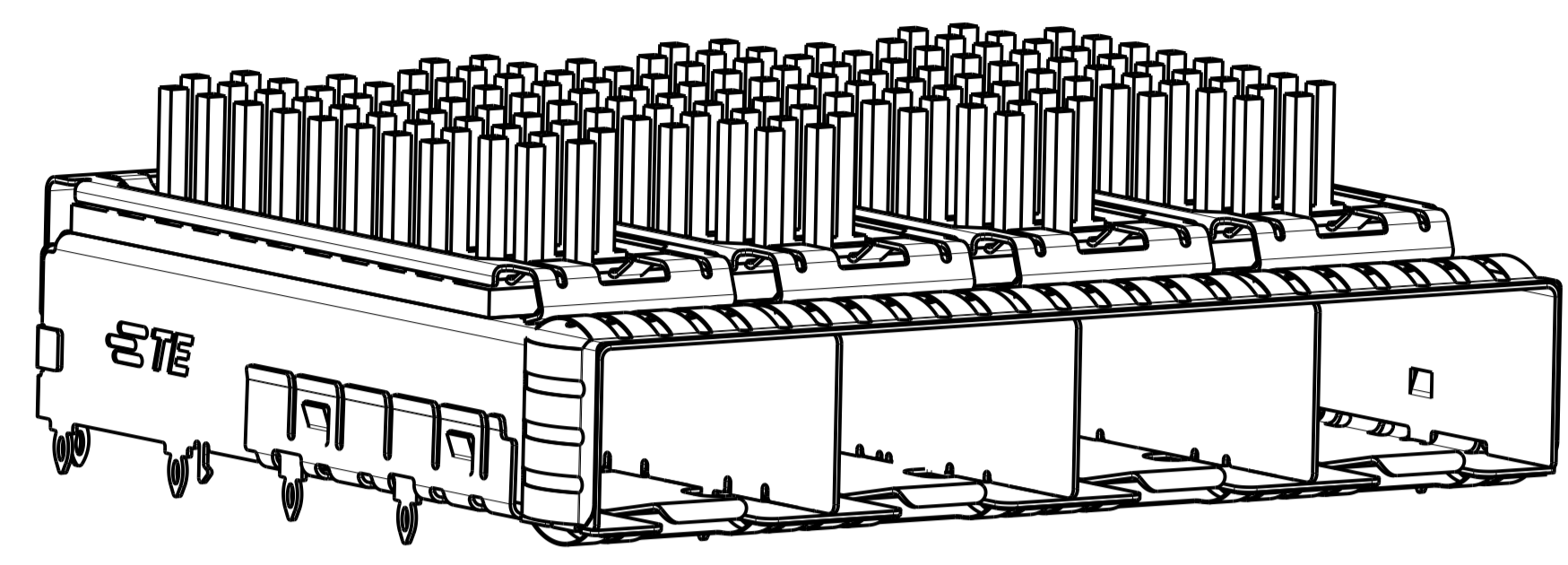
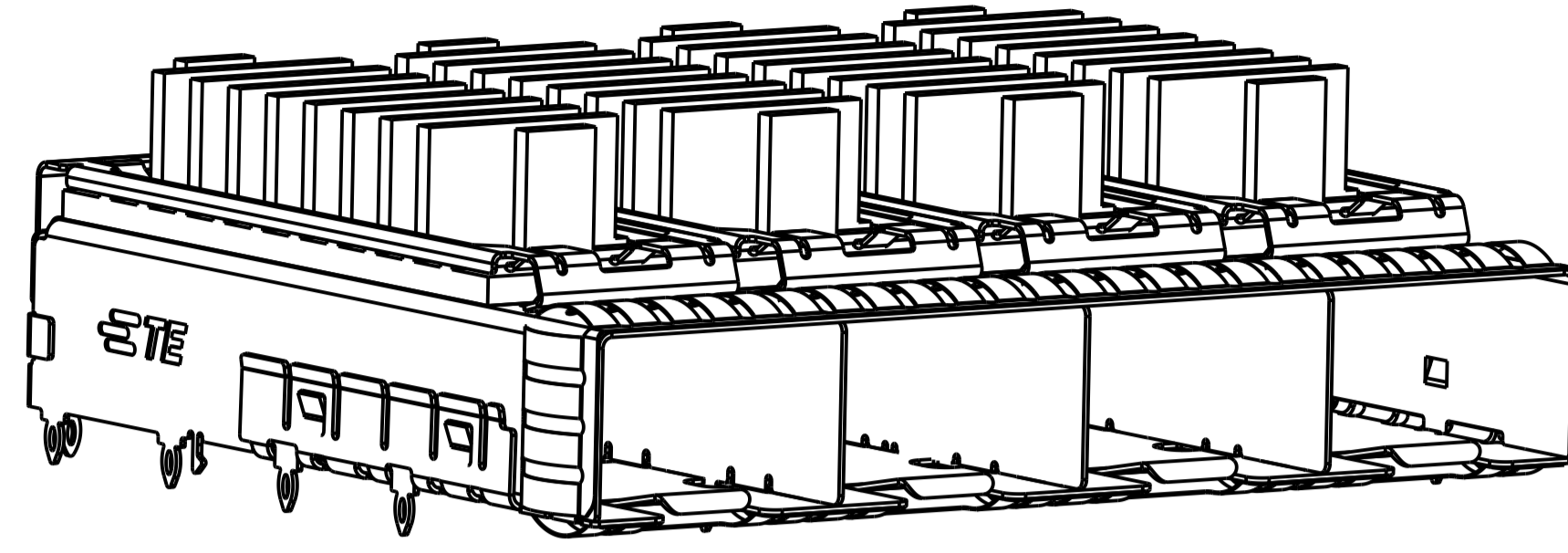


LOC	DIST	REVISIONS					
GP	00	P	LTN	DESCRIPTION	DATE	DWN	APVD
		A3		RELEASED PER ECO-15-006578	20APR2015	PP	SH
		A4		REVISED PER ECR-19-006709	10APR2019	IT	SH
		A5		REVISED PER ECO-20-000404	09JAN2020	IT	SH
		A6		REVISED PER ECR-20-015251	28OCT2020	IT	SH

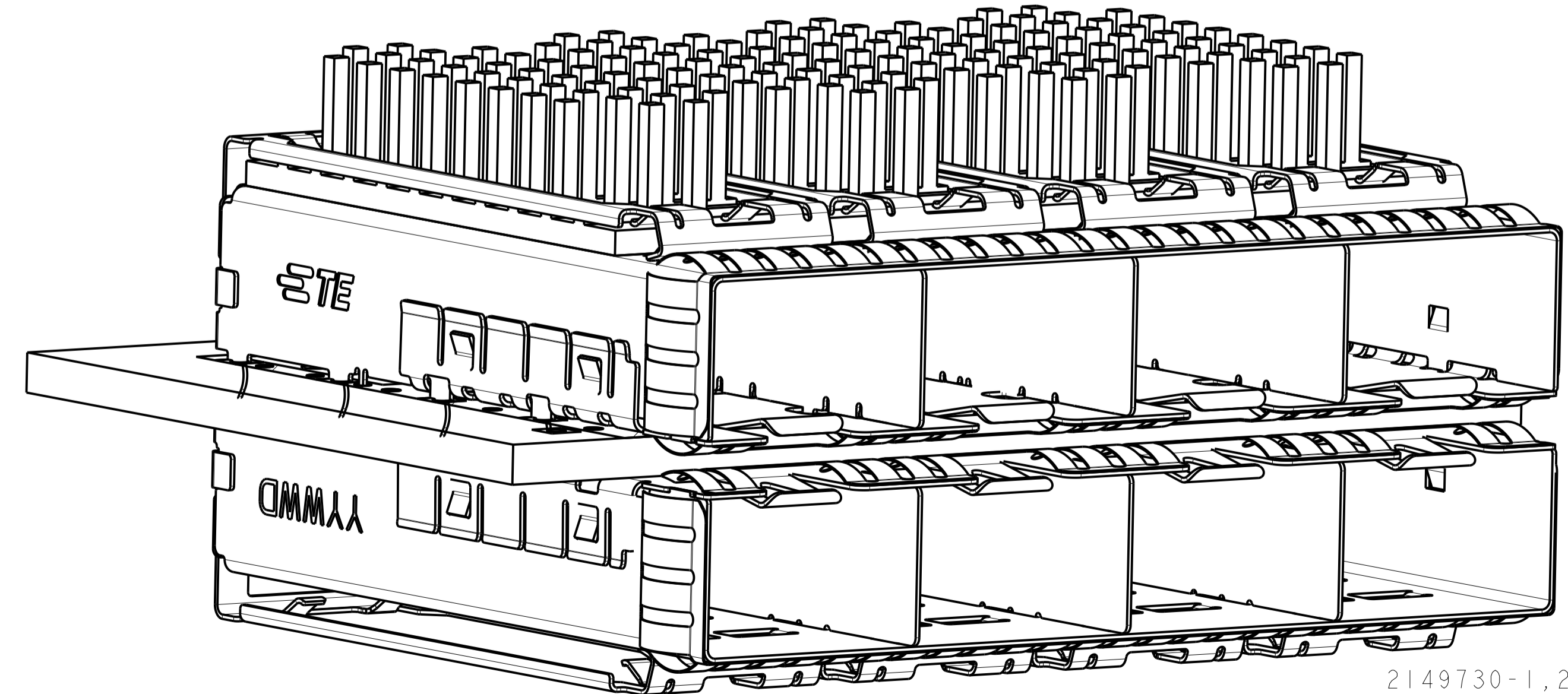
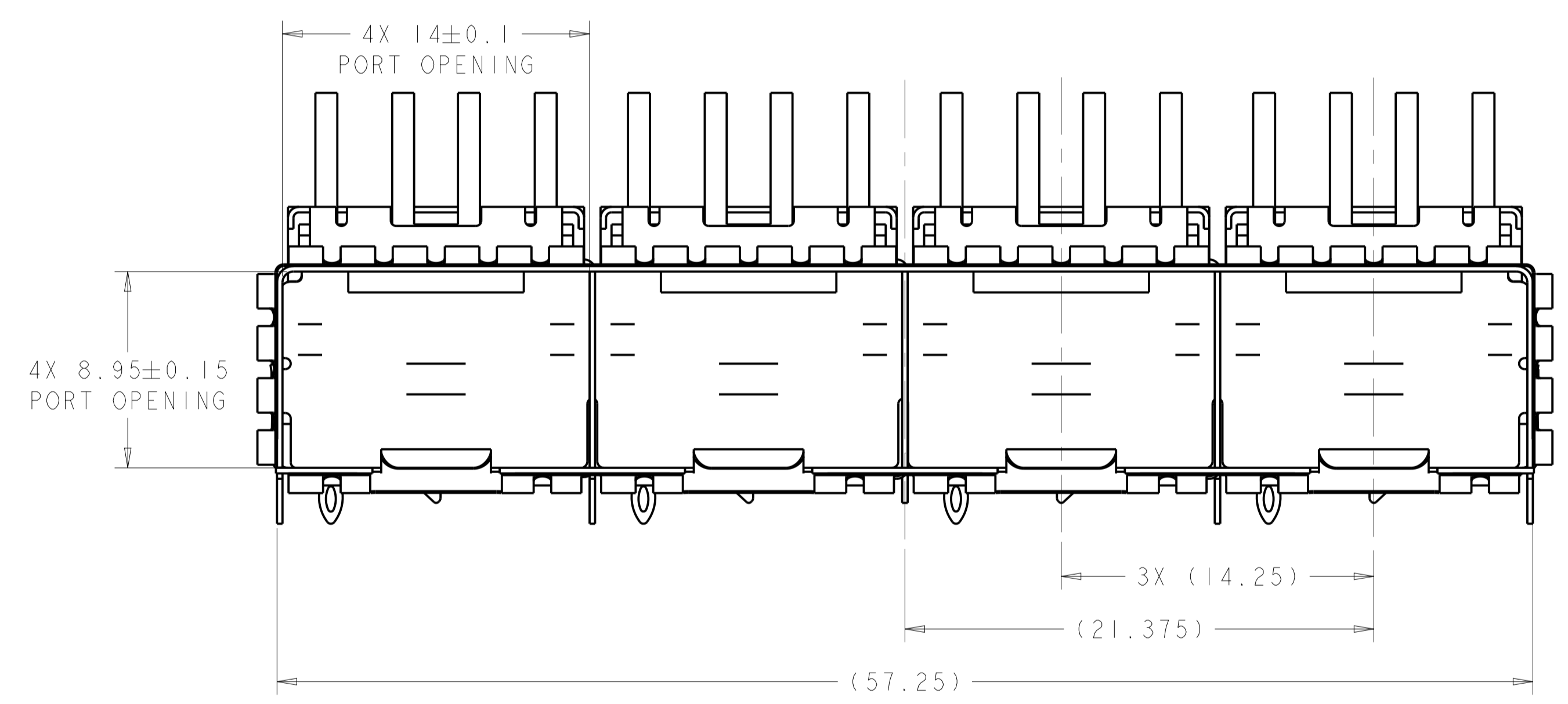
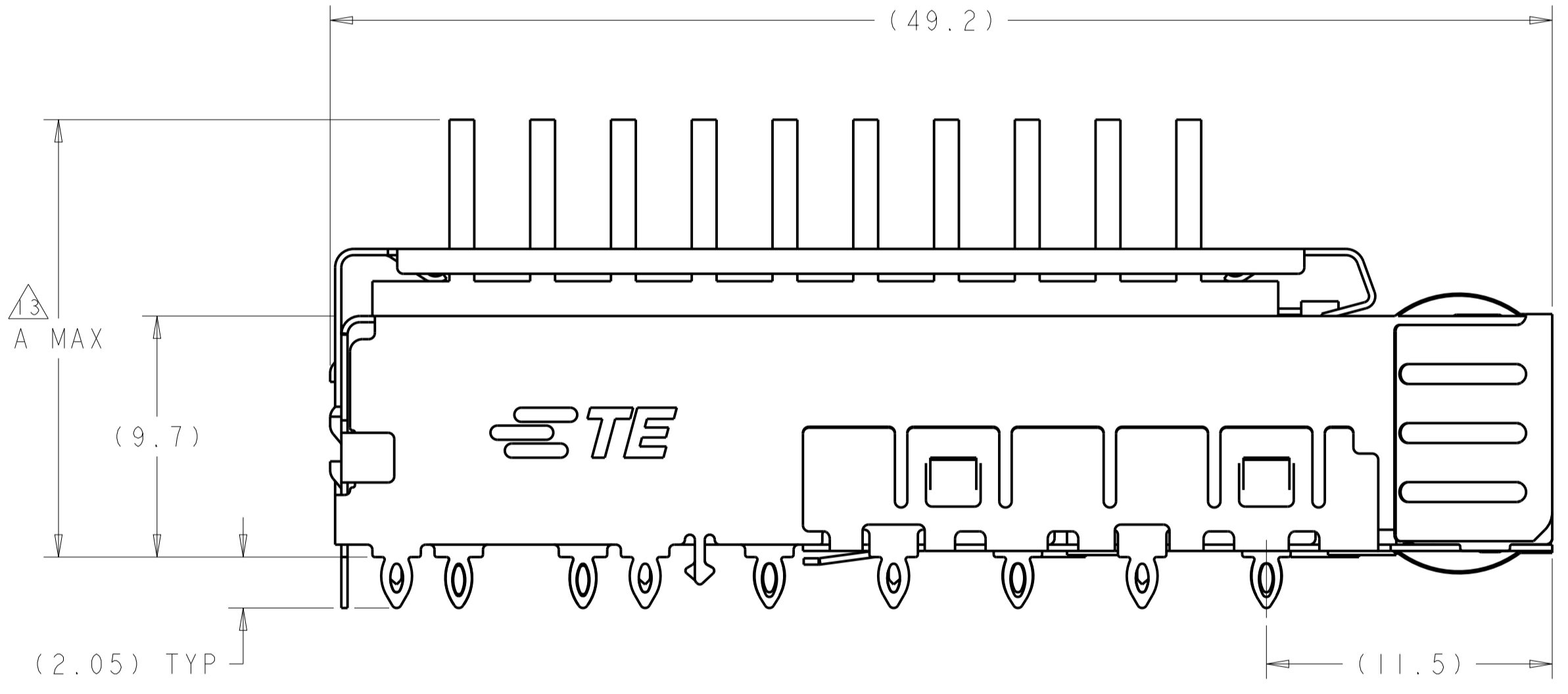


2149730-1,2,3,4,5  
 FINISHED ASSEMBLY WITH  
 PIN TYPE HEAT SINK



2149730-6,7,8,9,10  
 FINISHED ASSEMBLY WITH  
 FIN TYPE HEAT SINK

- 1. MATERIAL:  
 CAGE ASSEMBLY: 0.25mm THICK NICKEL SILVER ALLOY  
 HEATSINK CLIP: STAINLESS STEEL  
 HEATSINK: ALUMINUM
- 2. FINISH:  
 EMI 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 = 1.50mm  
 DOUBLE SIDED = 2.25mm
- 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



2149730-1,2,3,4,5  
 MOUNTED BELLY TO BELLY ON PCB  
 SCALE 4:1

FIN TYPE	W/O INSULATING TAPE	N/A	CUSTOMIZED	1-2149730-3
PIN TYPE	W/O INSULATING TAPE	N/A	CUSTOMIZED	1-2149730-2
PIN TYPE	W/O INSULATING TAPE	N/A	CUSTOMIZED	1-2149730-1
FIN TYPE	W/ INSULATING TAPE	22.5	NETWORKING, TALL	2149730-10
FIN TYPE	W/O INSULATING TAPE	22.5	NETWORKING, TALL	2149730-9
FIN TYPE	W/O INSULATING TAPE	15.5	SAN	2149730-8
FIN TYPE	W/O INSULATING TAPE	13.2	PCI	2149730-7
FIN TYPE	W/O INSULATING TAPE	18.1	NETWORKING, SHORT	2149730-6
PIN TYPE	W/ INSULATING TAPE	22.5	NETWORKING, TALL	2149730-5
PIN TYPE	W/O INSULATING TAPE	22.5	NETWORKING, TALL	2149730-4
PIN TYPE	W/O INSULATING TAPE	15.5	SAN	2149730-3
PIN TYPE	W/O INSULATING TAPE	13.2	PCI	2149730-2
PIN TYPE	W/O INSULATING TAPE	18.1	NETWORKING, SHORT	2149730-1
HEAT SINK TYPE	DESCRIPTION	A MAX	APPLICATION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DWG: M. SCHMITZ 23AUG2010  
 CHK: M. SCHMITZ 23AUG2010  
 APVD: B. WERTZ 23AUG2010

TE Connectivity

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

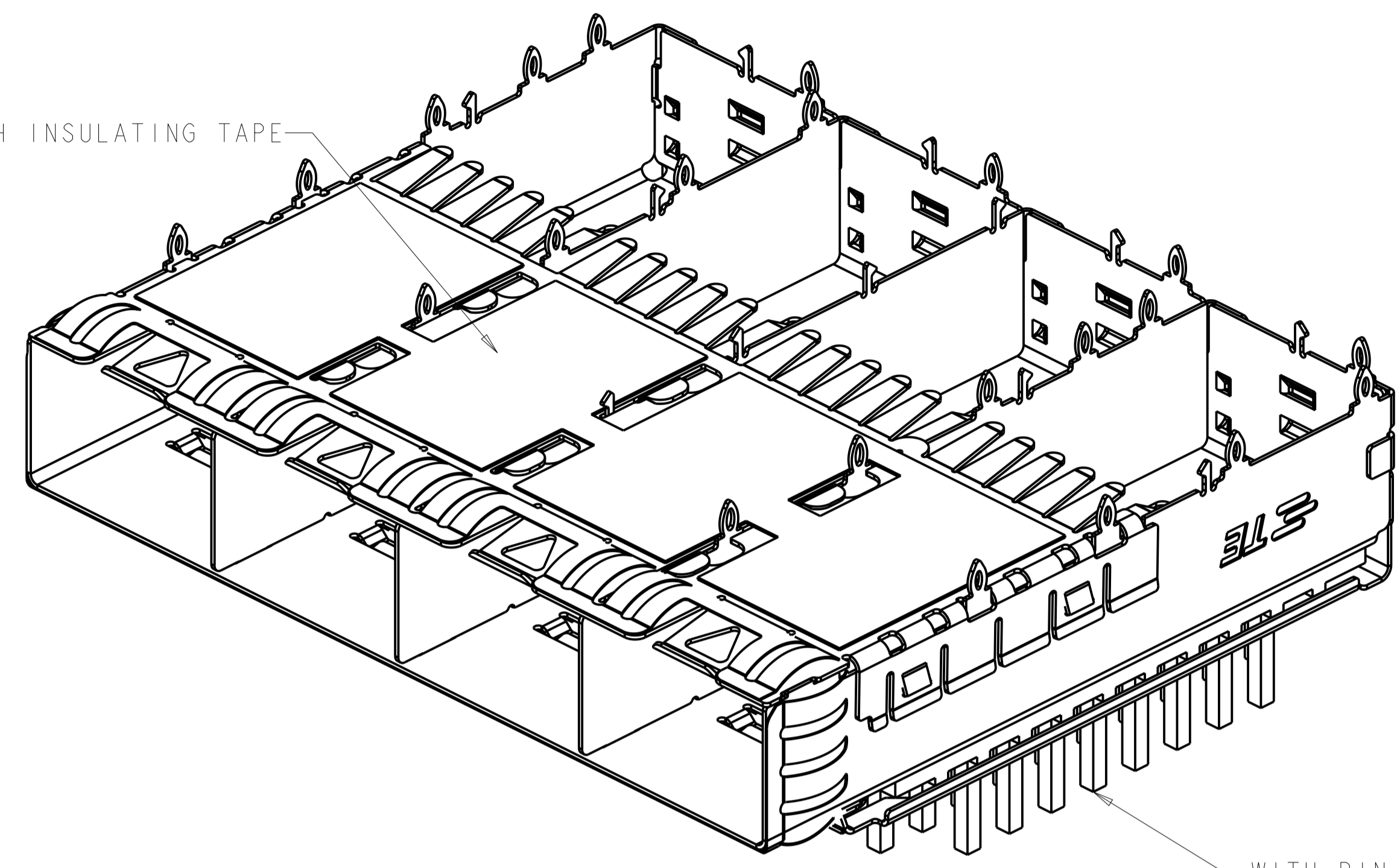
PRODUCT SPEC: 108-2364  
 APPLICATION SPEC: 114-13120

SIZE: A1  
 CAGE CODE: 100779  
 DRAWING NO: 2149730

Customer Drawing SCALE: 5:1 SHEET 1 OF 8 REV: A6

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

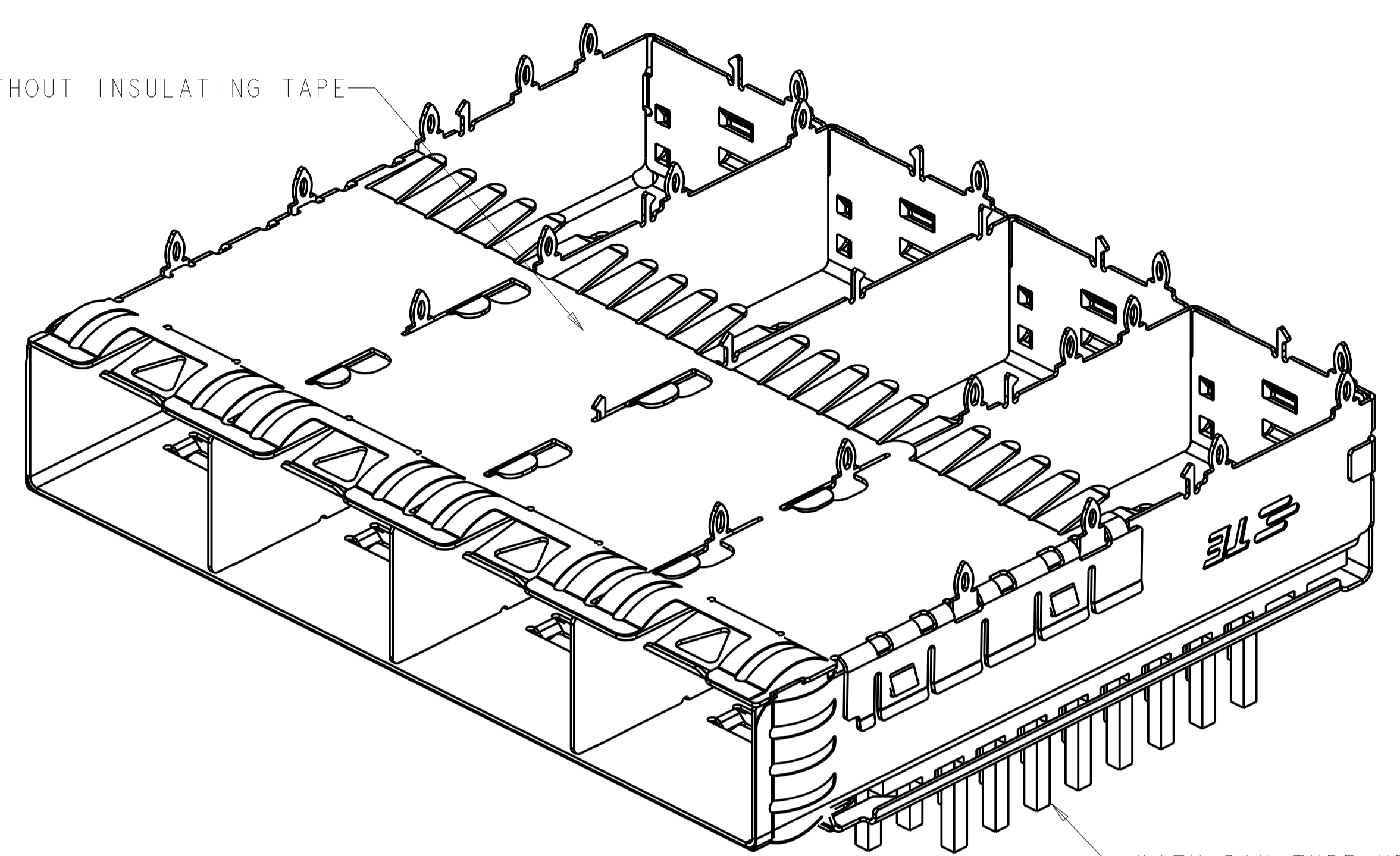
WITH INSULATING TAPE



WITH PIN TYPE HEAT SINK

2149730-5 AS SHOWN WITH INSULATING TAPE, WITH PIN TYPE HEAT SINK

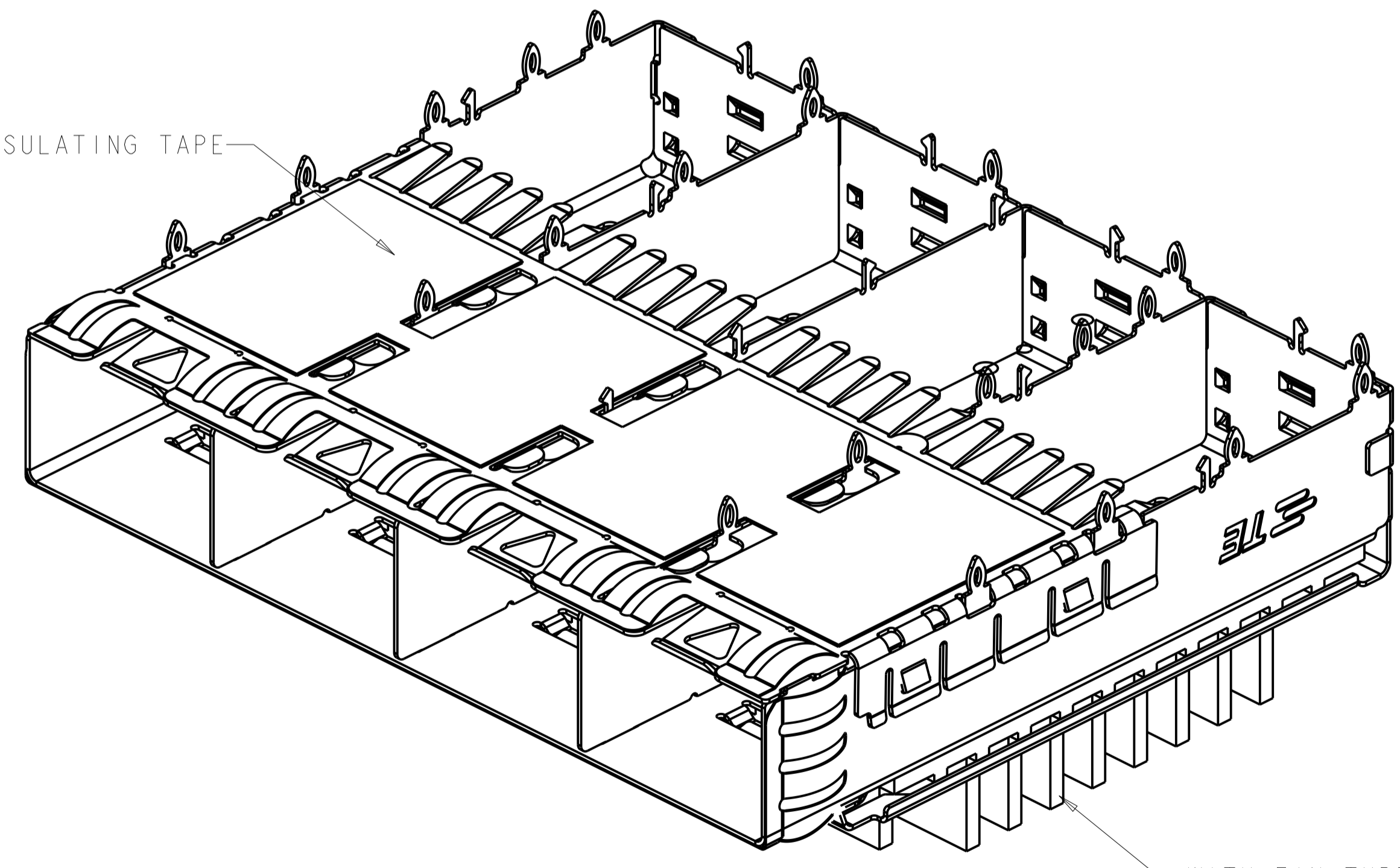
WITHOUT INSULATING TAPE



WITH PIN TYPE HEAT SINK

2149730-1,2,3,4 AS SHOWN WITHOUT INSULATING TAPE, WITH PIN TYPE HEAT SINK

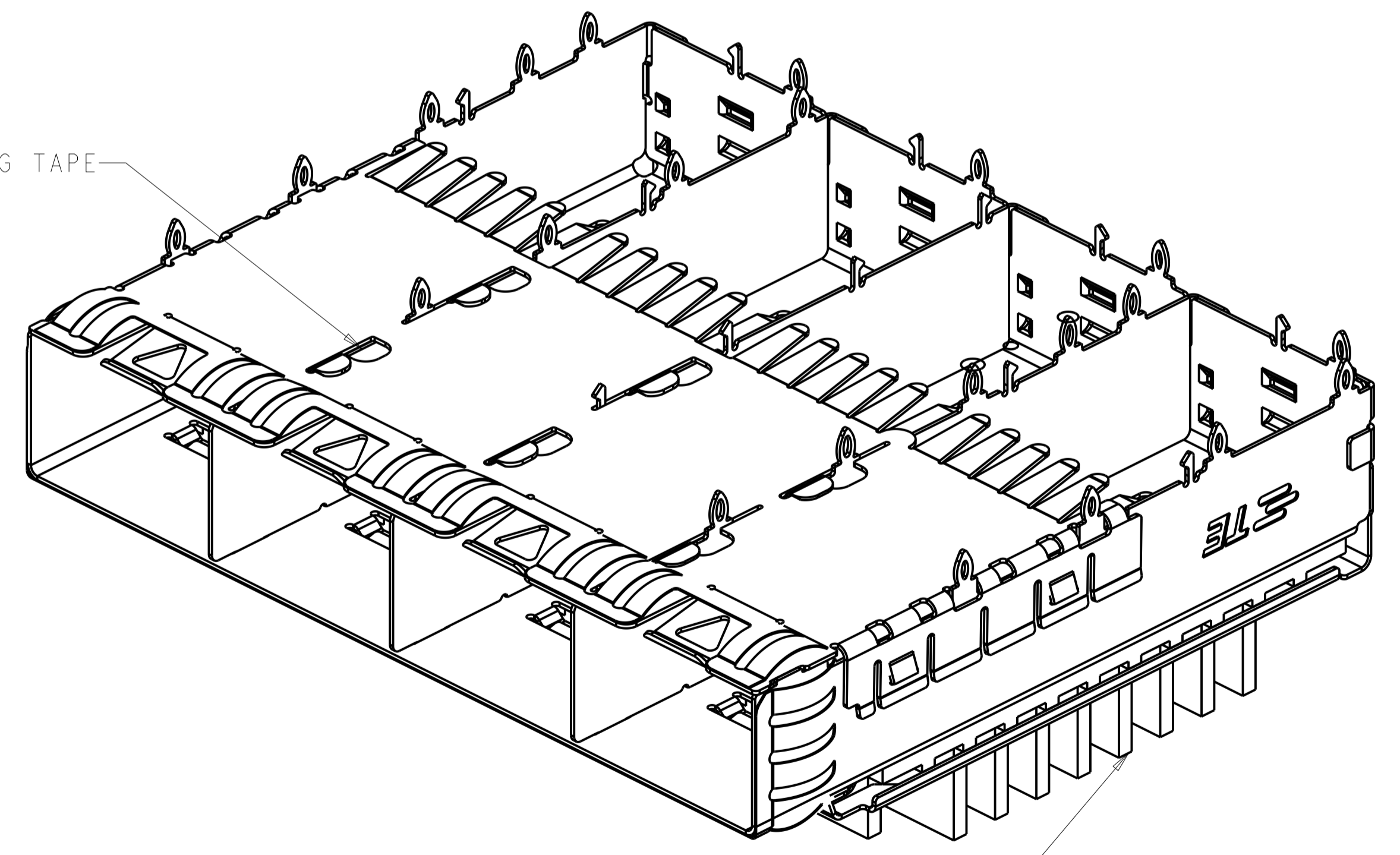
WITH INSULATING TAPE



WITH FIN TYPE HEAT SINK

2149730-10 AS SHOWN WITH INSULATING TAPE, WITH FIN TYPE HEAT SINK

WITHOUT INSULATING TAPE



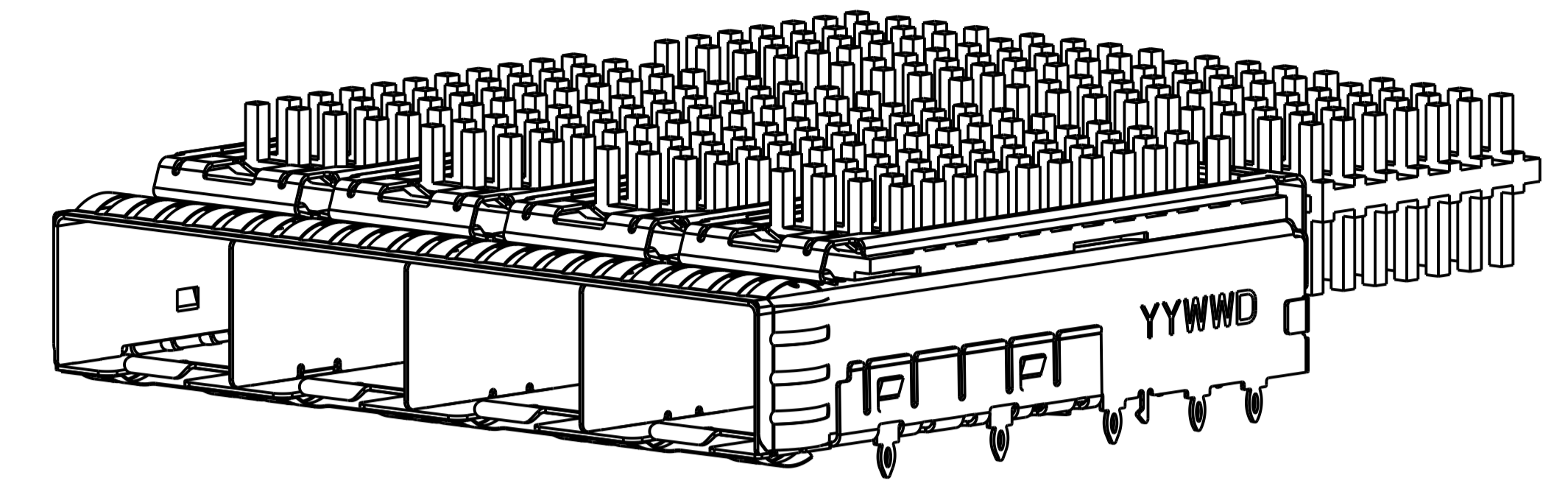
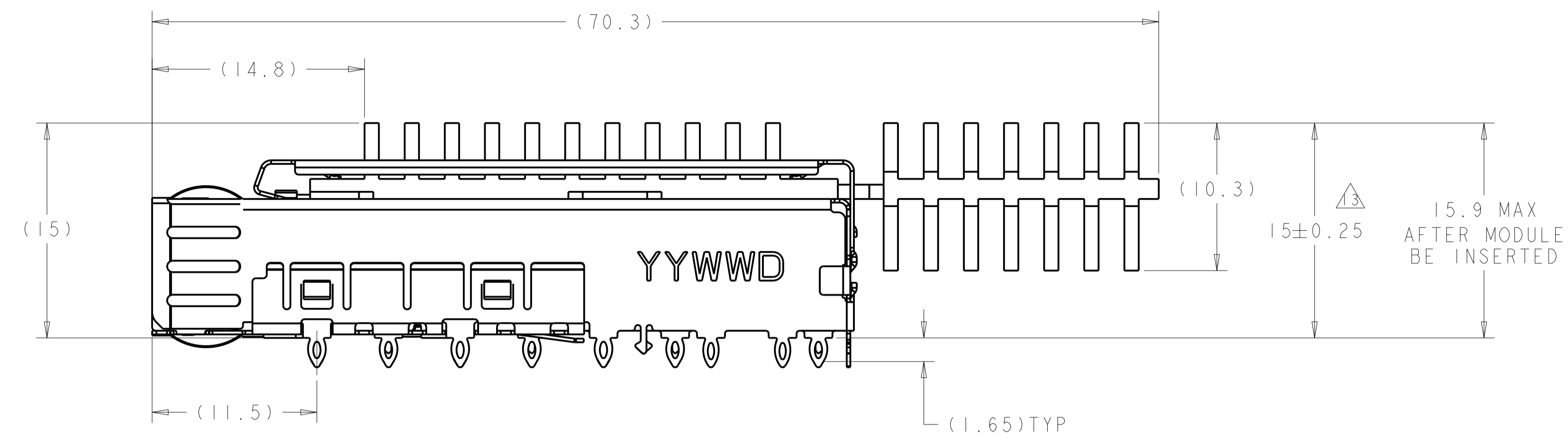
WITH FIN TYPE HEAT SINK

2149730-6,7,8,9 AS SHOWN WITHOUT INSULATING TAPE, WITH FIN TYPE HEAT SINK

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	 TE Connectivity
DIMENSIONS:		CHK: M. SCHMITT 23AUG2010	
mm	0 PLC ±0.1	APPV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY
	1 PLC ±0.1	PRODUCT SPEC: 108-2364	PRESS FIT, EXTERNAL EMI SPRINGS
	2 PLC ±0.1	APPLICATION SPEC: 114-13120	WITH HEATSINK
	3 PLC ±0.1	WEIGHT: -	SIZE: A100779C=2149730
	4 PLC ±0.1	FINISH: -	RESTRICTED TO: -
MATERIAL:	ANGLES: ±1°	Customer Drawing	SCALE: 5:1 SHEET 2 OF 8 REV: A6

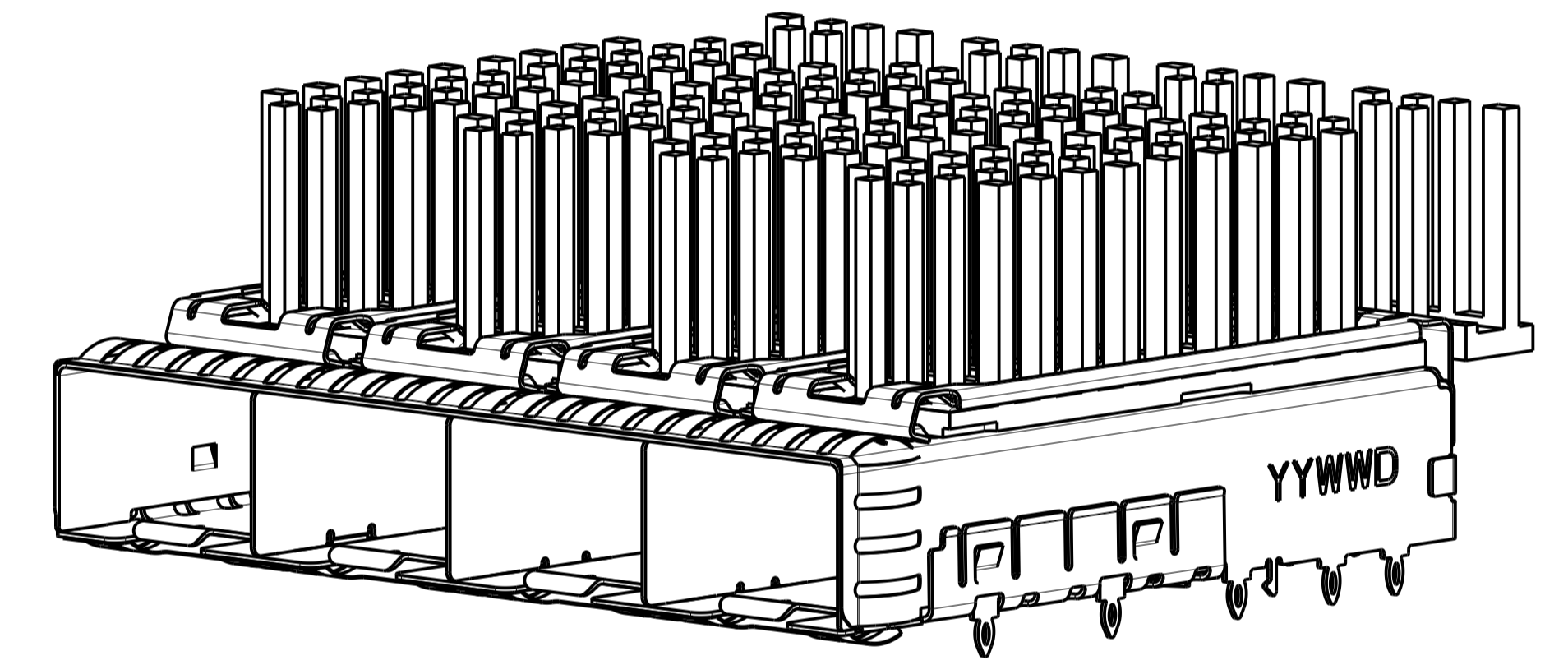
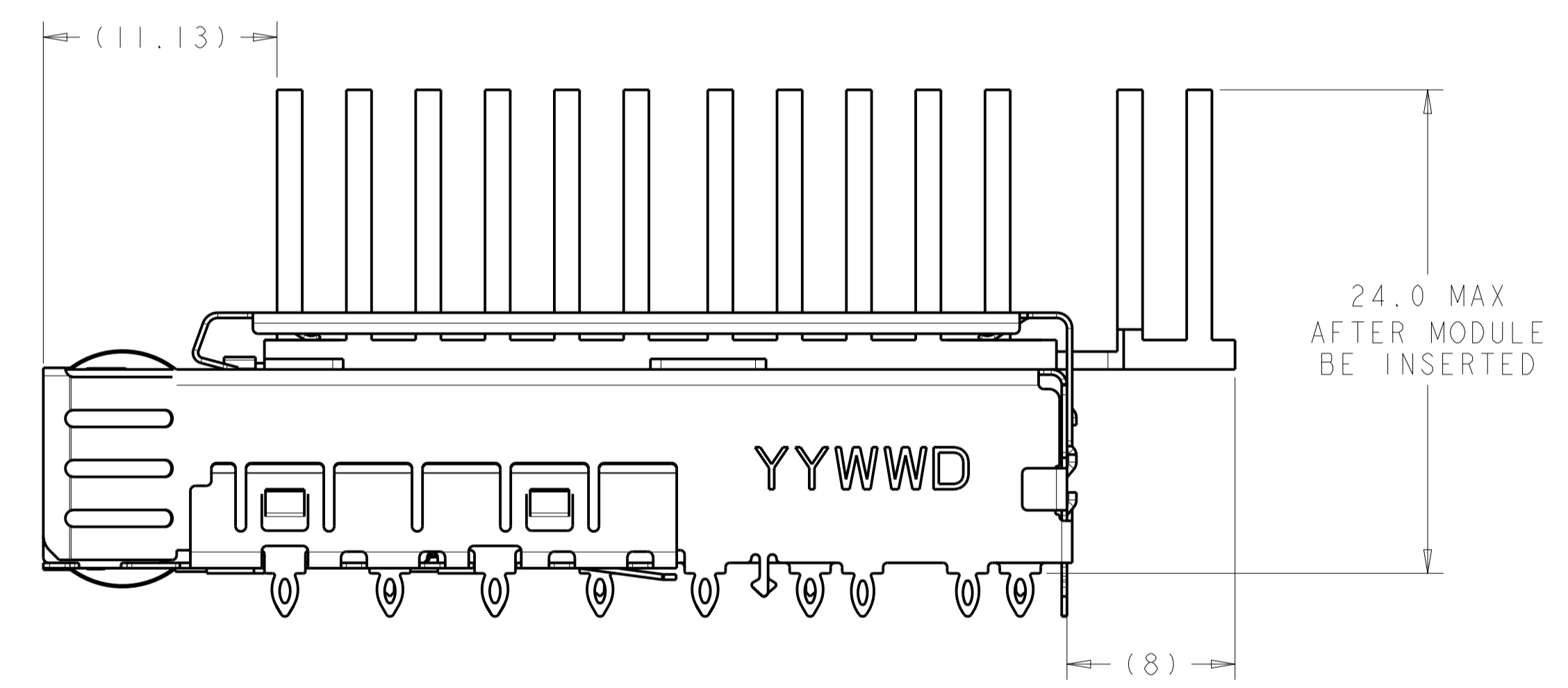
LOC		DIST		REVISIONS			
GP	00	P	LTN	DESCRIPTION	DATE	DWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-

1-2149730-1 AS SHOWN  
UNMARKED SAME AS 2149730-1



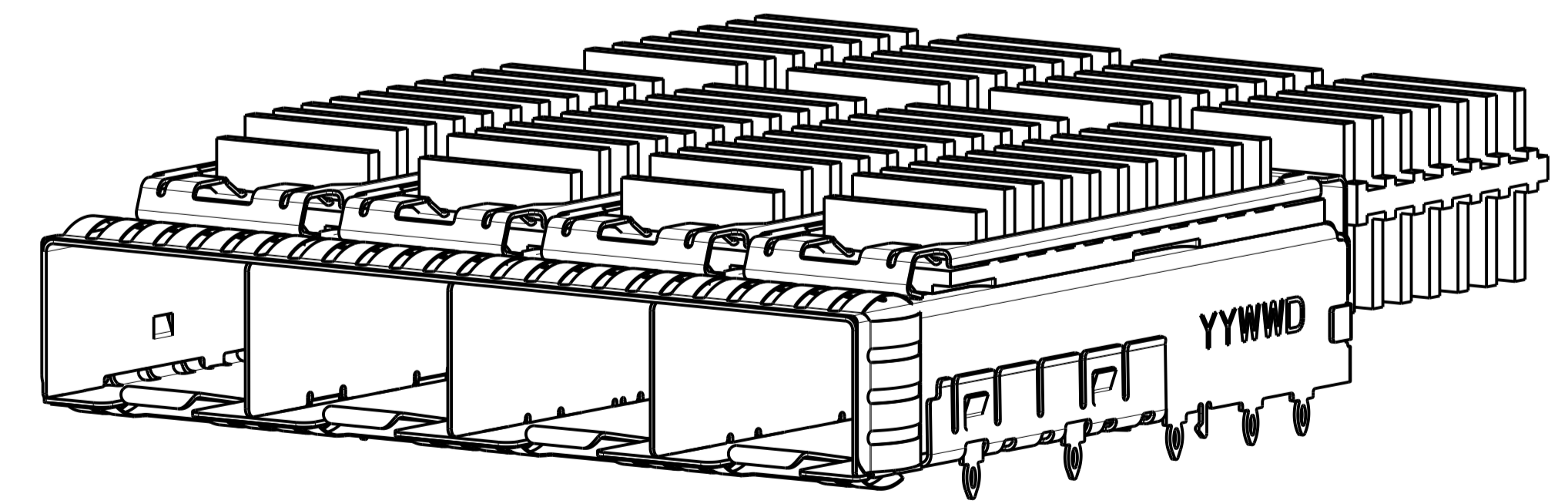
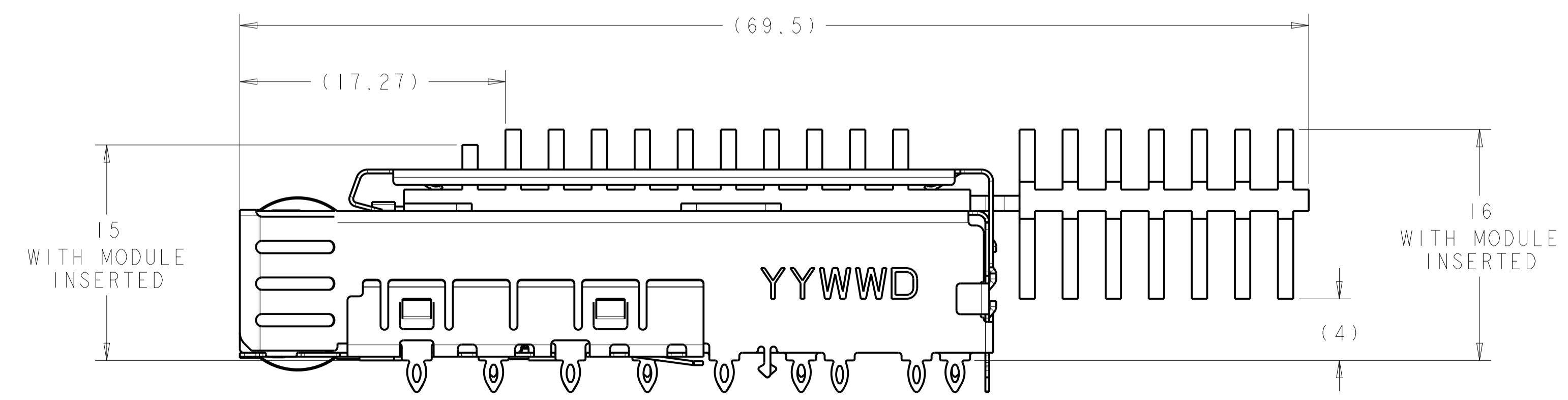
1-2149730-1 3D VIEW  
SCALE 3:1

1-2149730-2 AS SHOWN  
UNMARKED SAME AS 2149730-1



1-2149730-2 3D VIEW  
SCALE 3:1

1-2149730-3 AS SHOWN  
UNMARKED SAME AS 2149730-1



1-2149730-3 3D VIEW  
SCALE 3:1

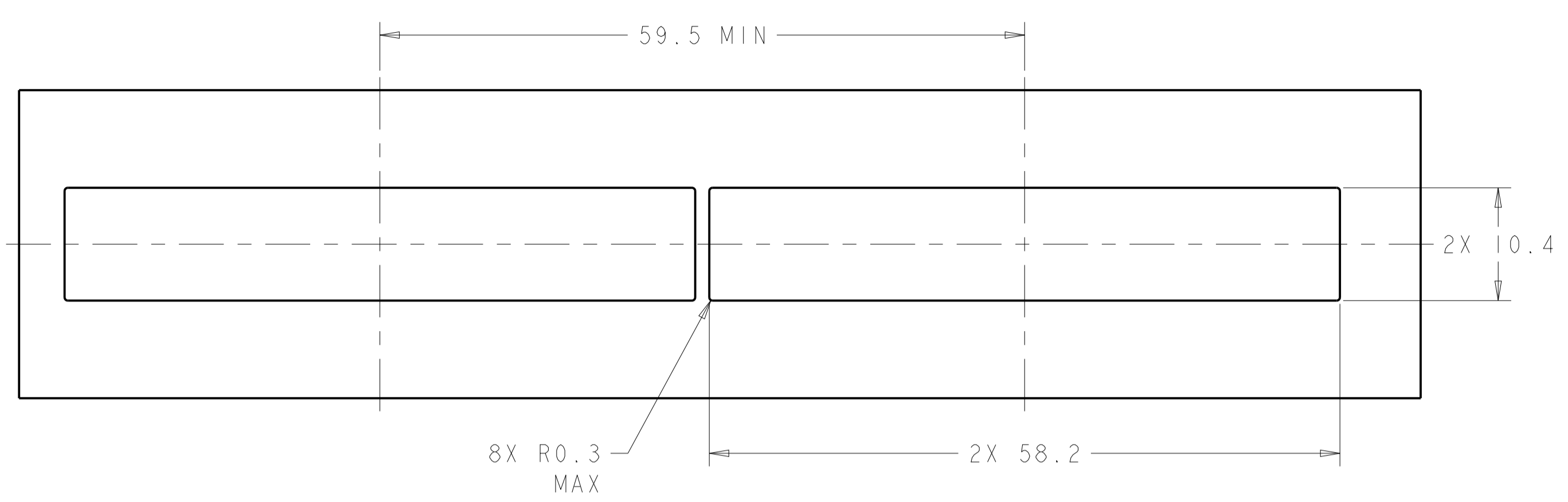
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC	±0.1	PRODUCT SPEC	SIZE: CAGE CODE DRAWING NO
1 PLC	±0.1	108-2364	RESTRICTED TO
2 PLC	±0.1	APPLICATION SPEC	A100779C=2149730
3 PLC	±0.1	114-13120	SCALE 5:1 SHEET 3 OF 8 REV A6
4 PLC	±0.1	WEIGHT	
ANGLES	±1°	Customer Drawing	
MATERIAL	FINISH		

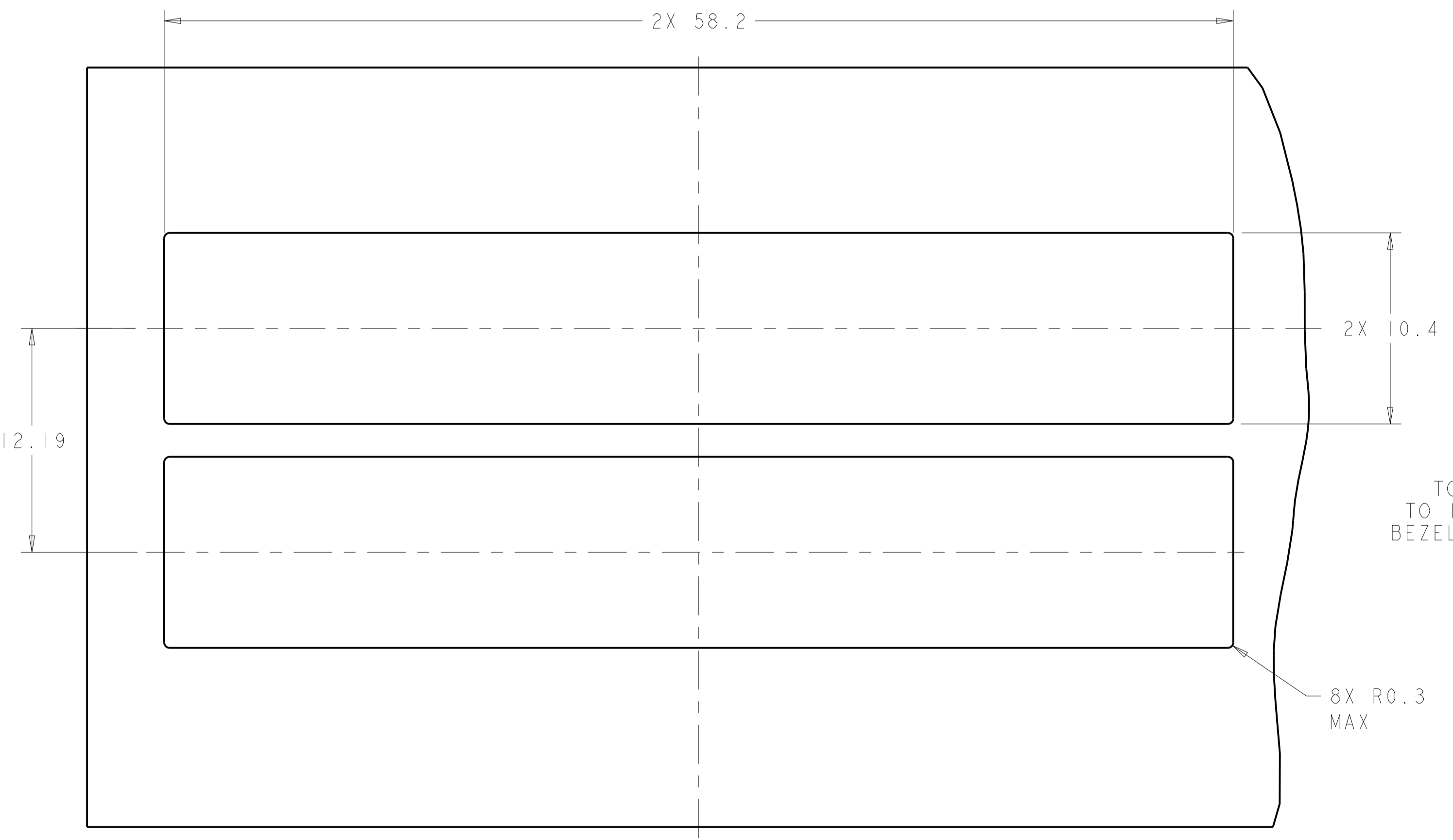
LOC	DIST	REV	DATE	BY	APPV
GP	00				

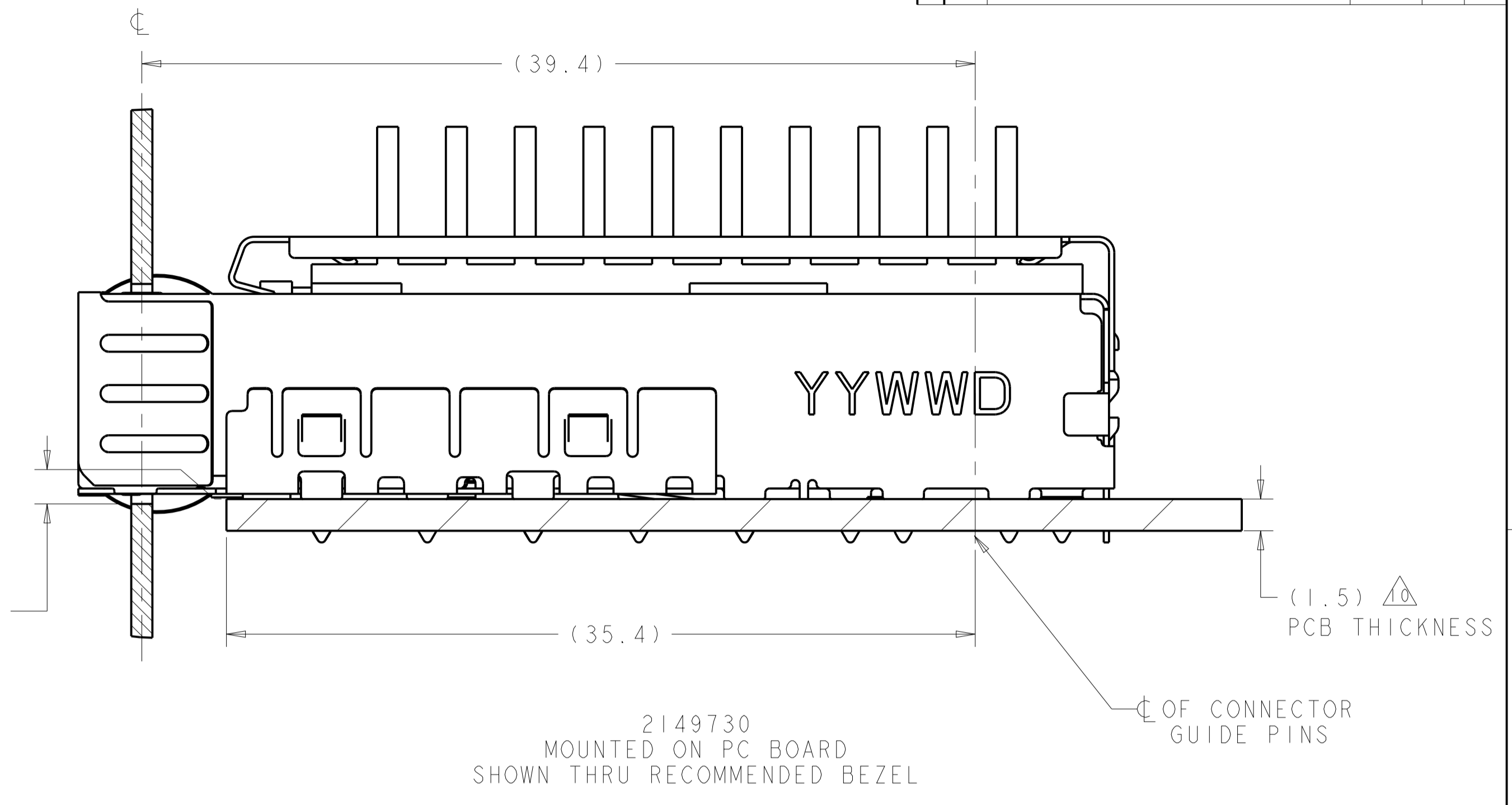
REVISIONS			
NO.	DESCRIPTION	DATE	BY
-	SEE SHEET 1	-	-



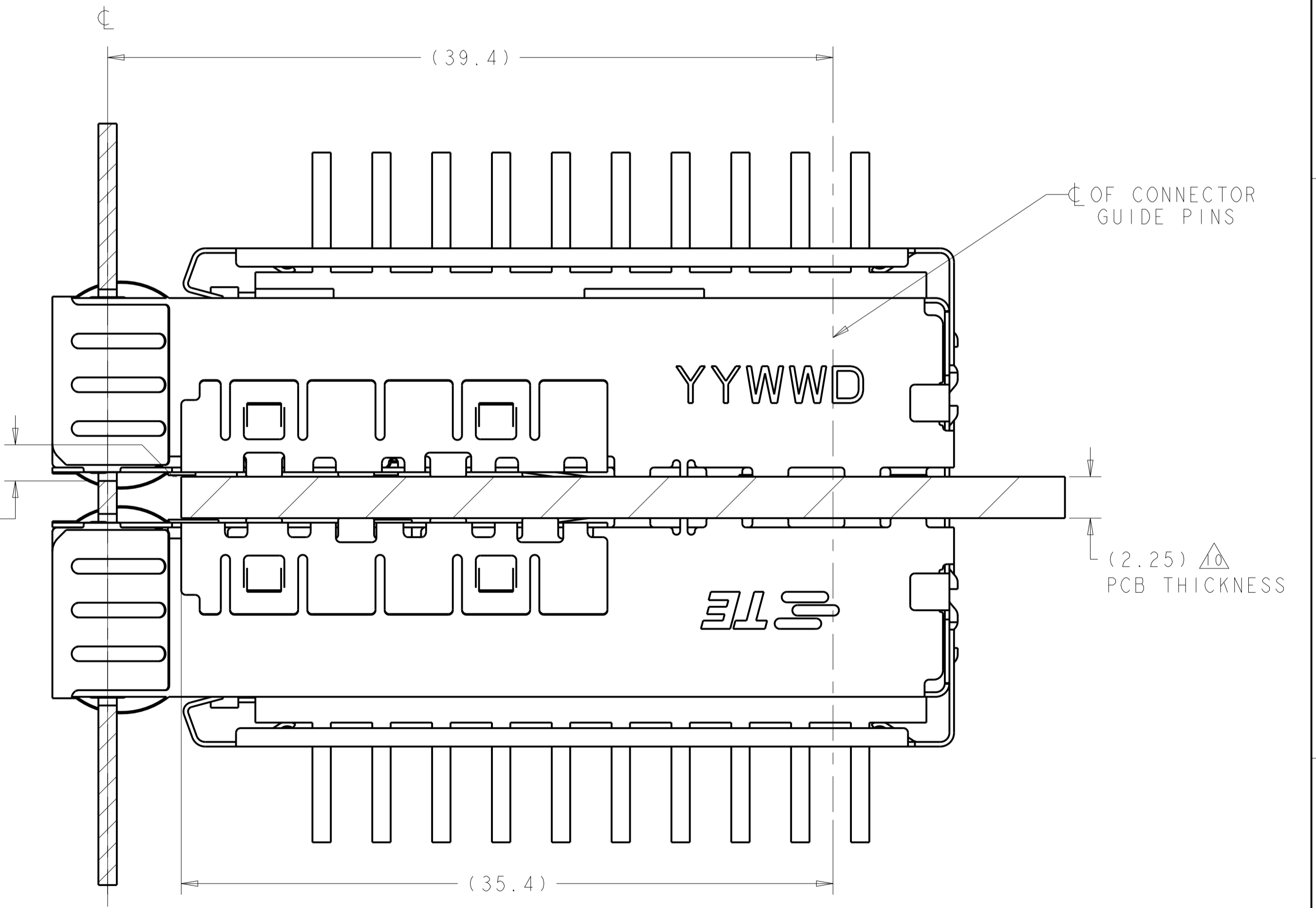
RECOMMENDED BEZEL CUT-OUT  
 SINGLE SIDED APPLICATIONS  
 SCALE 5:2



RECOMMENDED BEZEL CUT-OUT  
 BELLY TO BELLY APPLICATIONS



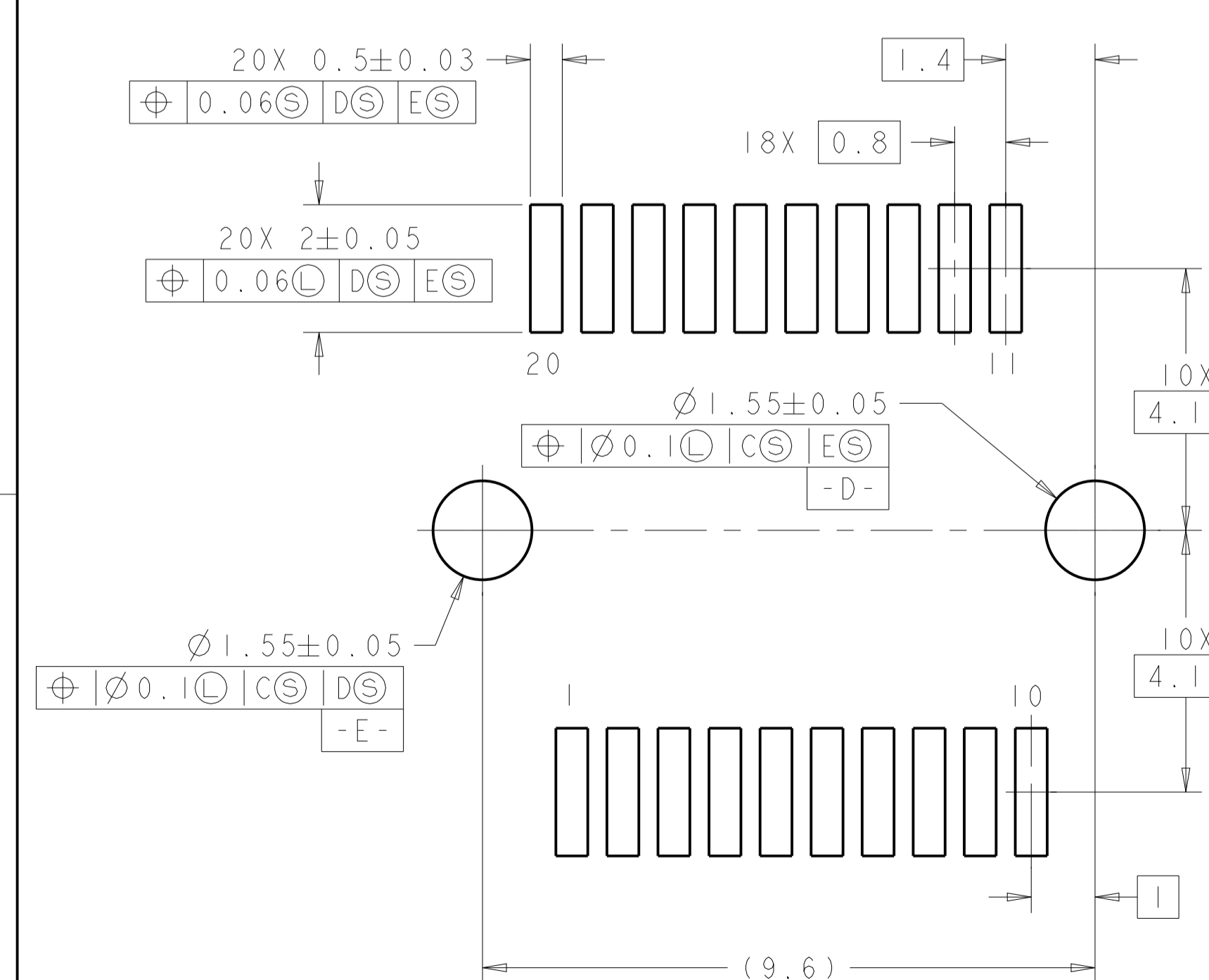
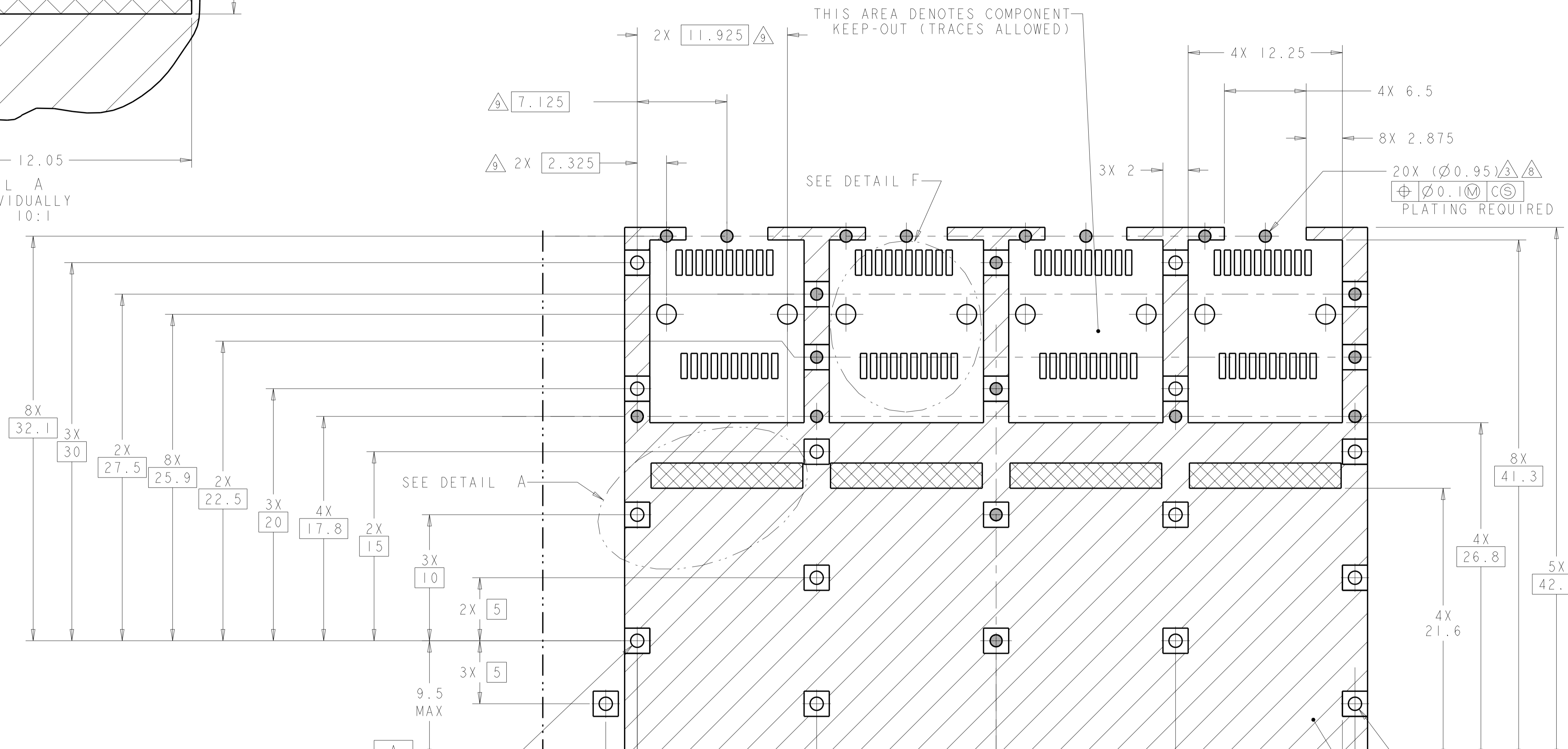
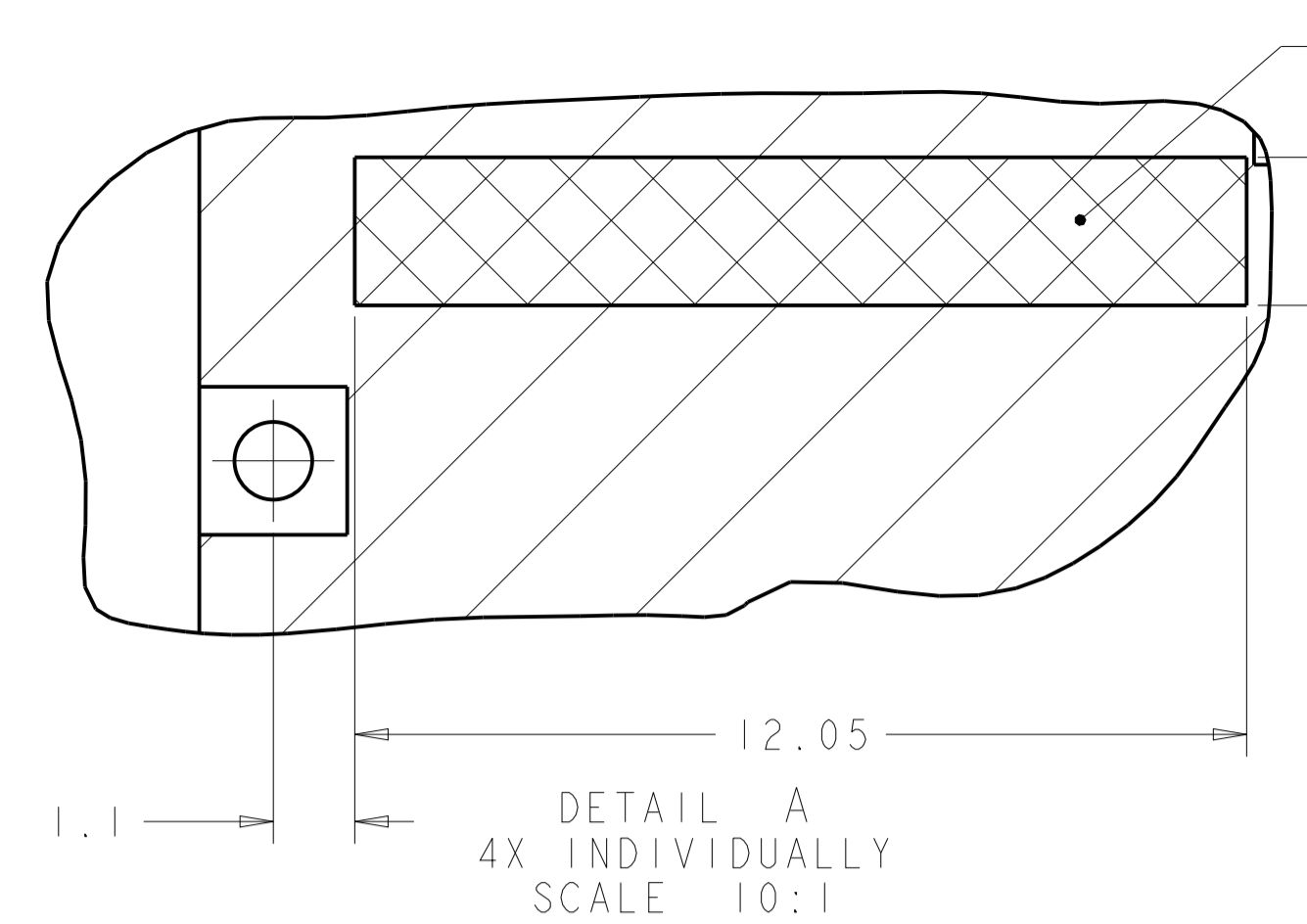
2149730  
 MOUNTED ON PC BOARD  
 SHOWN THRU RECOMMENDED BEZEL



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC	±0.1	PRODUCT SPEC	SIZE: CAGE CODE DRAWING NO
1 PLC	±0.1	108-2364	A100779C=2149730
2 PLC	±0.1	APPLICATION SPEC	RESTRICTED TO
3 PLC	±0.1	114-13120	Customer Drawing
4 PLC	±0.1	WEIGHT	SCALE 5:1 SHEET 4 OF 8 REV A6
ANGLES	±1°		
FINISH			

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



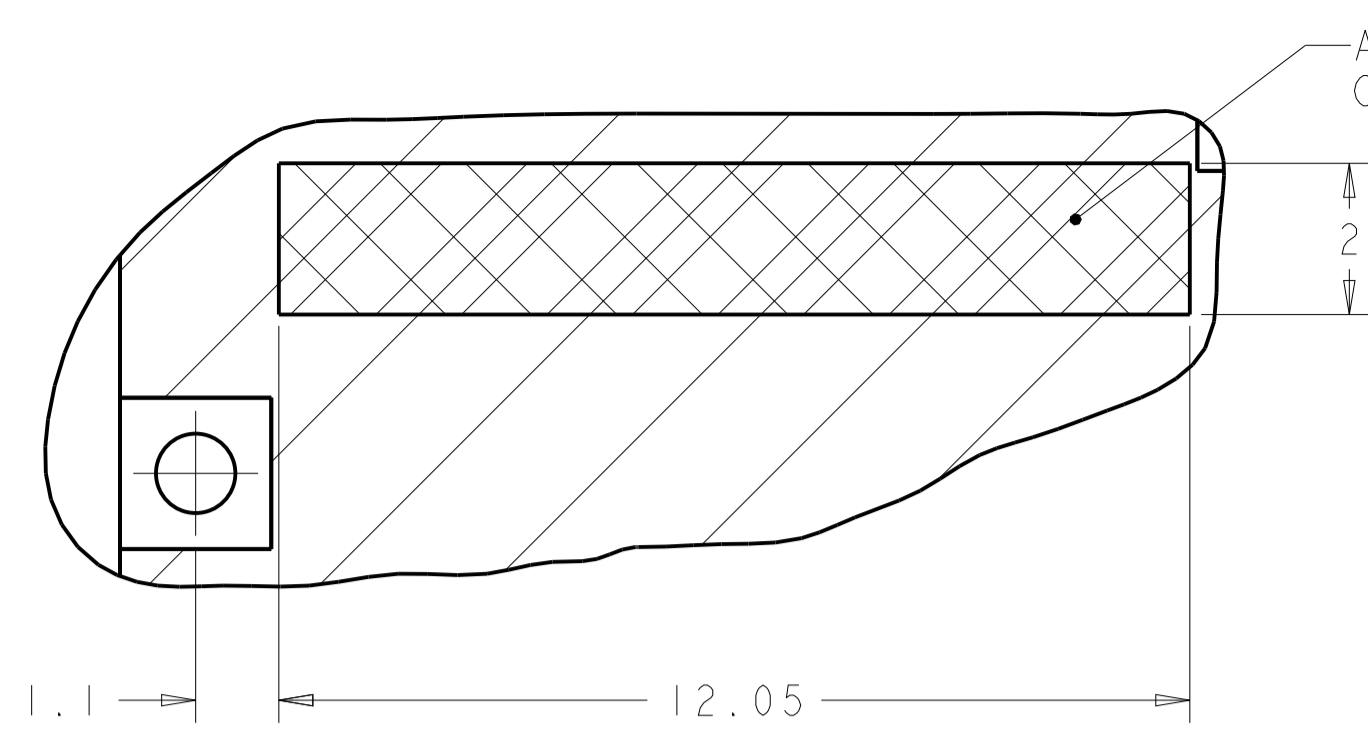
RECOMMENDED PCB CONFIGURATION WITH KEEP-OUT AREAS SINGLE SIDED APPLICATIONS SCALE 5:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120 SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2149730 RESTRICTED TO: -
0 PLC ±0.1		WEIGHT: -	
1 PLC ±0.1		SCALE: 5:1	
2 PLC ±0.1		SHEET: 5 OF 8	
3 PLC ±0.1		REV: A6	
4 PLC ±0.1			
ANGLES ±1°			
MATERIAL: -			
FINISH: -			

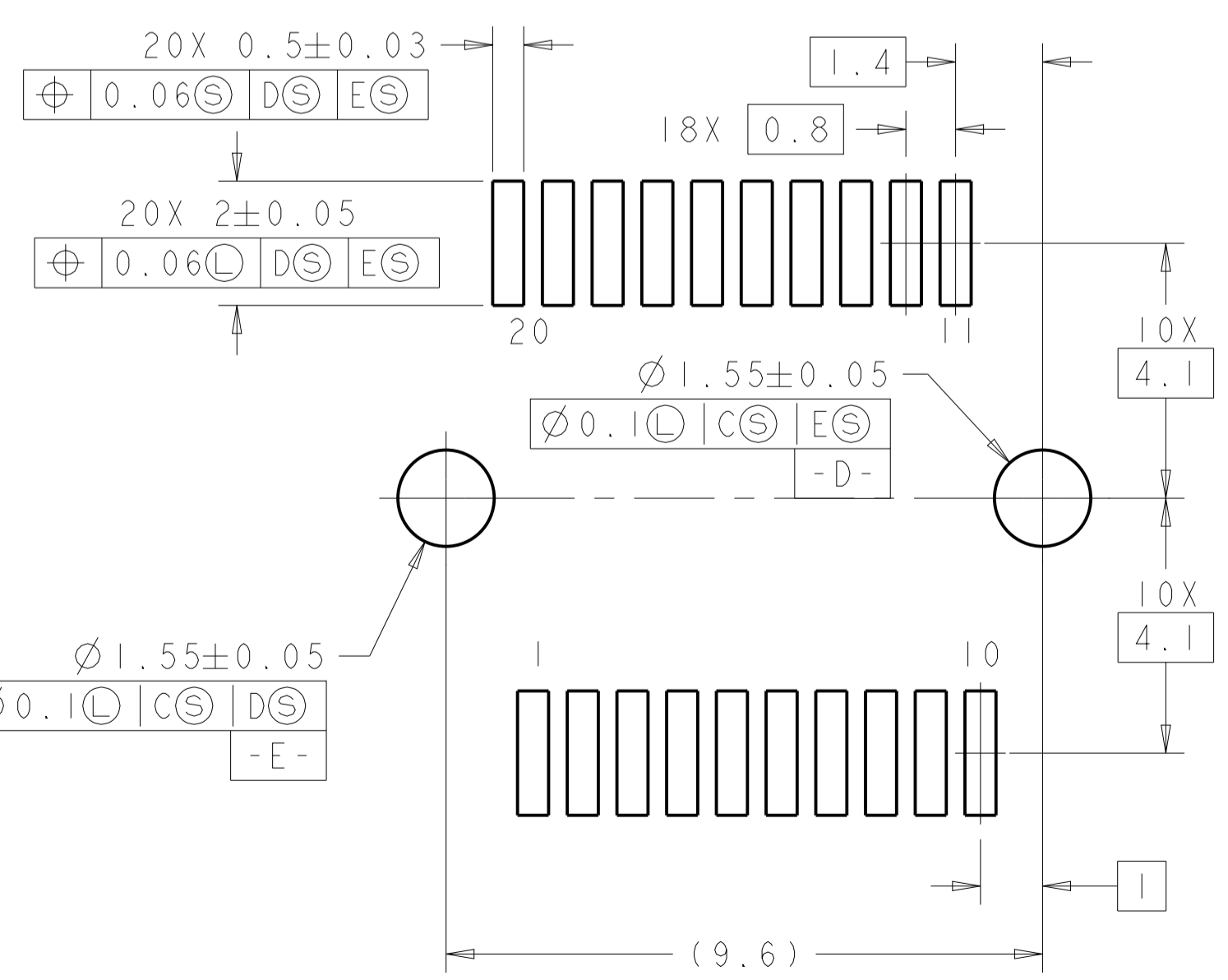
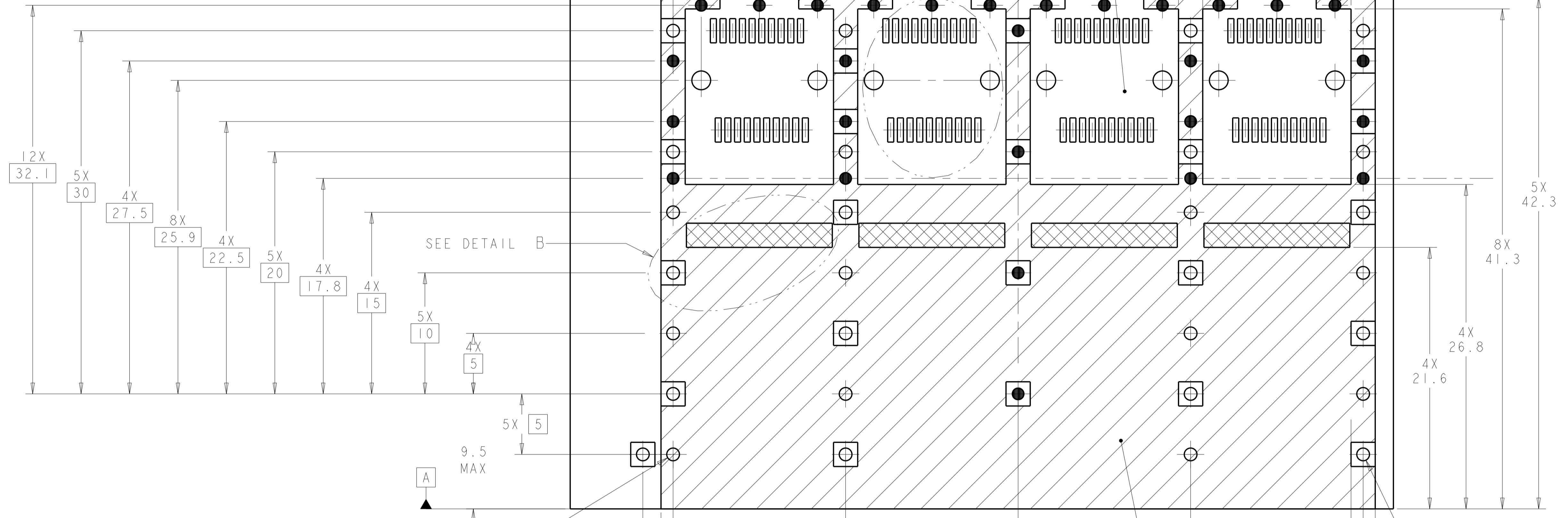
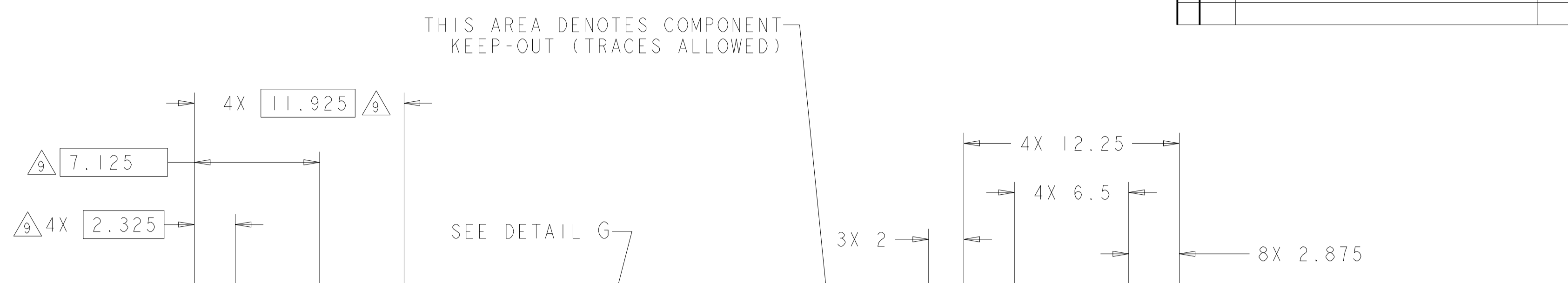
LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS				
REV	DATE	BY	APPV	DESCRIPTION
-	-	-	-	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  $\Delta$

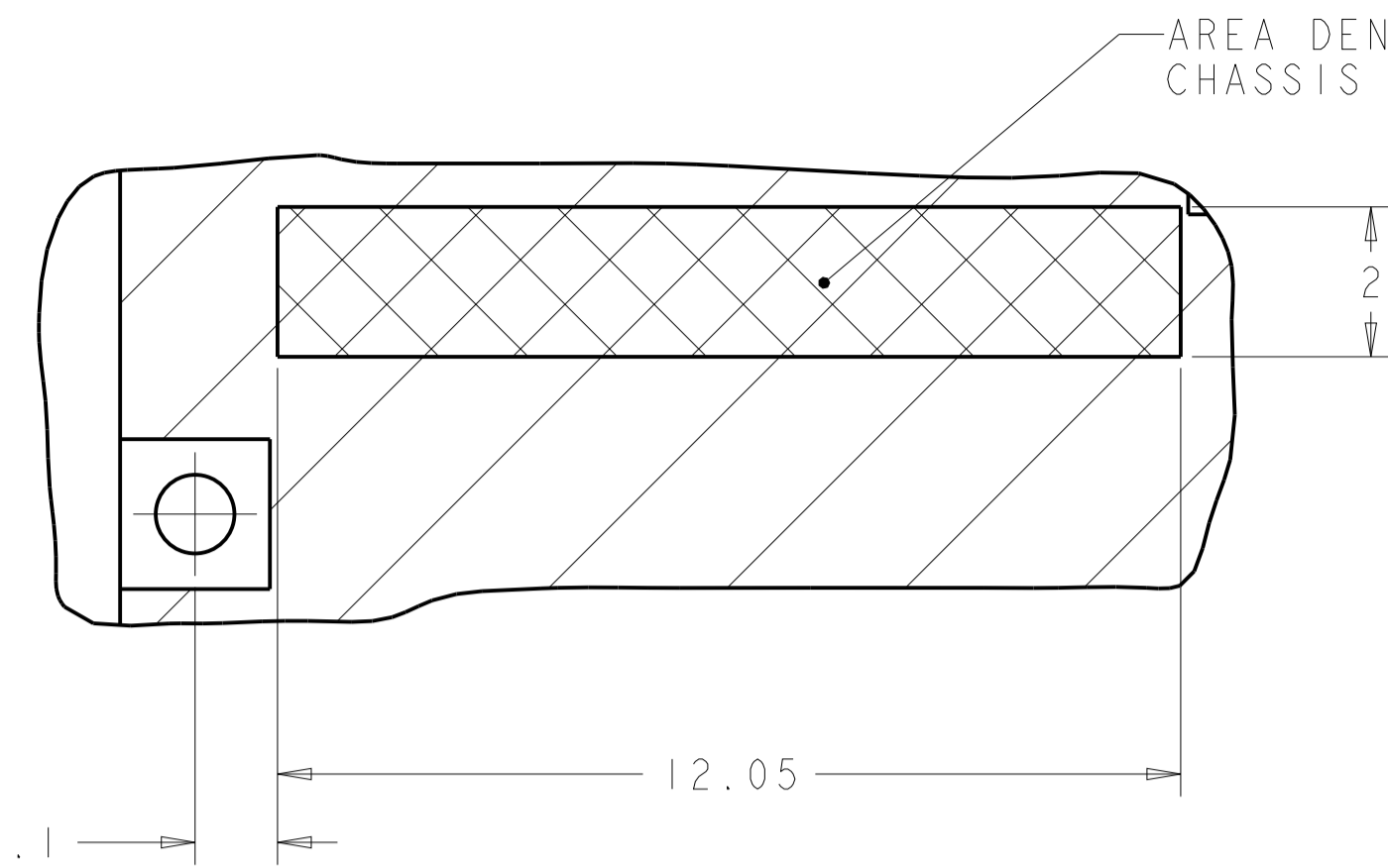
CROSS-HATCHED AREA DENOTES  
COMPONENT AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	<b>STE</b> TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.1		PRODUCT SPEC: 108-2364	
1 PLC ±0.1		APPLICATION SPEC: 114-13120	SIZE: A1
2 PLC ±0.1		WEIGHT: -	CAGE CODE: C=2149730
3 PLC ±0.1		FINISH: ±1 $\mu$ m	DRAWING NO: 2149730
4 PLC ±0.1		ANGLES: -	SCALE: 5:1
MATERIAL: $\Delta$		Customer Drawing	SHEET 6 OF 8
FINISH: $\Delta$			REV: A6

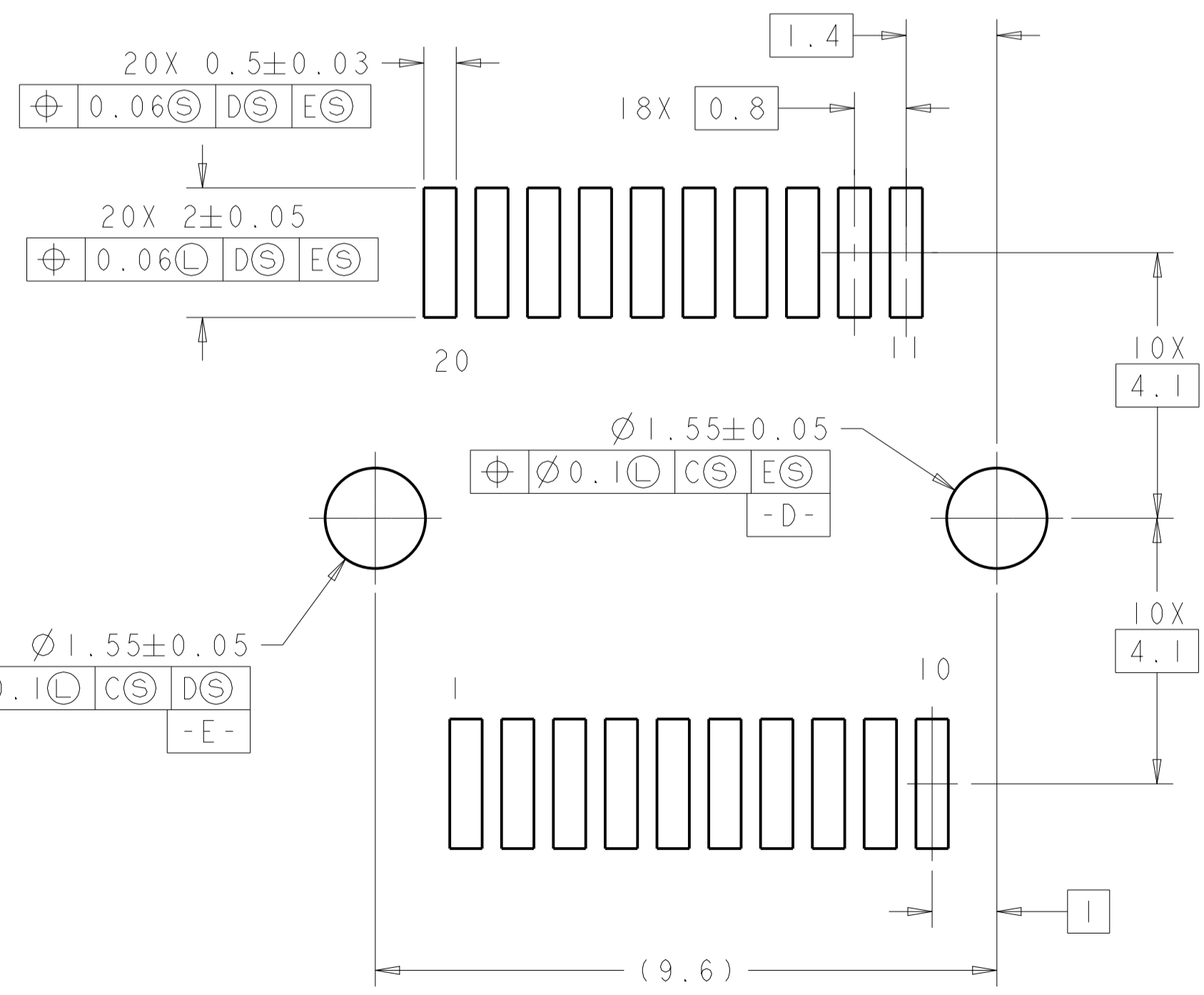
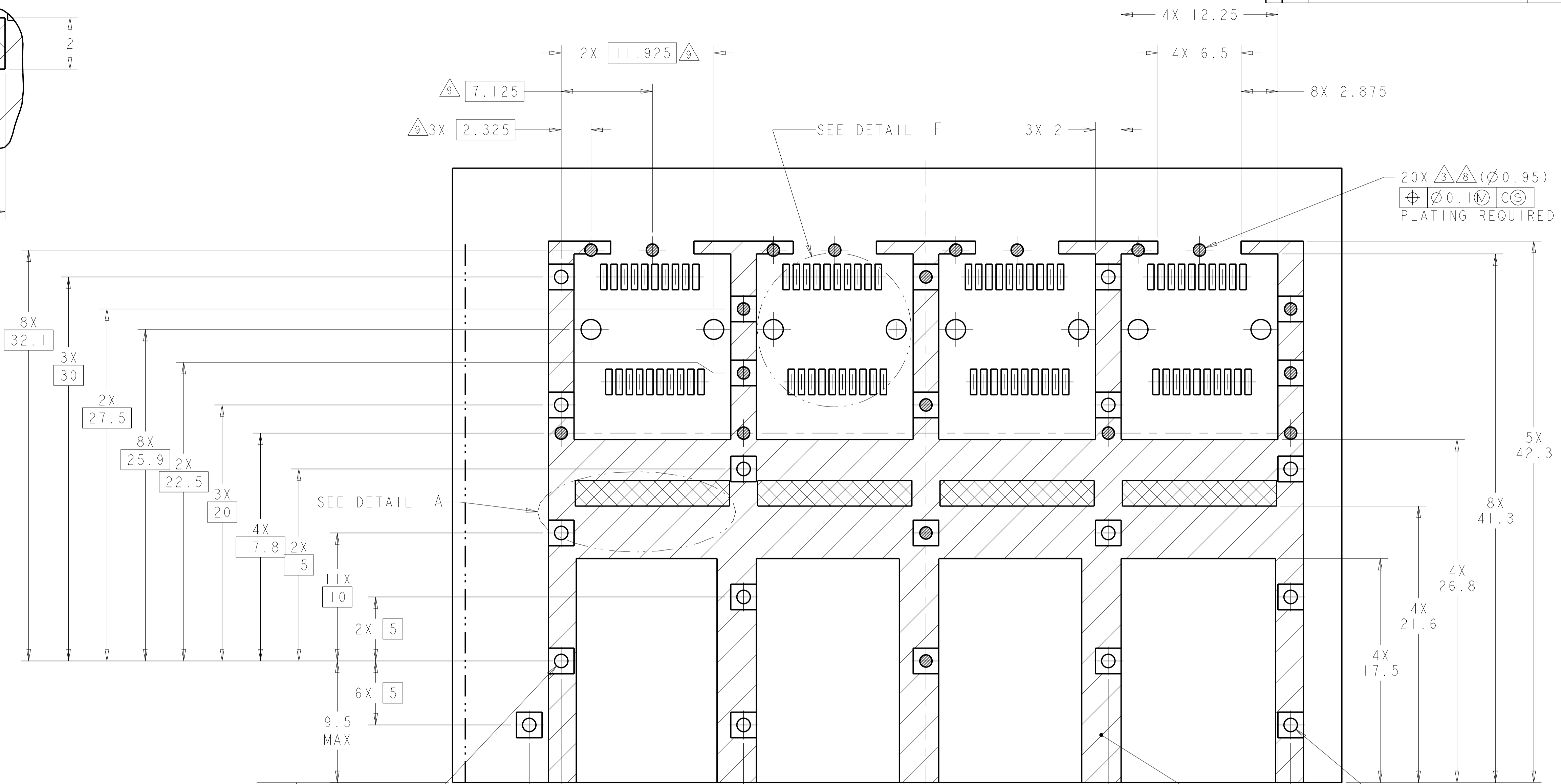
LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	SEE SHEET 1		



DETAIL A  
 4X INDIVIDUALLY  
 SCALE 10:1

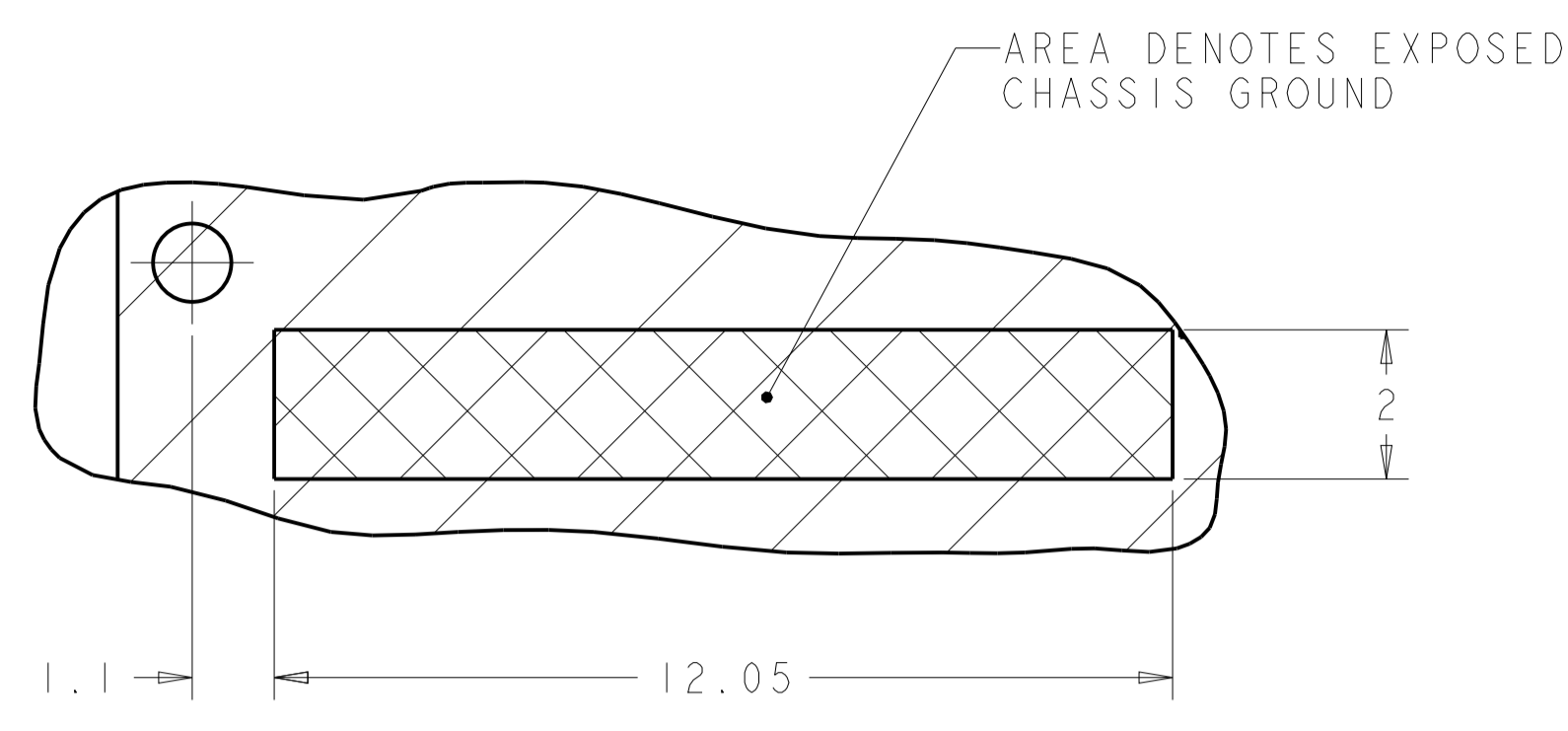


DETAIL F  
 RECOMMENDED PT CONNECTOR LAYOUT  
 SCALE 12:1

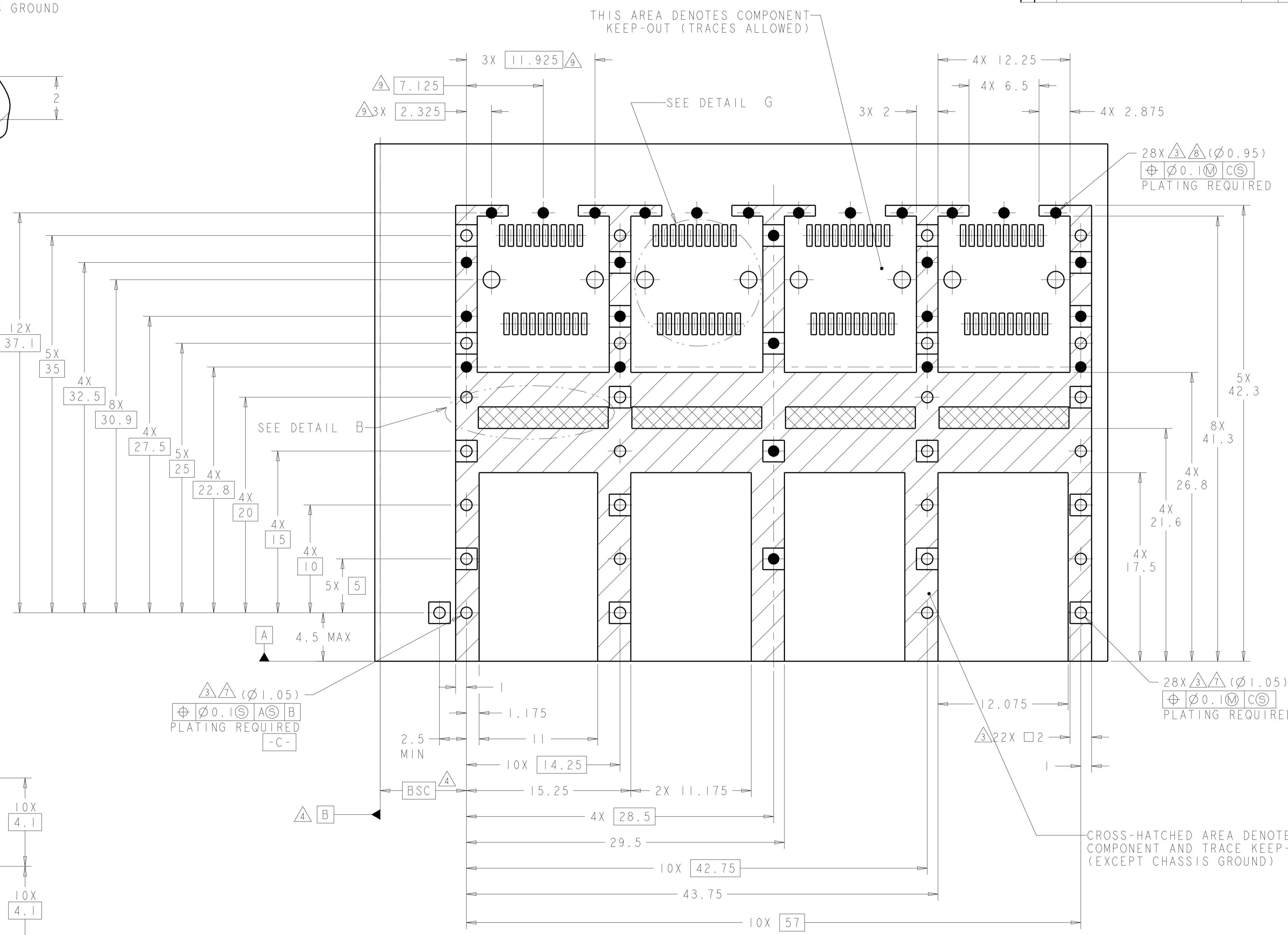
RECOMMENDED PCB CONFIGURATION  
 WITH KEEP-OUT AREAS  
 SINGLE SIDED APPLICATIONS  
 WITH INSULATING TAPE

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		PRODUCT SPEC: 108-2364	
MATERIAL: FINISH		APPLICATION SPEC: 114-13120	SIZE: A1
		WEIGHT: -	DRAWING NO: C=2149730
		Customer Drawing	SCALE: 5:1 SHEET 7 OF 8 REV: A6

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



DETAIL B  
4X INDIVIDUALLY  
SCALE 10:1



THIS AREA DENOTES COMPONENT  
KEEP-OUT (TRACES ALLOWED)

AREA DENOTES EXPOSED  
CHASSIS GROUND

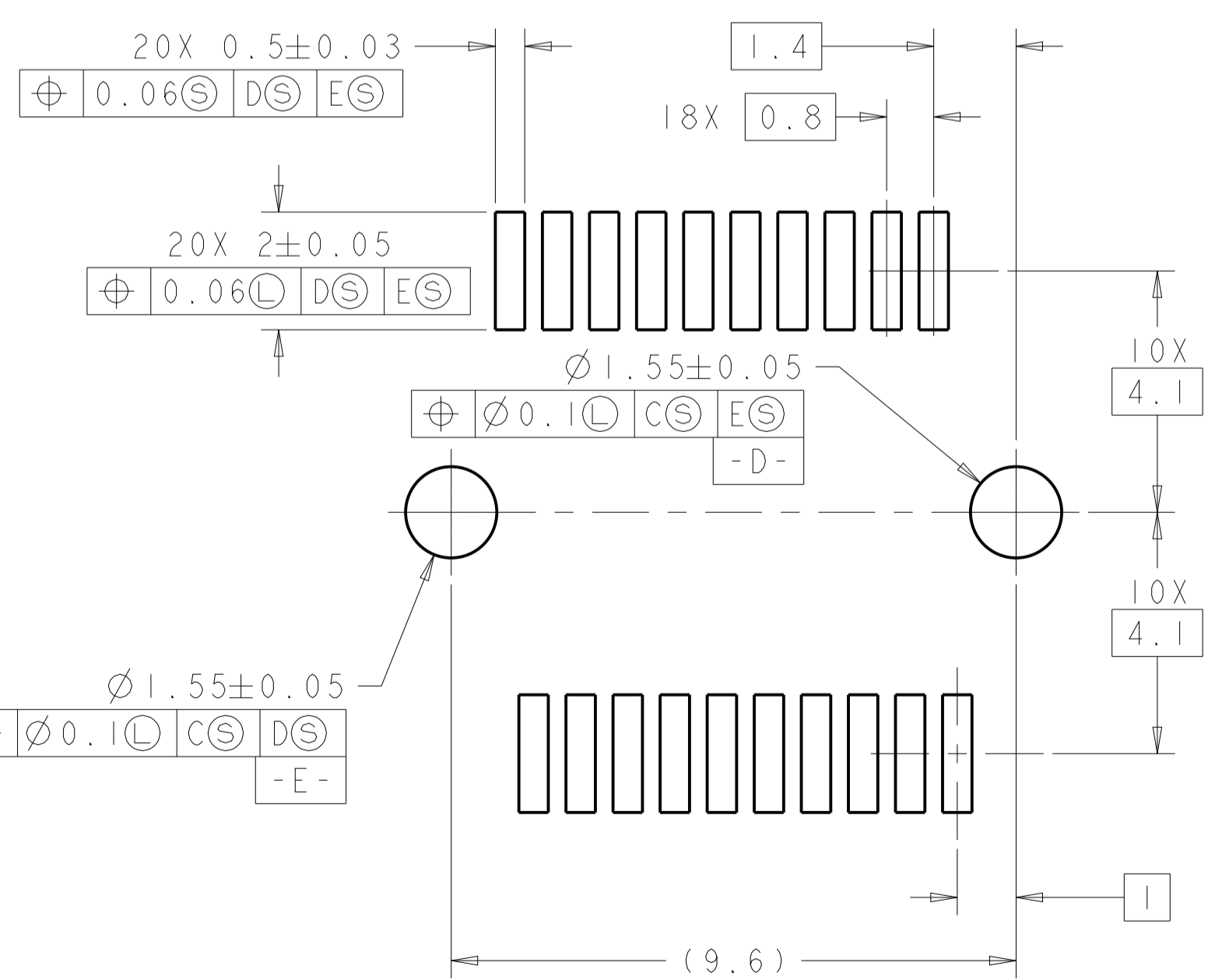
SEE DETAIL B

SEE DETAIL G

28X (∅0.95)  
⊕ ∅0.10⊗ CⓈ  
PLATING REQUIRED

28X (∅1.05)  
⊕ ∅0.10⊗ CⓈ  
PLATING REQUIRED

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



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

RECOMMENDED PCB CONFIGURATION  
WITH KEEP-OUT AREAS  
BELLY TO BELLY APPLICATIONS  
WITH INSULATING TAPE

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	0 PLC ±0.1	APVD B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
1 PLC ±0.1	2 PLC ±0.1	PRODUCT SPEC: 108-2364	SIZE: A100779C=2149730
3 PLC ±0.1	4 PLC ±0.1	APPLICATION SPEC	RESTRICTED TO: -
ANGLES ±0.1	FINISH ±1°	WEIGHT: 114-13120	SCALE: 5:1 SHEET 8 OF 8 REV A6
MATERIAL:		Customer Drawing	



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