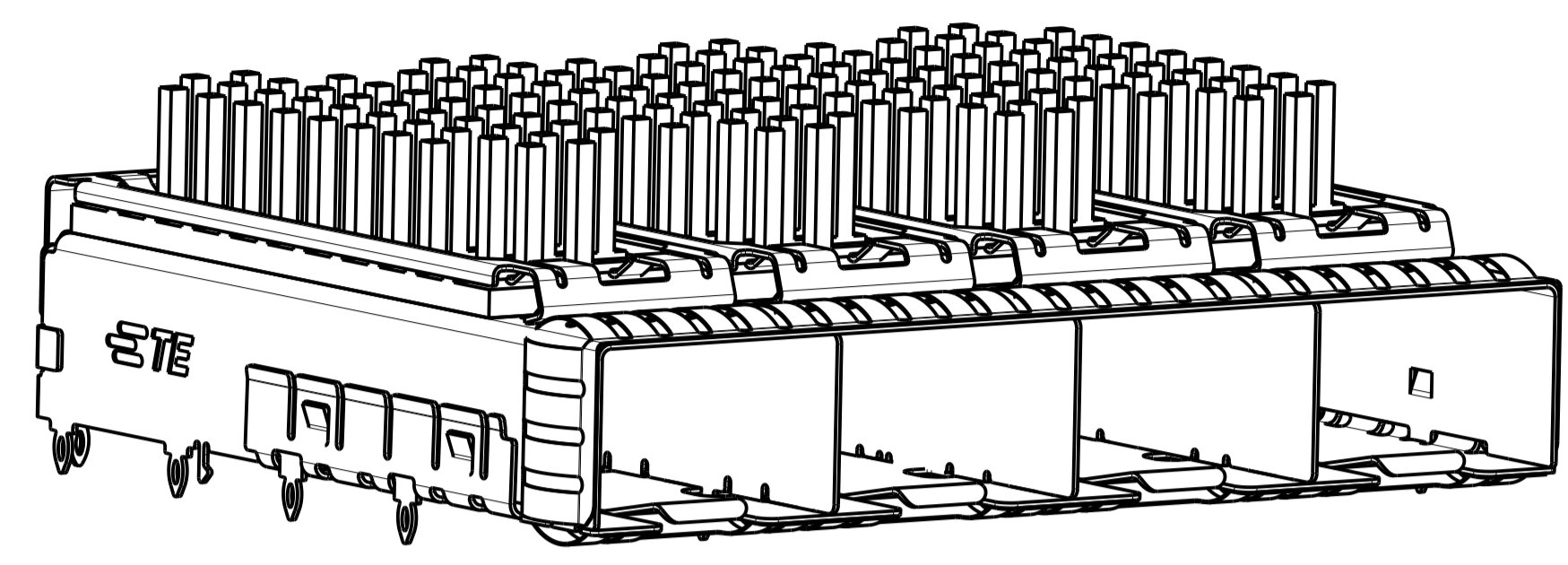
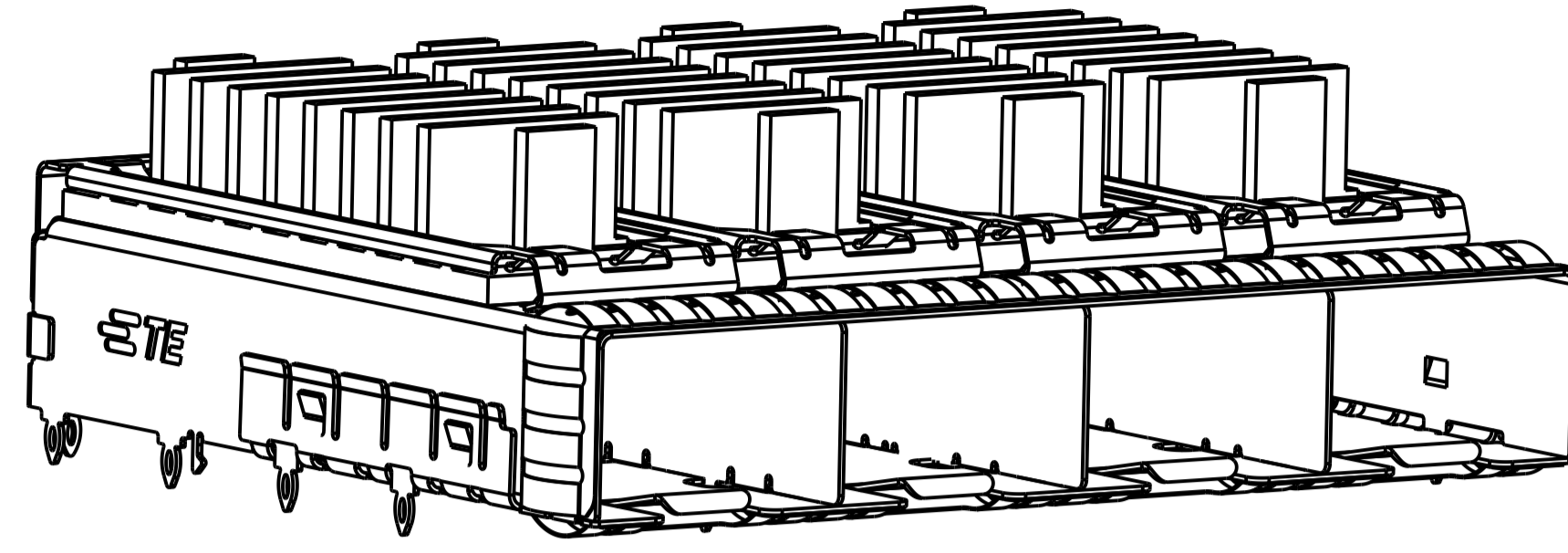


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GP	00	P	LTN	DESCRIPTION	DATE	DWN	APVD
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		A4		REVISED PER ECR-19-006709	10APR2019	IT	SH
		A5		REVISED PER ECO-20-000404	09JAN2020	IT	SH
		A6		REVISED PER ECR-20-015251	28OCT2020	IT	SH

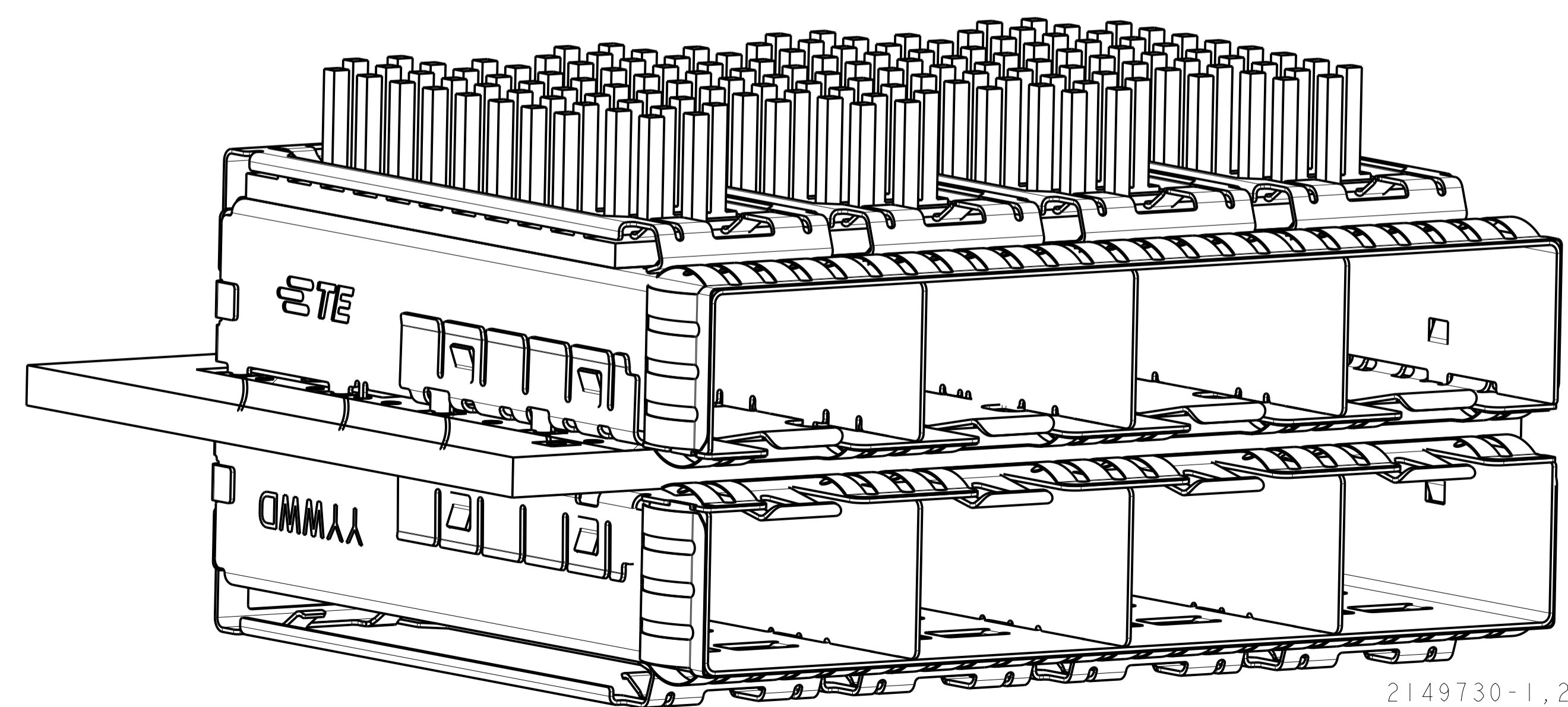
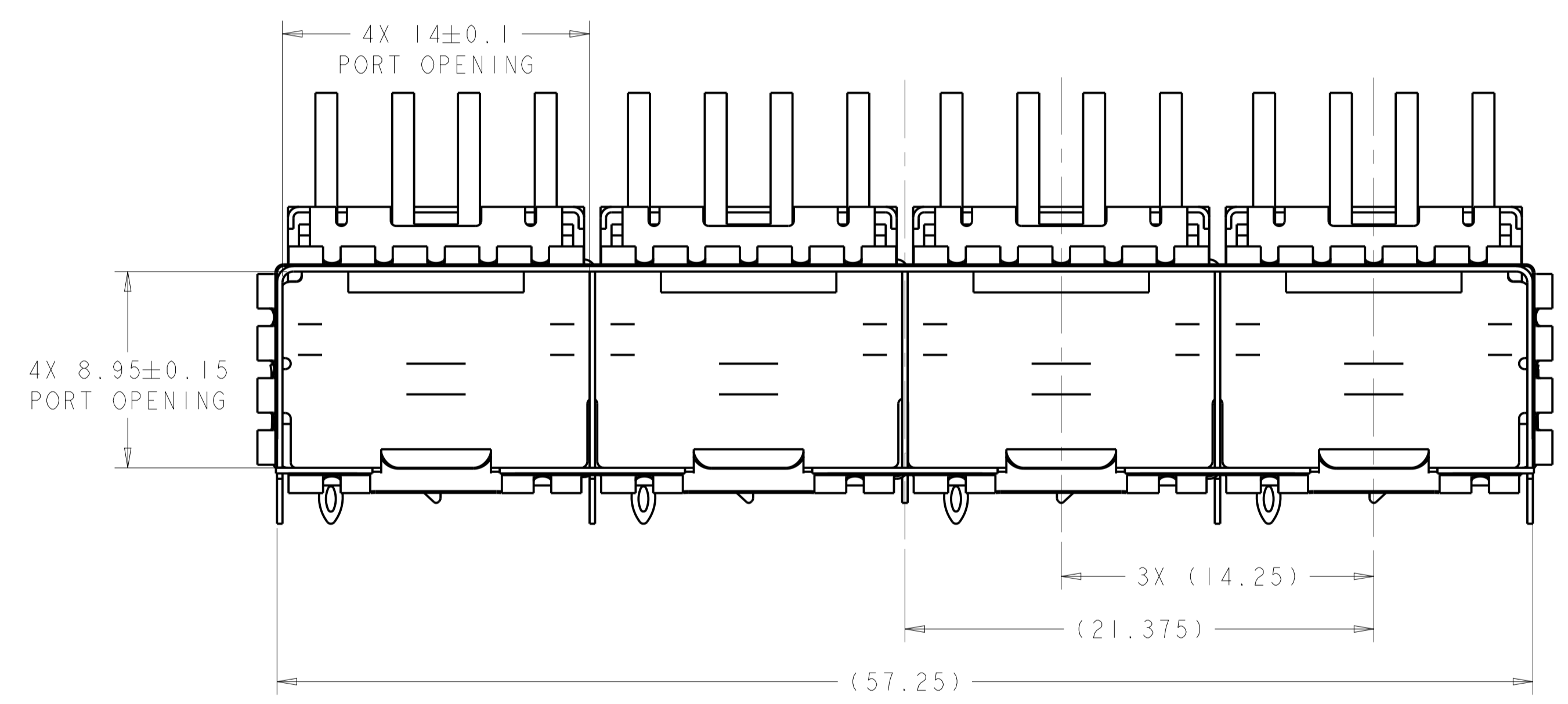
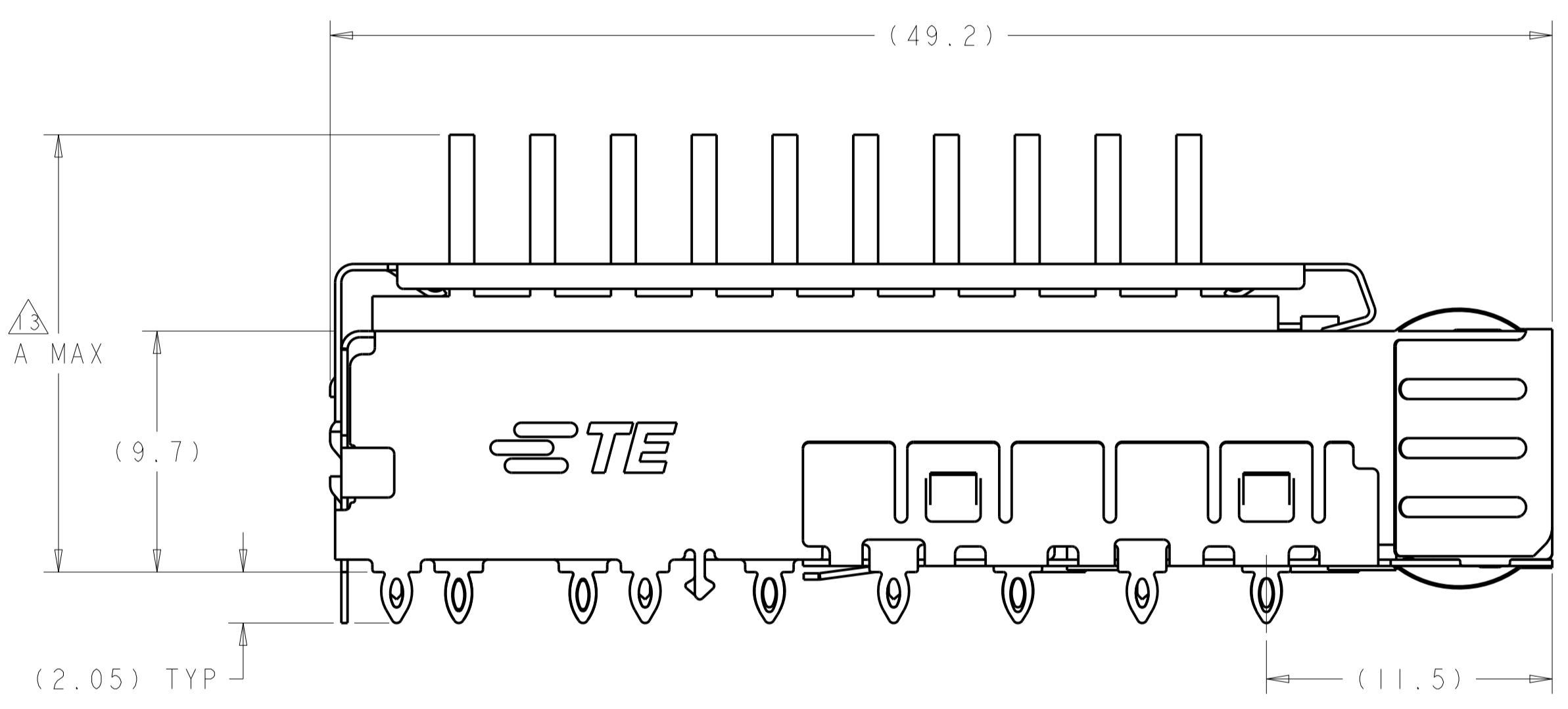


2149730-1,2,3,4,5
 FINISHED ASSEMBLY WITH
 PIN TYPE HEAT SINK



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. DWN: M. SCHMITT 23AUG2010
 CHK: M. SCHMITT 23AUG2010
 APVD: B. WERTZ 23AUG2010

TE Connectivity

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

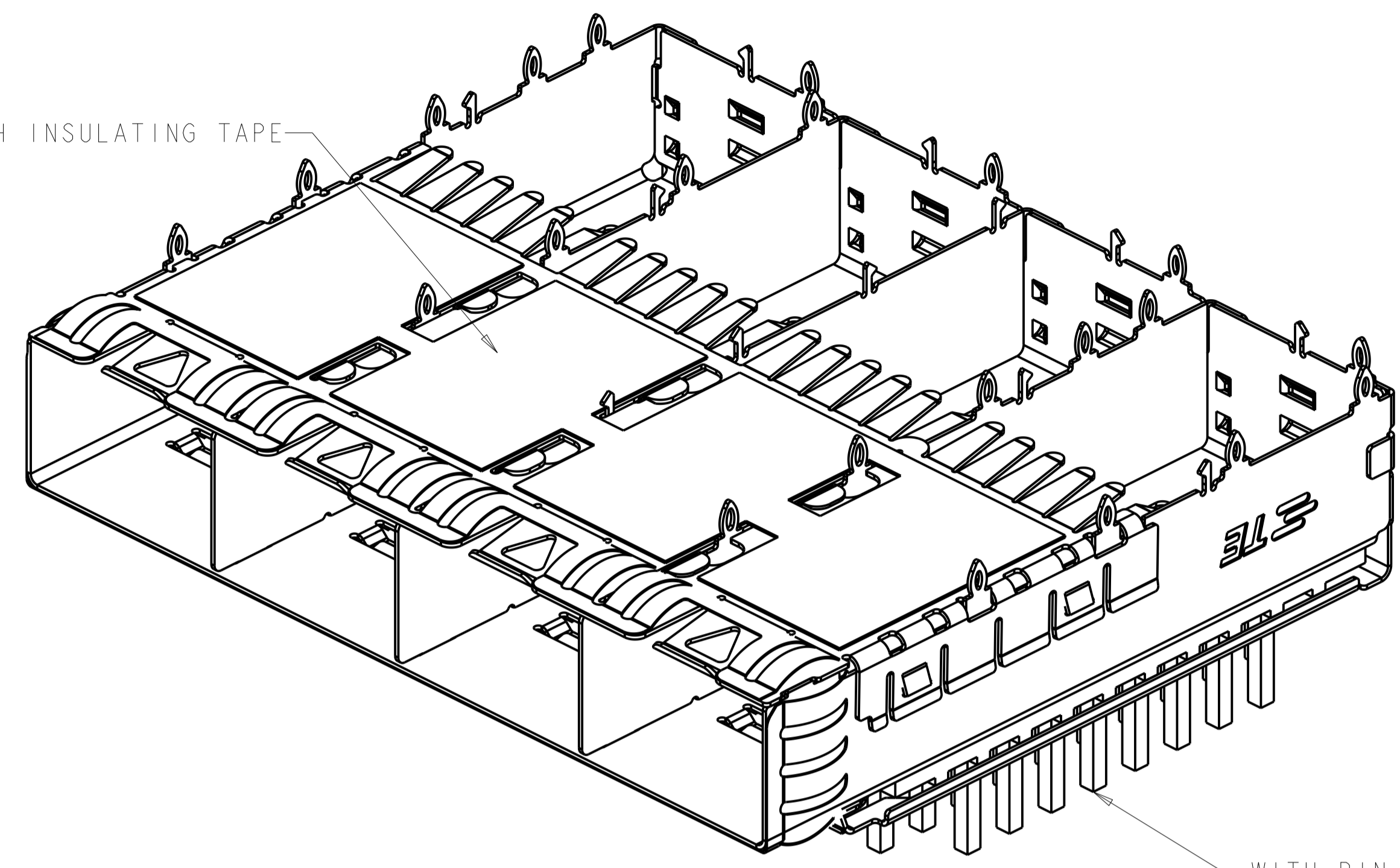
PRODUCT SPEC: 108-2364
 APPLICATION SPEC: 114-13120

SIZE: CAGE CODE DRAWING NO: A100779
 DRAWING NO: C=2149730

RESTRICTED TO: -
 SCALE: 5:1 SHEET 1 OF 8 REV: A6

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

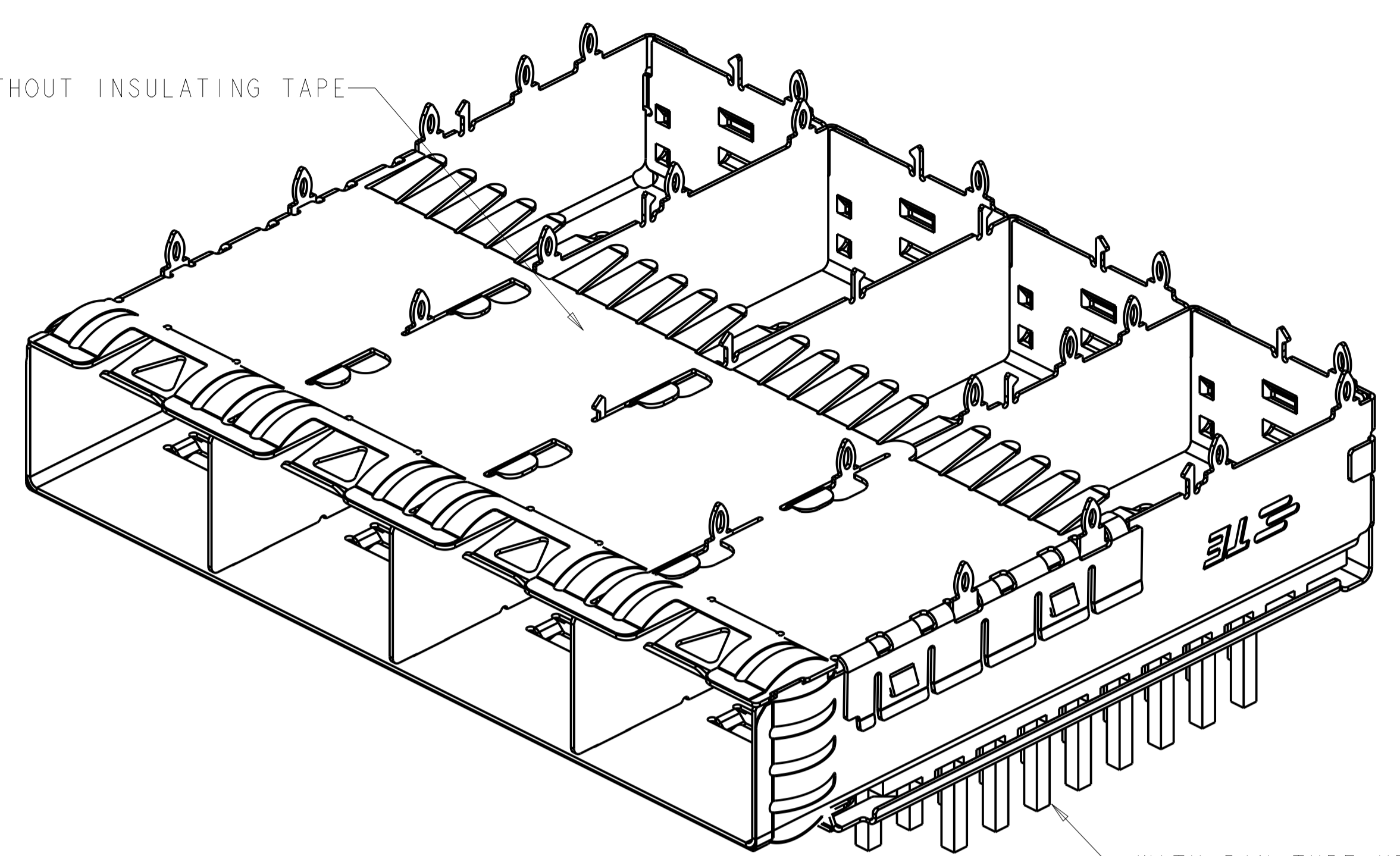
WITH INSULATING TAPE



WITH PIN TYPE HEAT SINK

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

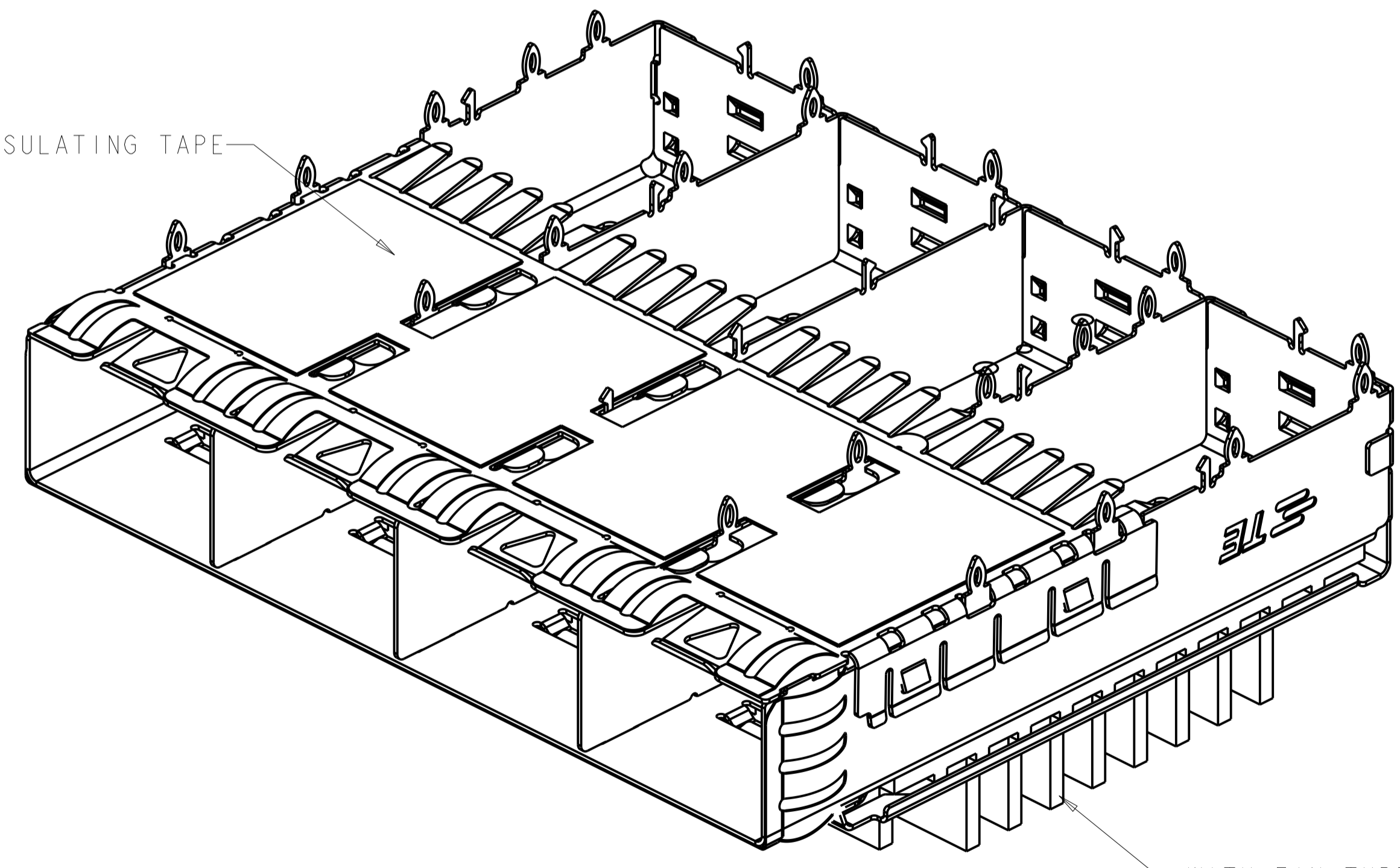
WITHOUT INSULATING TAPE



WITH PIN TYPE HEAT SINK

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

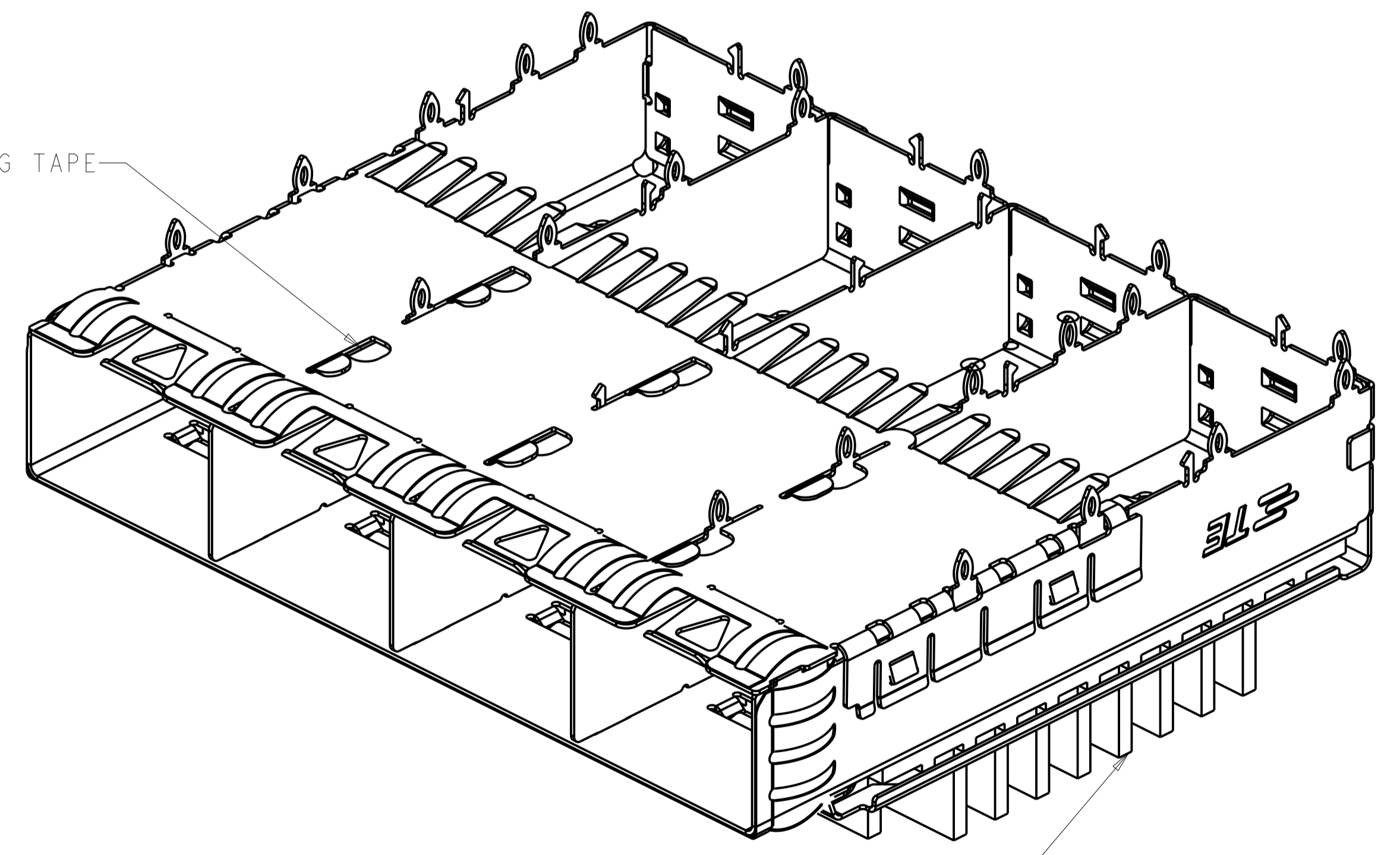
WITH INSULATING TAPE



WITH FIN TYPE HEAT SINK

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

WITHOUT INSULATING TAPE



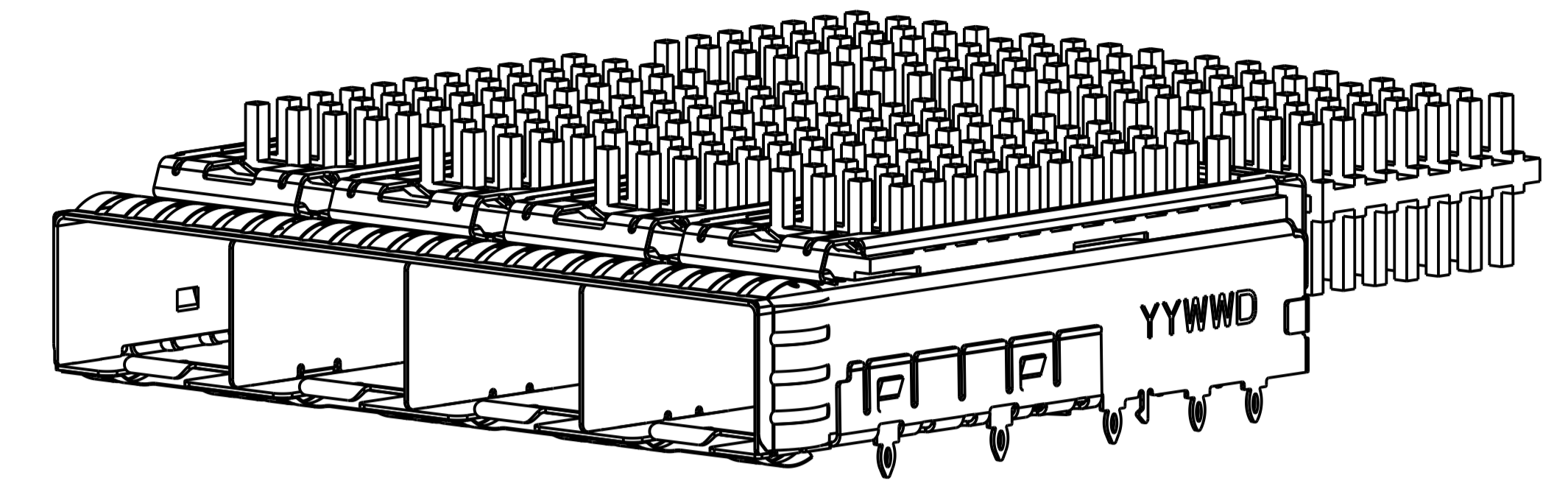
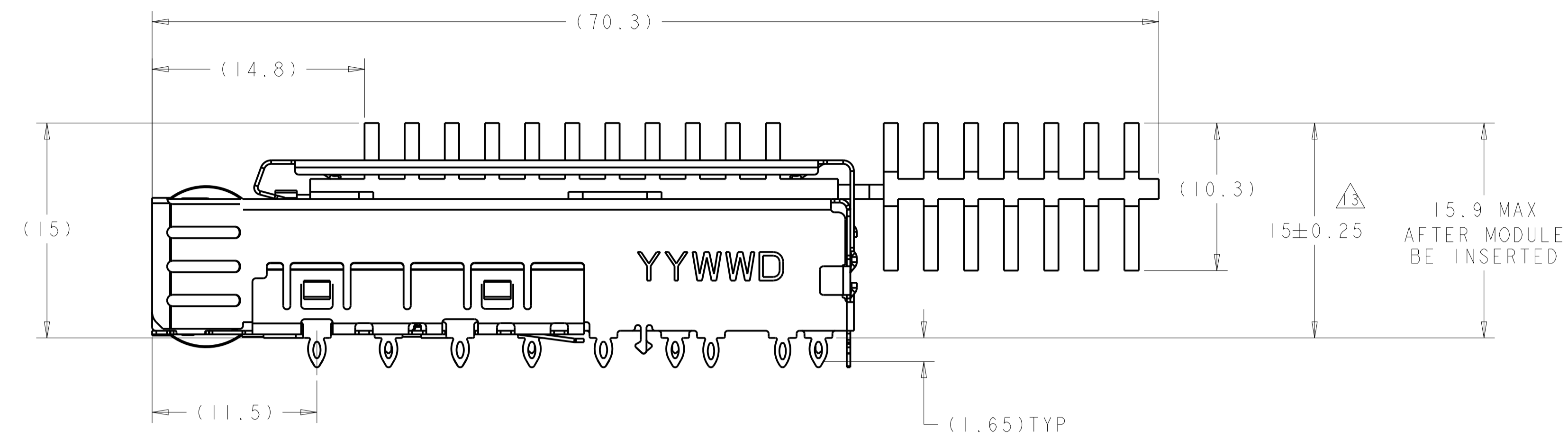
WITH FIN TYPE HEAT SINK

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: M. SCHMITT 23AUG2010	 TE Connectivity
DIMENSIONS:		CHK: M. SCHMITT 23AUG2010	
mm	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	PRODUCT SPEC: 108-2364	
	2 PLC ±0.1	APPLICATION SPEC: 114-13120	SIZE: A100779C=2149730 WEIGHT: - Customer Drawing
	3 PLC ±0.1	FINISH: ±1*μm	
	4 PLC ±0.1		RESTRICTED TO: -
	ANGLES ±0.1		SCALE: 5:1
MATERIAL:			SHEET: 2 OF 8
			REV: A6

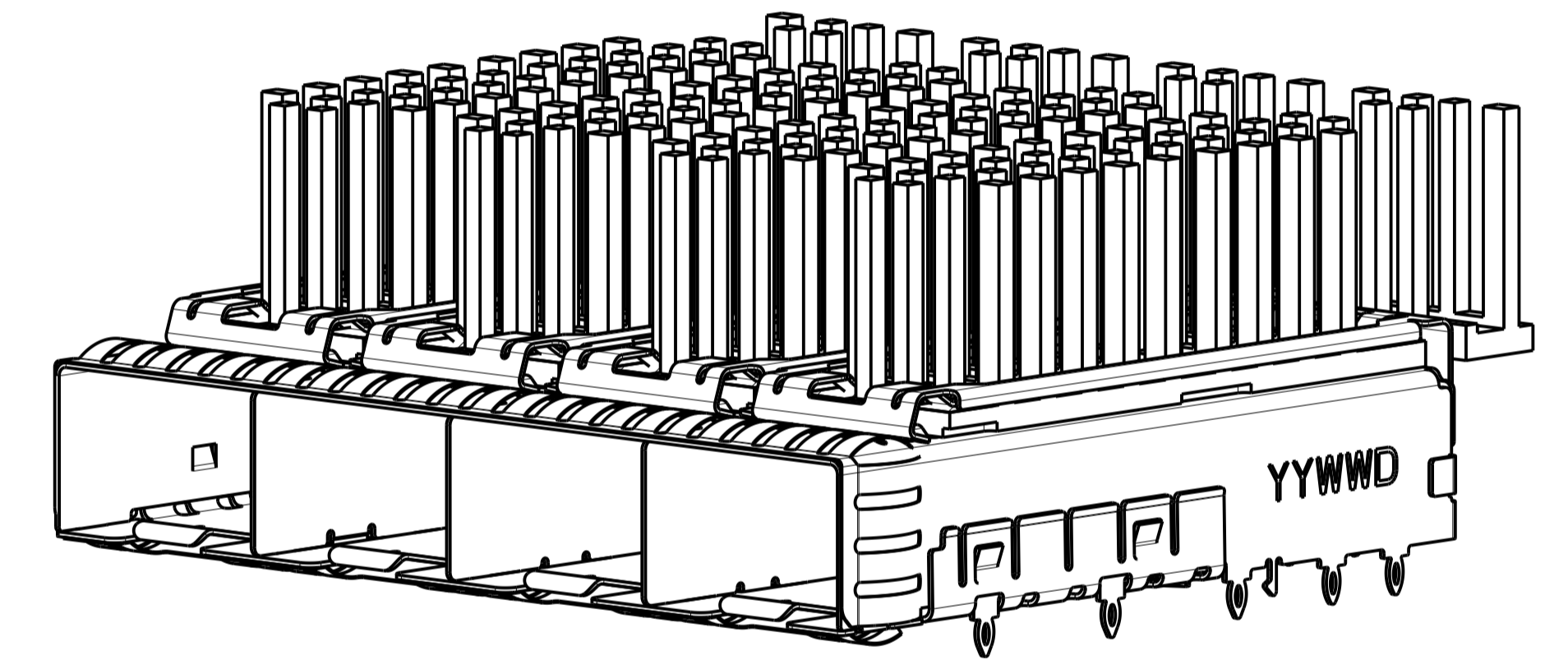
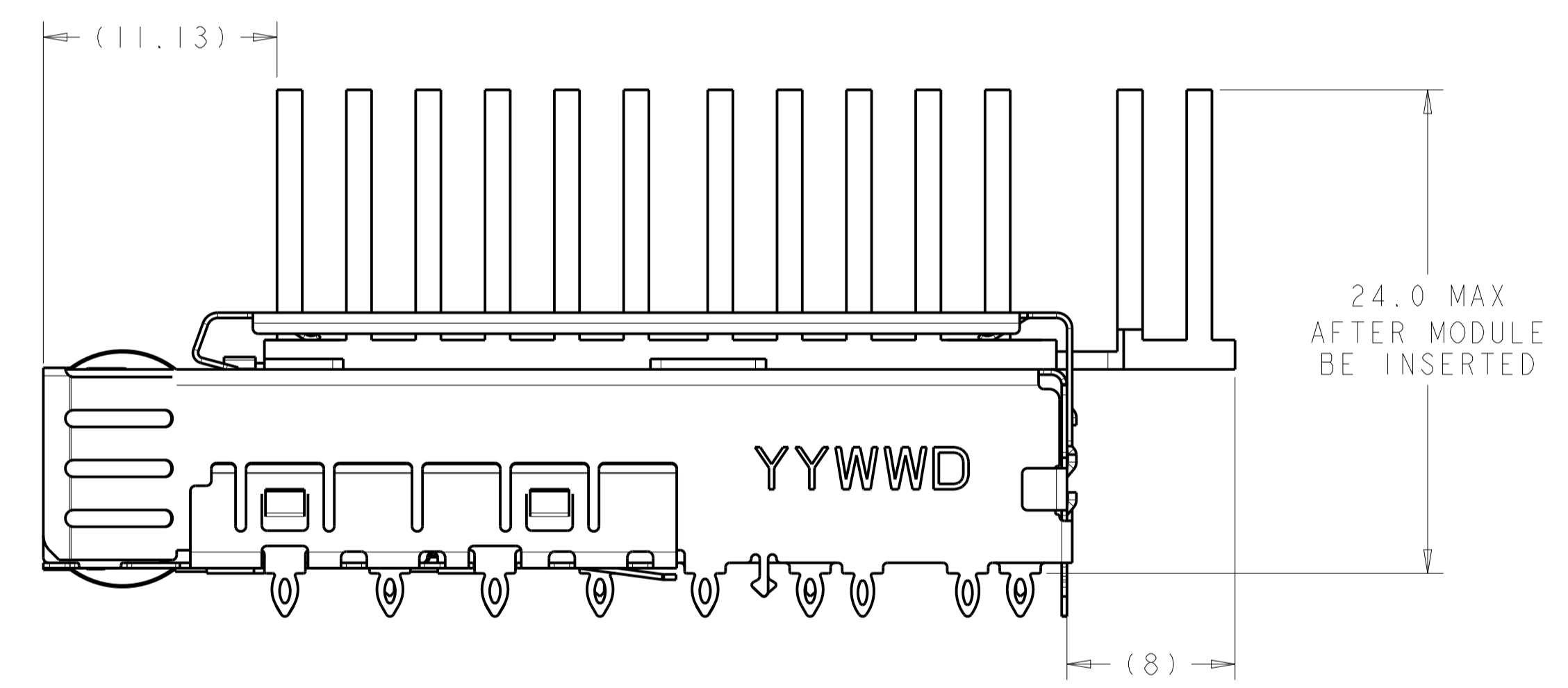
LOC		DIST		REVISIONS			
GP	00	P	LTN	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1			

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



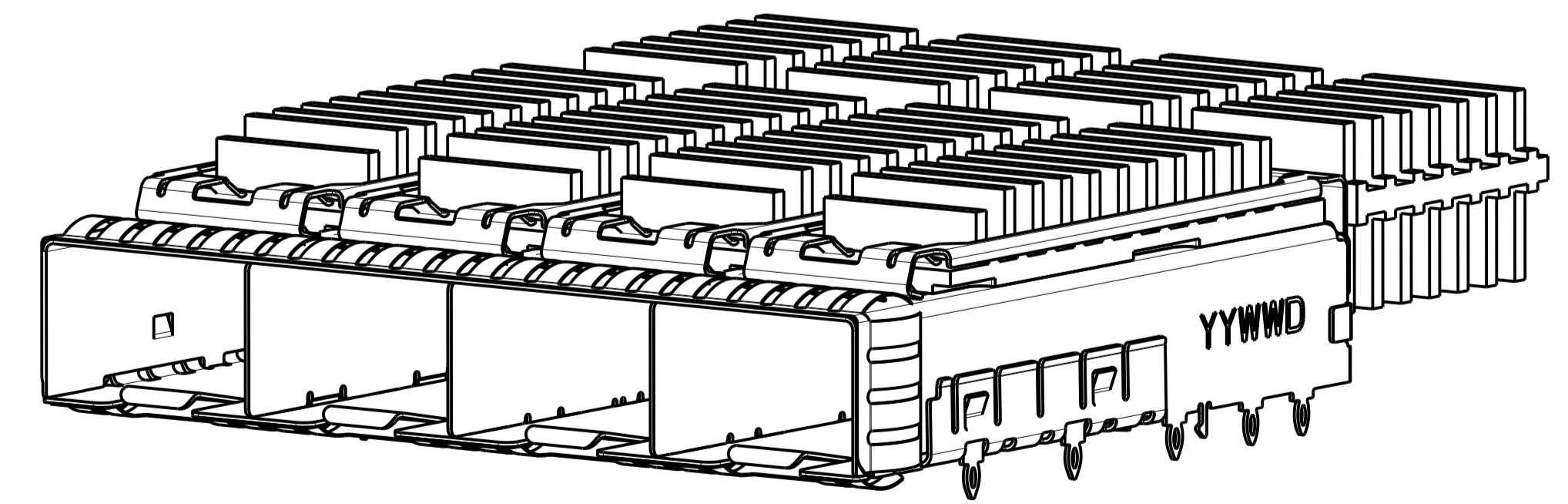
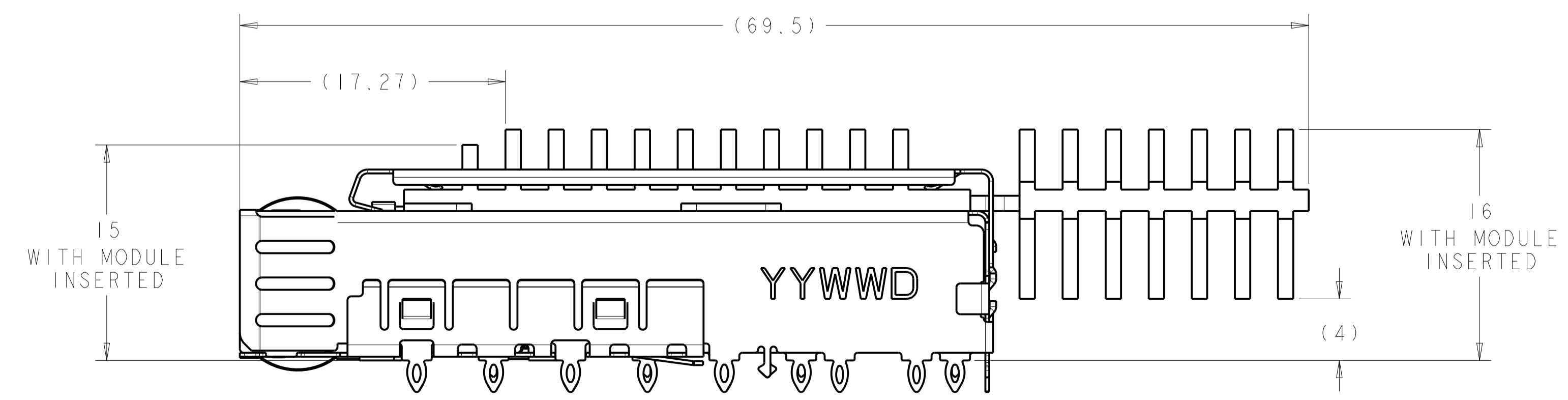
1-2149730-1 3D VIEW
SCALE 3:1

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



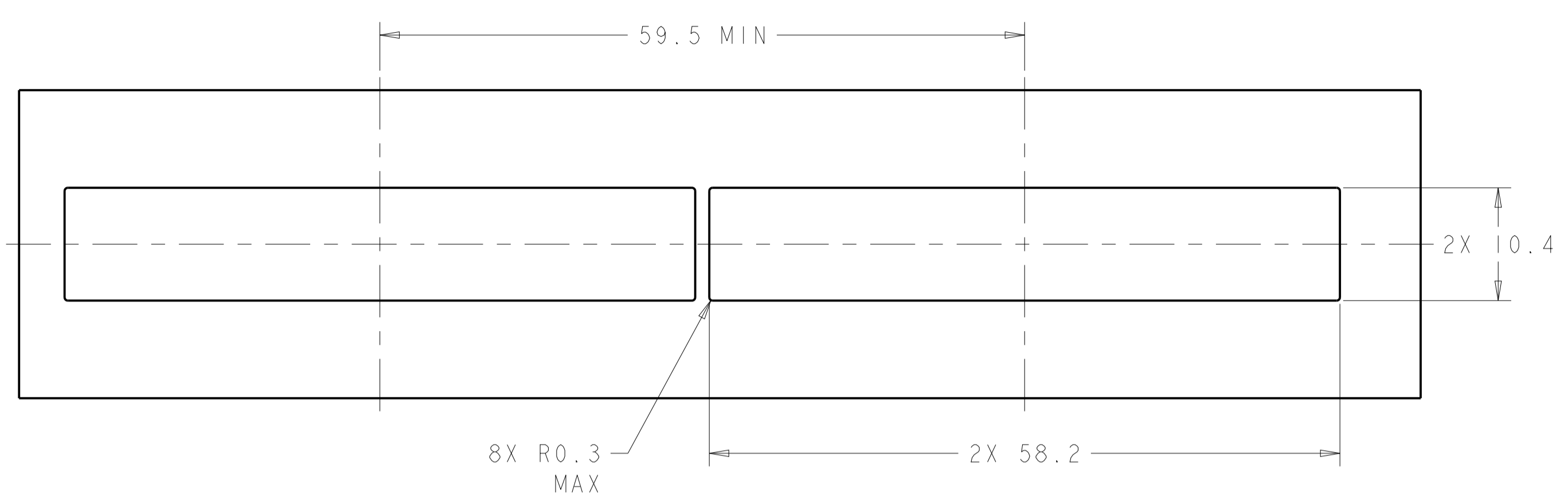
1-2149730-3 3D VIEW
SCALE 3:1

SCALE 4:1

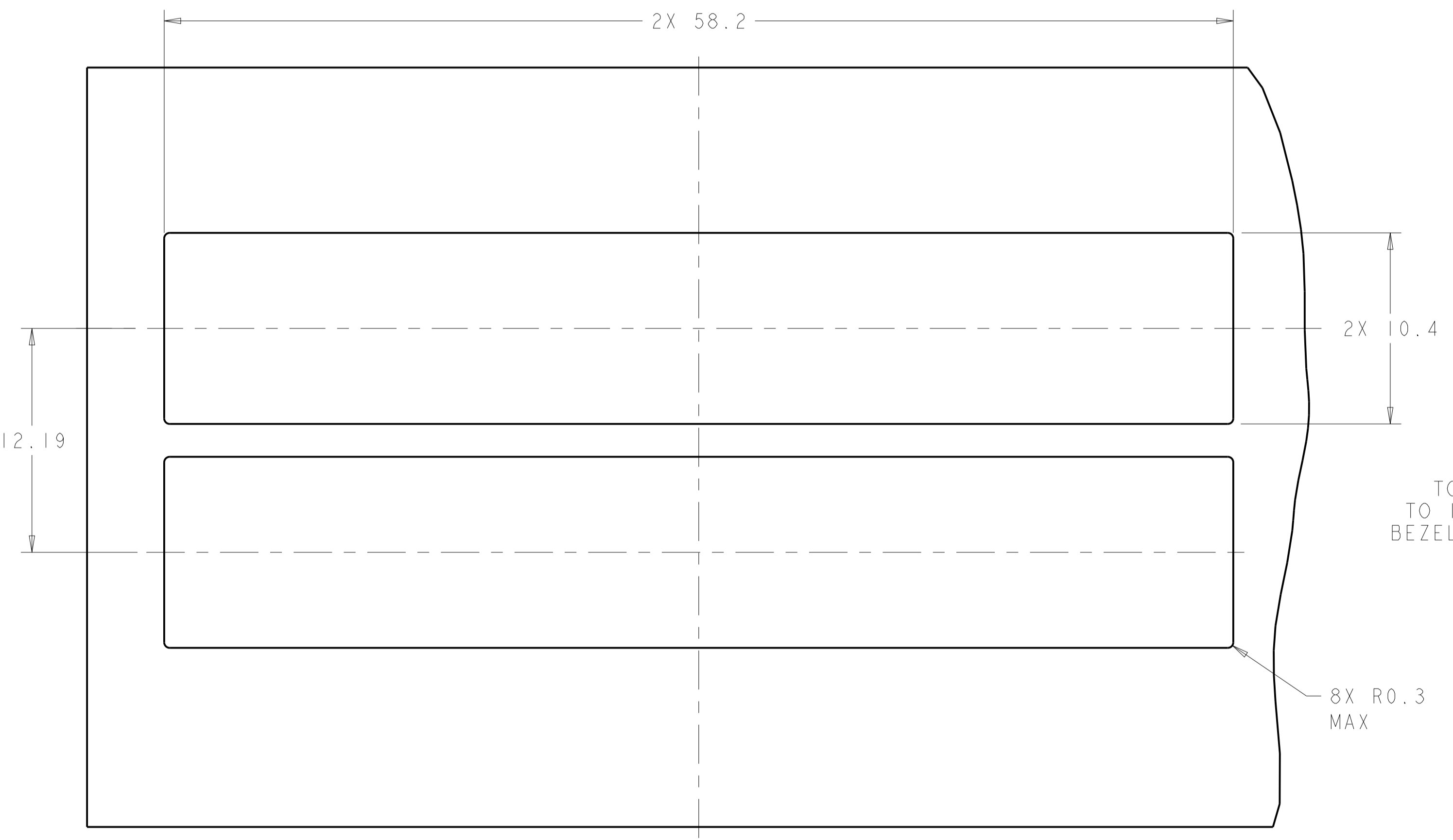
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC	±0.1	PRODUCT SPEC	SIZE: 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	

LOC	DIST	REV	DATE	BY	APPV
GP	00				

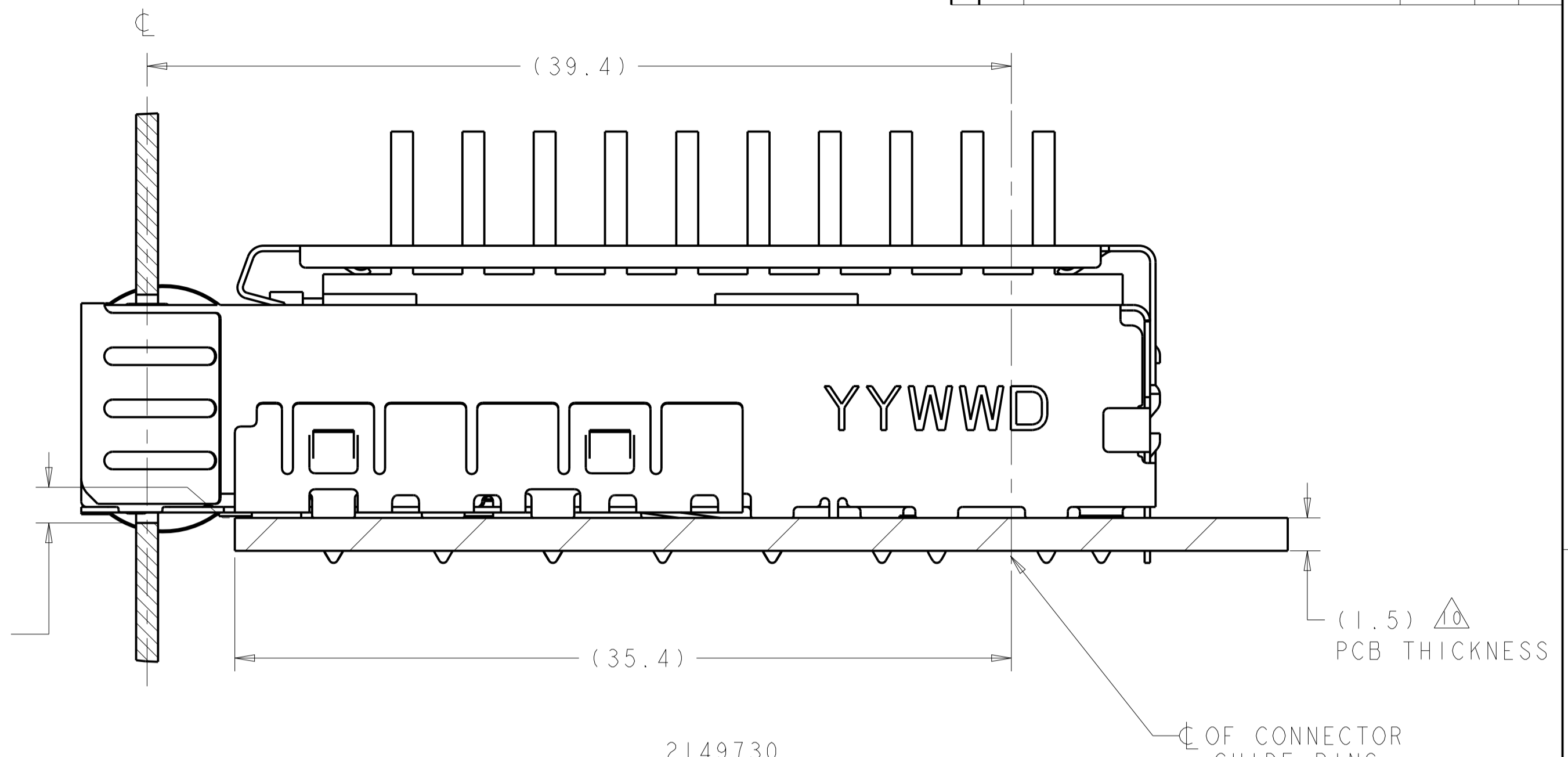
REVISIONS			
NO.	DESCRIPTION	DATE	BY
-	SEE SHEET 1	-	-



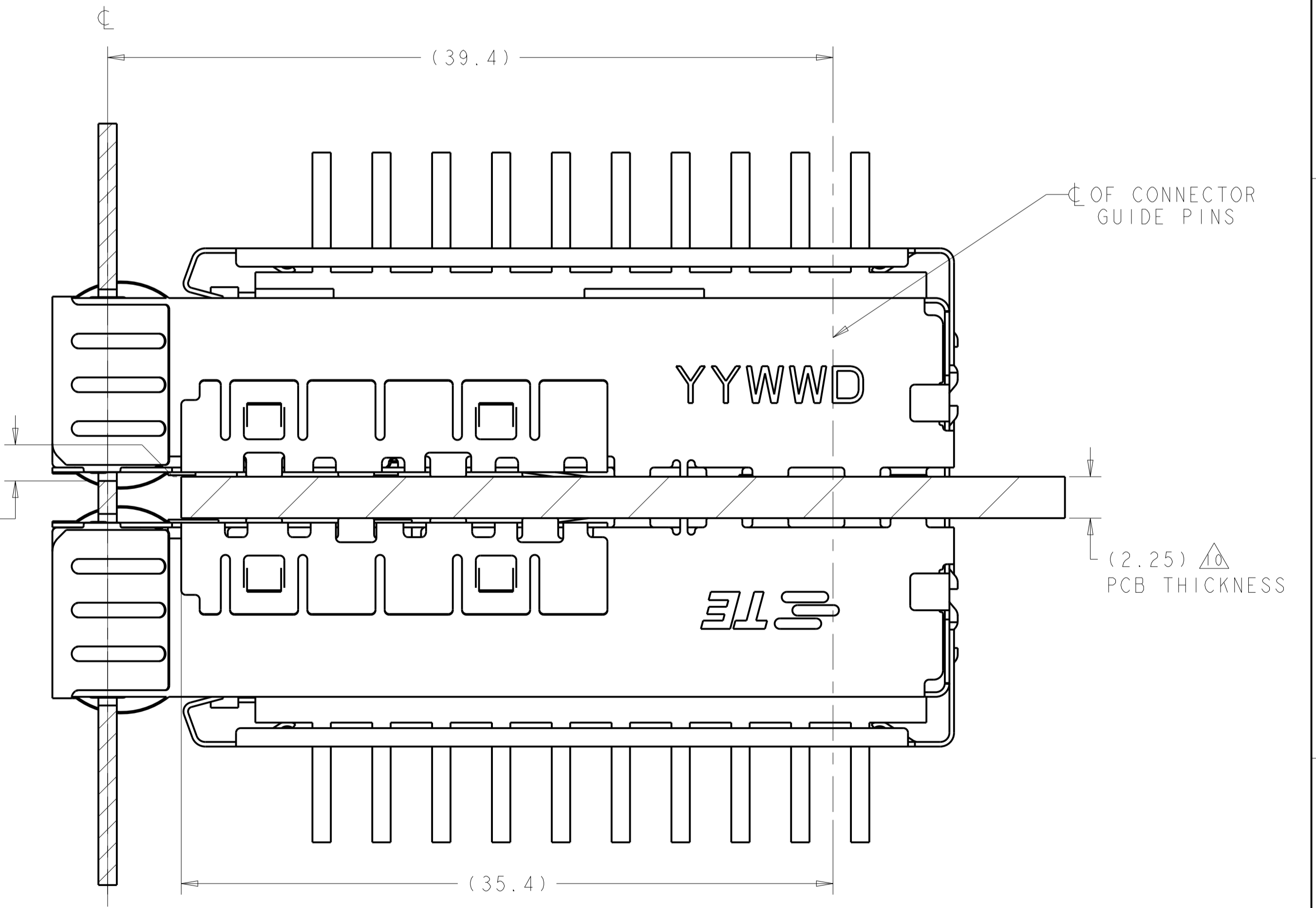
RECOMMENDED BEZEL CUT-OUT
 SINGLE SIDED APPLICATIONS
 SCALE 5:2



RECOMMENDED BEZEL CUT-OUT
 BELLY TO BELLY APPLICATIONS



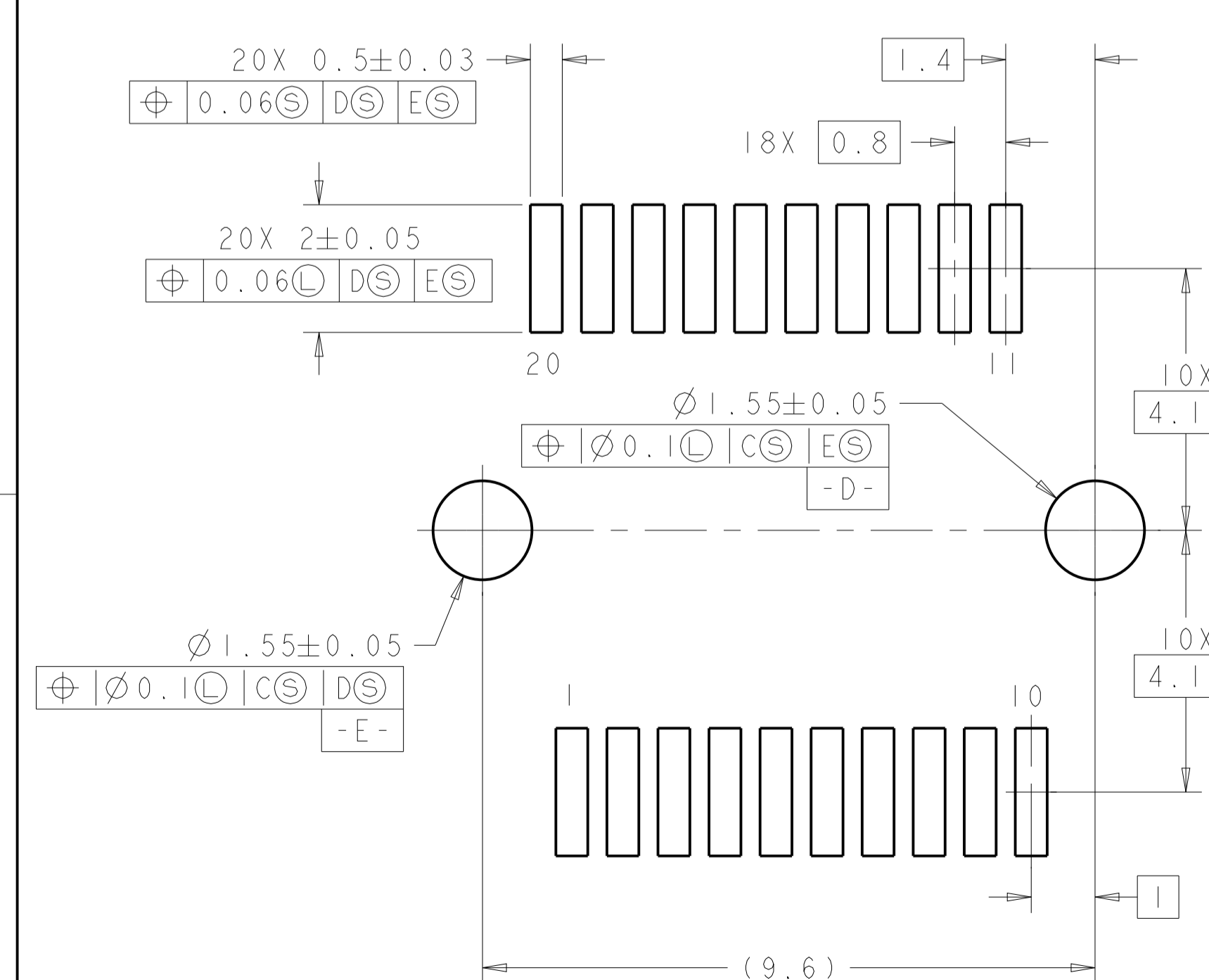
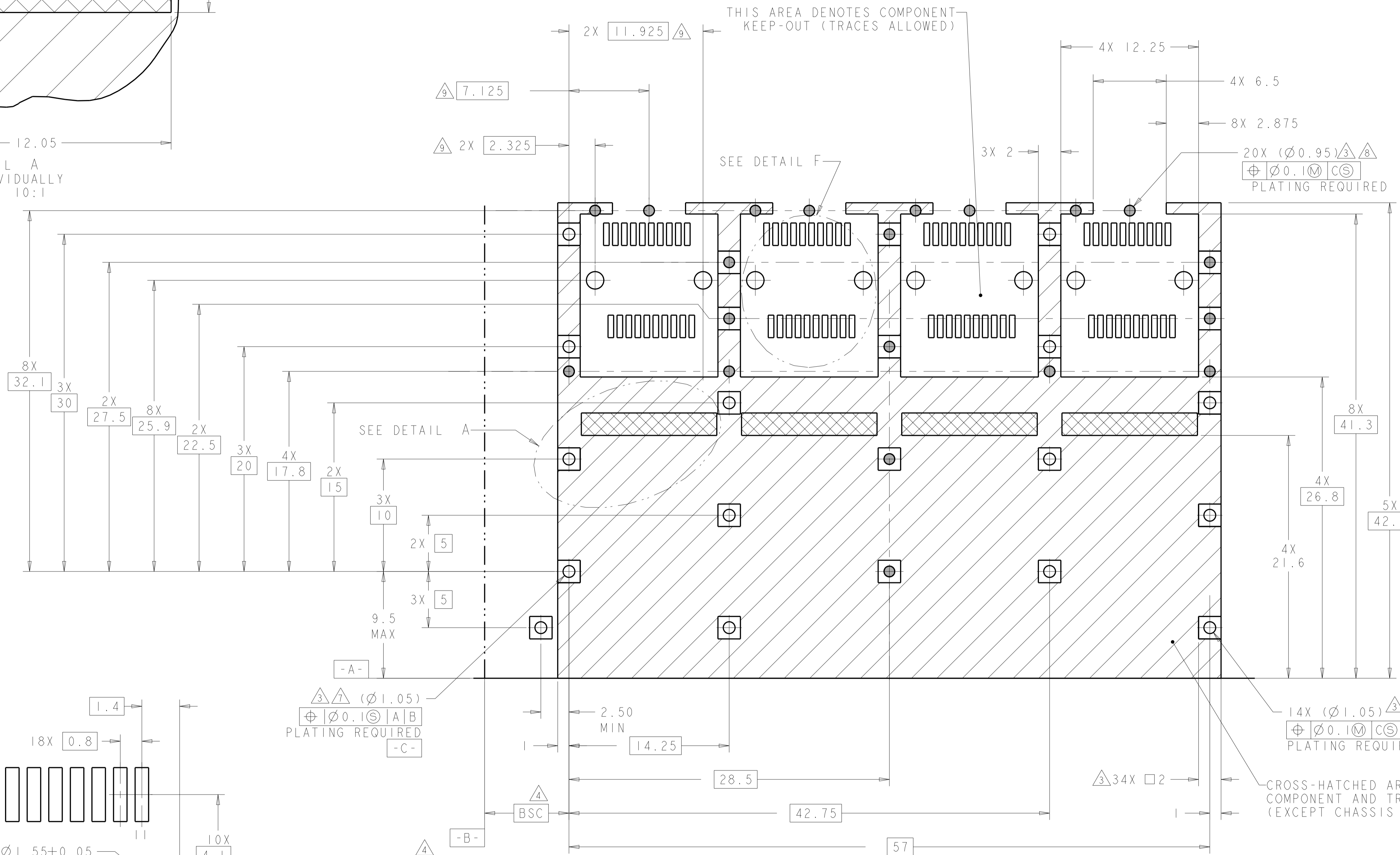
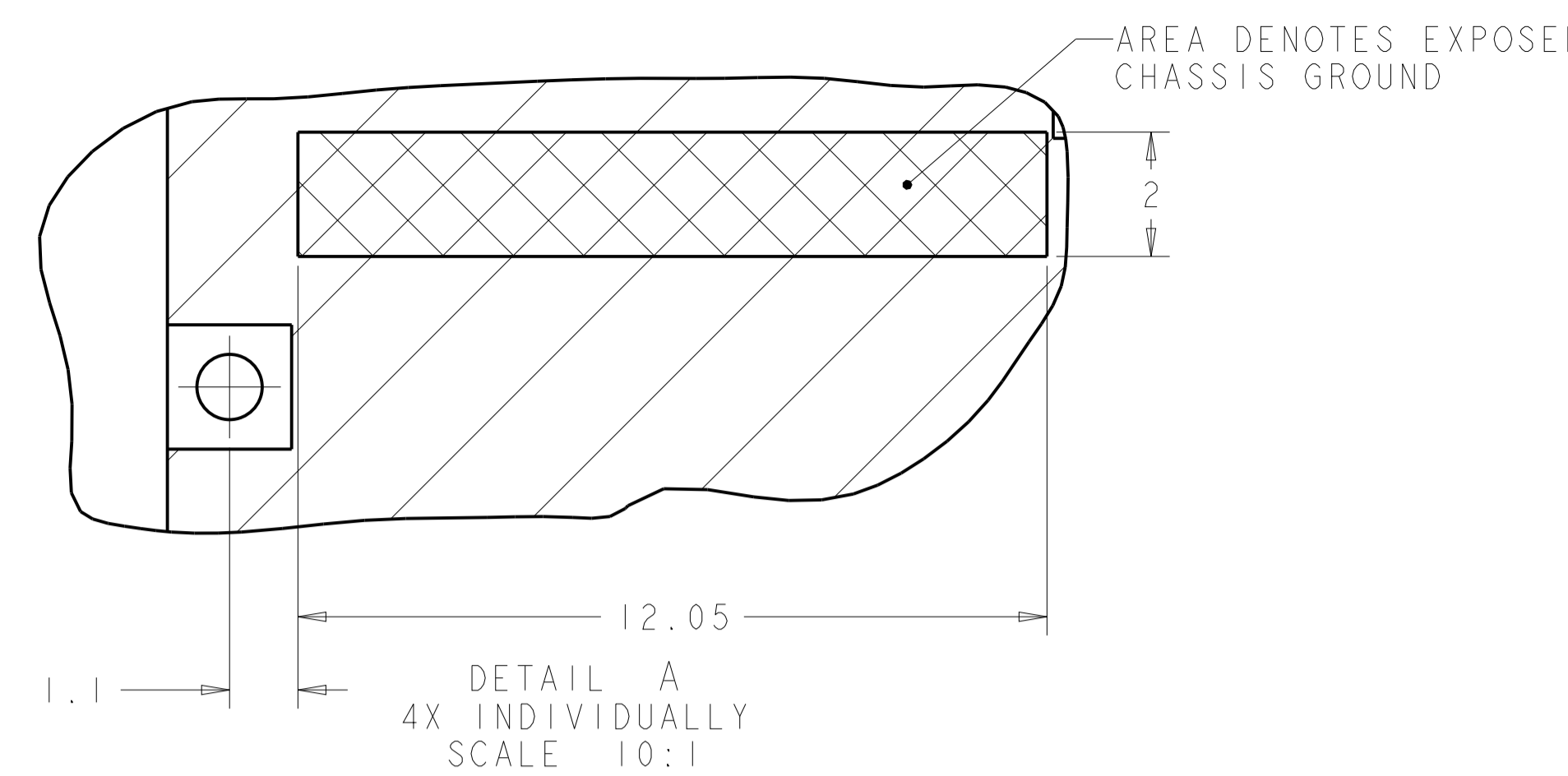
2149730
 MOUNTED ON PC BOARD
 SHOWN THRU RECOMMENDED BEZEL



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	
4 PLC	±0.1	WEIGHT	
ANGLES	±1°	Customer Drawing	SCALE 5:1 SHEET 4 OF 8 REV A6

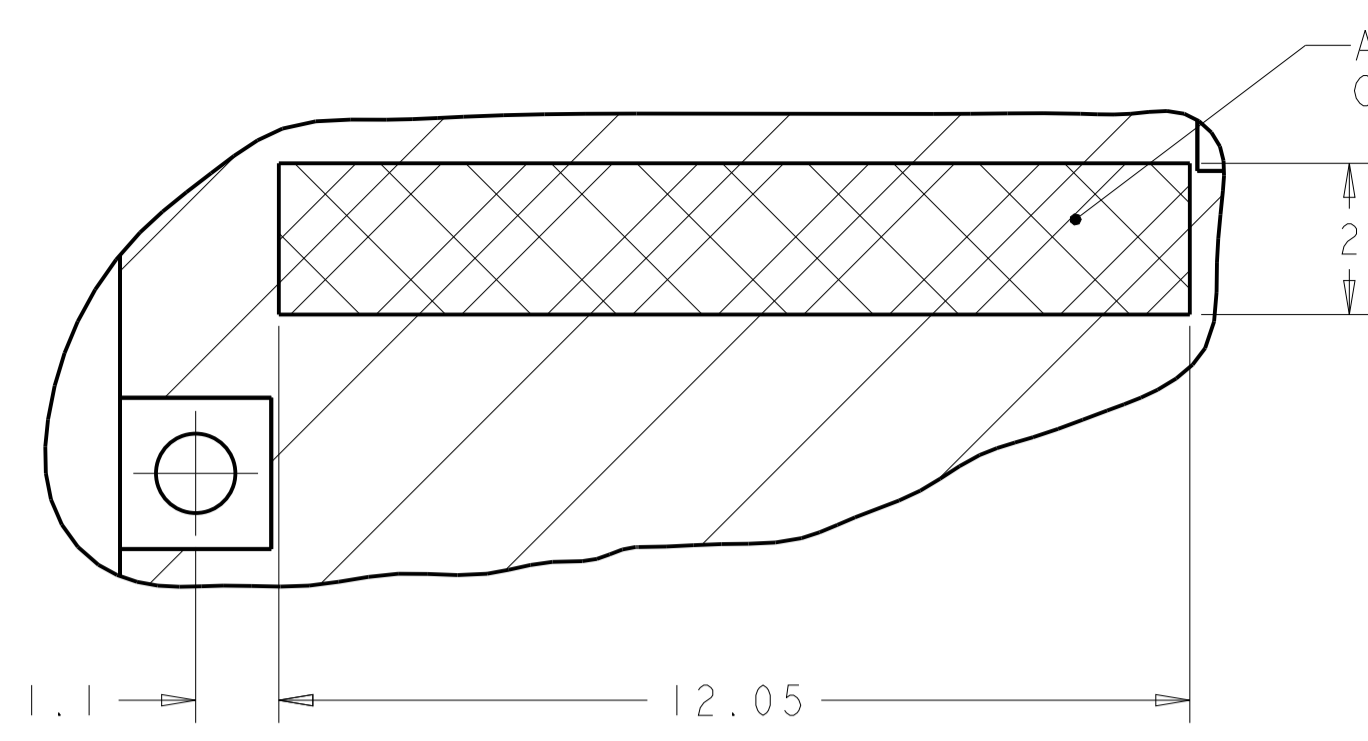
LOC	DIST	REVISIONS			
GP	00	REV	DATE	BY	APPV
		1	SEE SHEET 1		



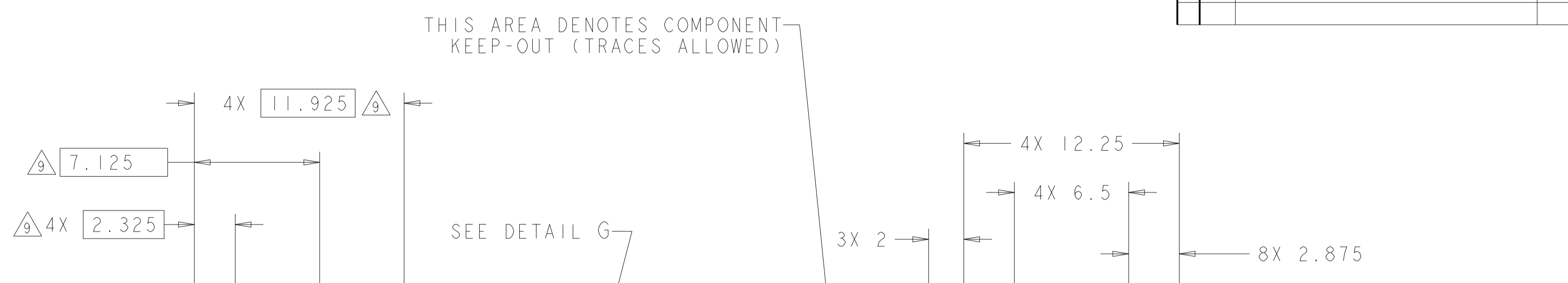
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK PRODUCT SPEC: 108-2364 APPLICATION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

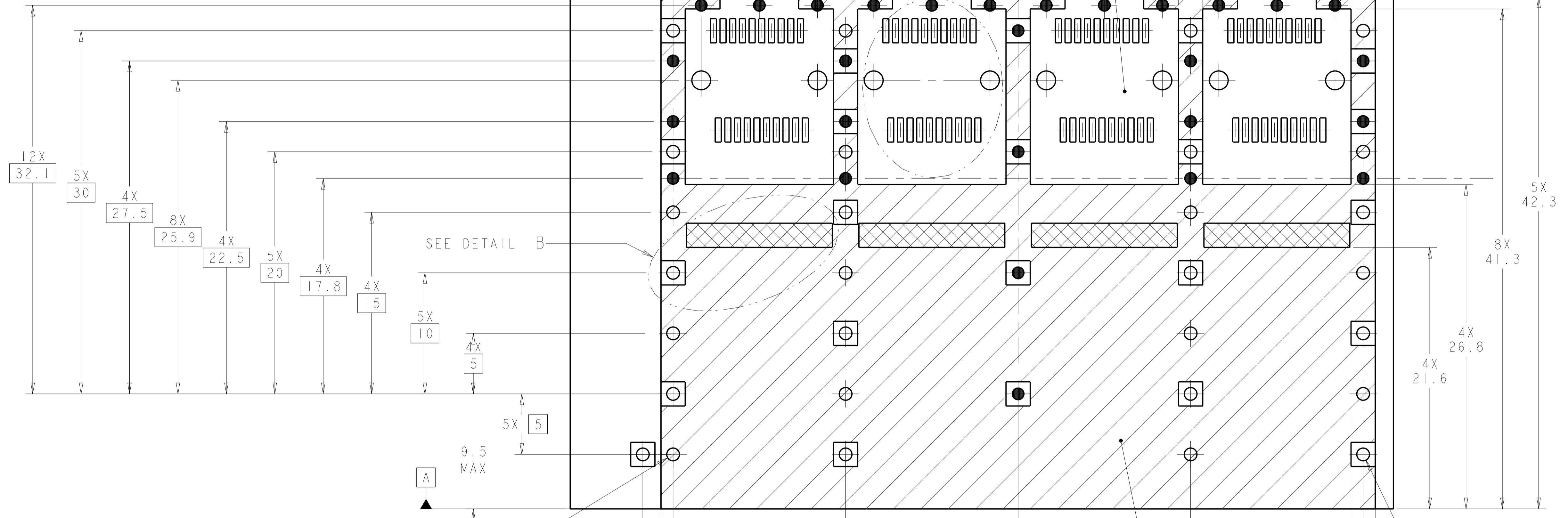


DETAIL B
4X INDIVIDUALLY
SCALE 10:1



THIS AREA DENOTES COMPONENT
KEEP-OUT (TRACES ALLOWED)

AREA DENOTES EXPOSED
CHASSIS GROUND



SEE DETAIL B

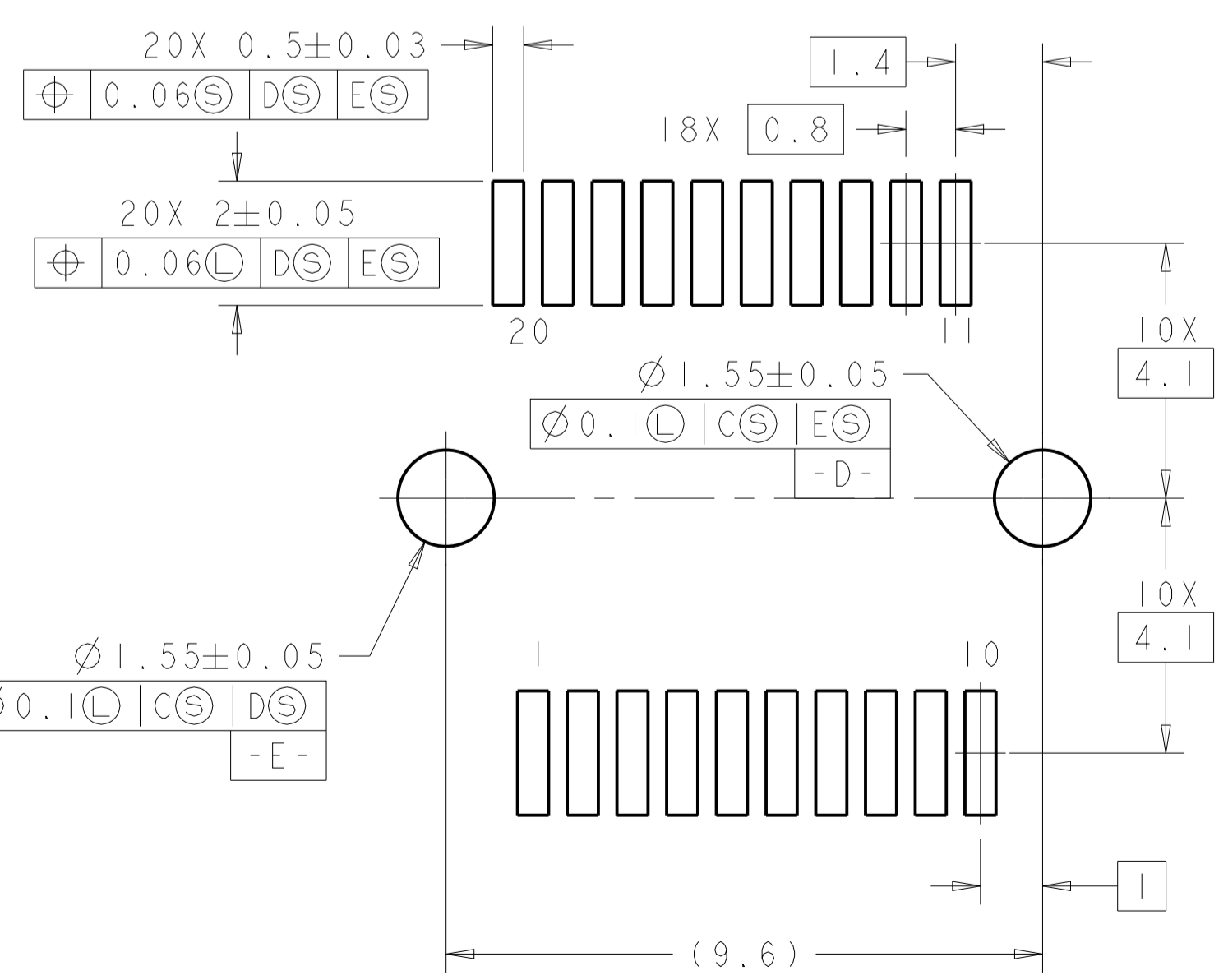
SEE DETAIL G

3 (Ø1.05)
Ø0.1 | A | B
PLATING REQUIRED
-C-

28X (Ø1.05)
Ø0.1 | C | S
PLATING REQUIRED

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

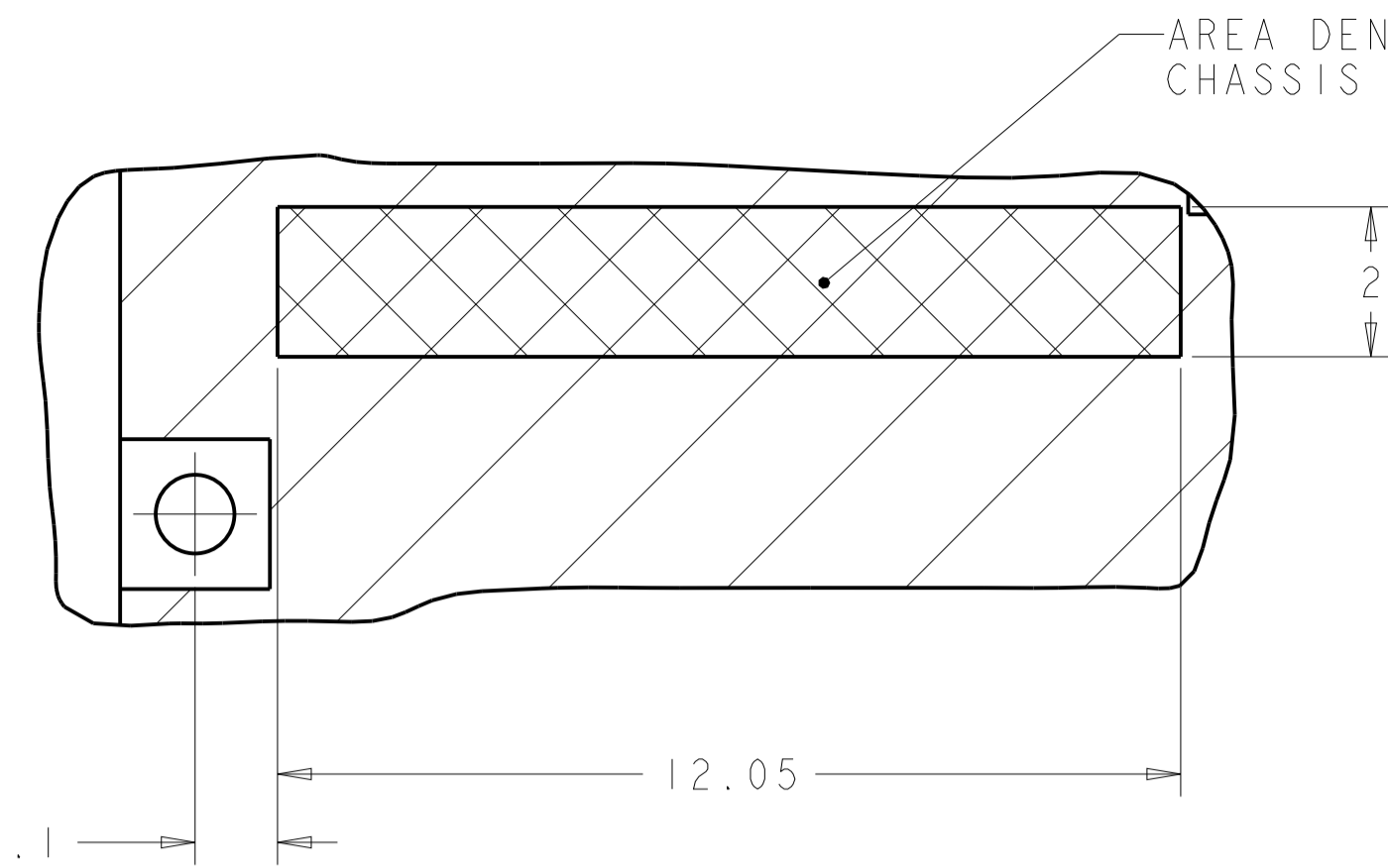


DETAIL G
RECOMMENDED PT CONNECTOR LAYOUT
8X INDIVIDUALLY
SCALE 10:1

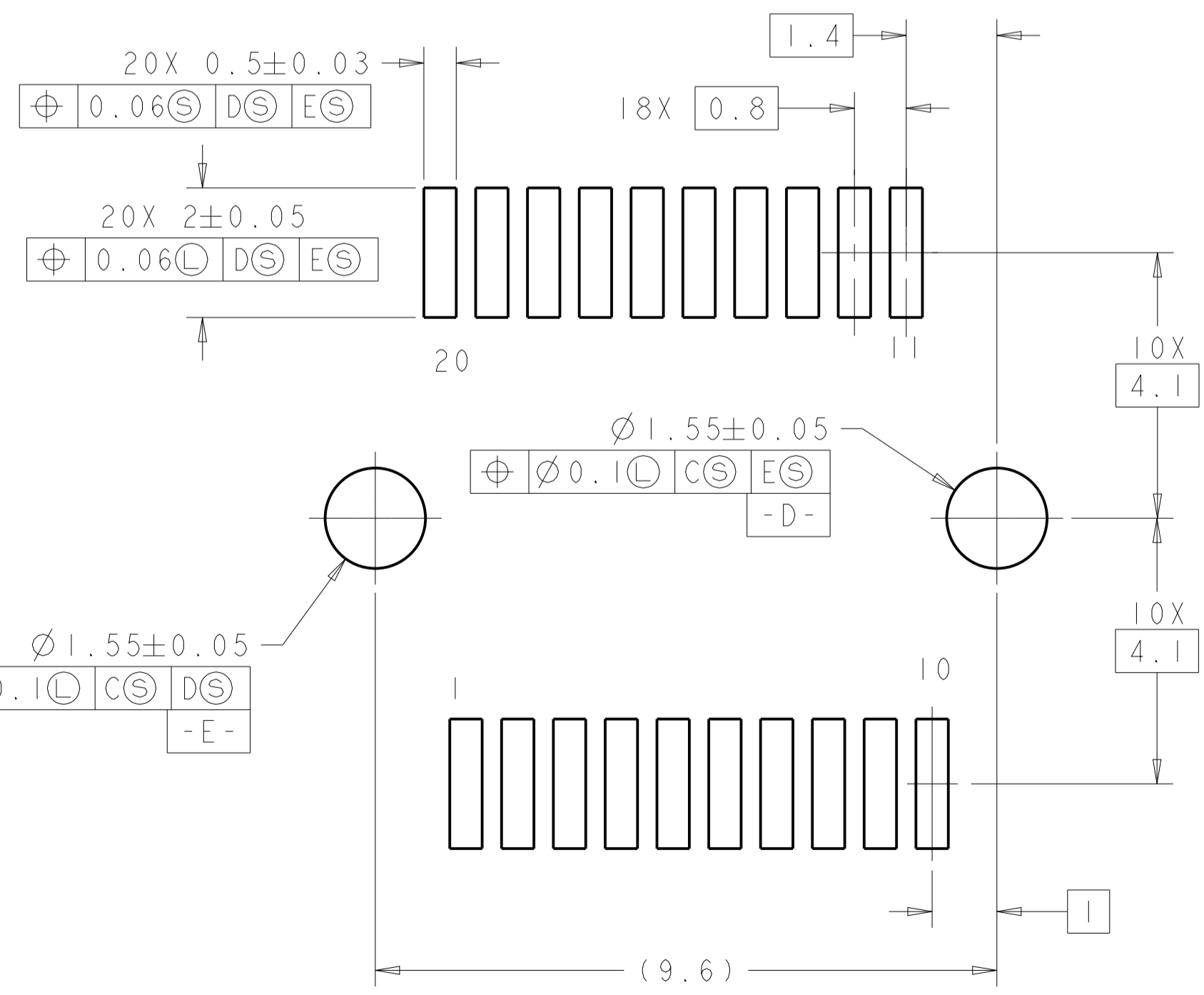
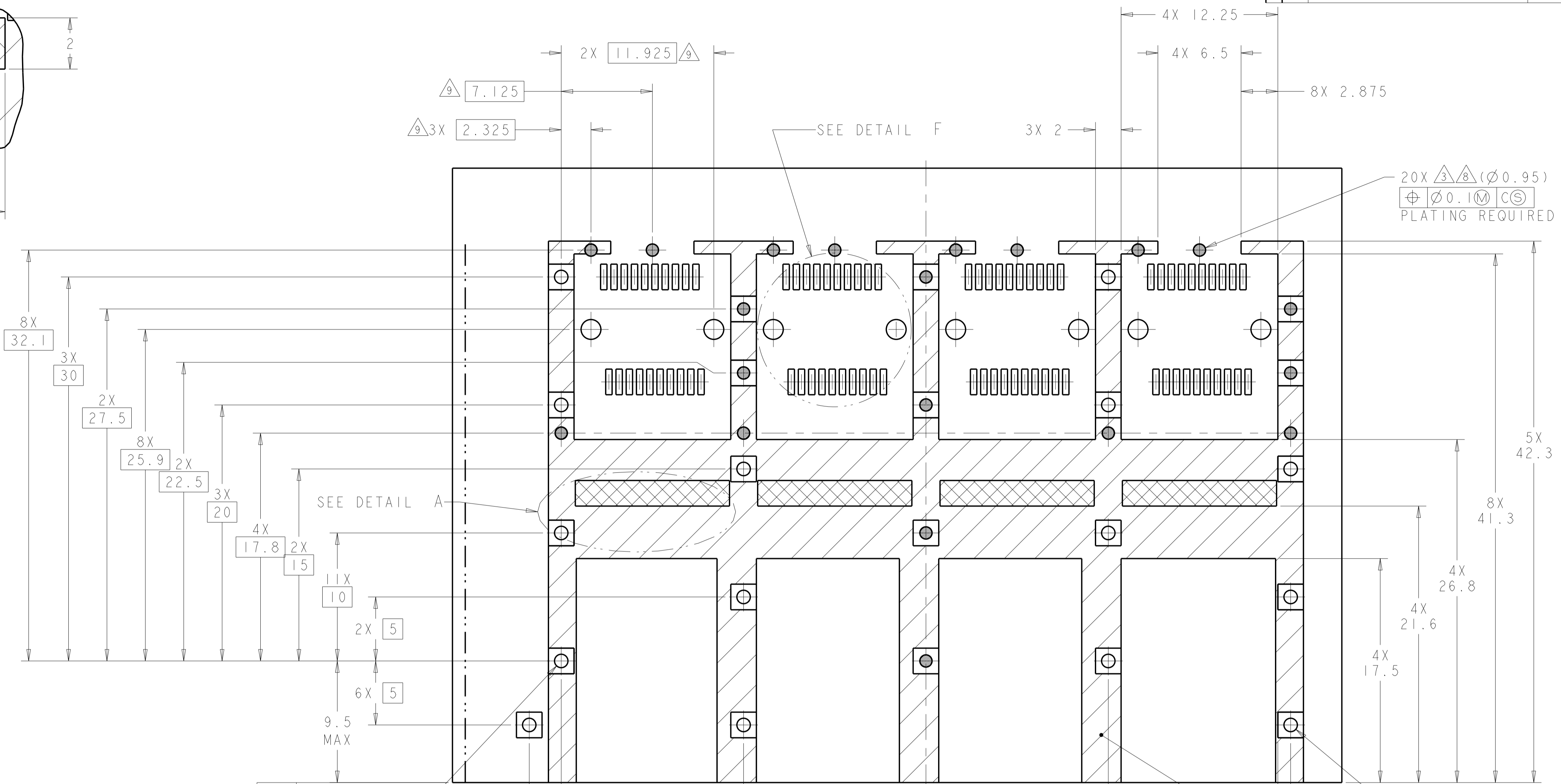
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	STE TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.1		PRODUCT SPEC	
1 PLC ±0.1		108-2364	
2 PLC ±0.1		APPLICATION SPEC	
3 PLC ±0.1		SIZE: CAGE CODE DRAWING NO	RESTRICTED TO
4 PLC ±0.1		A100779C=2149730	
ANGLES ±1°		WEIGHT	SCALE 5:1 SHEET 6 OF 8 REV A6
MATERIAL		Customer Drawing	

LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	SEE SHEET 1		



DETAIL A
 4X INDIVIDUALLY
 SCALE 10:1



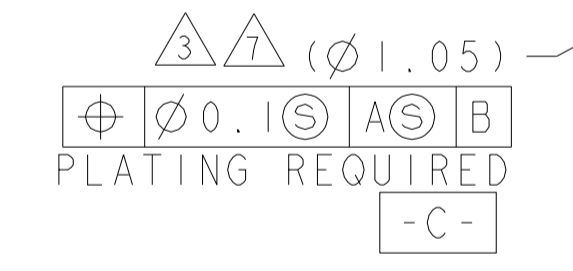
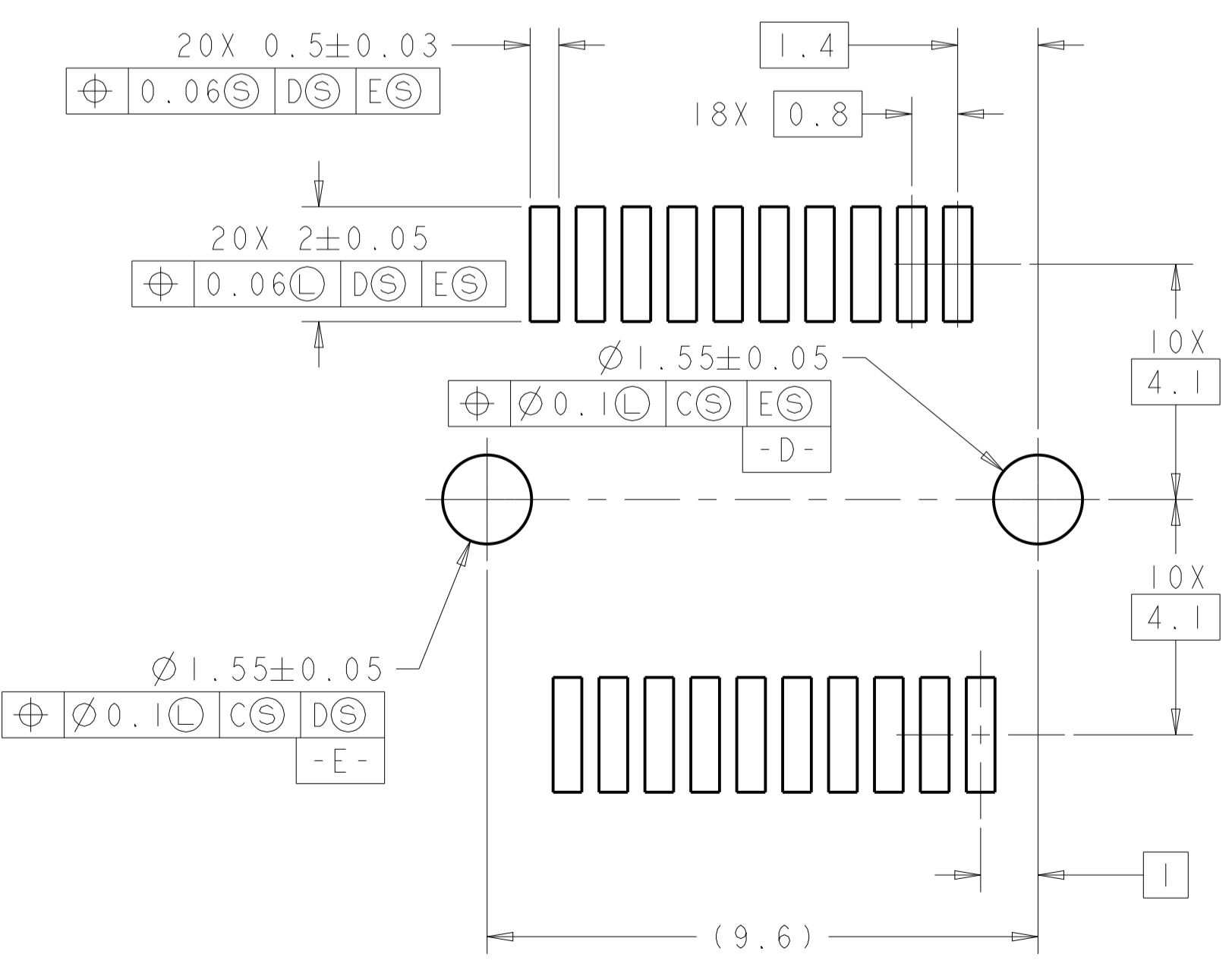
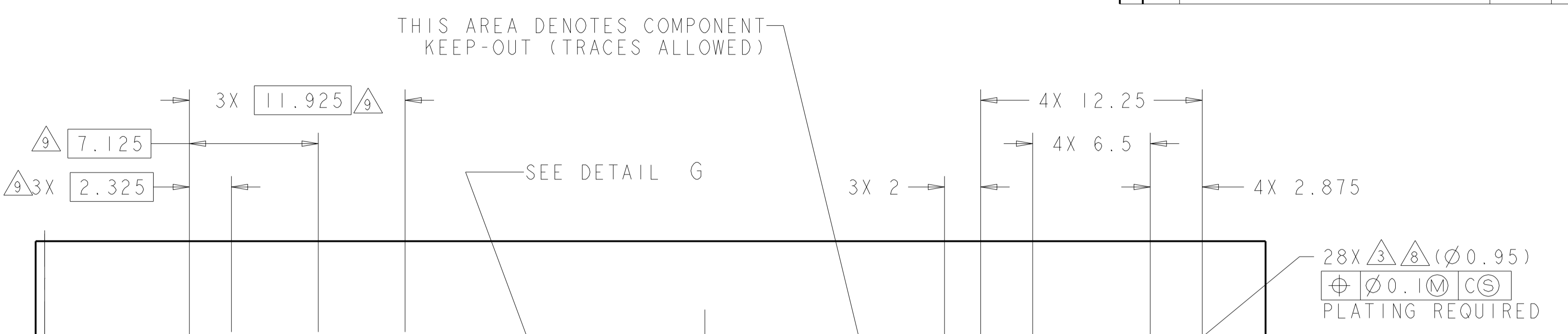
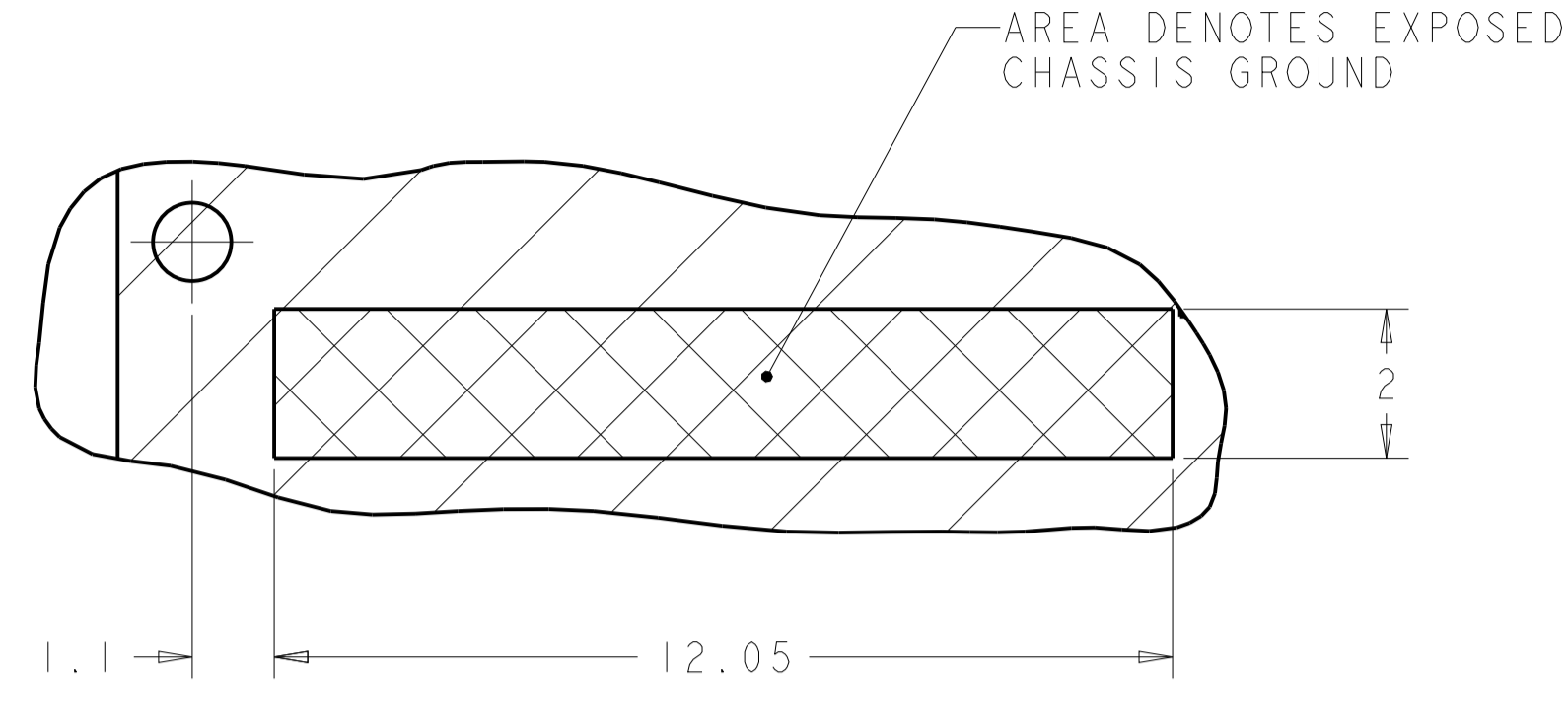
DETAIL F
 RECOMMENDED PT CONNECTOR LAYOUT
 SCALE 12:1

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 PRODUCT SPEC: 108-2364 APPLICATION SPEC: 114-13120
0 PLC ±0.1 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1°		WEIGHT: - Customer Drawing	
MATERIAL: FINISH: -		SIZE: CAGE CODE: DRAWING NO: A100779C=2149730	RESTRICTED TO: -
		SCALE: 5:1	SHEET 7 OF 8
			REV: A6

LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS			
REV	DATE	BY	APPV
-	-	-	-
-	-	-	-



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

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	STE 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		PRODUCT SPEC: 108-2364	
2 PLC ±0.1		APPLICATION SPEC: 114-13120	
4 PLC ±0.1		WEIGHT: -	
ANGLES ±1°		Customer Drawing	SIZE: A1 00779C=2149730
MATERIAL:		FINISH:	RESTRICTED TO: -
SCALE: 5:1		SHEET: 8 OF 8	REV: A6

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