:1 SHEET: 3 OF 5 REV: 2
		CUSTOMER DRAWING	

LOC	DIST	REV	DATE	BY	APPD
GP	00				

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



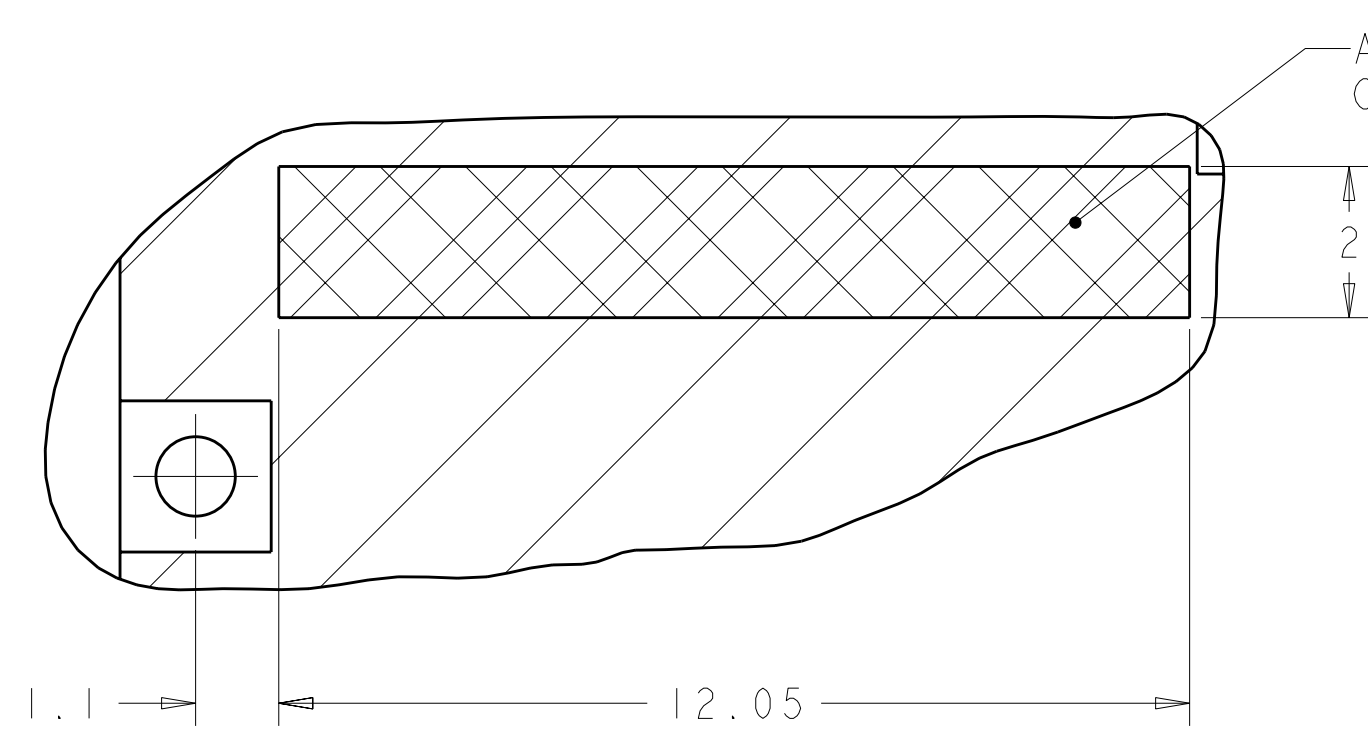
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RECOMMENDED PCB CONFIGURATION
 WITH KEEP-OUT AREAS
 SINGLE SIDED APPLICATIONS
 SCALE 5:1

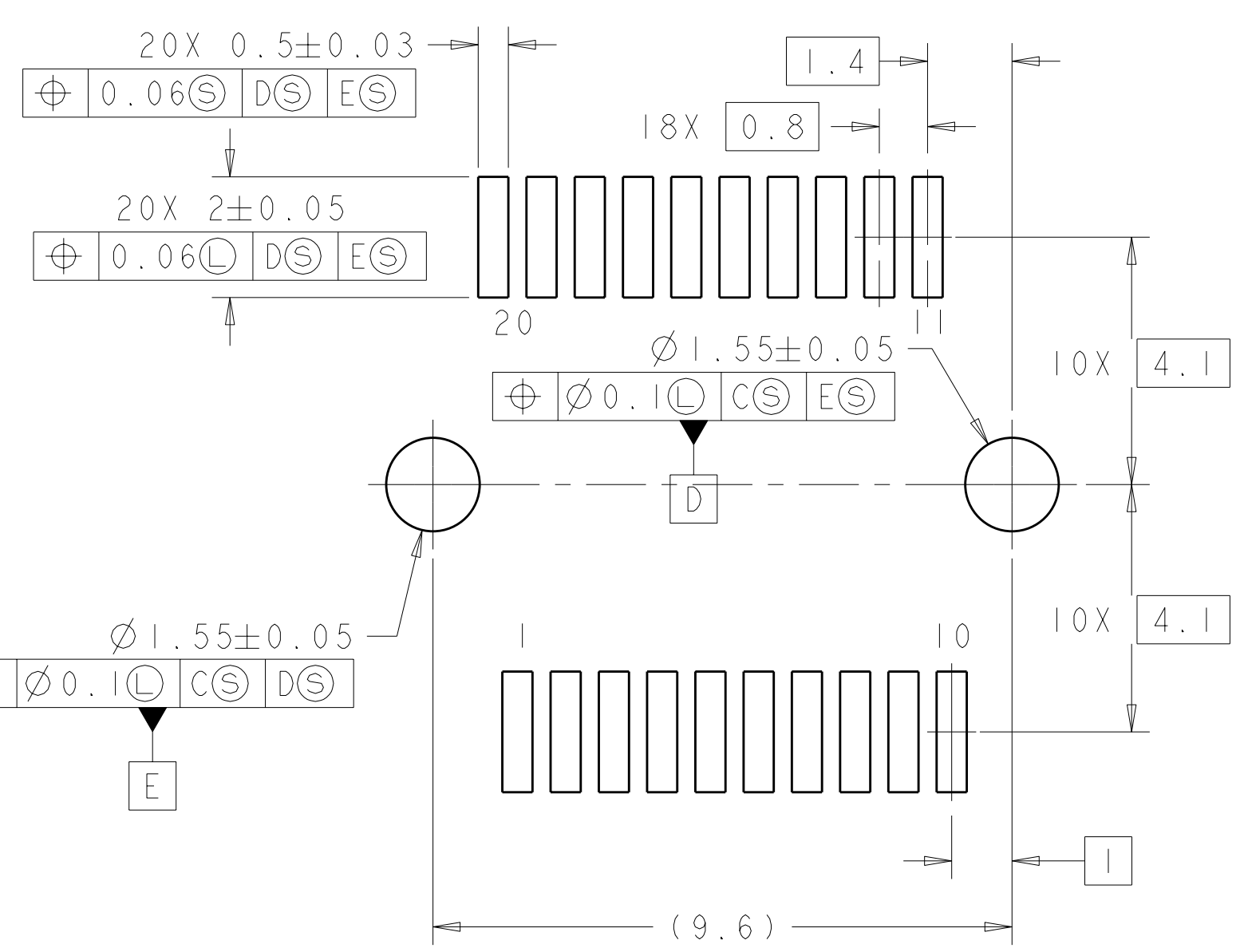
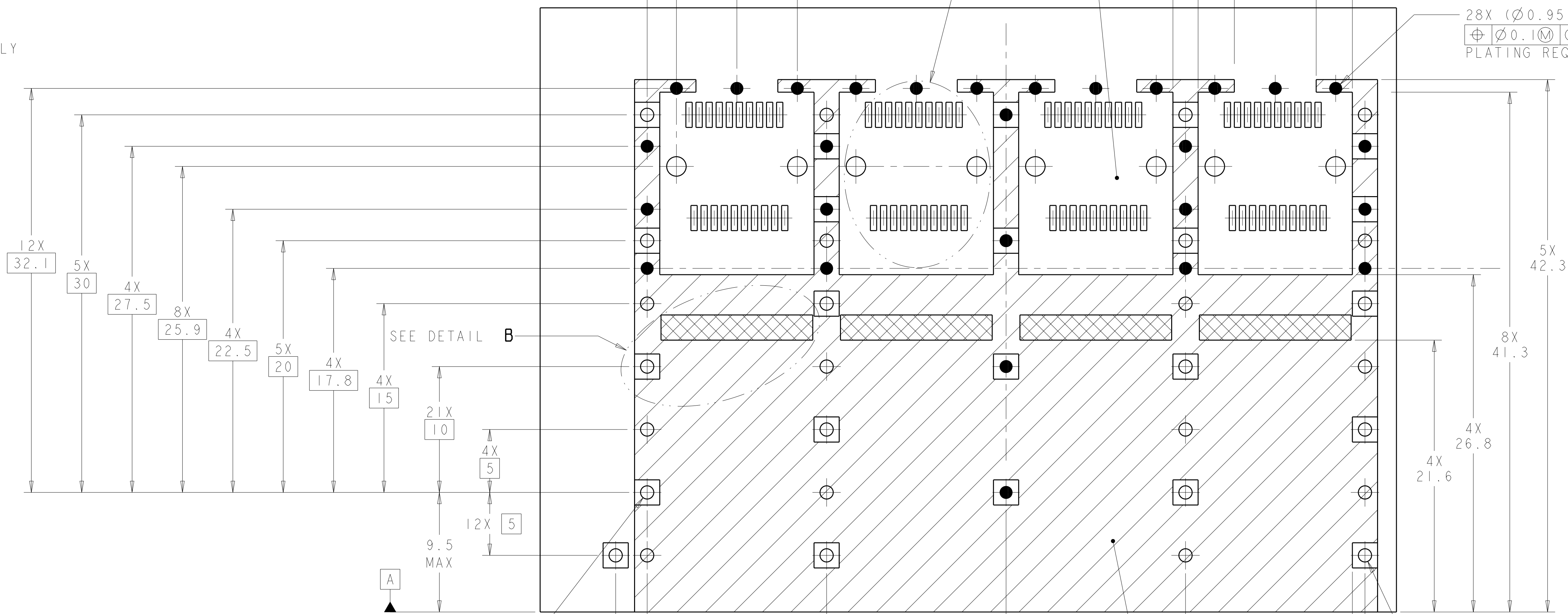
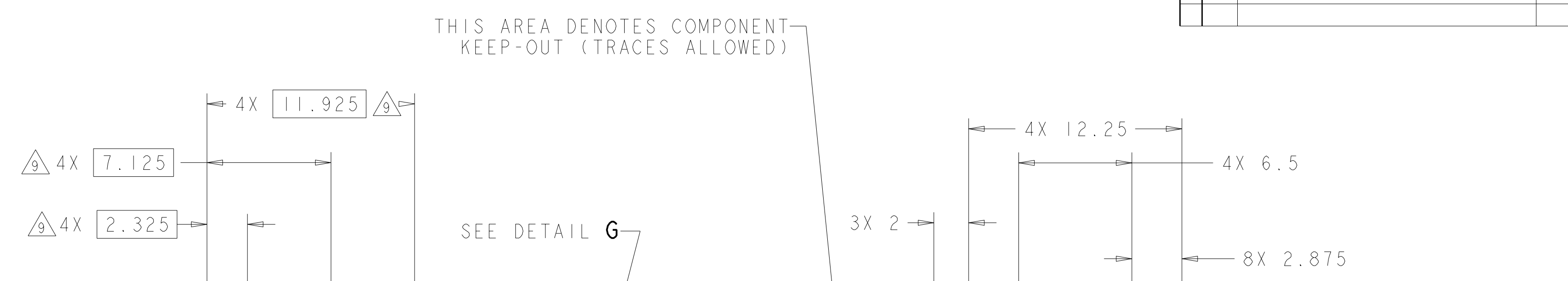
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: TIM XUE 23NOV2011	TE Connectivity
DIMENSIONS: mm		CHK: ALEX CAI 23NOV2011	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: ALEX CAI 23NOV2011	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
Ø	9 PLC ±0.1	PRODUCT SPEC: 108-2364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

LOC	DIST	REV	DATE	BY	APPD
GP	00				

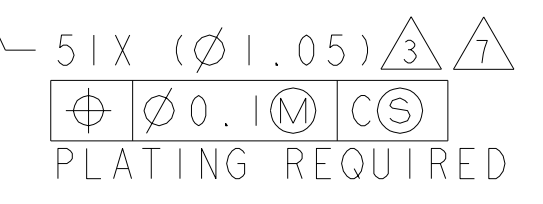
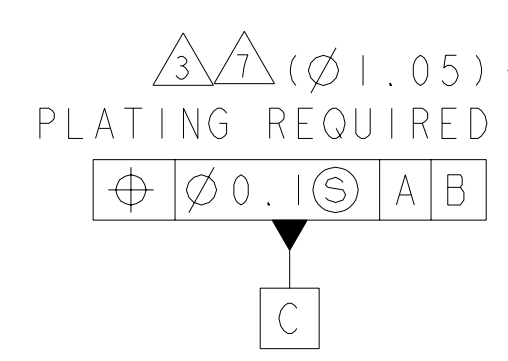
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	SEE SHEET 1		



DETAIL B
4X INDIVIDUALLY
SCALE 10:1



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



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)

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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 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: CAGE CODE DRAWING NO. RESTRICTED TO: A100779C-2170191 SCALE: 5:1 SHEET 5 OF 5 REV 2