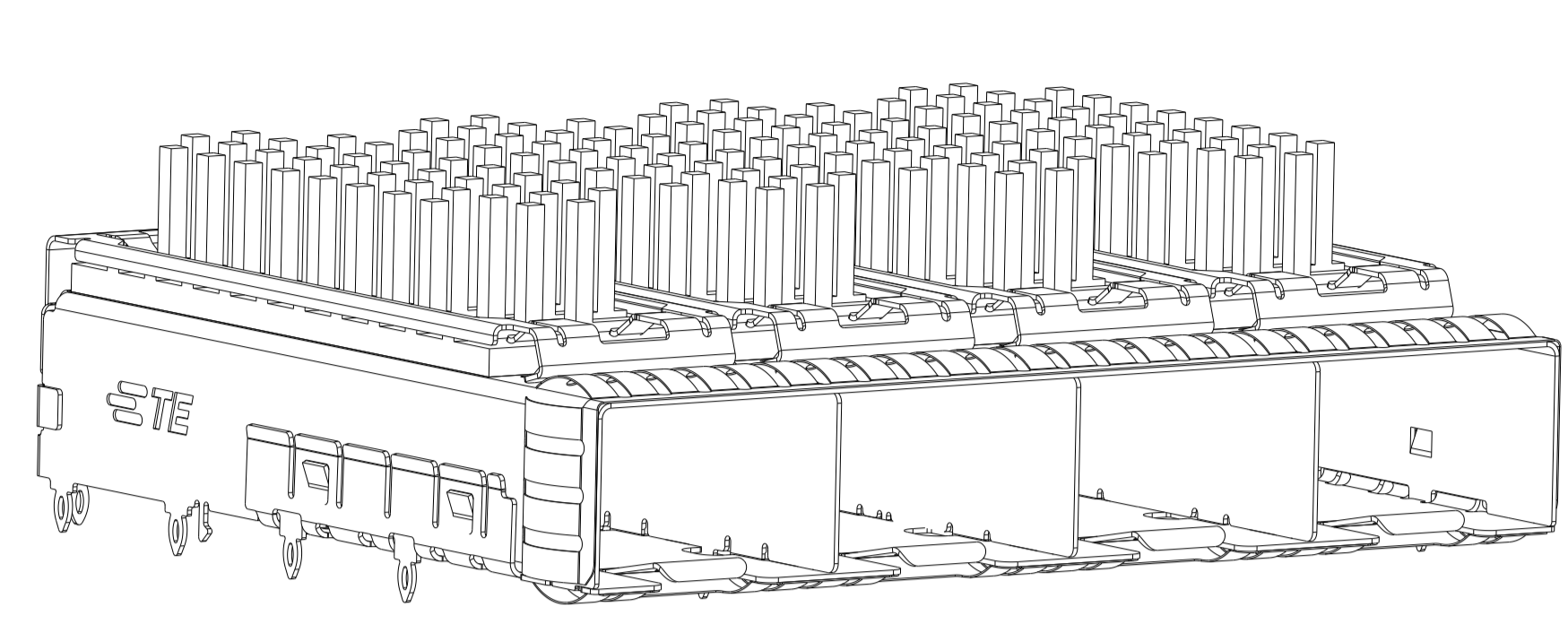
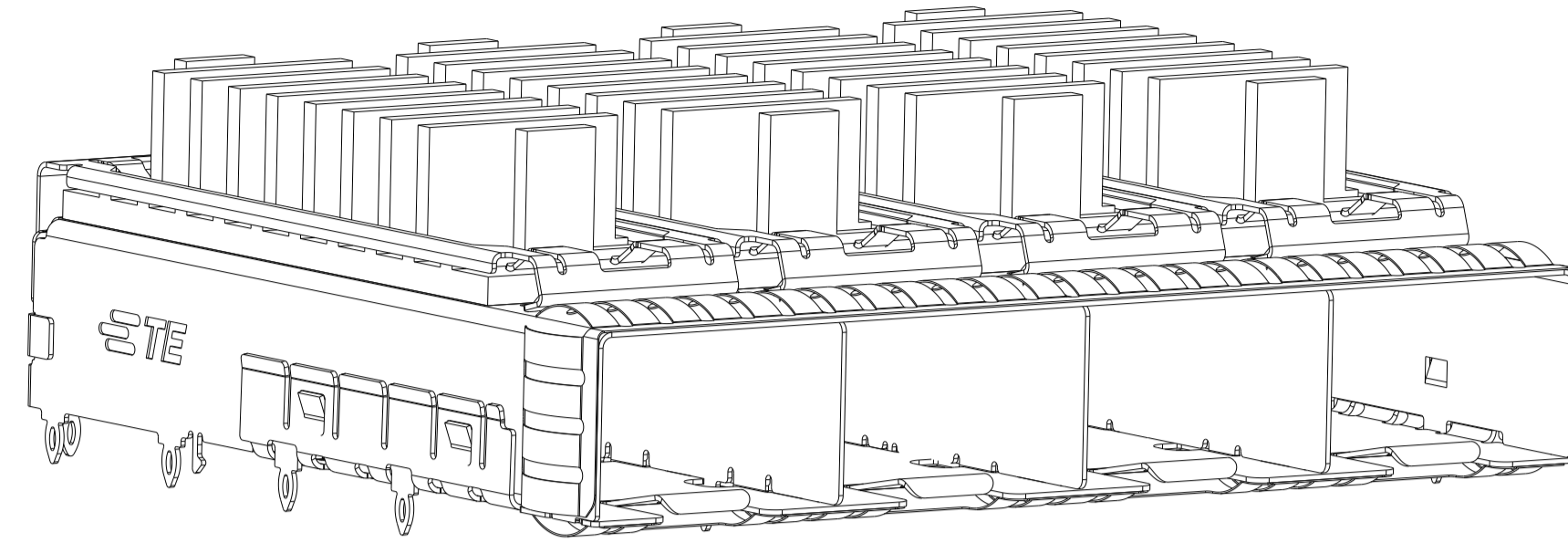


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GP	00	P	LTN	DESCRIPTION	DATE	OWN	APVD
		A4		REVISED PER ECR-19-006709	10APR2019	IT	SH
		A5		REVISED PER ECO-20-000404	09JAN2020	IT	SH
		A6		REVISED PER ECR-20-015251	28OCT2020	IT	SH
		A7		ADD NEW DASH NUMBER 1-2149730-4	02NOV2021	SZ	SZ

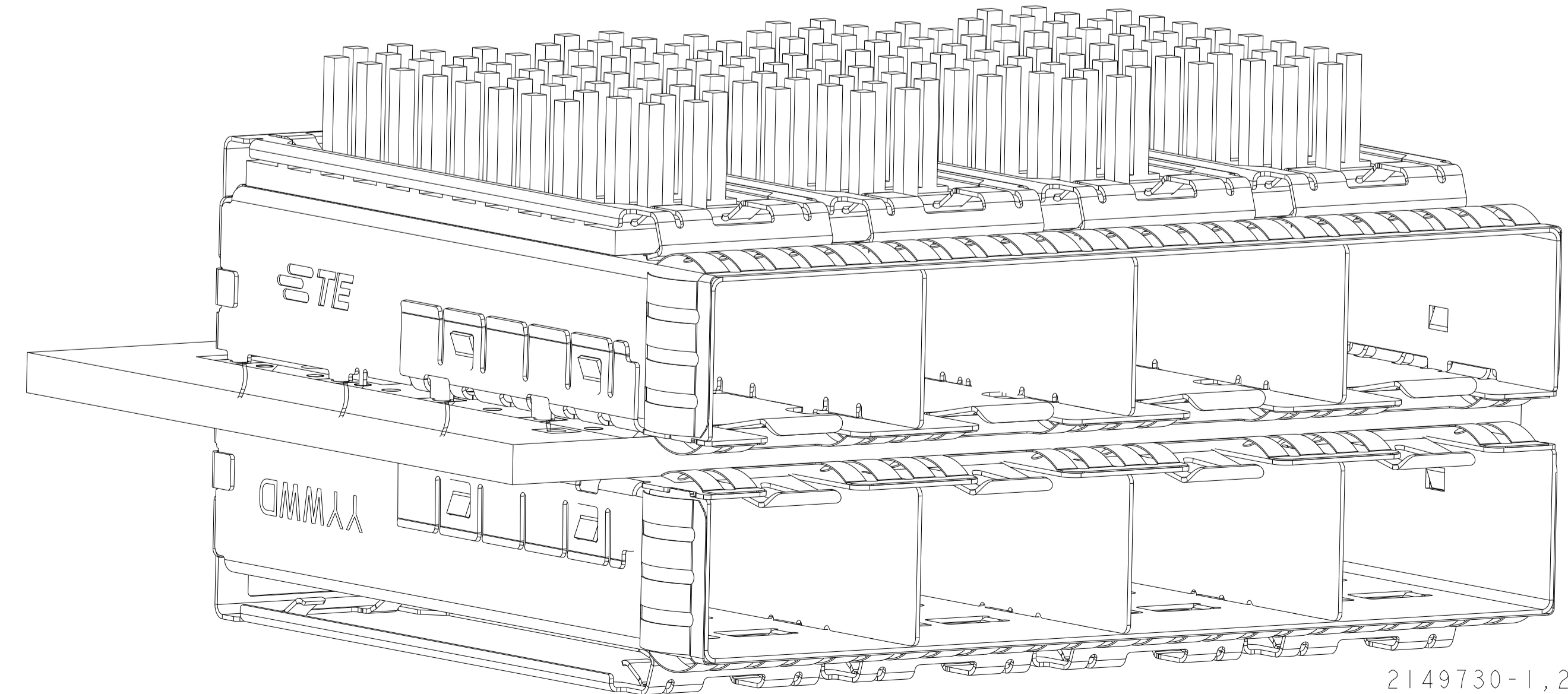
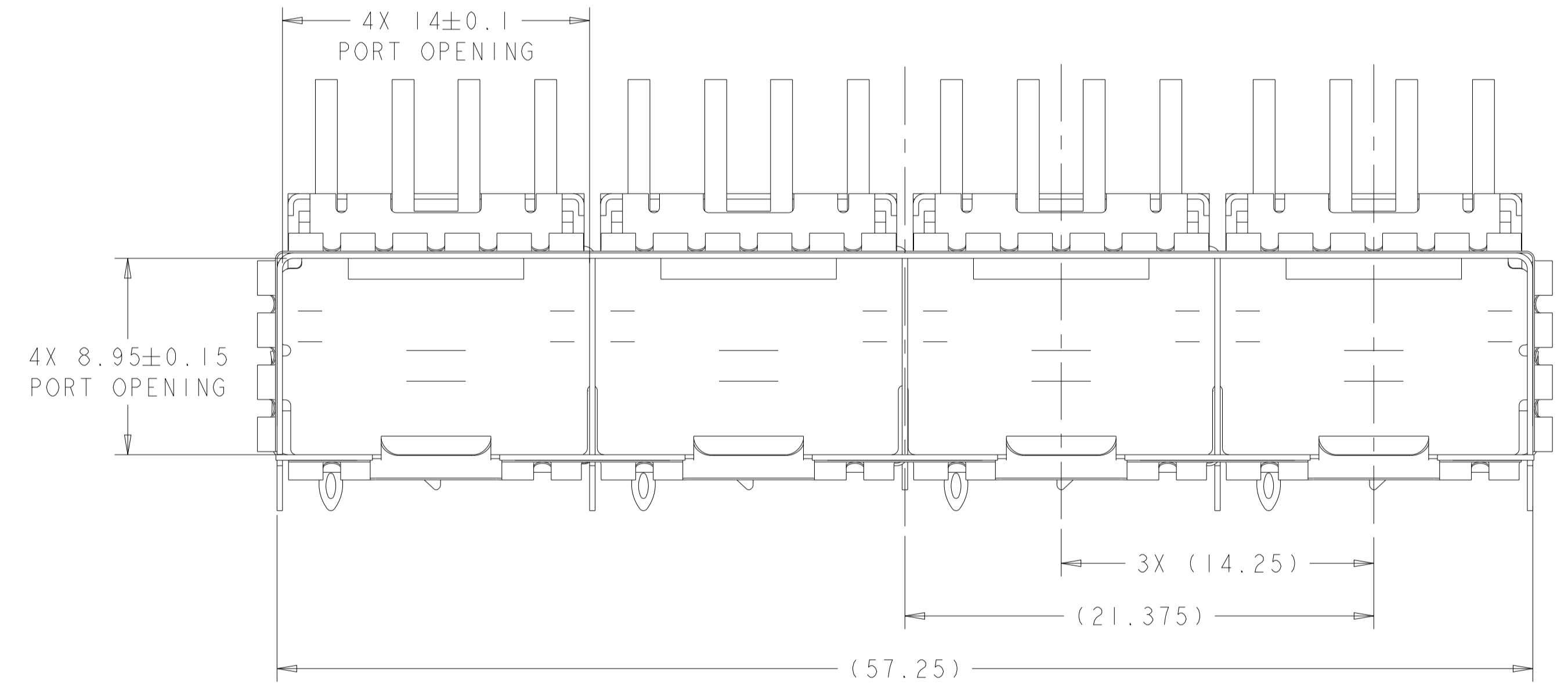
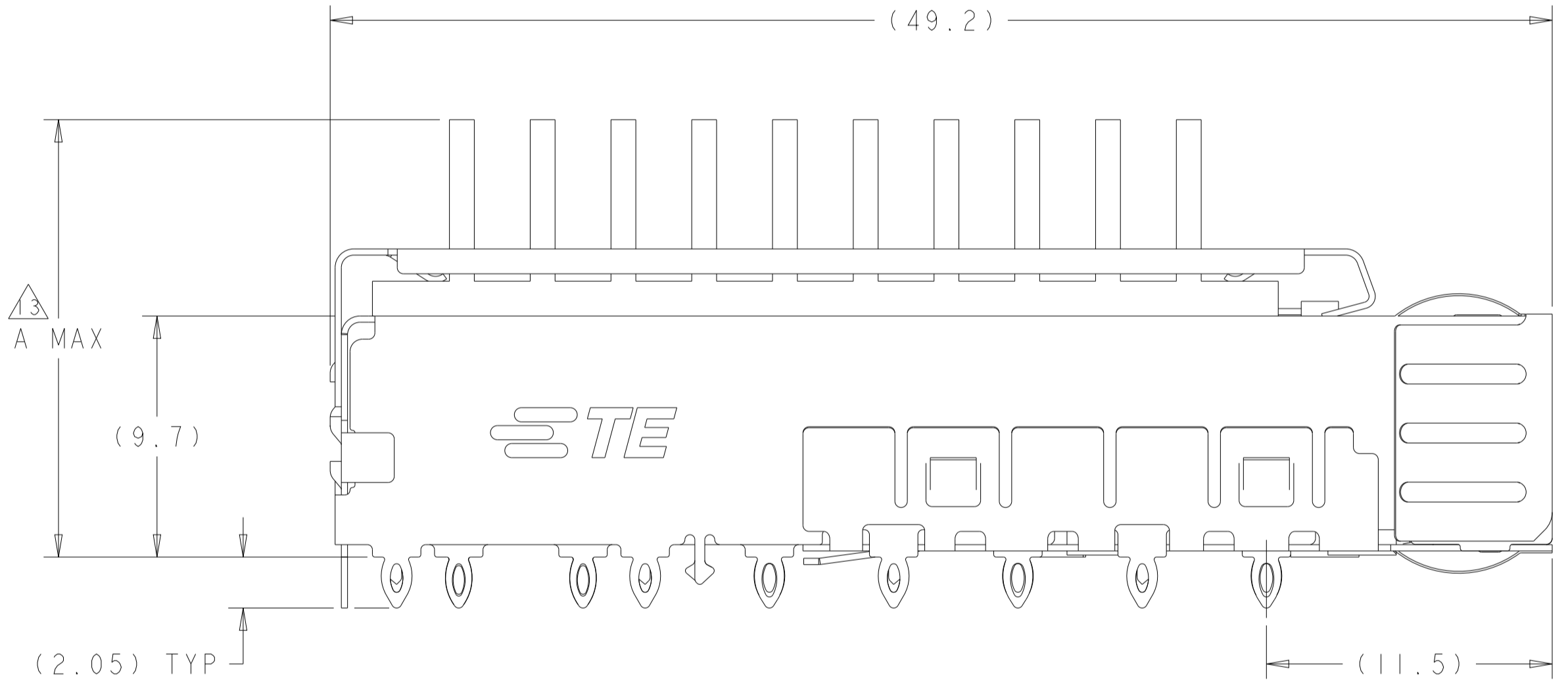


2149730-1,2,3,4,5  
 FINISHED ASSEMBLY WITH  
 PIN TYPE HEAT SINK



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 FROM 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	1-2149730-4
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

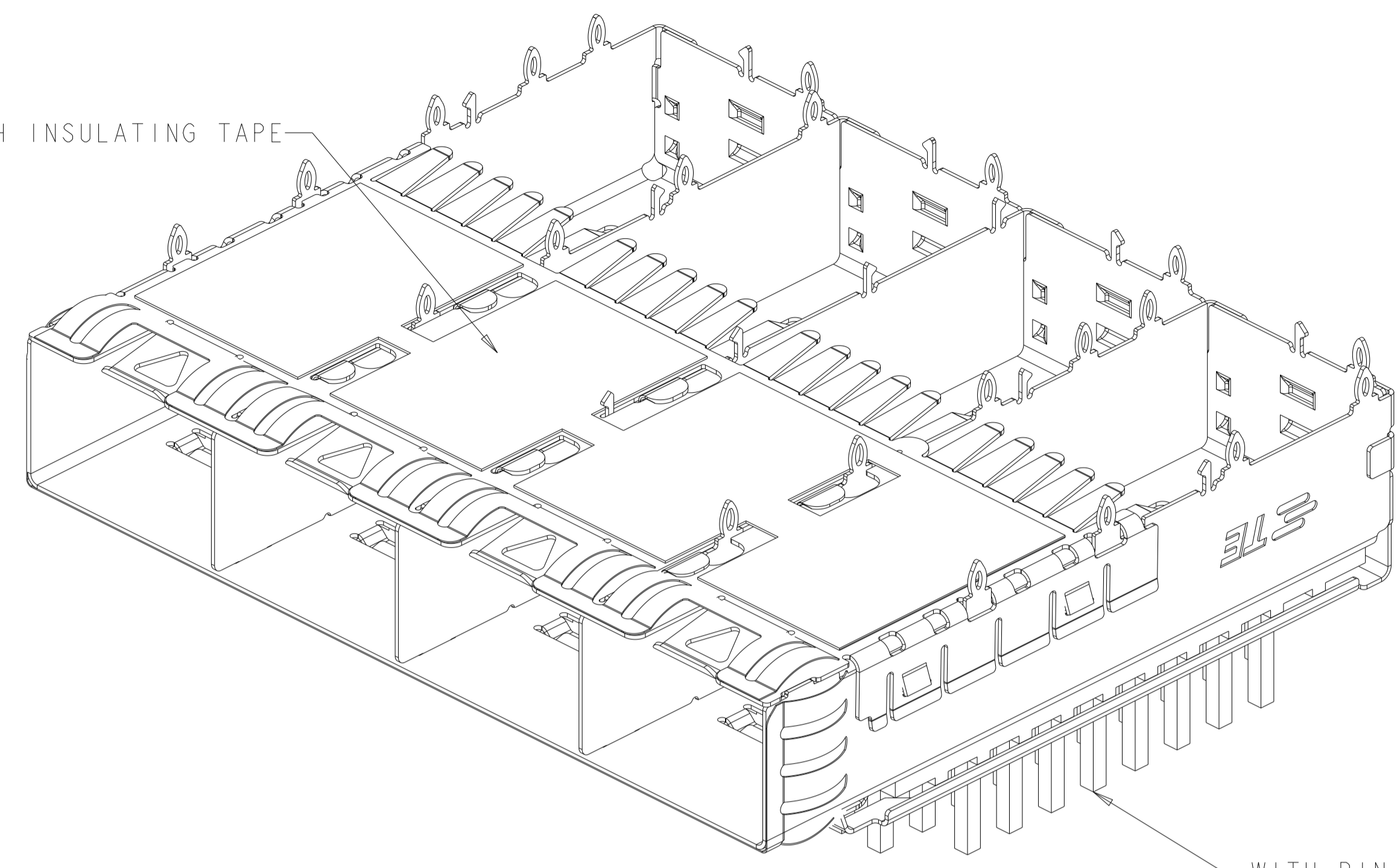
THIS DRAWING IS A CONTROLLED DOCUMENT. OWN: M. SCHMITT 23AUG2010  
 CHK: M. SCHMITT 23AUG2010  
 DIMENSIONS: mm TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 0 PLC ±0.1  
 1 PLC ±0.1  
 2 PLC ±0.1  
 3 PLC ±0.1  
 4 PLC ±0.1  
 ANGLES ±1°  
 MATERIAL: FINISH:

APVD: B. WERTZ 23AUG2010  
 NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK  
 PRODUCT SPEC: 108-2364  
 APPLICATION SPEC: 114-13120  
 WEIGHT: -  
 SIZE: CAGE CODE DRAWING NO: 100779  
 DRAWING NO: 2149730  
 RESTRICTED TO: -  
 Customer Drawing SCALE: 2:1 SHEET: 1 OF 9 REV: A7

**STE** TE Connectivity

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

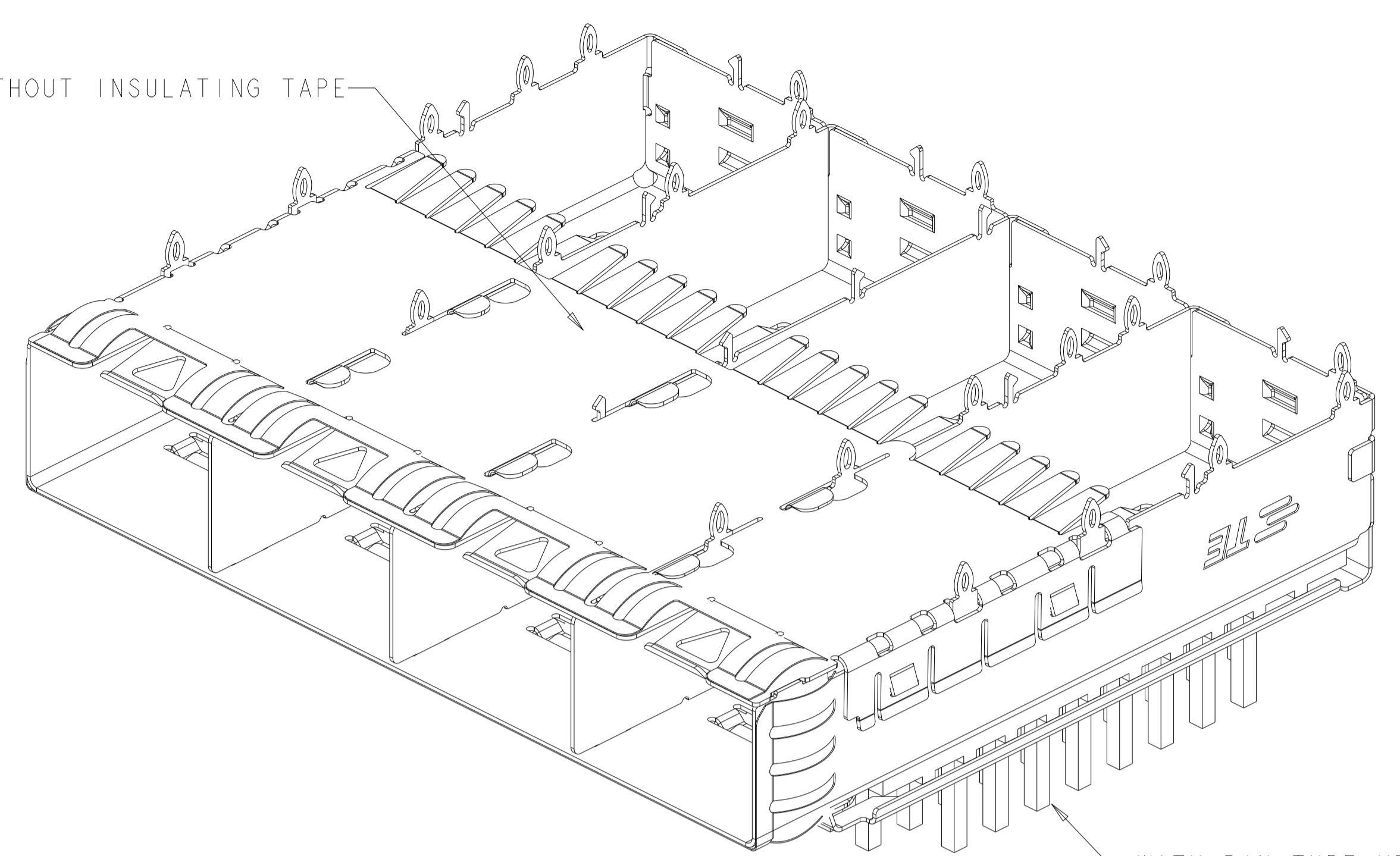
WITH INSULATING TAPE



WITH PIN TYPE HEAT SINK

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

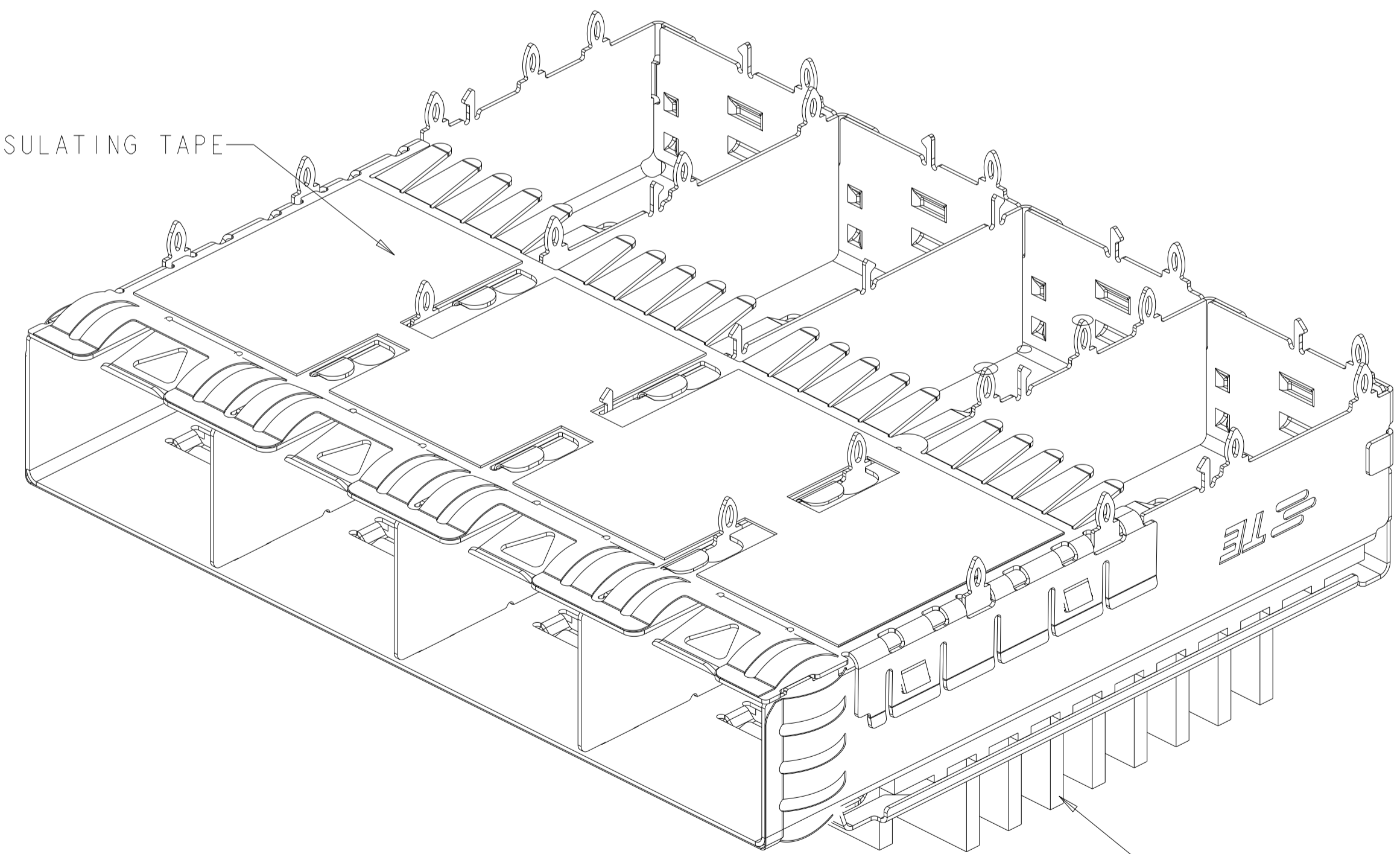
WITHOUT INSULATING TAPE



WITH PIN TYPE HEAT SINK

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

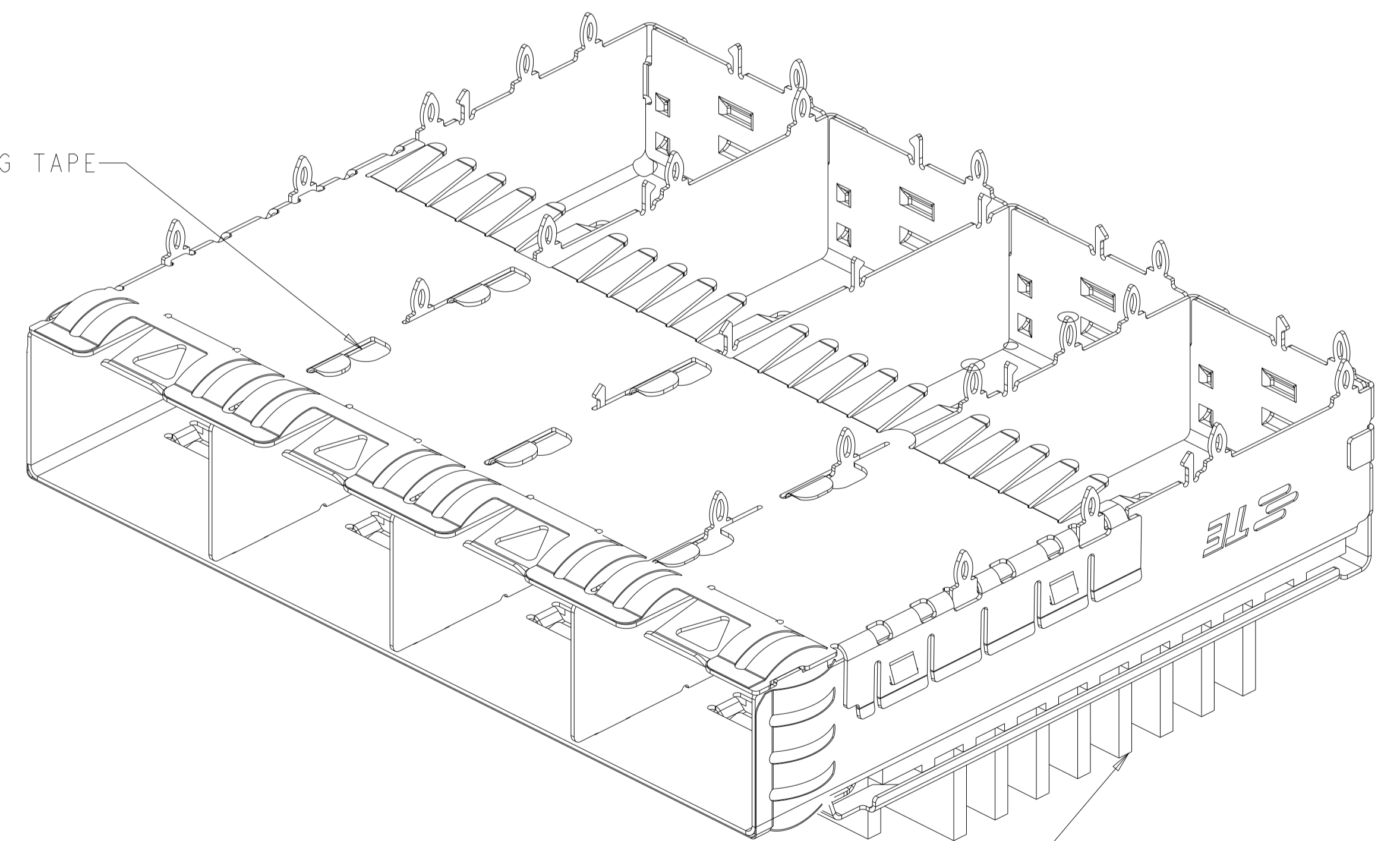
WITH INSULATING TAPE



WITH FIN TYPE HEAT SINK

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

WITHOUT INSULATING TAPE



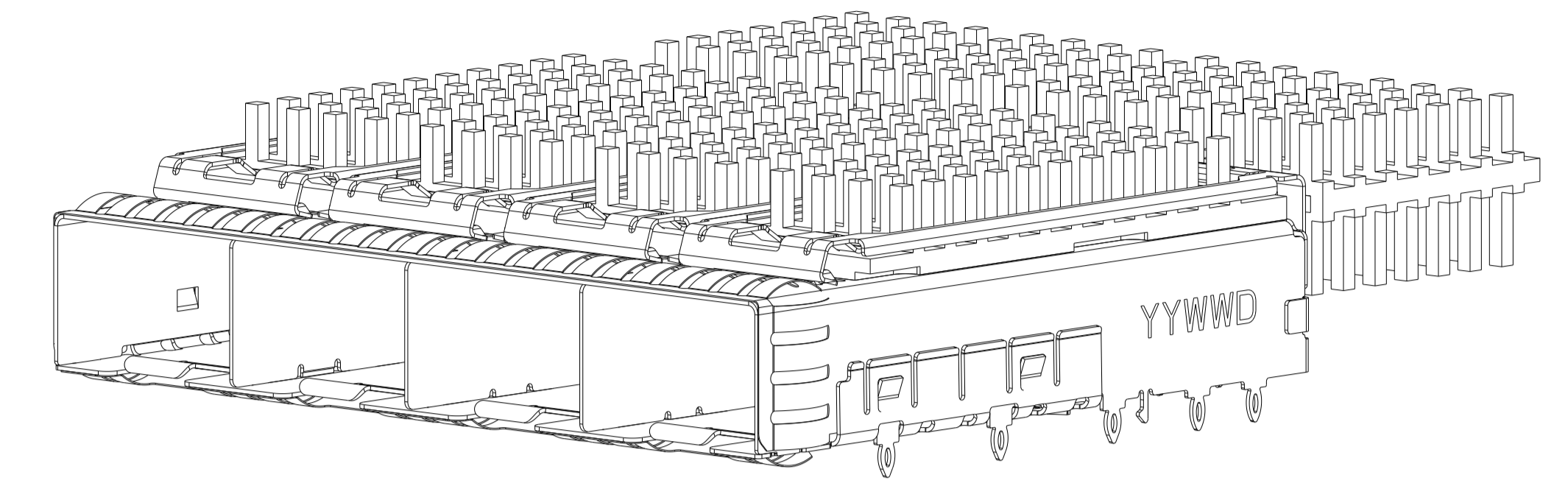
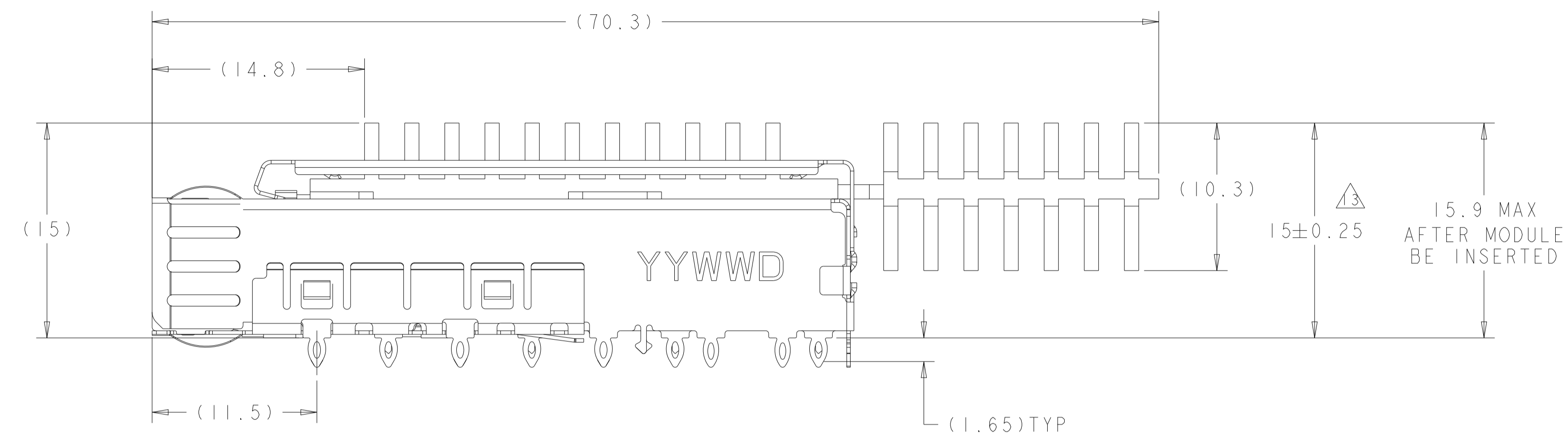
WITH FIN TYPE HEAT SINK

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	APVD	B. WERTZ	23AUG2010	NAME
	1 PLC ±0.1	PRODUCT SPEC	108-2364		SFP+ ENHANCED 1X4 CAGE ASSEMBLY
	2 PLC ±0.1	APPLICATION SPEC	114-13120		PRESS FIT, EXTERNAL EMI SPRINGS
	3 PLC ±0.1	WEIGHT	-		WITH HEATSINK
	4 PLC ±0.1	RESTRICTED TO	-		
MATERIAL	FINISH	SIZE	CAGE CODE	DRAWING NO	SCALE
		A1	00779	C=2149730	2:1
		Customer Drawing			SHEET
					2
					OF
					9
					REV
					A7

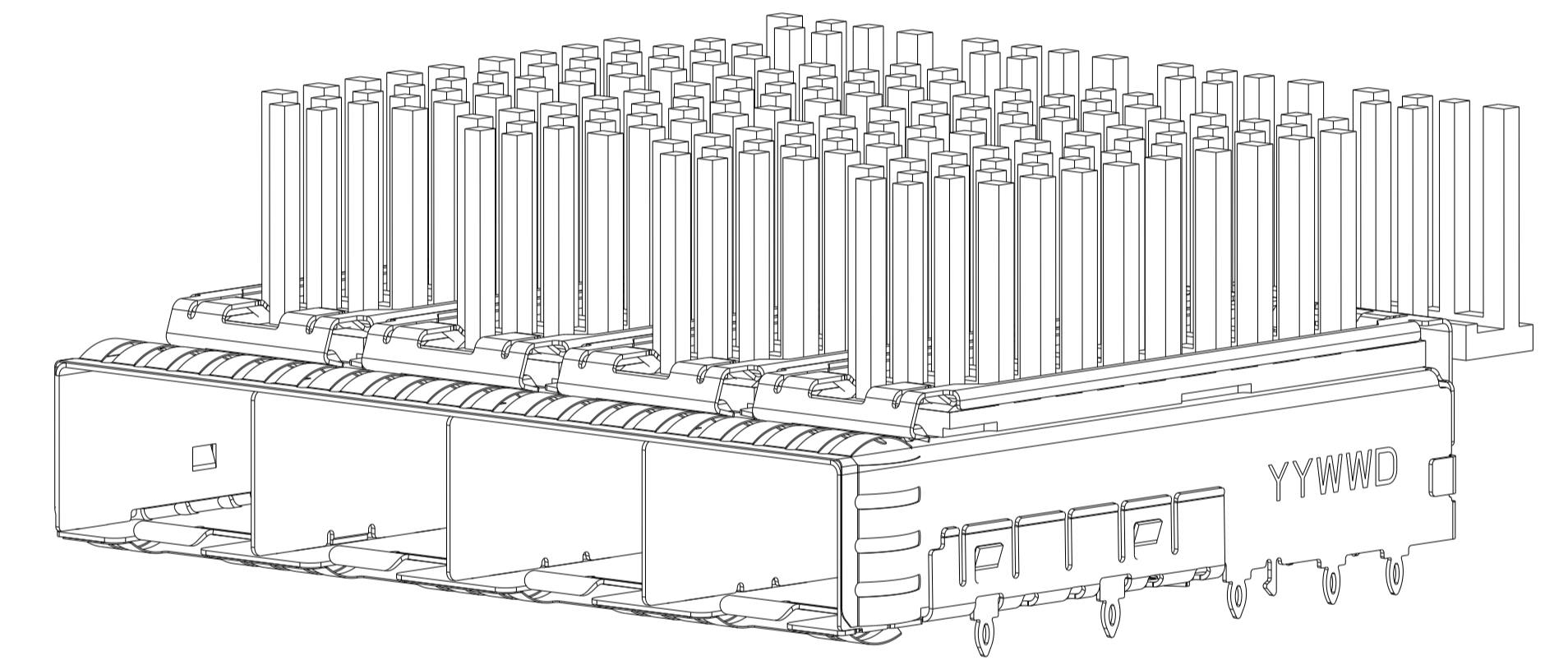
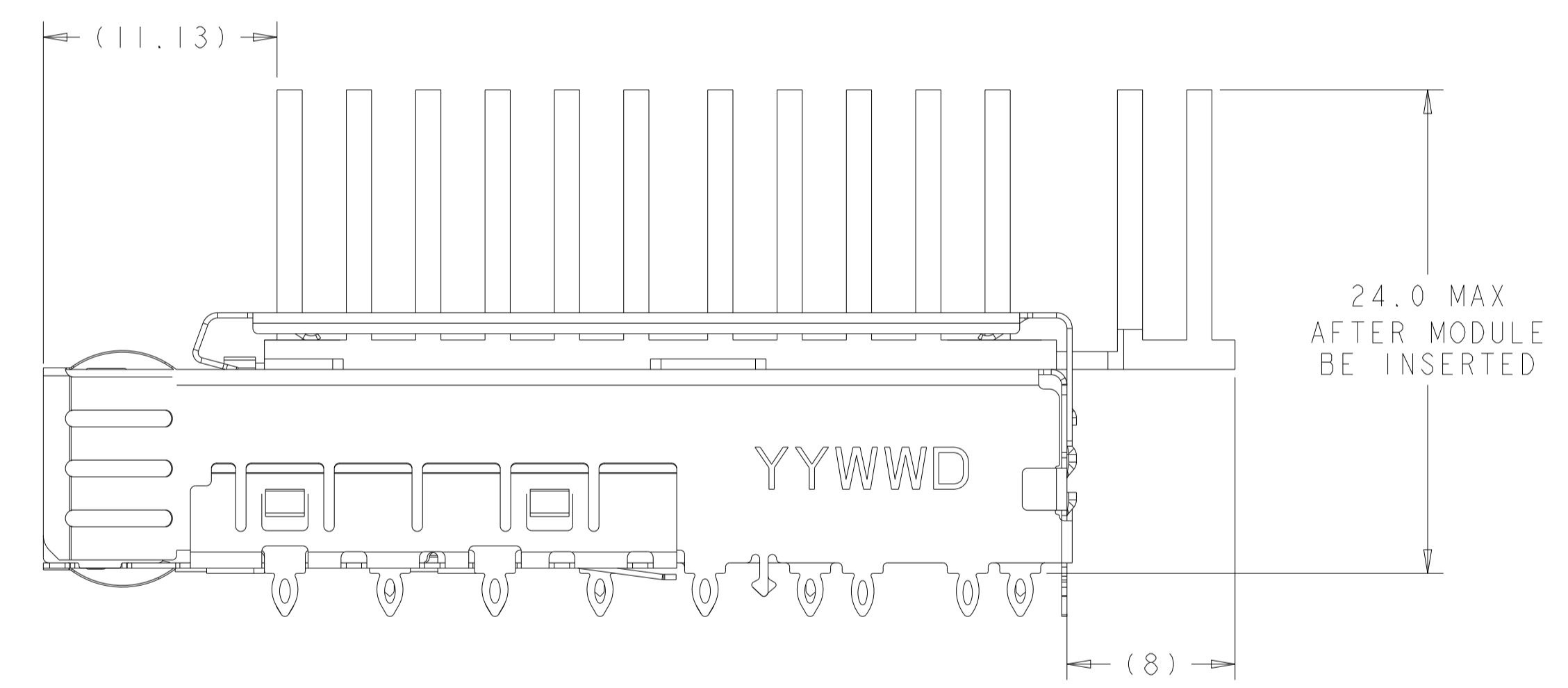
LOC		DIST		REVISIONS			
GP	00	P	LYN	DESCRIPTION	DATE	OWN	APVD
-	-	-	-	SEE SHEET 1	-	-	-

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



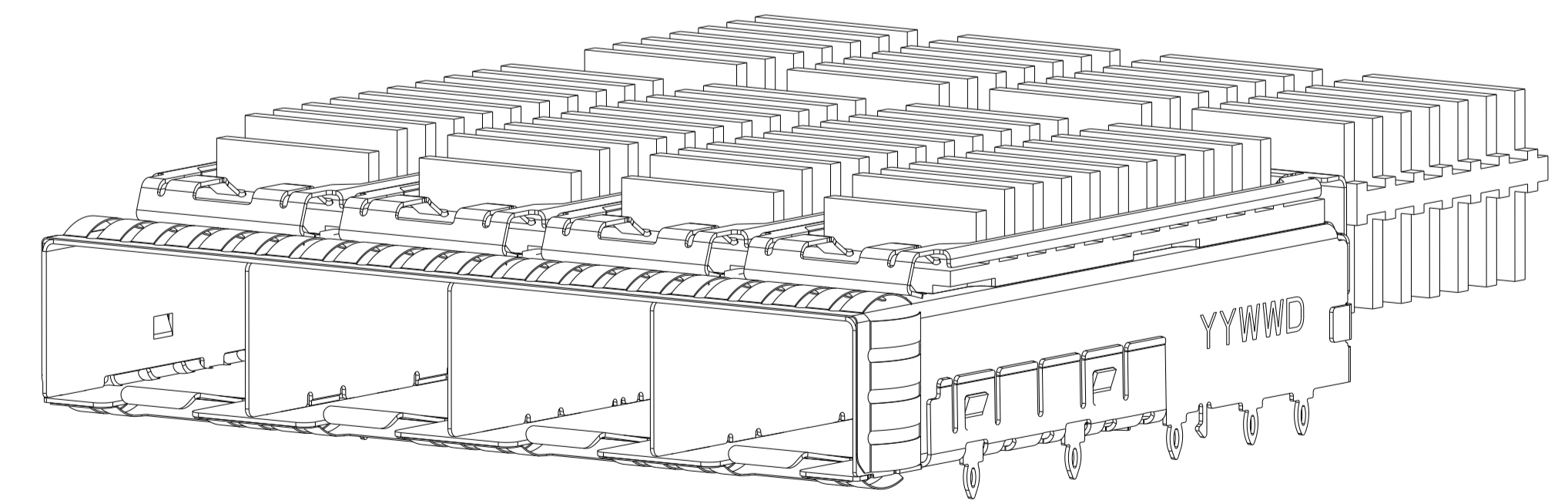
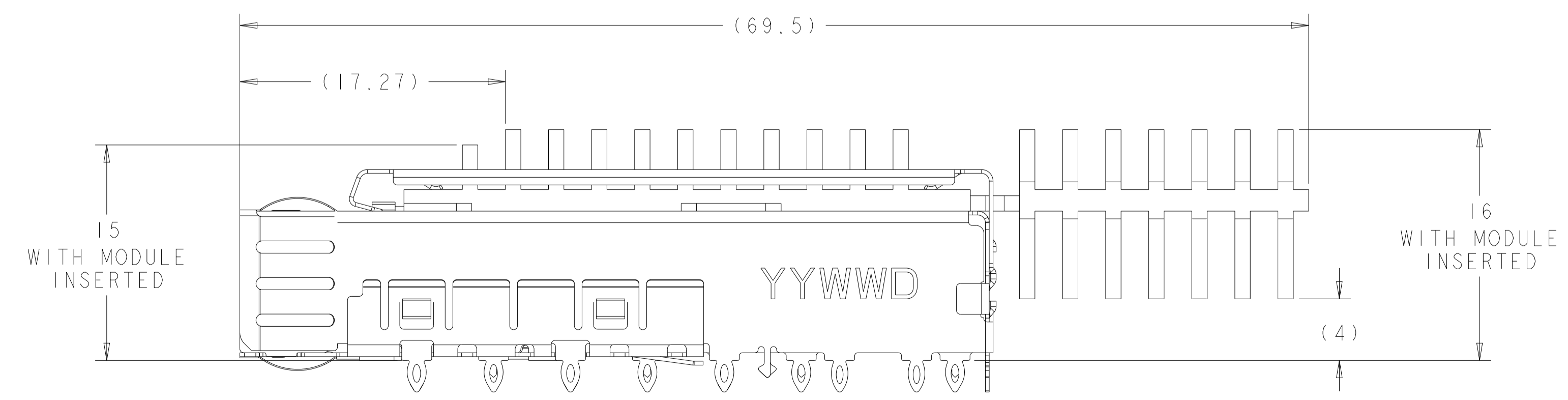
1-2149730-1 3D VIEW  
 SCALE 3:1

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

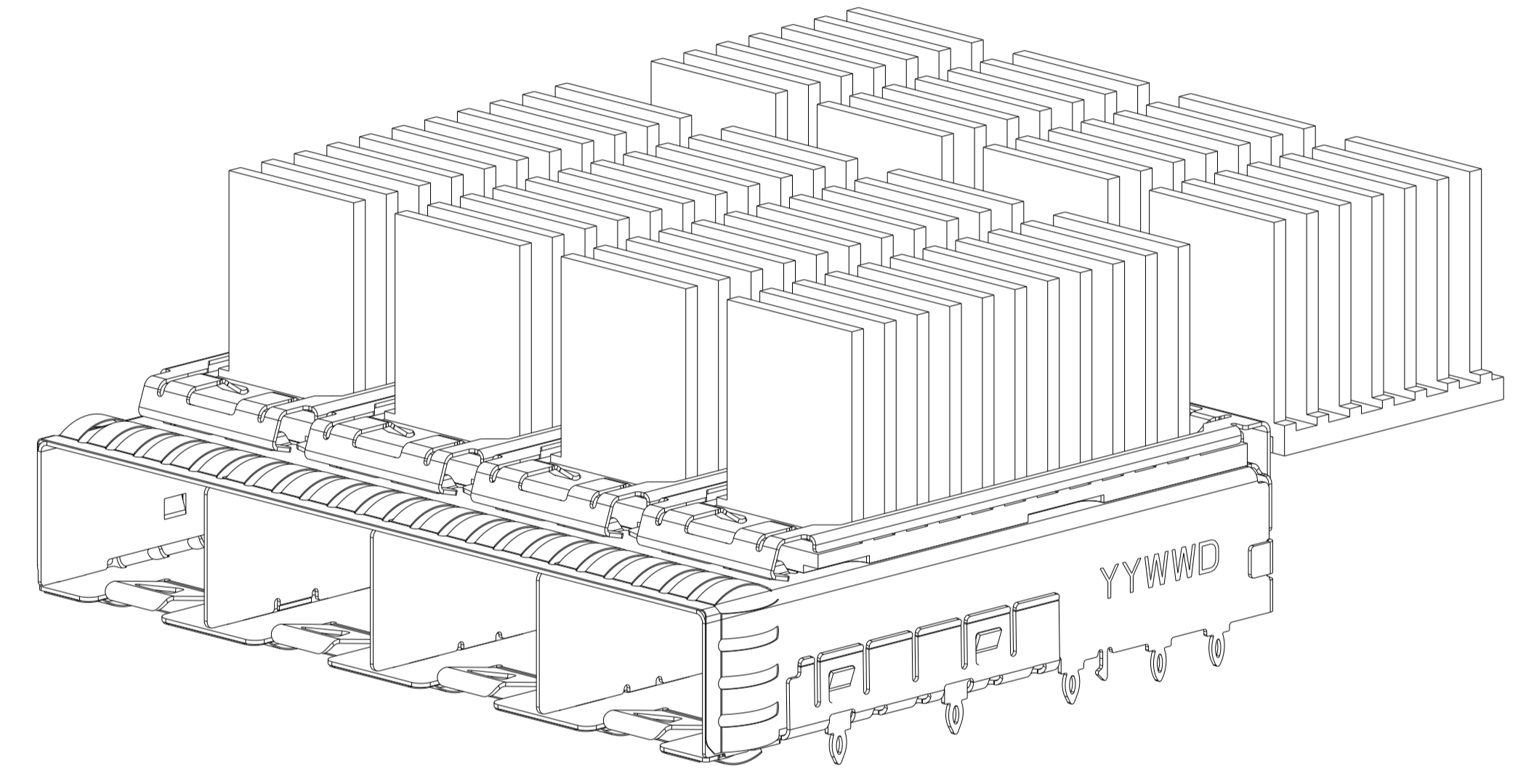
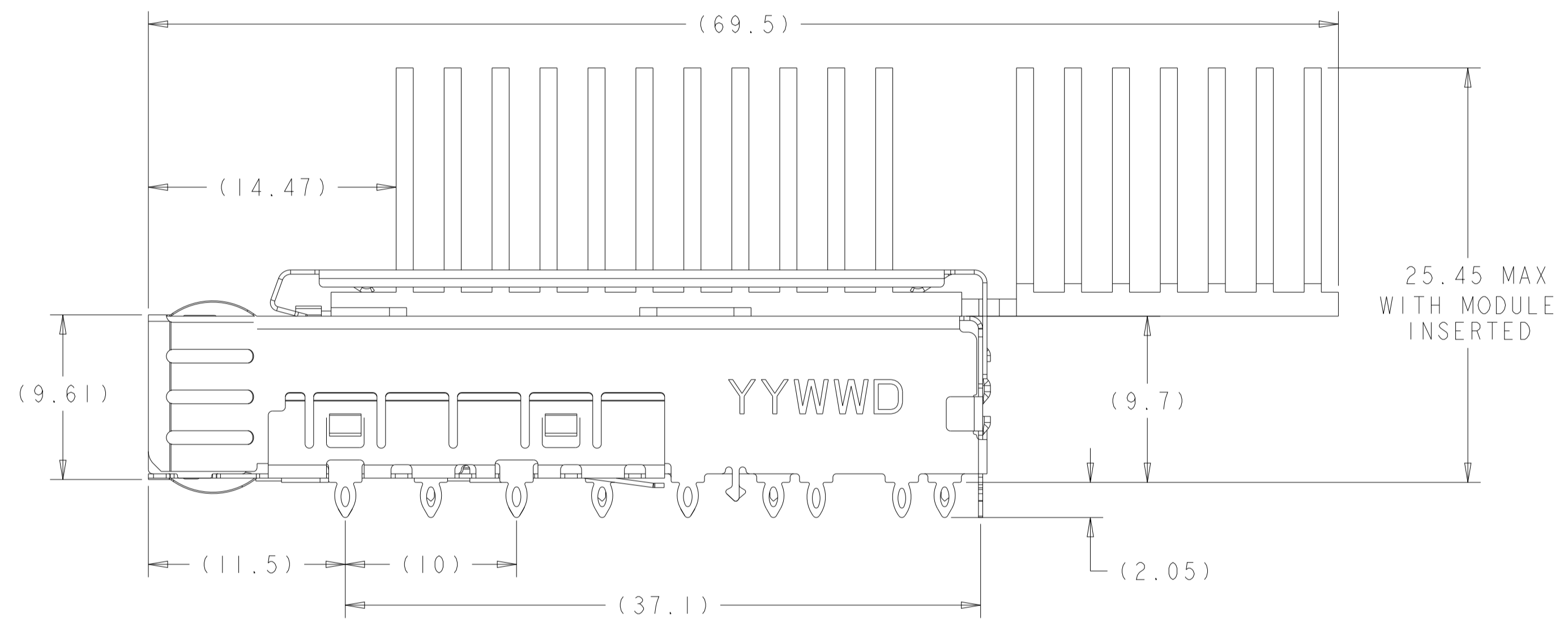
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN 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 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±0.1 4 PLC ±0.1 ANGLES ±1° FINISH		PRODUCT SPEC 108-2364	RESTRICTED TO
MATERIAL		APPLICATION SPEC 114-13120	SIZE CAGE CODE DRAWING NO A100779C=2149730
SCALE 4:1		WEIGHT	Customer Drawing
SHEET 3 OF 9		SCALE 2:1	REV A7

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LOC	DIST	REVISIONS					
GP	00	P	LYN	DESCRIPTION	DATE	OWN	APVD
		-		SEE SHEET 1	-	-	-

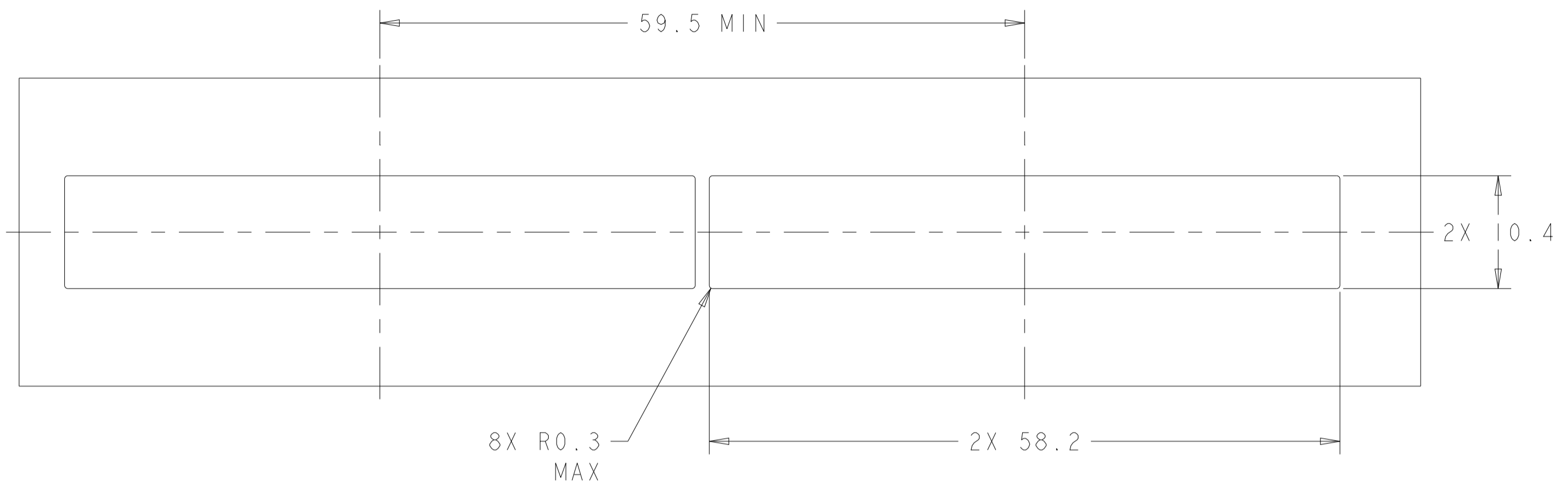
1-2149730-4 AS SHOWN  
 UNMARKED SAME AS 2149730-1



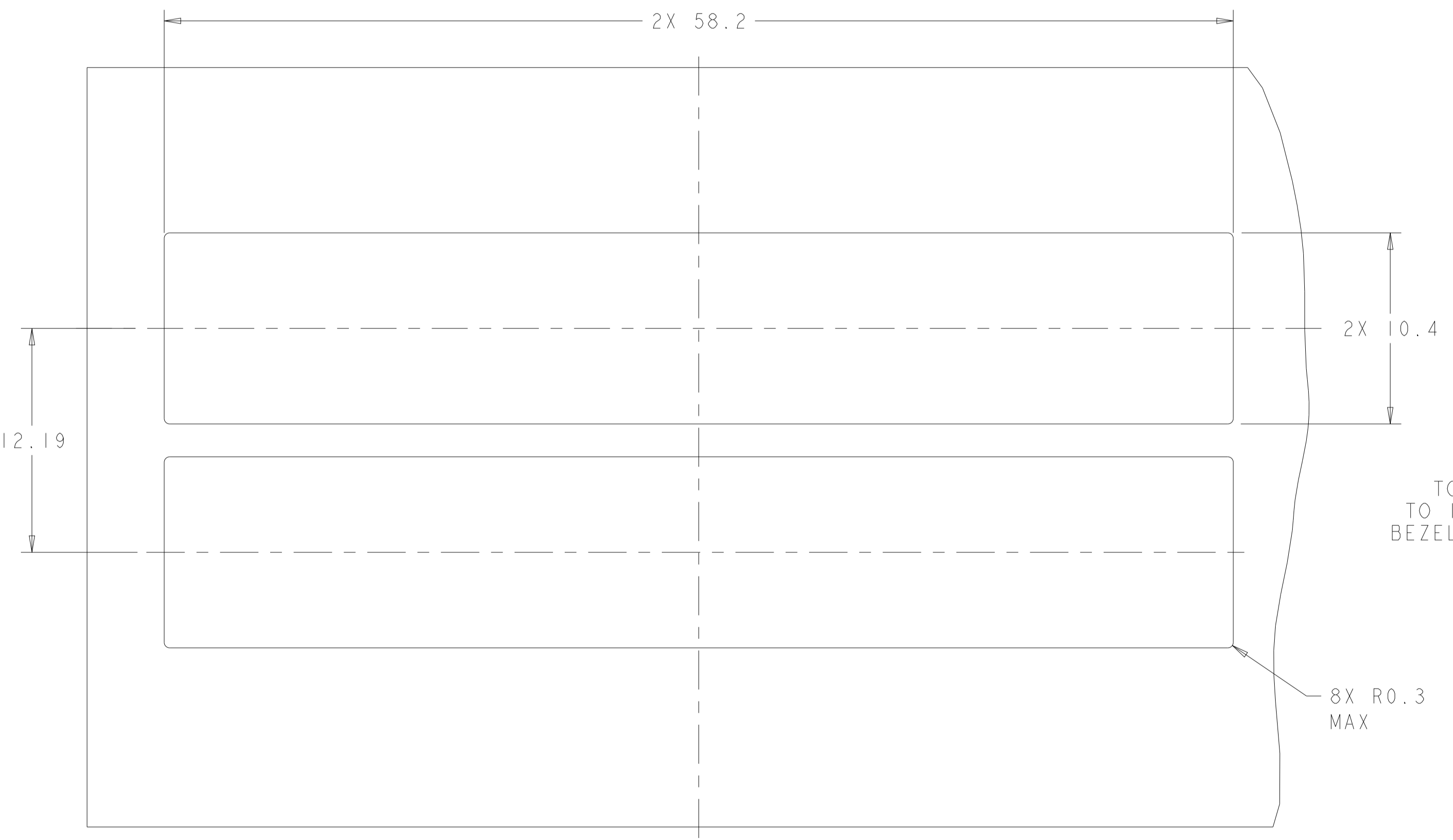
1-2149730-4 AS SHOWN  
 UNMARKED SAME AS 2149730-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN M. SCHMITT	23AUG2010	<b>TE</b> TE Connectivity
DIMENSIONS:		CHK M. SCHMITT	23AUG2010	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD B. WERTZ	23AUG2010	NAME
0 PLC	±0.1	PRODUCT SPEC		SFP+ ENHANCED 1X4 CAGE ASSEMBLY
1 PLC	±0.1	APPLICATION SPEC		PRESS FIT, EXTERNAL EMI SPRINGS
2 PLC	±0.1	108-2364		WITH HEATSINK
3 PLC	±0.1	114-13120		RESTRICTED TO
4 PLC	±0.1	WEIGHT		A100779C=2149730
ANGLES	±1°	Customer Drawing		SCALE 2:1 SHEET 4 OF 9 REV A7
FINISH				

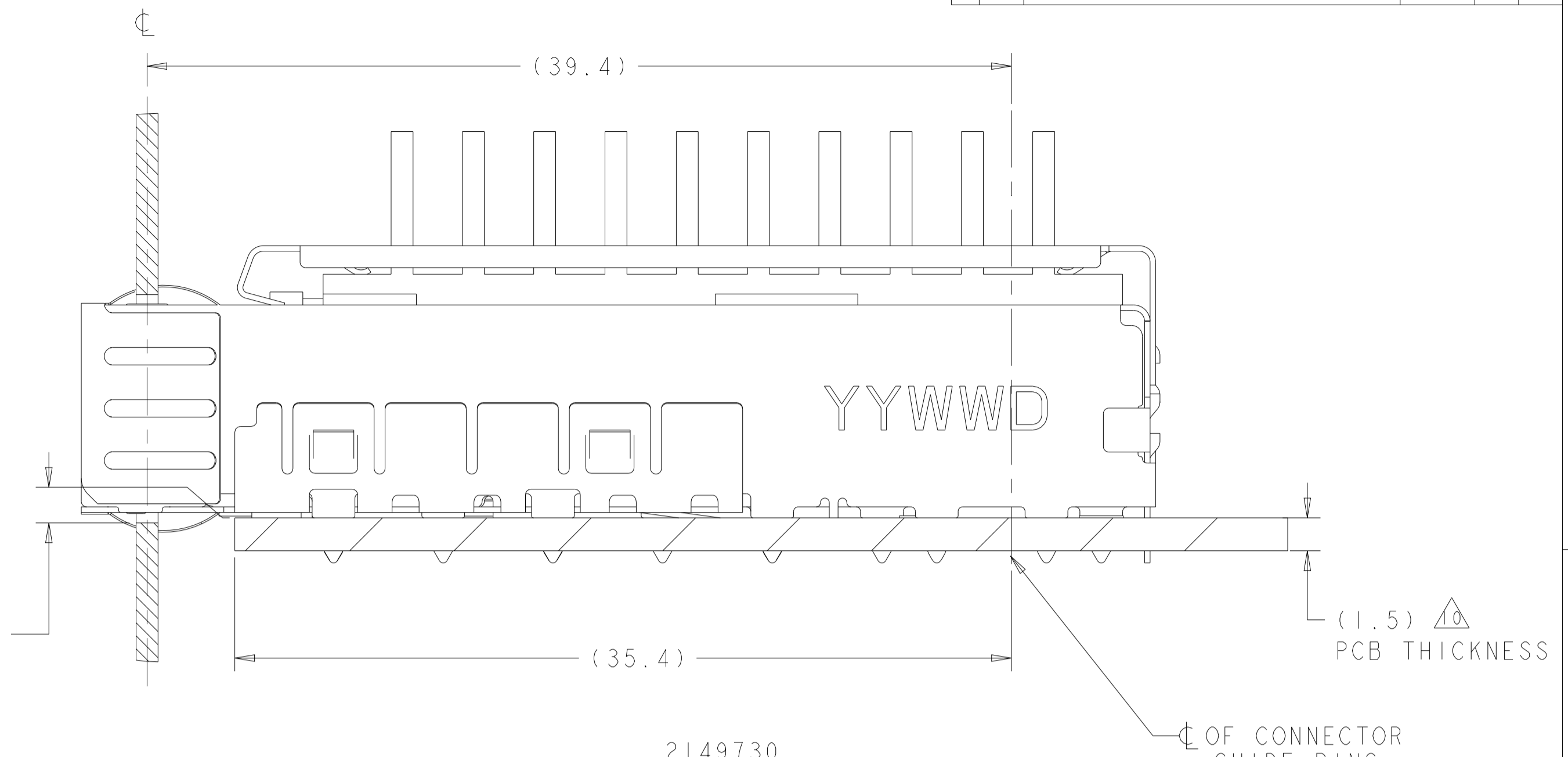
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GP	00				
REVISIONS					



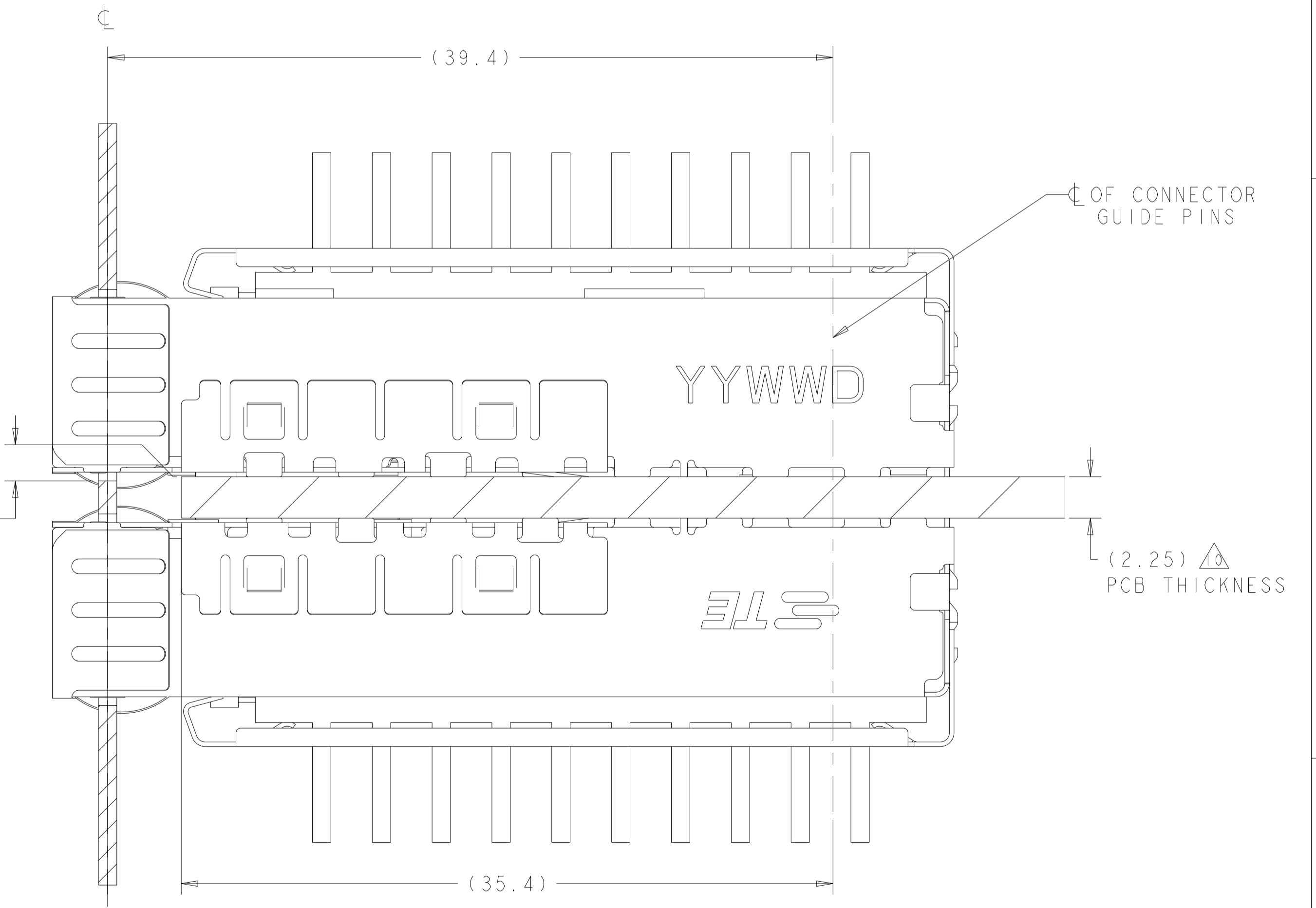
RECOMMENDED BEZEL CUT-OUT  
 SINGLE SIDED APPLICATIONS  
 SCALE 5:2



RECOMMENDED BEZEL CUT-OUT  
 BELLY TO BELLY APPLICATIONS



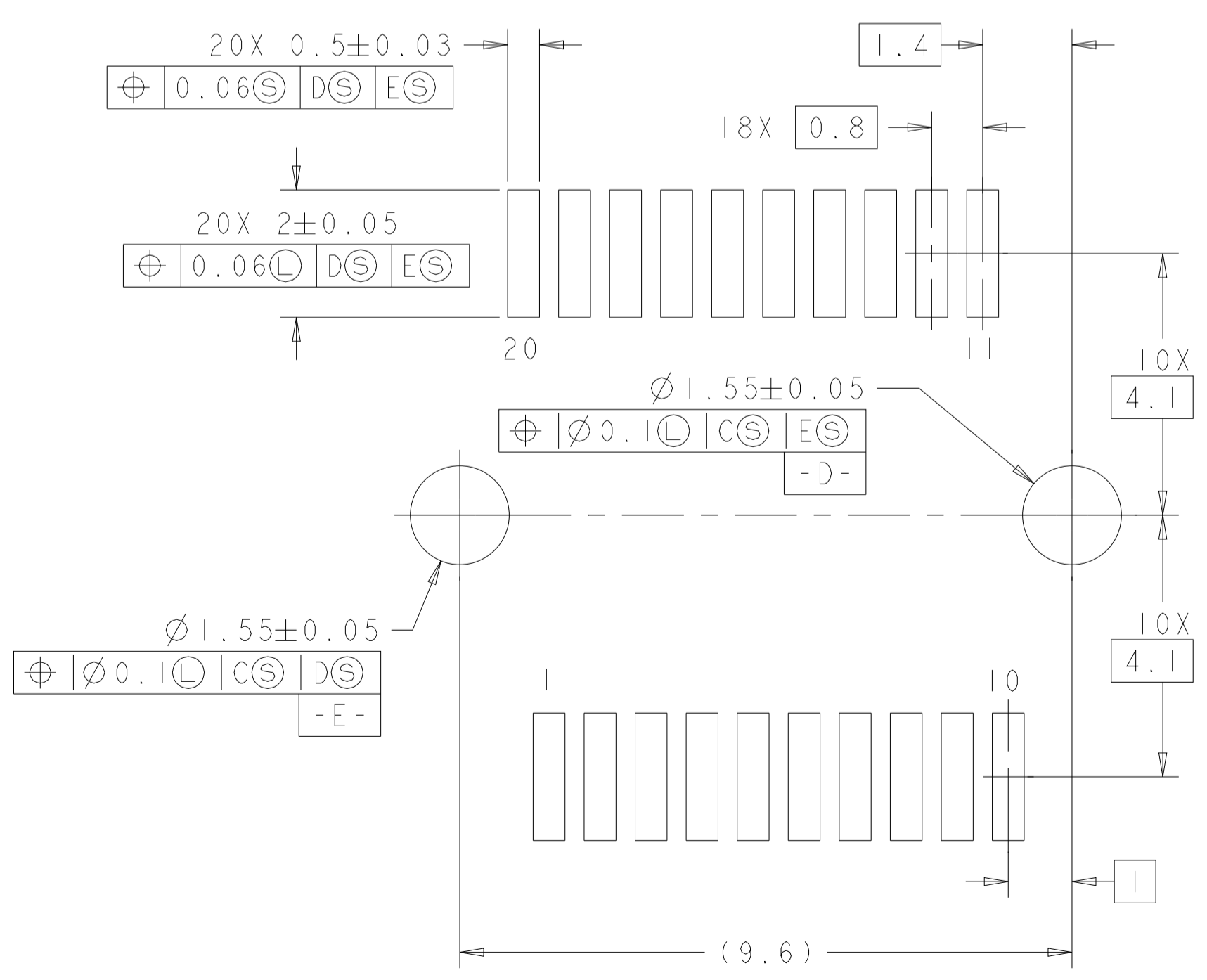
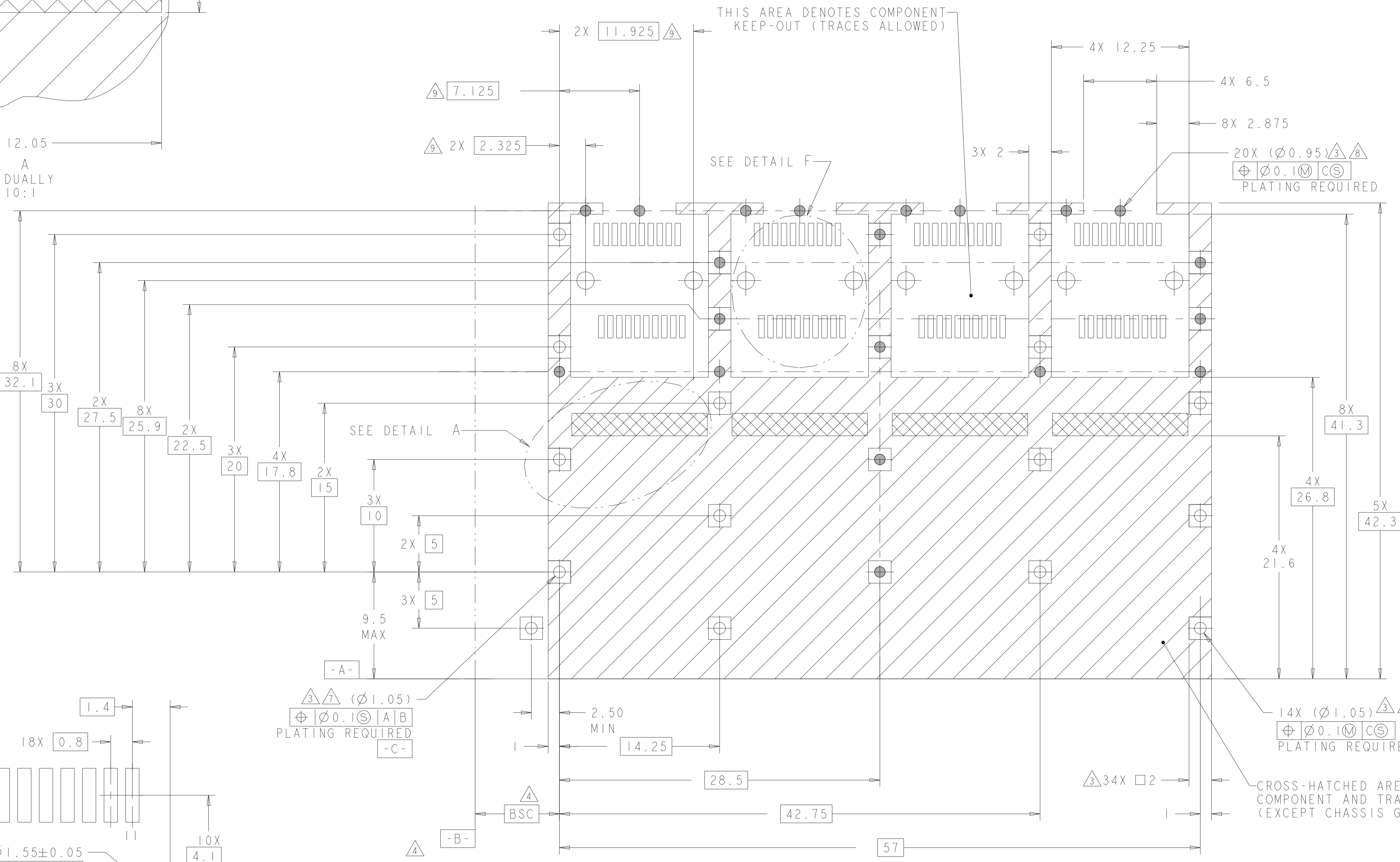
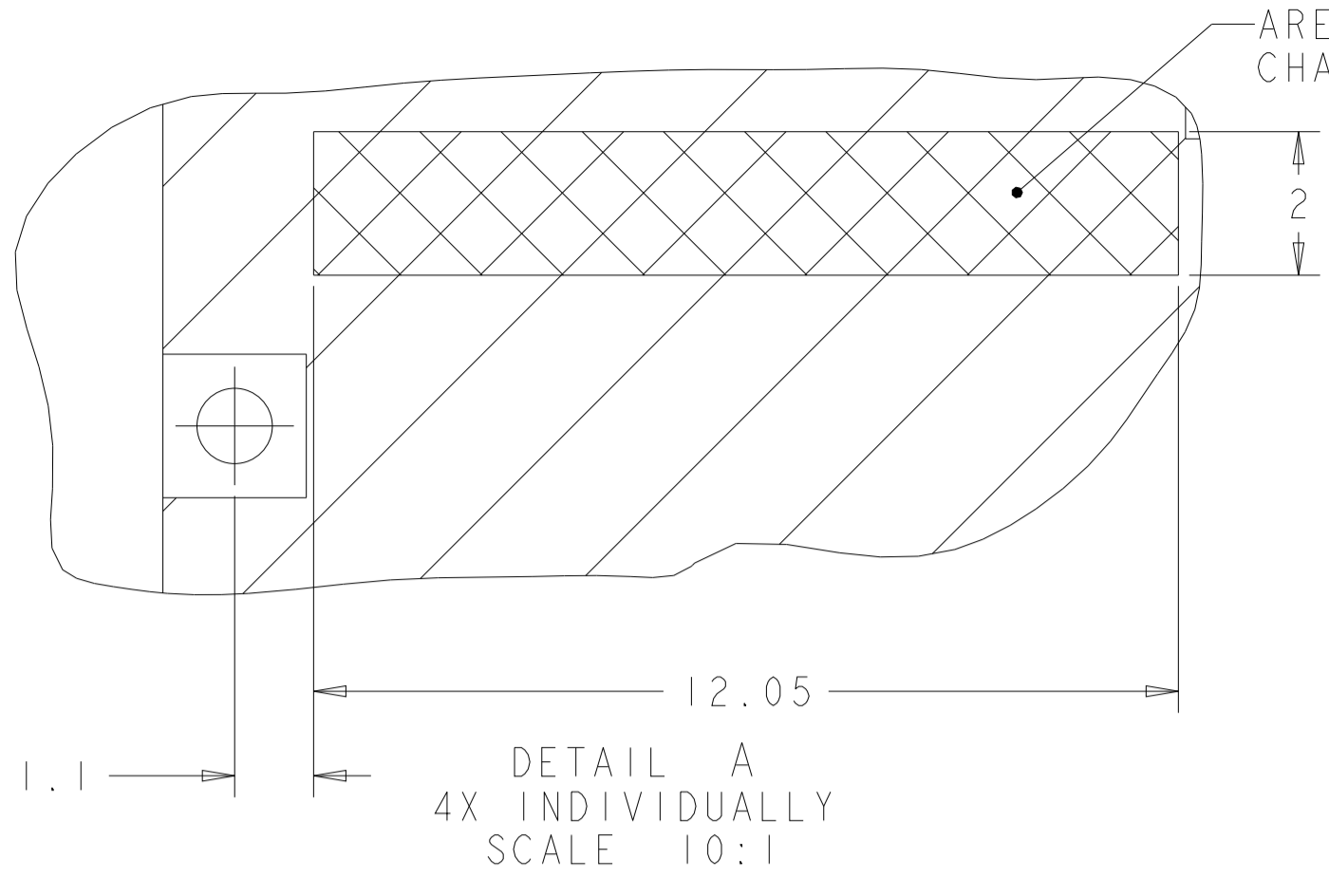
2149730  
 MOUNTED ON PC BOARD  
 SHOWN THRU RECOMMENDED BEZEL



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

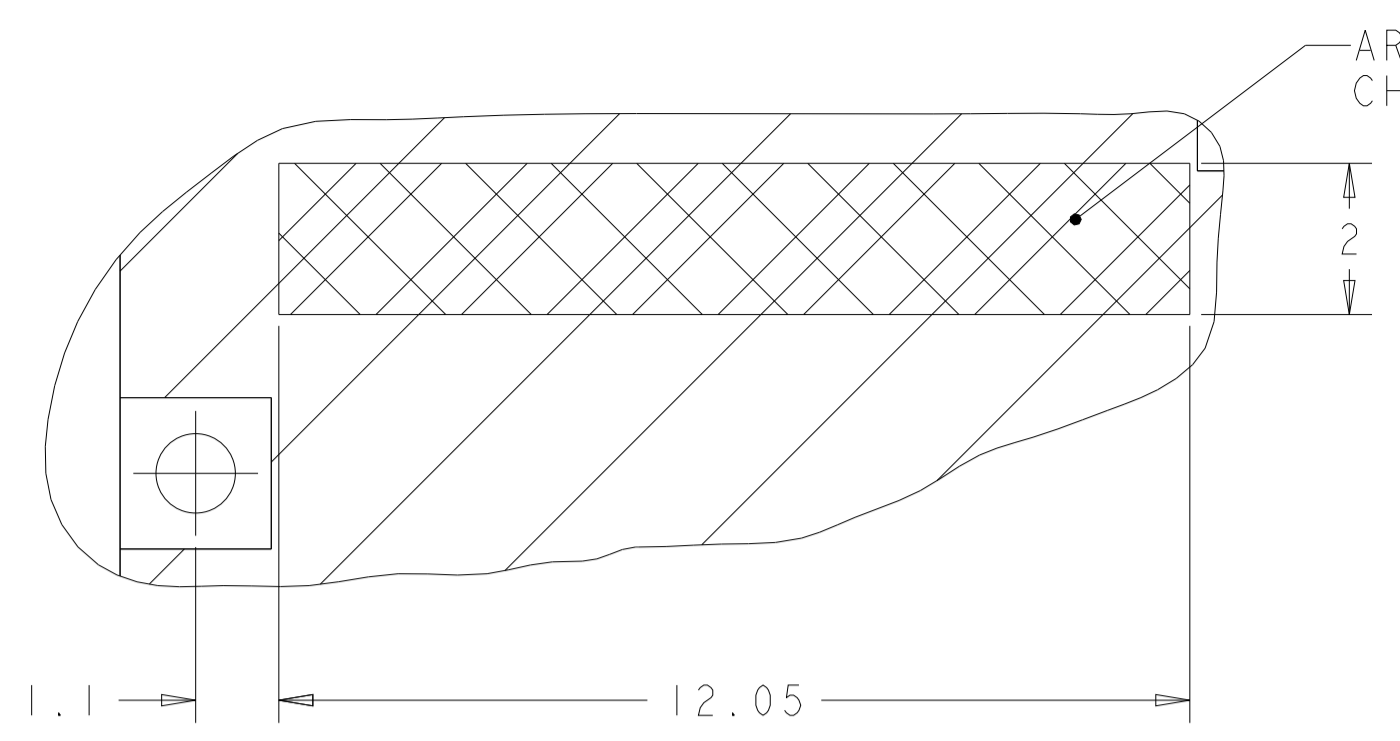
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APV B. WERTZ 23AUG2010	NAME
0 PLC	±0.1	PRODUCT SPEC	SFP+ ENHANCED 1X4 CAGE ASSEMBLY
1 PLC	±0.1	APPLICATION SPEC	PRESS FIT, EXTERNAL EMI SPRINGS
2 PLC	±0.1	108-2364	WITH HEATSINK
3 PLC	±0.1	114-13120	RESTRICTED TO
4 PLC	±0.1	WEIGHT	A1 00779 C=2149730
ANGLES	±1°	Customer Drawing	SCALE 2:1 SHEET 5 OF 9 REV A7
FINISH			

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

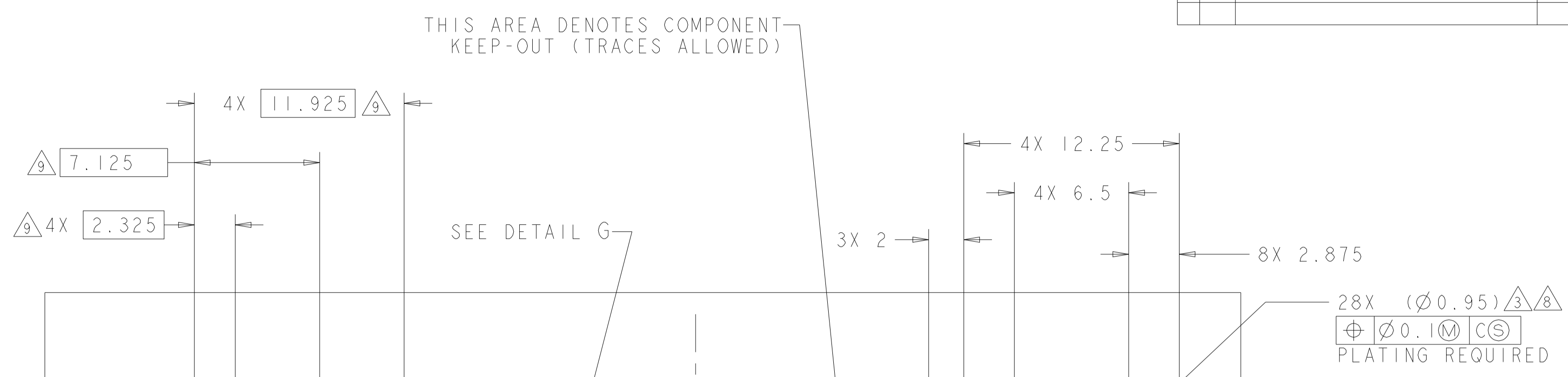


THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC ±0.1		PRODUCT SPEC: 108-2364	
1 PLC ±0.1		APPLICATION SPEC: 114-13120	SIZE: A1 CAGE CODE: 00779 DRAWING NO: 2149730
2 PLC ±0.1		RESTRICTED TO: -	
3 PLC ±0.1		SCALE: 2:1	SHEET 6 OF 9 REV A7
4 PLC ±0.1		Customer Drawing	
ANGLES: ±1°			
FINISH: Δ			

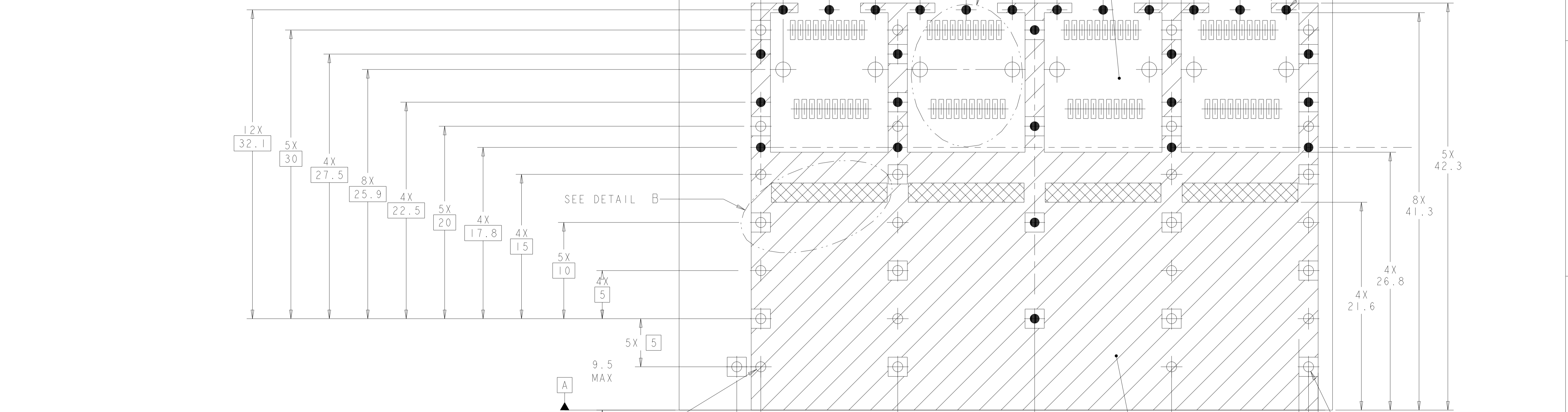
LOC	DIST	REV	DATE	BY	APPV
GP	00				



DETAIL B  
4X INDIVIDUALLY  
SCALE 10:1



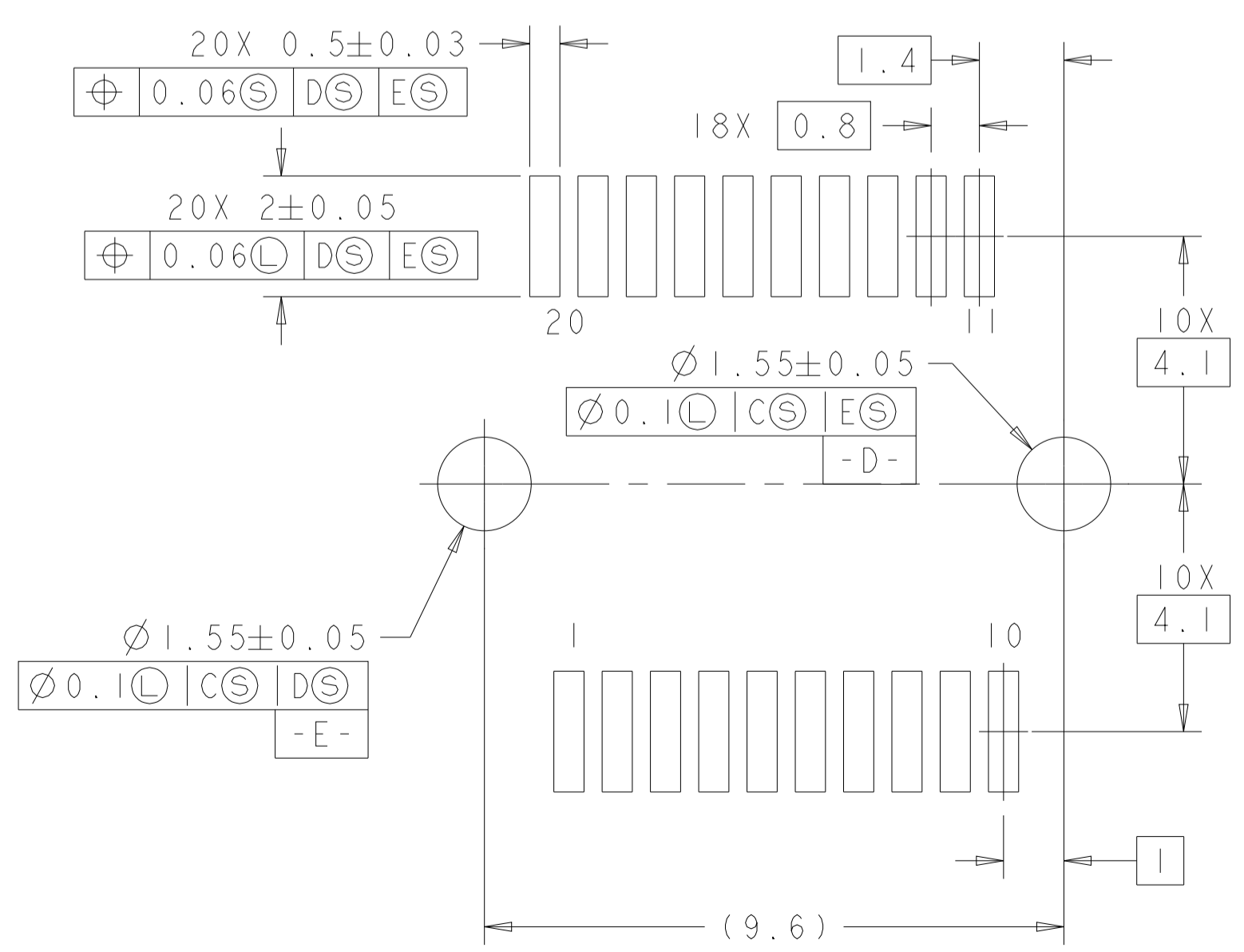
THIS AREA DENOTES COMPONENT  
KEEP-OUT (TRACES ALLOWED)



SEE DETAIL B

SEE DETAIL G

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



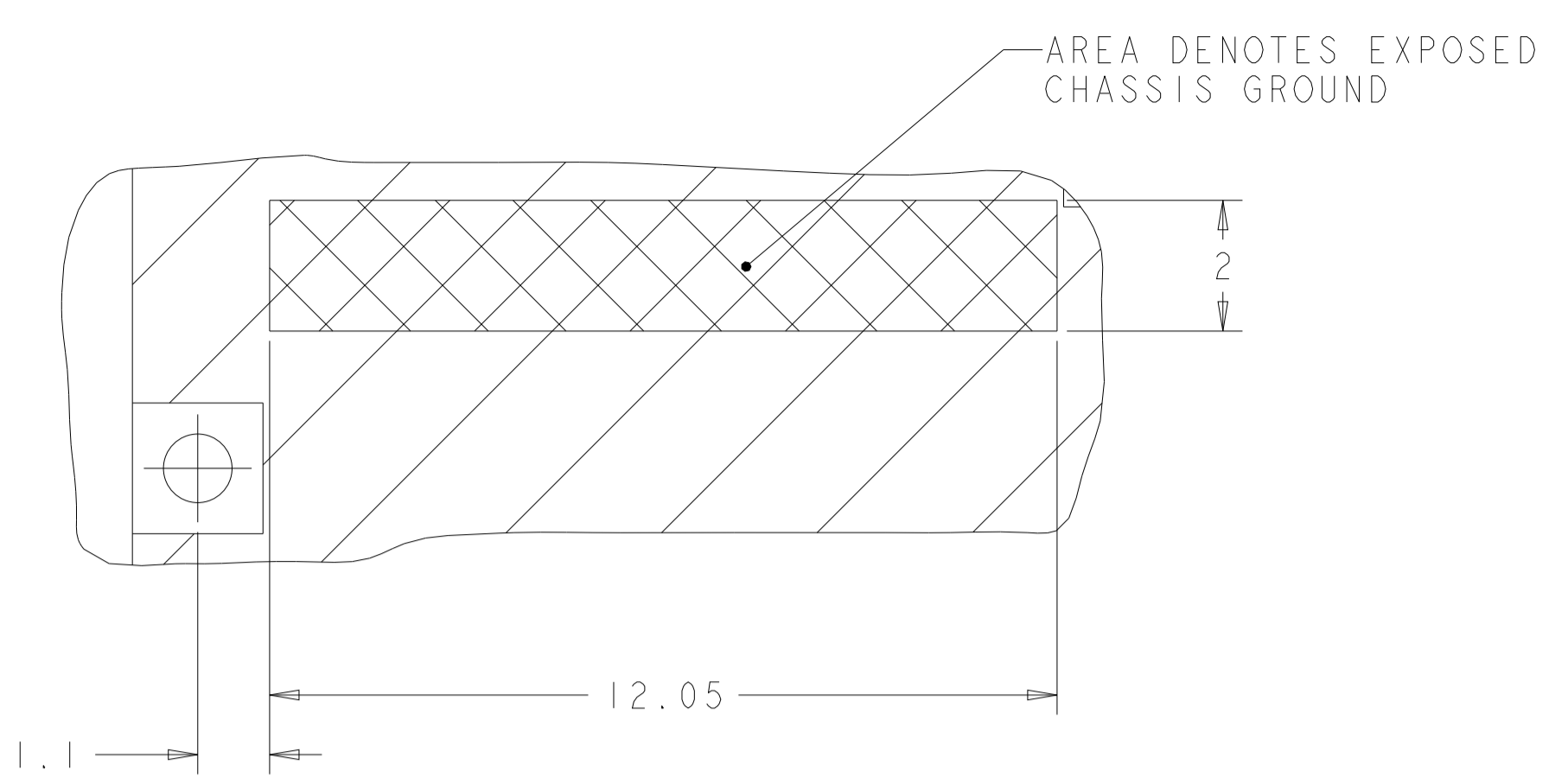
DETAIL G  
RECOMMENDED PT CONNECTOR LAYOUT  
8X INDIVIDUALLY  
SCALE 10:1

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

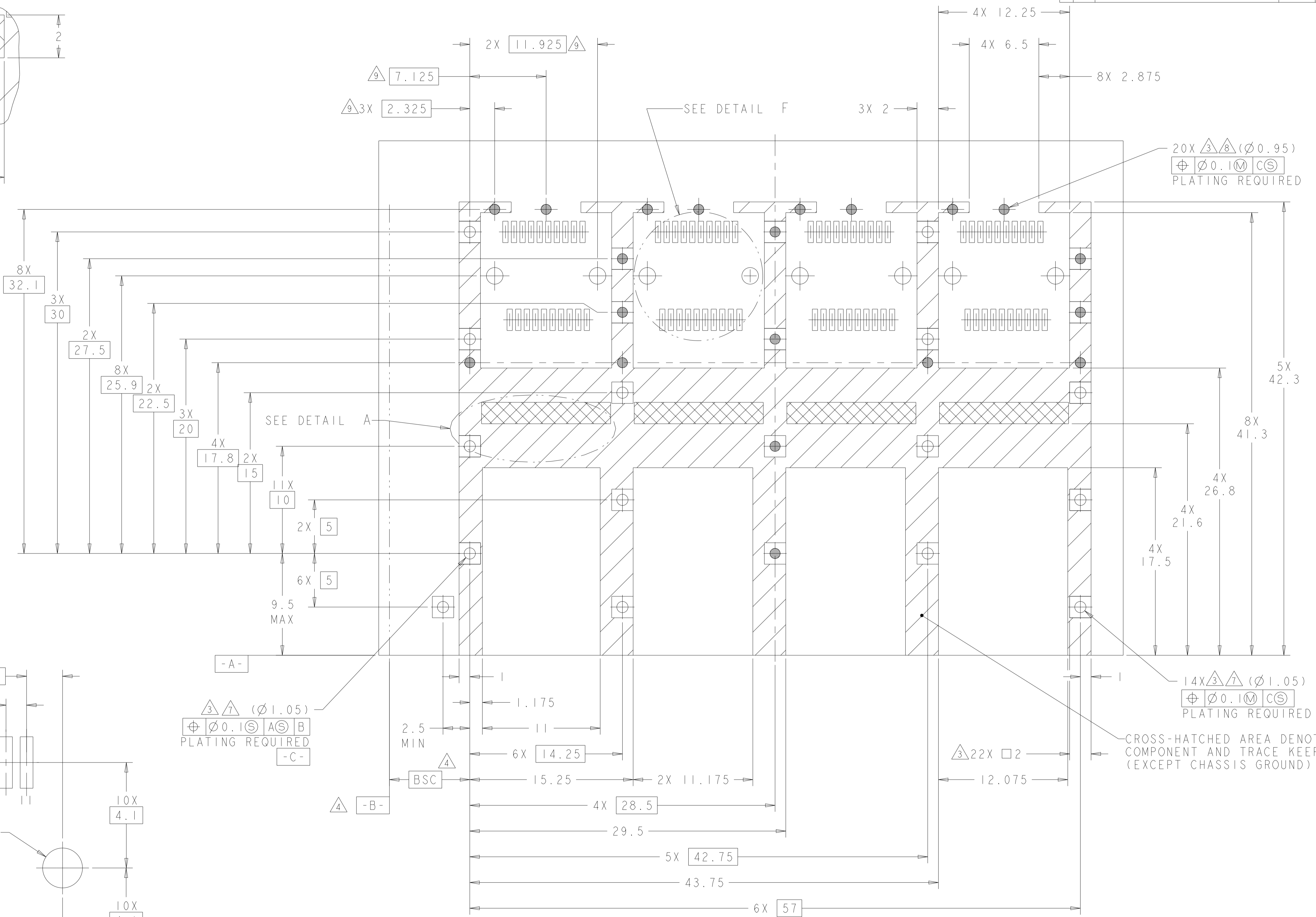
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: M. SCHMITT 23AUG2010	TE Connectivity
DIMENSIONS: mm		CHK: M. SCHMITT 23AUG2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APV: B. WERTZ 23AUG2010	NAME: SFP+ ENHANCED 1X4 CAGE ASSEMBLY PRESS FIT, EXTERNAL EMI SPRINGS WITH HEATSINK
0 PLC	±0.1	PRODUCT SPEC	108-2364
1 PLC	±0.1	APPLICATION SPEC	114-13120
2 PLC	±0.1	SIZE	CAGE CODE DRAWING NO
3 PLC	±0.1	RESTRICTED TO	A1 00779 C=2149730
4 PLC	±0.1	SCALE	2:1
ANGLES	±1°	SHEET	7 of 9
MATERIAL		WEIGHT	REV A7
FINISH		Customer Drawing	

LOC	DIST	REV	DATE	BY	APPV
GP	00				

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	SEE SHEET 1		



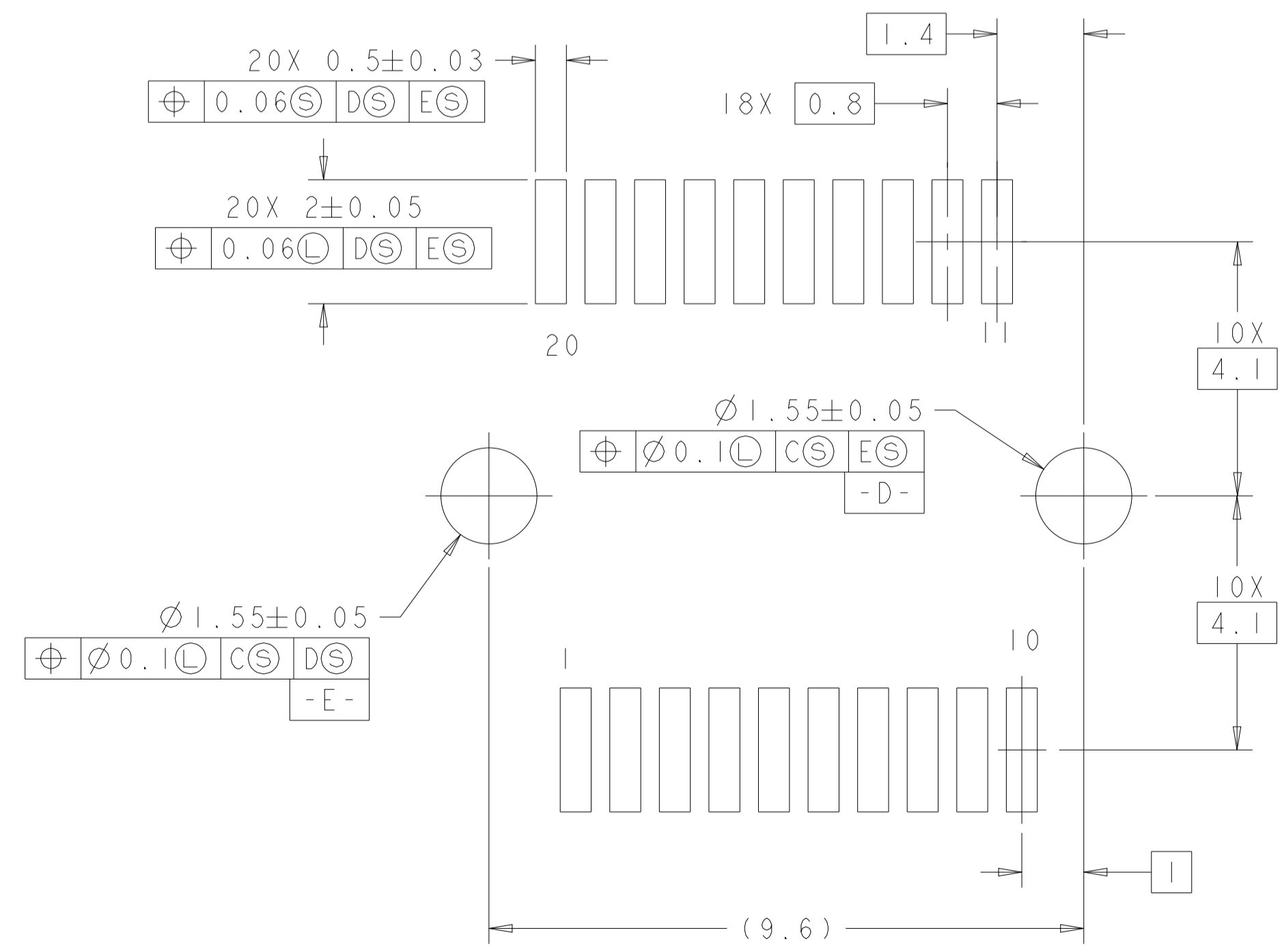
DETAIL A  
4X INDIVIDUALLY  
SCALE 10:1



3/8 (Ø1.05)  
Ø0.10 CS DS ES  
PLATING REQUIRED  
-C-

14X 3/8 (Ø1.05)  
Ø0.10 CS  
PLATING REQUIRED  
CROSS-HATCHED AREA DENOTES  
COMPONENT AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

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

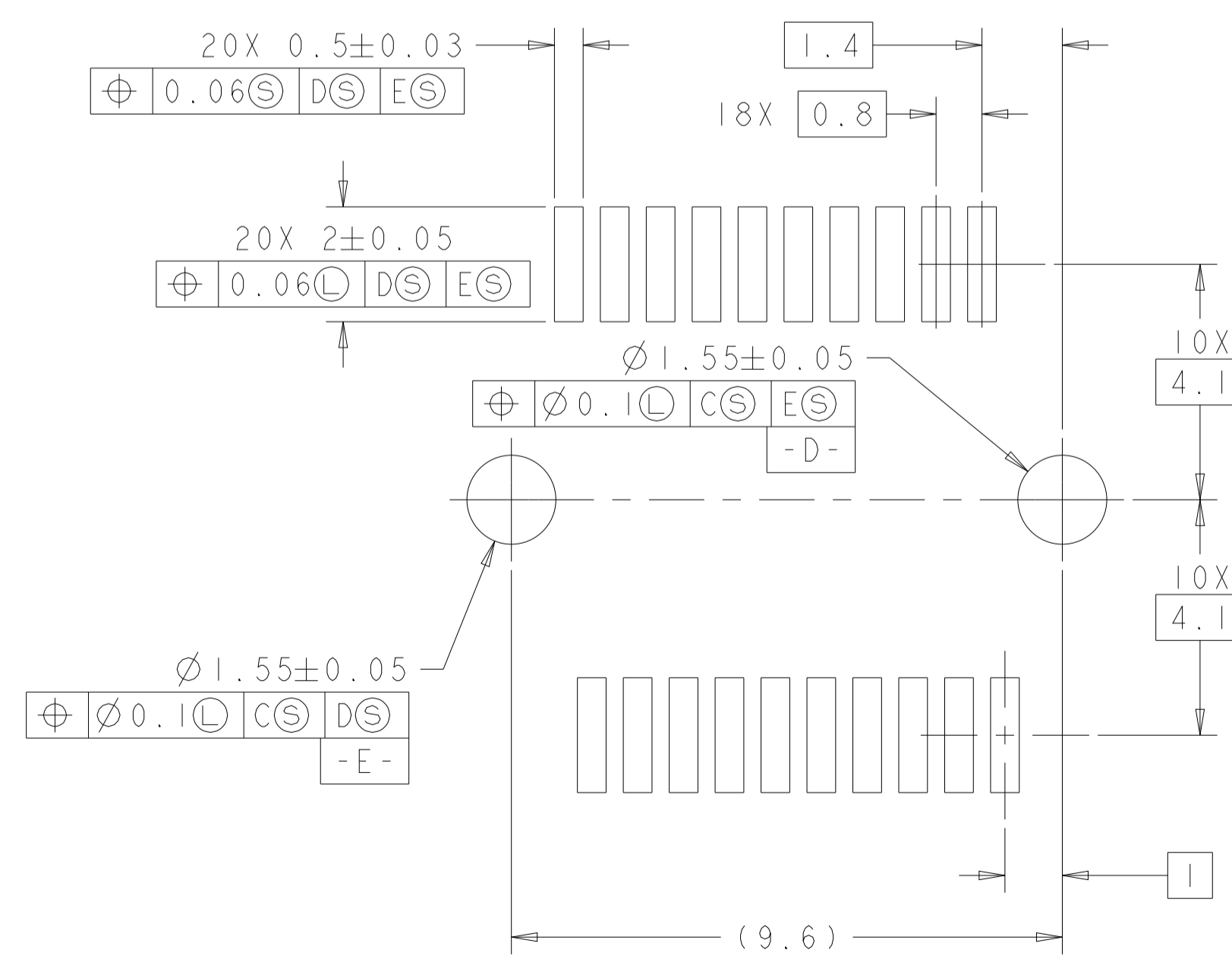
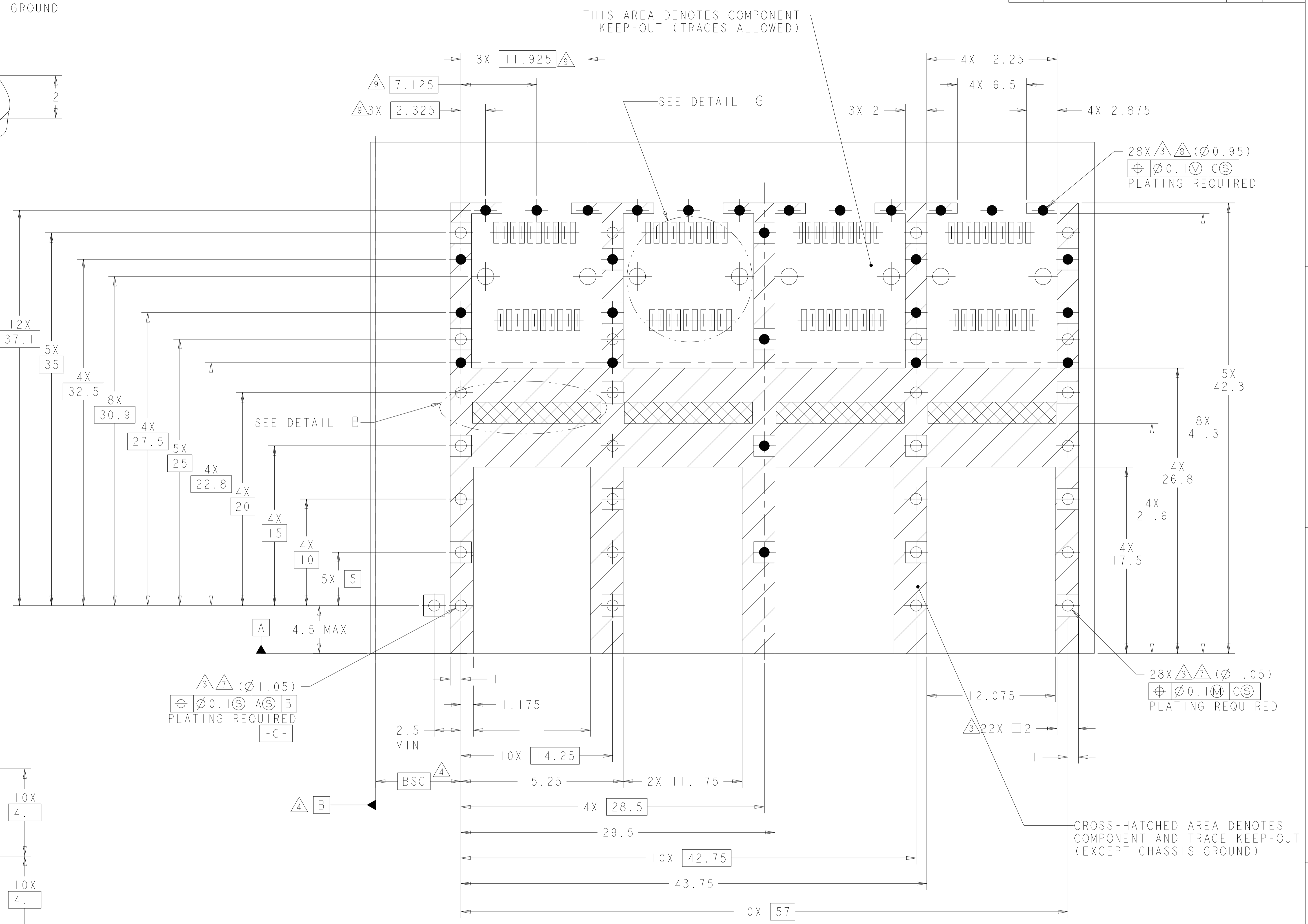
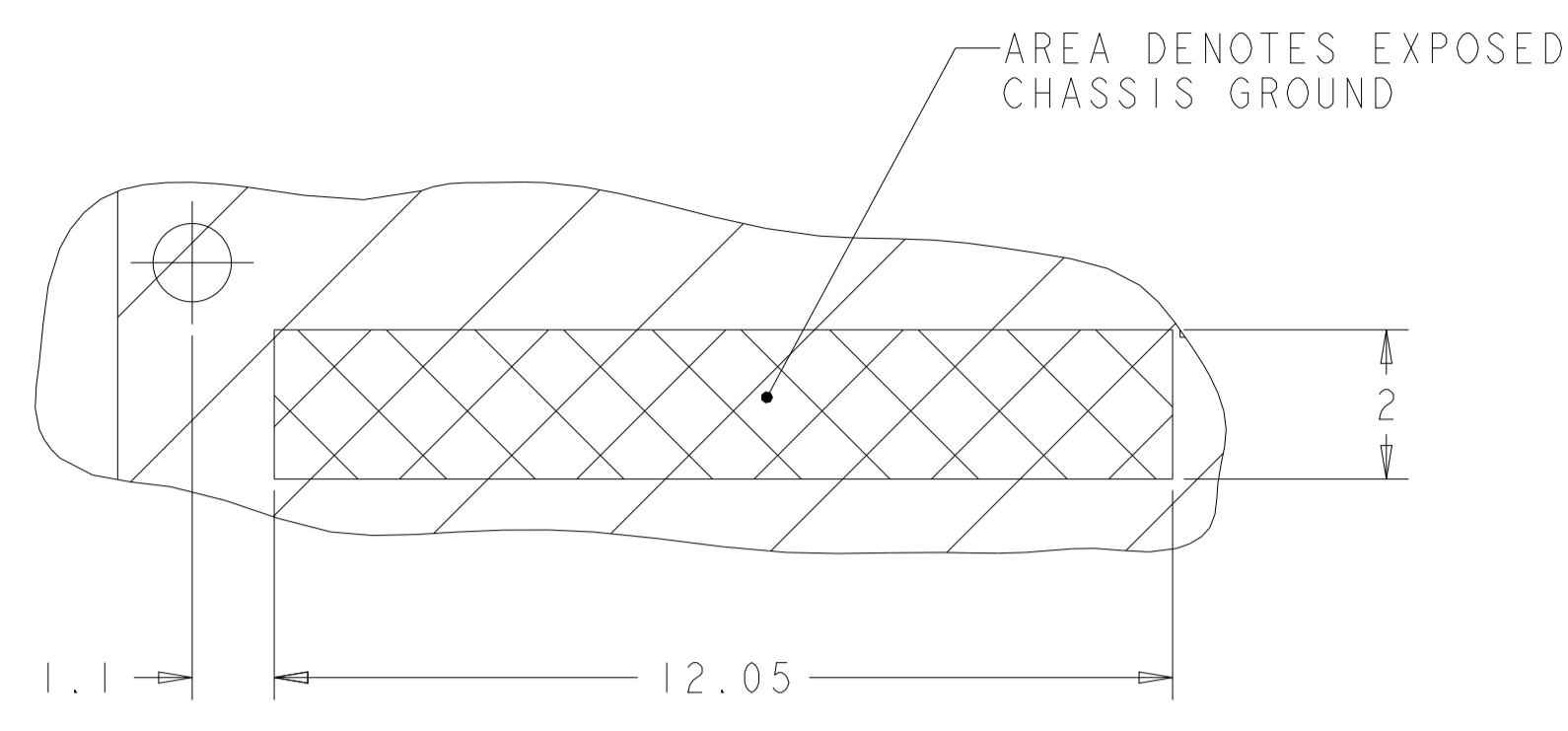


DETAIL F  
RECOMMENDED PT CONNECTOR LAYOUT  
SCALE 12:1

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
0 PLC	±0.1	PRODUCT SPEC	SFP+ ENHANCED 1X4 CAGE ASSEMBLY
1 PLC	±0.1	APPLICATION SPEC	PRESS FIT, EXTERNAL EMI SPRINGS
2 PLC	±0.1	SIZE	WITH HEATSINK
3 PLC	±0.1	114-13120	RESTRICTED TO
4 PLC	±0.1	WEIGHT	A100779C=2149730
ANGLES	±1°	Customer Drawing	SCALE 2:1 SHEET 8 OF 9 REV A7



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



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN M. SCHMITT 23AUG2010		TE Connectivity
DIMENSIONS: mm		CHK M. SCHMITT 23AUG2010		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD B. WERTZ 23AUG2010	NAME	
0 PLC	$\pm 0.1$	PRODUCT SPEC	SFP+ ENHANCED 1X4 CAGE ASSEMBLY	
1 PLC	$\pm 0.1$	APPLICATION SPEC	PRESS FIT, EXTERNAL EMI SPRINGS	
2 PLC	$\pm 0.1$	108-2364	WITH HEATSINK	
3 PLC	$\pm 0.1$	114-13120	SIZE	CAGE CODE   DRAWING NO
4 PLC	$\pm 0.1$	WEIGHT	A1	100779   C=2149730
ANGLES	$\pm 1^{\circ}$	Customer Drawing	SCALE	2:1
FINISH			SHEET	9 of 9
			REV	A7