

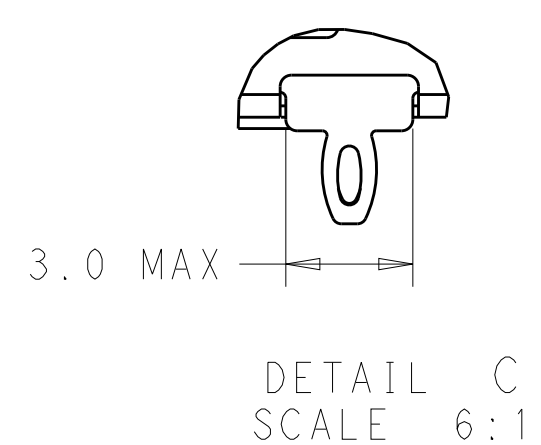
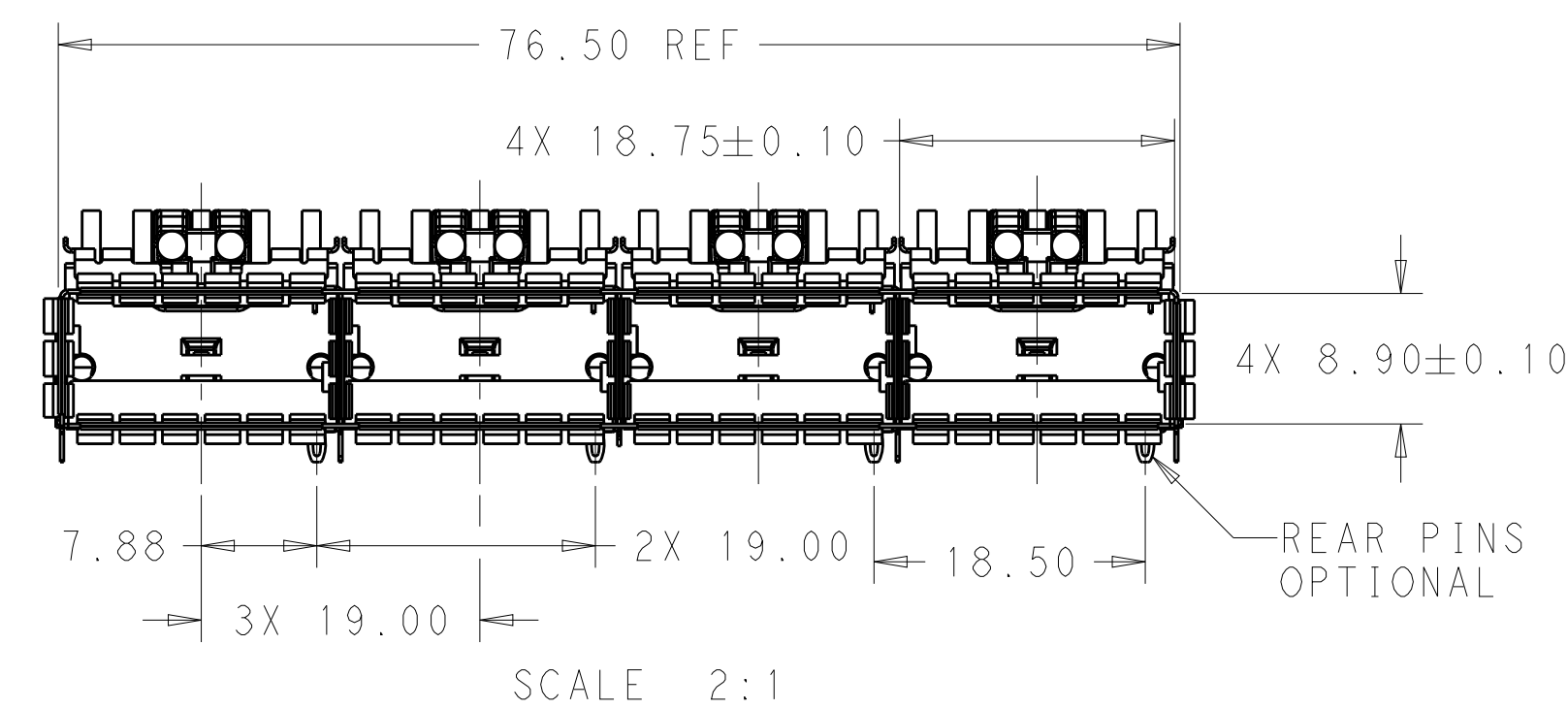
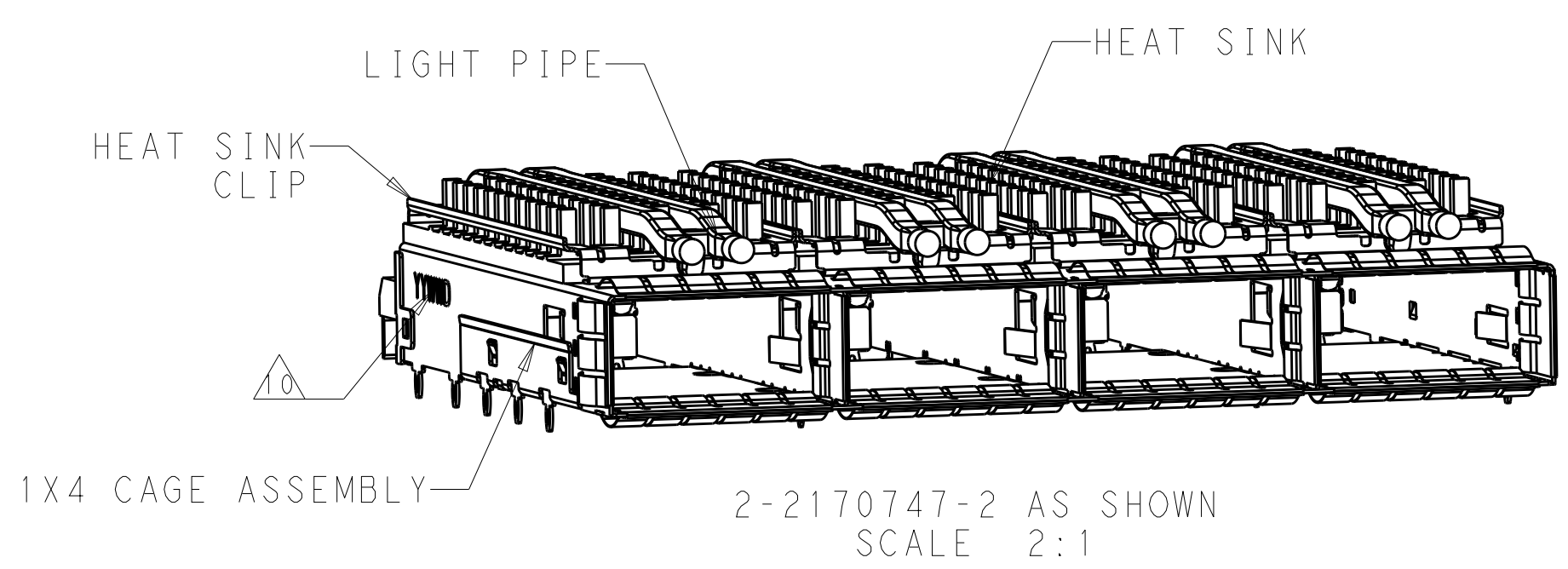
2-2170747-2 AS SHOWN

D

C

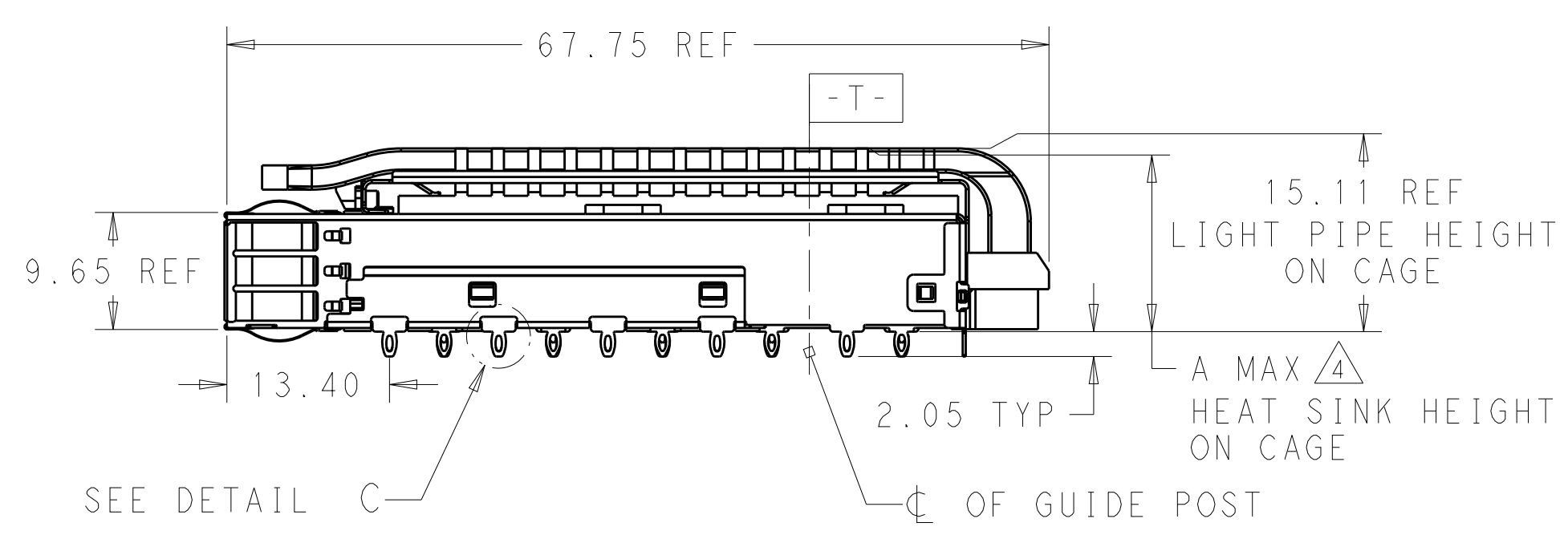
B

A



- COMPONENTS
CAGE ASSEMBLY: NICKEL-SILVER ALLOY
HEAT SINK: ALUMINUM/BLACK ANODIZE
HEAT SINK CLIP: STAINLESS STEEL
EMI SPRING: COPPER ALLOY/NICKEL PLATE
LIGHT PIPE: CLEAR POLYCARBONATE
ORGANIZER: POLYESTER WITH UL 94 V-0
- REFERENCE APPLICATION SPECIFICATION 114-23023
FOR RECOMMENDED DRILL HOLE DIAMETER AND
PLATING THICKNESS
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER
- DIMENSION OF HEAT SINK APPLIES WITH MODULE INSERTED IN CAGE.
- HEAT SINKS, HEAT SINK CLIPS AND LIGHT PIPES
ARE SHIPPED ASSEMBLED ON CAGE
- MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN
DOUBLE SIDED: 2.20 MIN
- DATUM **-A-** IS TOP SURFACE OF THE HOST BOARD.
- THESE HOLES ARE OPTIONAL WHEN THE REAR PINS ARE REMOVED.
- MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.
- DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN.
- NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLY WITH LIGHT PIPE.
- THE CUSTOMIZED HEAT SINK HAVE NO SURFACE FINISH ONLY FOR 2170747-7/-8/-9.
- CAGE ASSEMBLY WITH HS AND LIGHT PIPE ARE UNASSEMBLED,
AND PACKAGED INDIVIDUALLY IN TRAYS. ONLY APPLICABLE TO 2170747-7.

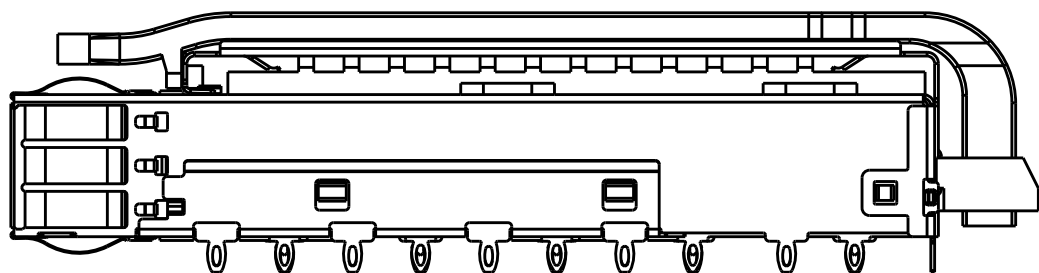
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P	LTR	DESCRIPTION	DATE	DWN	APVD
A		RELEASE	31OCT2016	JY	SH
B		REVISED PER ECO-17-009888	07JUL2017	JY	SH
C		REVISED PER ECO-18-012273	10JUL2018	JY	SH



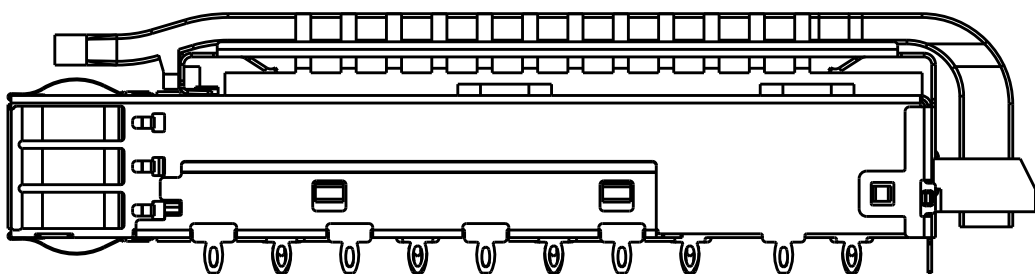
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		CHK 07JUN2014 SEAN HAN			
DIMENSIONS:		APVD -	NAME		
mm		PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
		108-19428	SIZE		
		APPLICATION SPEC	CAGE CODE		
MATERIAL		114-32023	DRAWING NO		
SEE NOTES		WEIGHT -	A200779		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		CUSTOMER DRAWING	C-2170747		
0 PLC ±-		SCALE 1:1	SHEET 1 OF 13		
1 PLC ±0.25		REV C			
2 PLC ±0.2					
3 PLC ±-					
4 PLC ±-					
ANGLES ±-					
FINISH					
SEE NOTES					

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

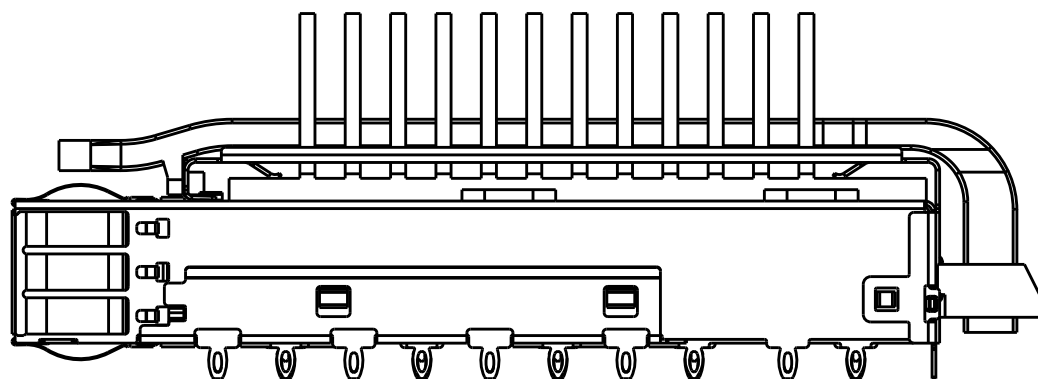
HEAT SINK OPTION



PCI HEAT SINK
SCALE 2:1

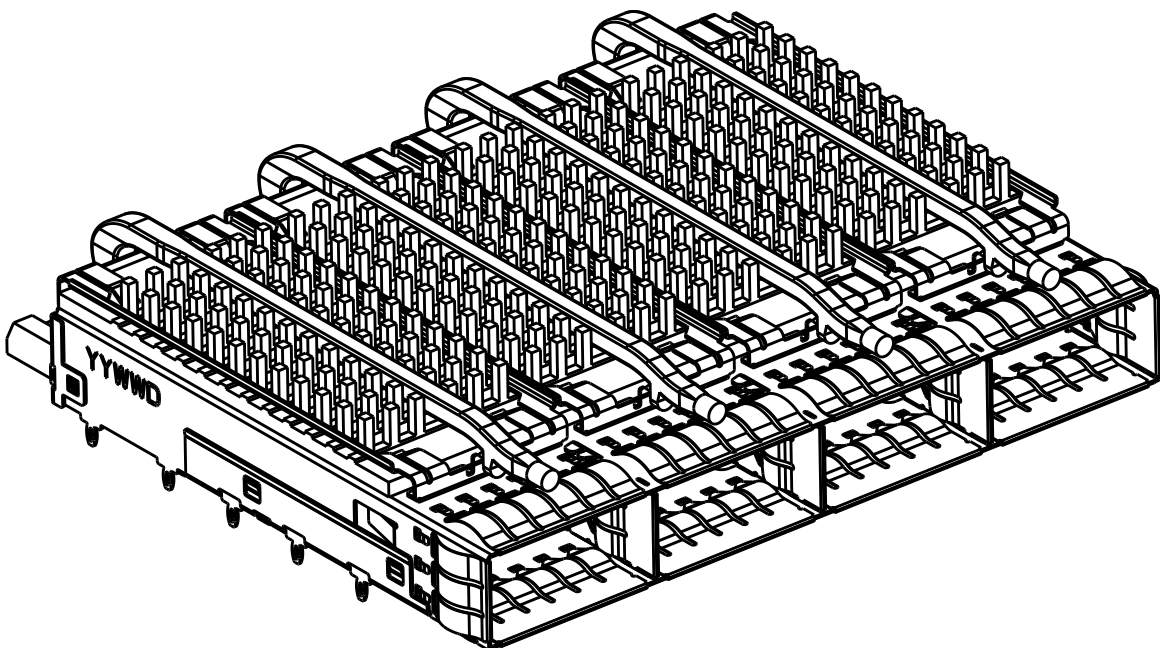


SAN HEAT SINK
SCALE 2:1

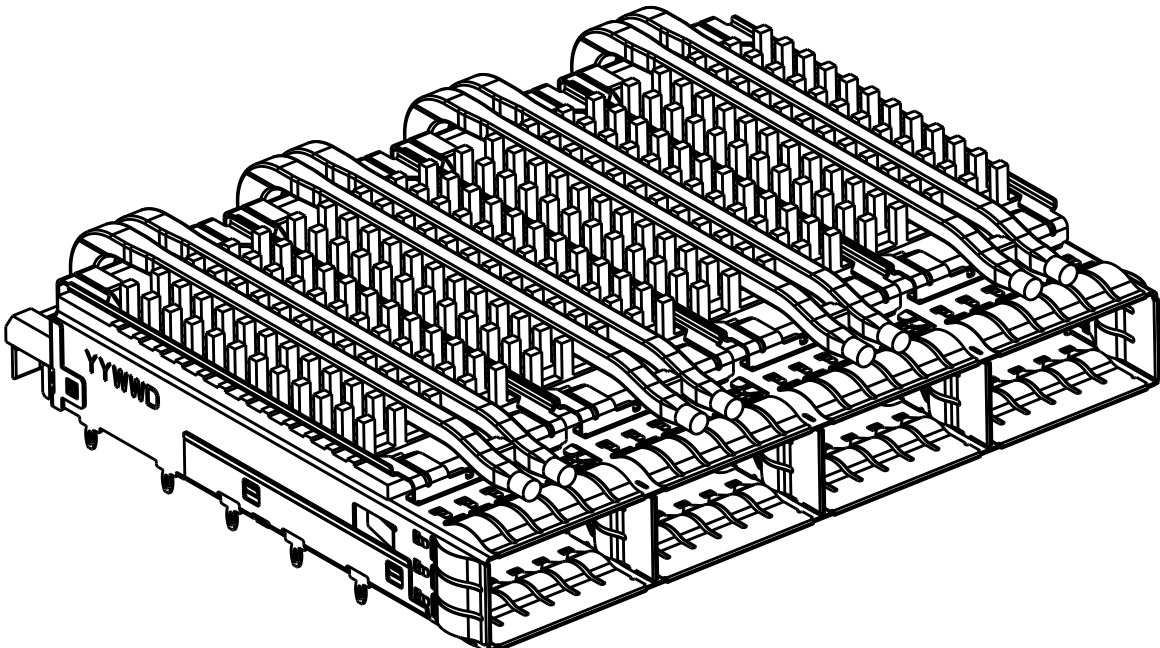


NETWORKING HEAT SINK
SCALE 2:1

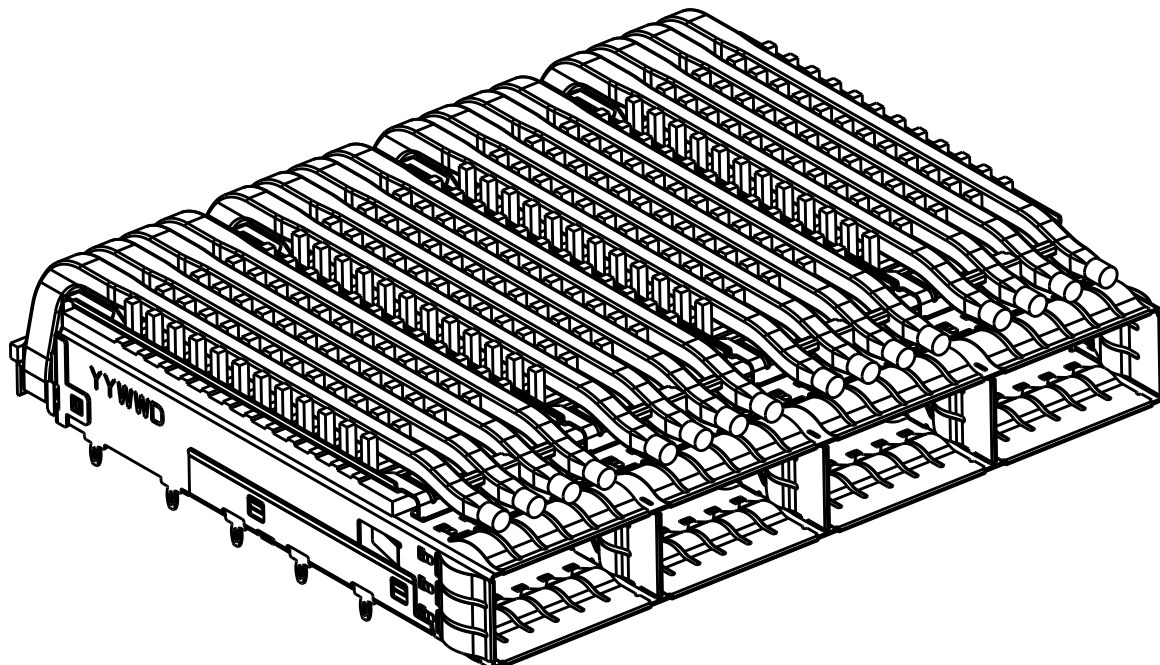
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 3:2

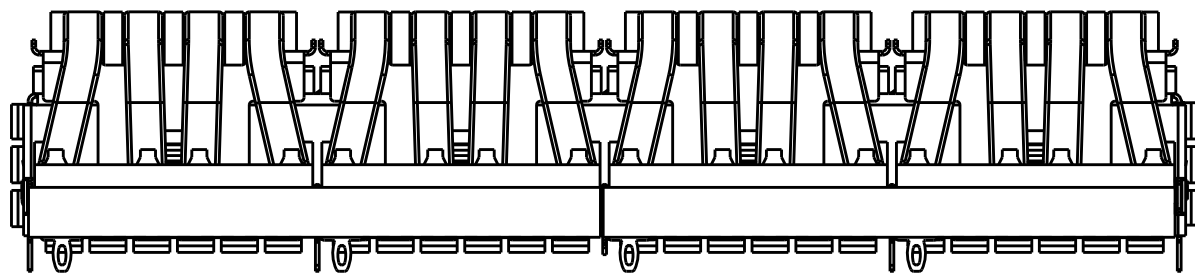


DUAL LIGHT PIPE
SCALE 3:2

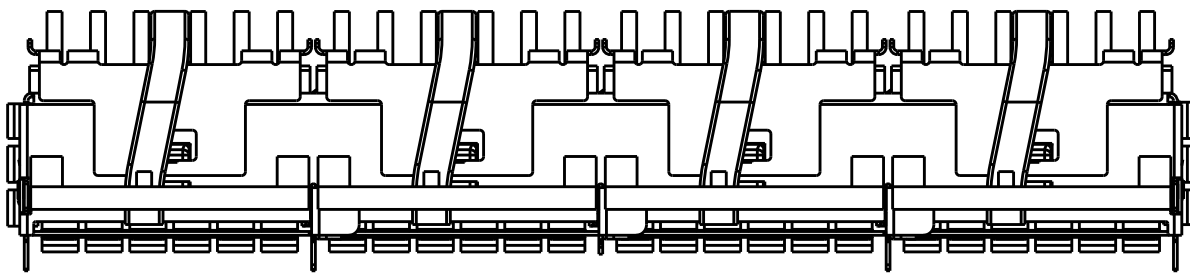


QUAD LIGHT PIPE
SCALE 3:2

OF REAR PIN OPTION



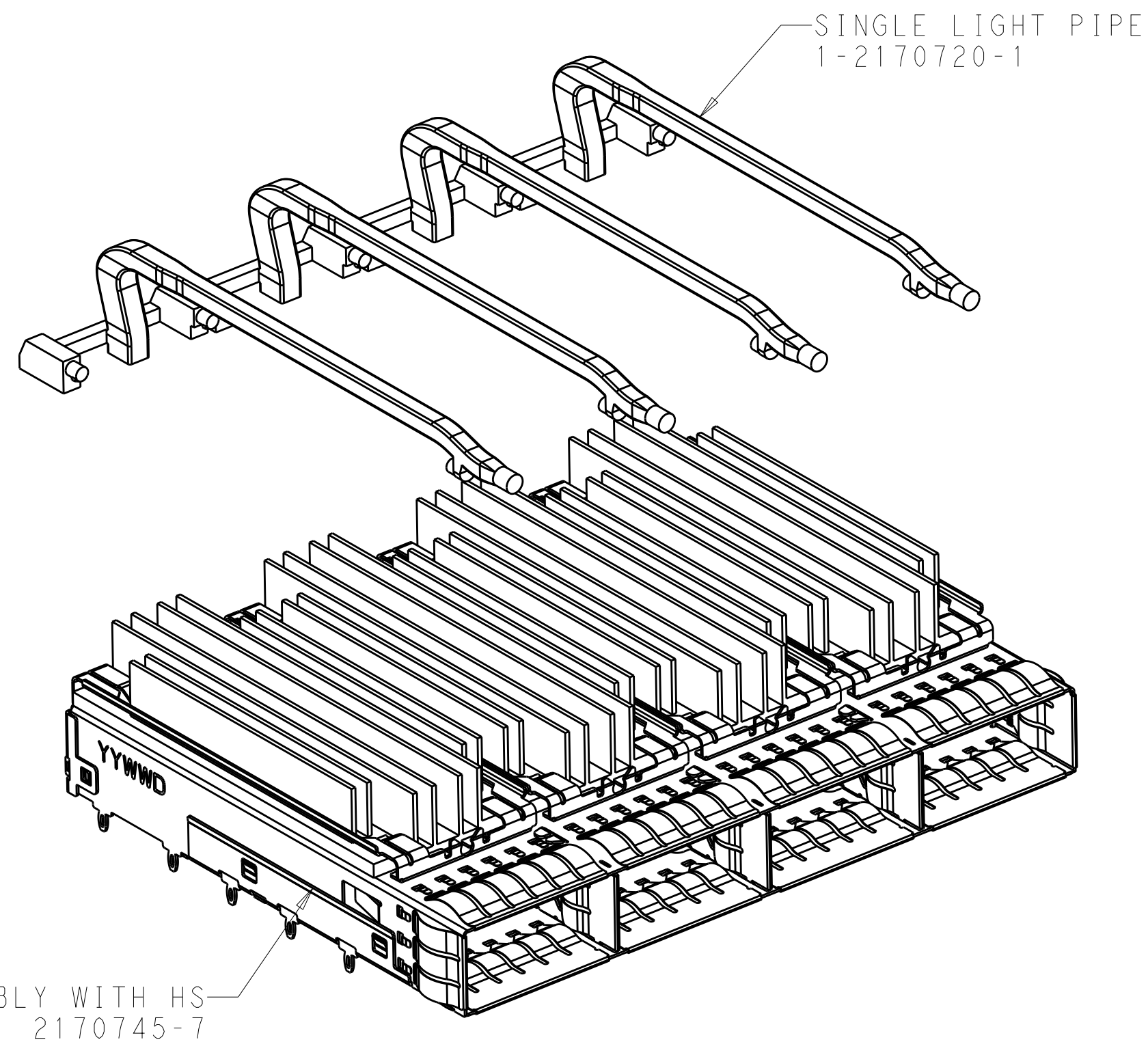
1 REAR PIN
SCALE 2:1



0 REAR PIN
SCALE 2:1

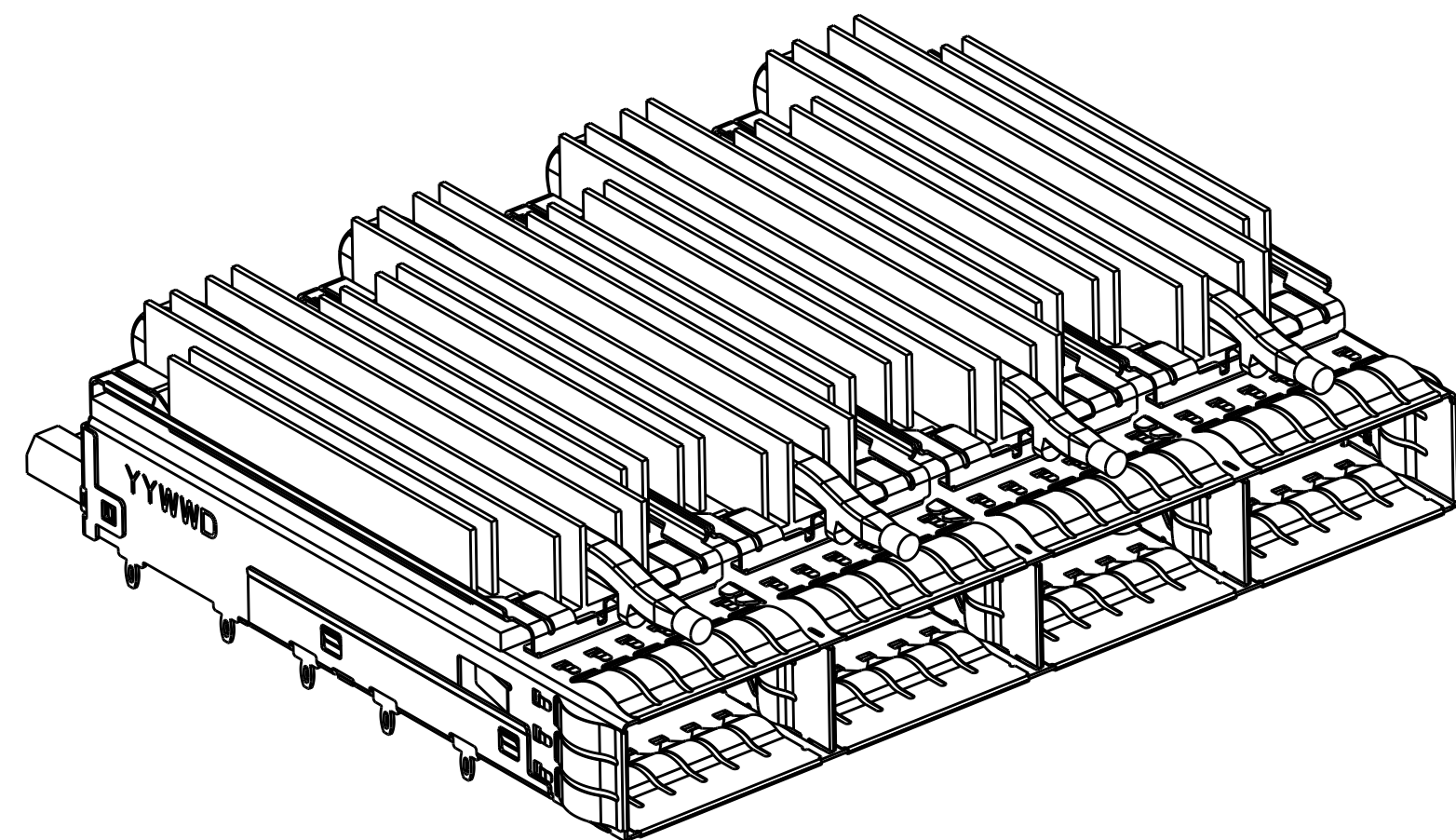
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		CHK 07JUN2014 SEAN HAN				
DIMENSIONS:		APVD -	PRODUCT SPEC		NAME	
mm			108-19428		RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING	
			APPLICATION SPEC		SIZE	CAGE CODE
			114-32023		A2	00779
MATERIAL			WEIGHT		DRAWING NO	RESTRICTED TO
SEE NOTES			CUSTOMER DRAWING		C-2170747	-
					SCALE 1:1	SHEET 2 OF 13
						REV C

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



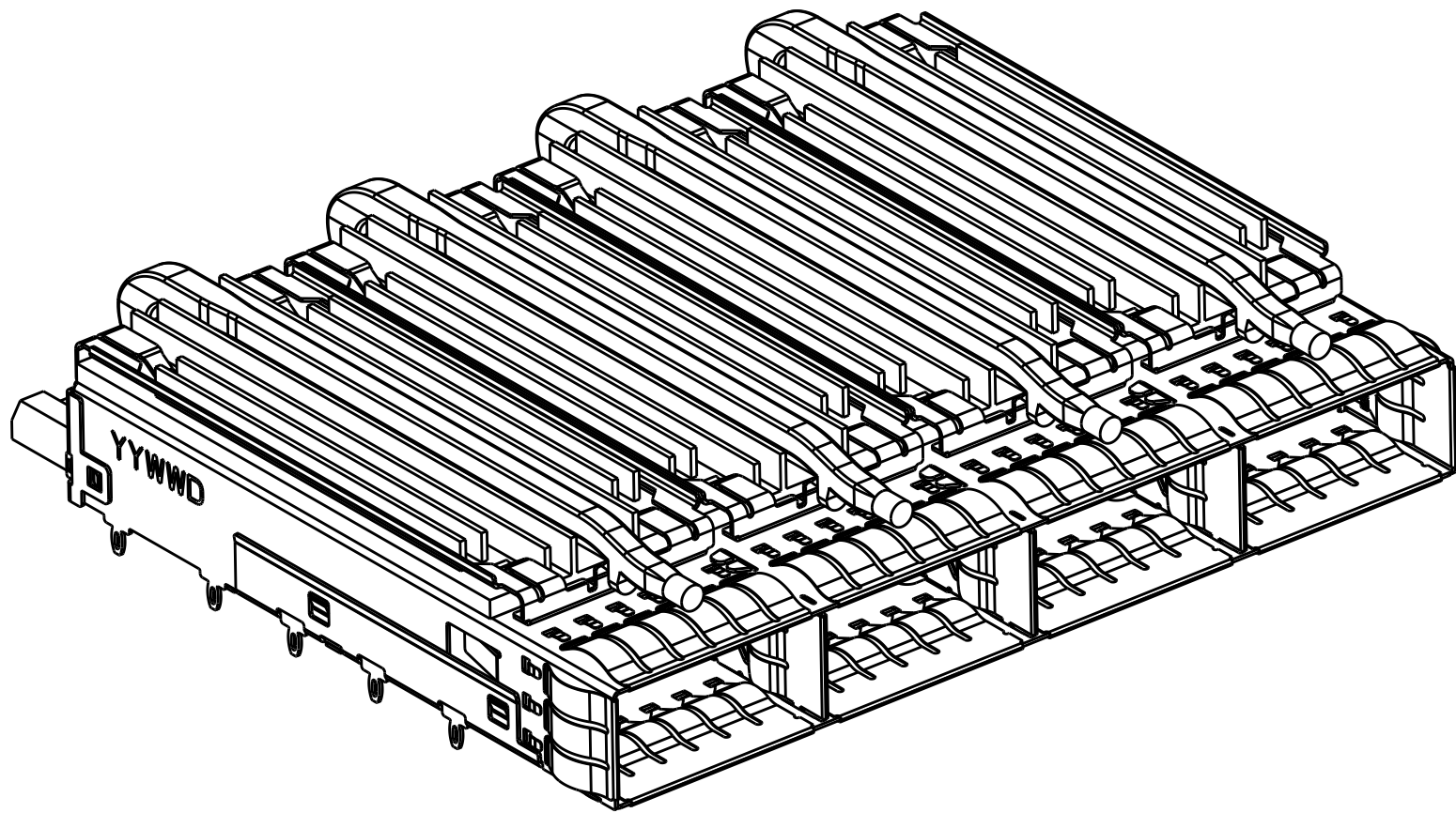
CAGE ASSEMBLY WITH HS
2170745-7

2170747-7 UNASSEMBLED
CAGE ASSY WITH HS AND LIGHT PIPE ARE UNASSEMBLED,
AND PACKAGED INDIVIDUALLY.
CUSTOMIZED HEAT SINK
SCALE 2:1

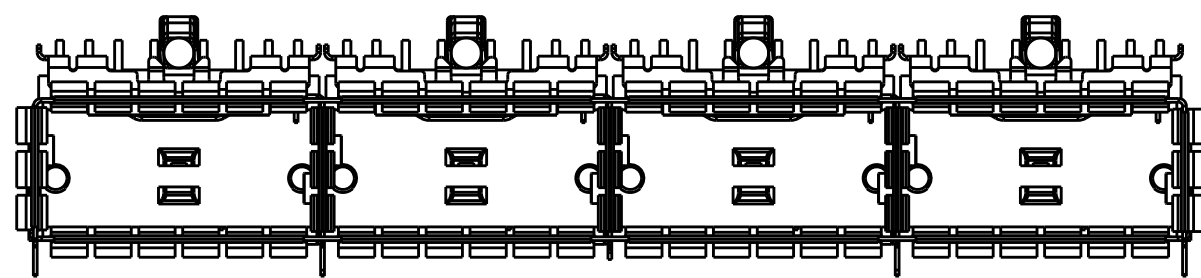


2170747-8 ASSEMBLED
ASSEMBLED AND PAKCAGED TOGETHER, CUSTOMIZED HEAT SINK
SCALE 2:1

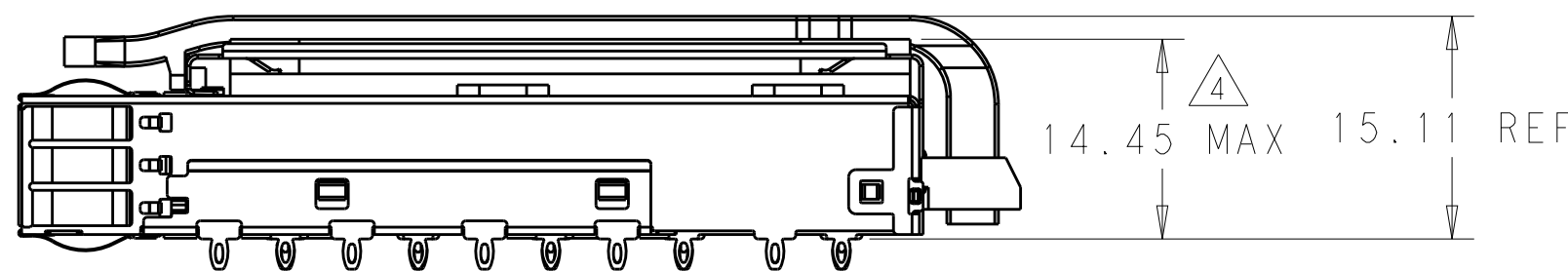
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity			
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DIMENSIONS:		APVD -	NAME			
mm		PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY			
		108-19428	WITH HEAT SINKS AND LIGHT PIPES,			
		APPLICATION SPEC	THRU BEZEL, 1X4, QSFP28, SPRING			
		114-32023	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
MATERIAL		WEIGHT -	A200779	C-2170747		-
SEE NOTES		CUSTOMER DRAWING		SCALE 1:1	SHEET 3 OF 13	REV C



2170747-9 AS SHOWN
WITH CUSTOMIZED HEAT SINK
SCALE 2:1

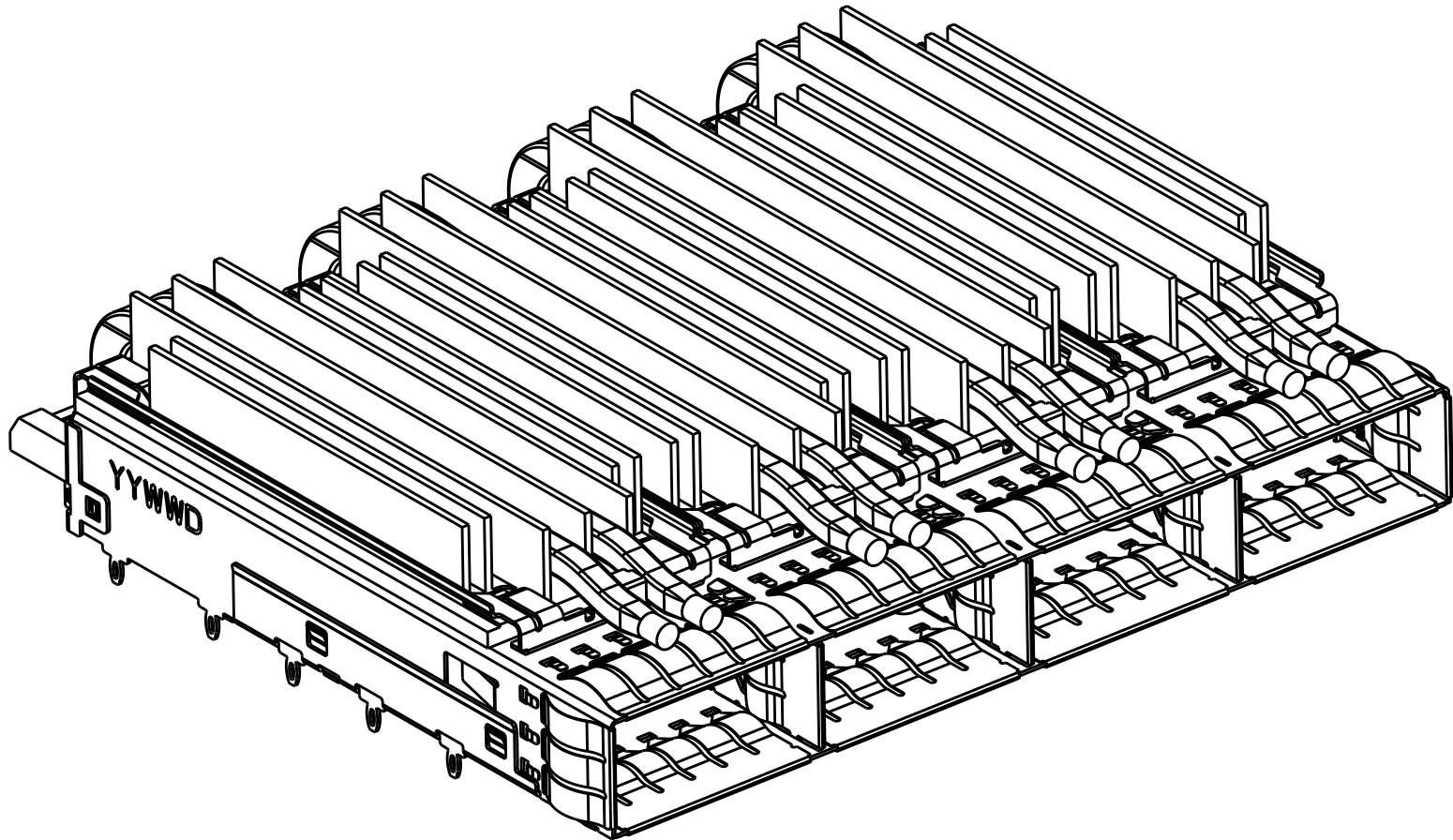


SCALE 2:1

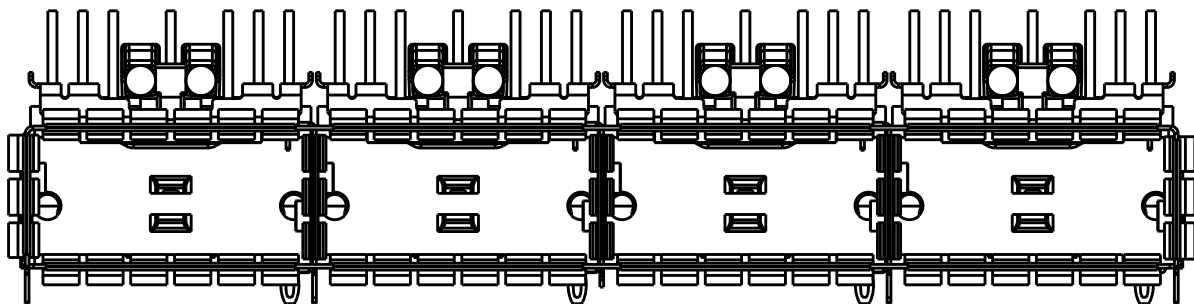


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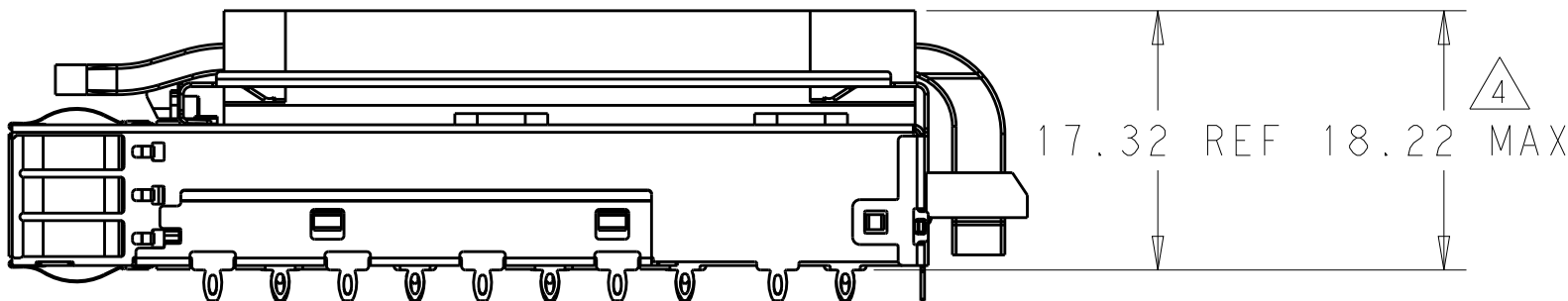
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



2-2170747-7 AS SHOWN
WITH CUSTOMIZED HEAT SINK
SCALE 2:1

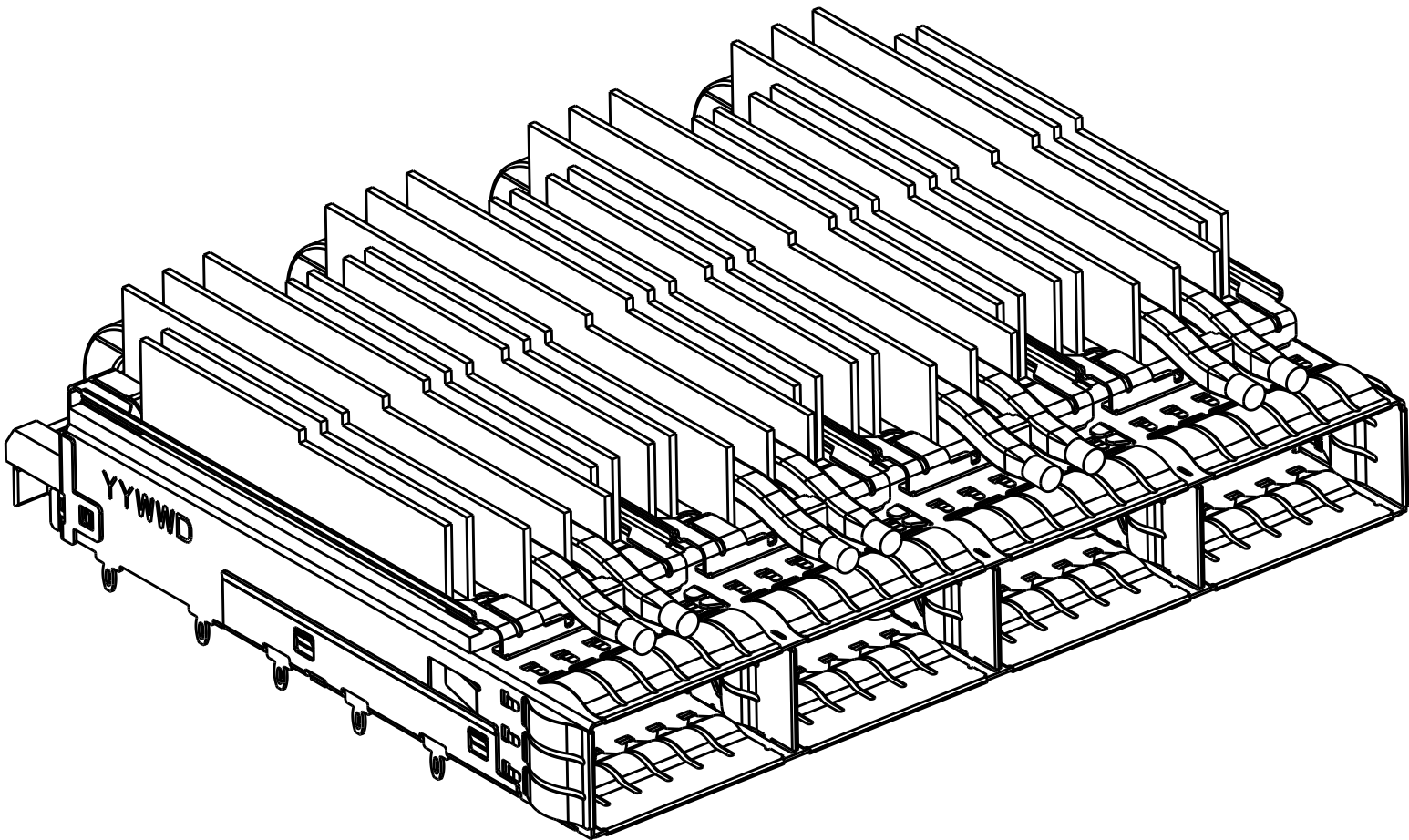


SCALE 2:1

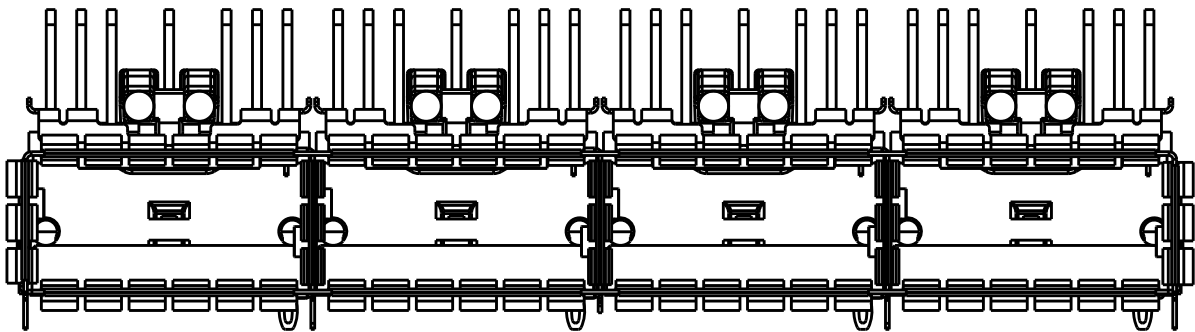


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	 TE Connectivity				
		CHK 07JUN2014 SEAN HAN					
DIMENSIONS: mm		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING				
		PRODUCT SPEC 108-19428					
		APPLICATION SPEC 114-32023	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO	
		MATERIAL SEE NOTES	WEIGHT -	A2	00779	C-2170747	-
		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH		CUSTOMER DRAWING			
SCALE 1:1		SHEET 5 OF 13		REV C			

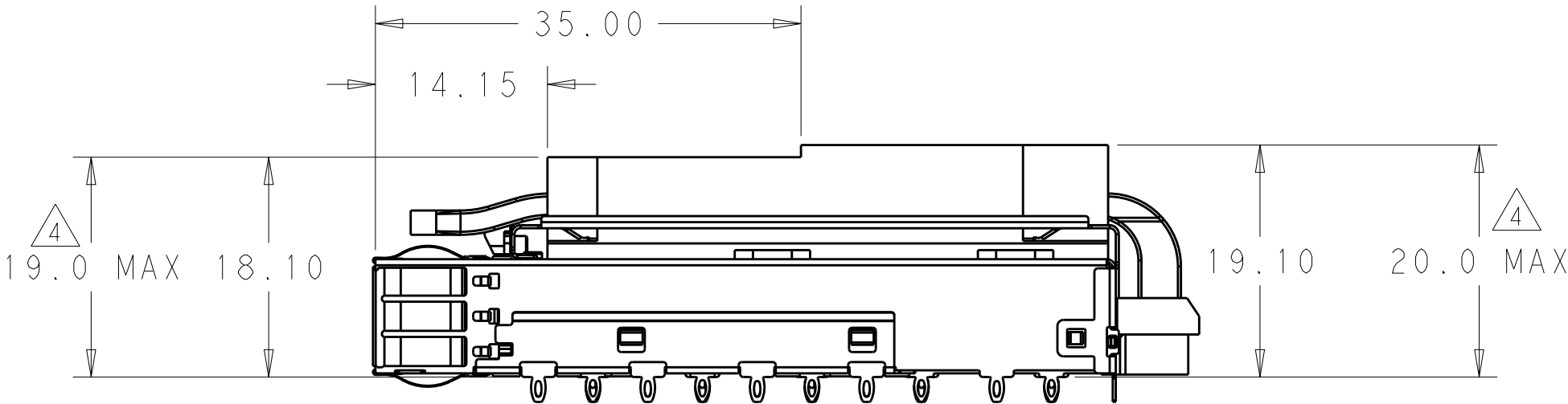
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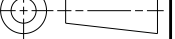


2-2170747-8 AS SHOWN
WITH CUSTOMIZED HEAT SINK
SCALE 2:1



SCALE 2:1



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		CHK 07JUN2014 SEAN HAN																			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING																	
mm																					
		0 PLC ±-		PRODUCT SPEC 108-19428																	
		1 PLC ±0.25																			
		2 PLC ±0.2																			
		3 PLC ±-																			
		4 PLC ±-		APPLICATION SPEC 114-32023																	
		ANGLES ±-																			
MATERIAL		FINISH		SIZE		CAGE CODE		DRAWING NO		RESTRICTED TO											
SEE NOTES		SEE NOTES		WEIGHT		A200779		C=2170747		-											
				CUSTOMER DRAWING						SCALE		1:1		SHEET		6 OF 13		REV		C	

4

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1

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

1	16.0	SAN	COATED QUAD LP	5-2170747-2
0	23.0	NETWORKING	QUAD LP	4-2170747-6
0	16.0	SAN	QUAD LP	4-2170747-5
0	13.7	PCI	QUAD LP	4-2170747-4
1	23.0	NETWORKING	QUAD LP	4-2170747-3
1	16.0	SAN	QUAD LP	4-2170747-2
1	13.7	PCI	QUAD LP	4-2170747-1
1	20.3	CUSTOMIZED	DUAL LP	2-2170747-8
1	18.22	CUSTOMIZED	DUAL LP	2-2170747-7
0	23.0	NETWORKING	DUAL LP	2-2170747-6
0	16.0	SAN	DUAL LP	2-2170747-5
0	13.7	PCI	DUAL LP	2-2170747-4
1	23.0	NETWORKING	DUAL LP	2-2170747-3
1	16.0	SAN	DUAL LP	2-2170747-2
1	13.7	PCI	DUAL LP	2-2170747-1
0	14.45	CUSTOMIZED	SINGLE LP	2170747-9
0	18.05	CUSTOMIZED	SINGLE LP	2170747-8
0	18.05	CUSTOMIZED	SINGLE LP	2170747-7 ¹³
0	23.0	NETWORKING	SINGLE LP	2170747-6
0	16.0	SAN	SINGLE LP	2170747-5
0	13.7	PCI	SINGLE LP	2170747-4
1	23.0	NETWORKING	SINGLE LP	2170747-3
1	16.0	SAN	SINGLE LP	2170747-2
1	13.7	PCI	SINGLE LP	2170747-1
# OF REAR PIN	DIM A	APPLICATION	LIGHT PIPE OPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±-

1 PLC ±0.25

2 PLC ±0.2

3 PLC ±-

4 PLC ±-

ANGLES ±-

FINISH

MATERIAL

SEE NOTES

-

DWN 04JUN2014

CHK JASON YANG

SEAN HAN

APVD -

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

TE Connectivity

NAME

RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A200779

C-2170747

-

SCALE

1:1

SHEET

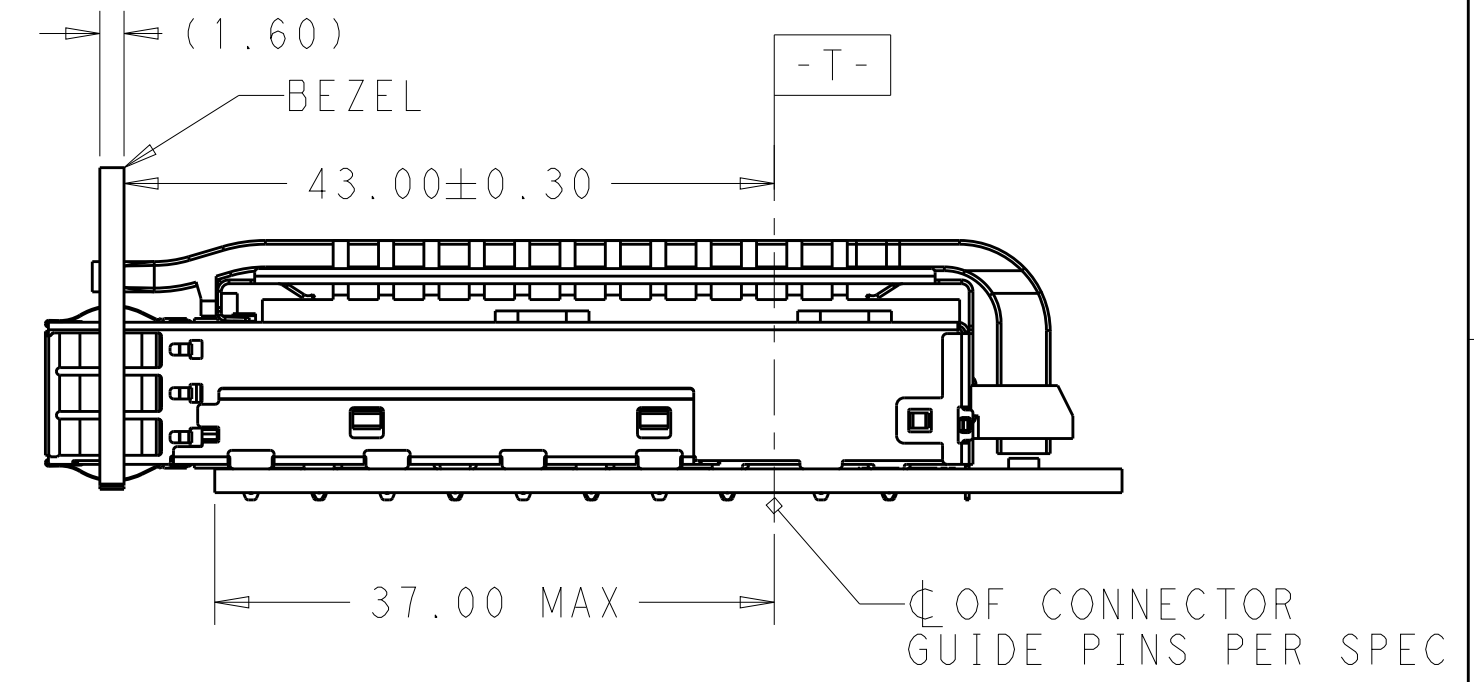
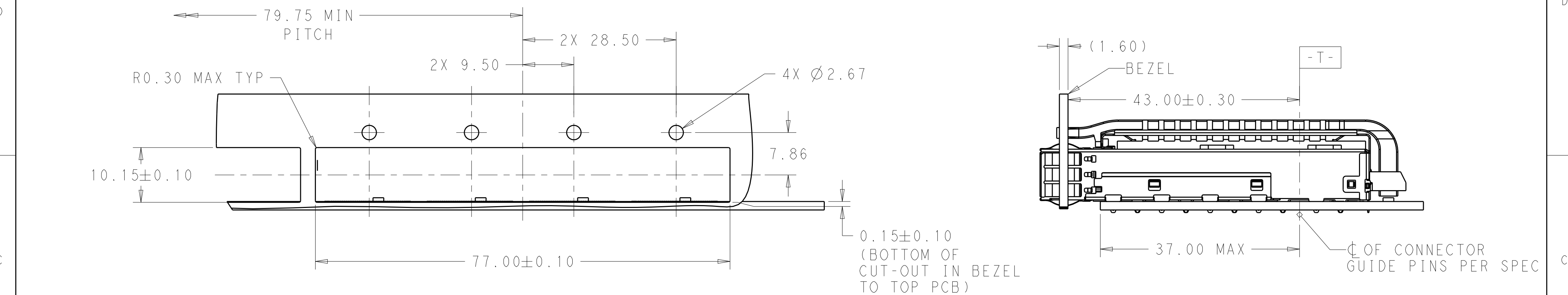
7 OF 13

REV

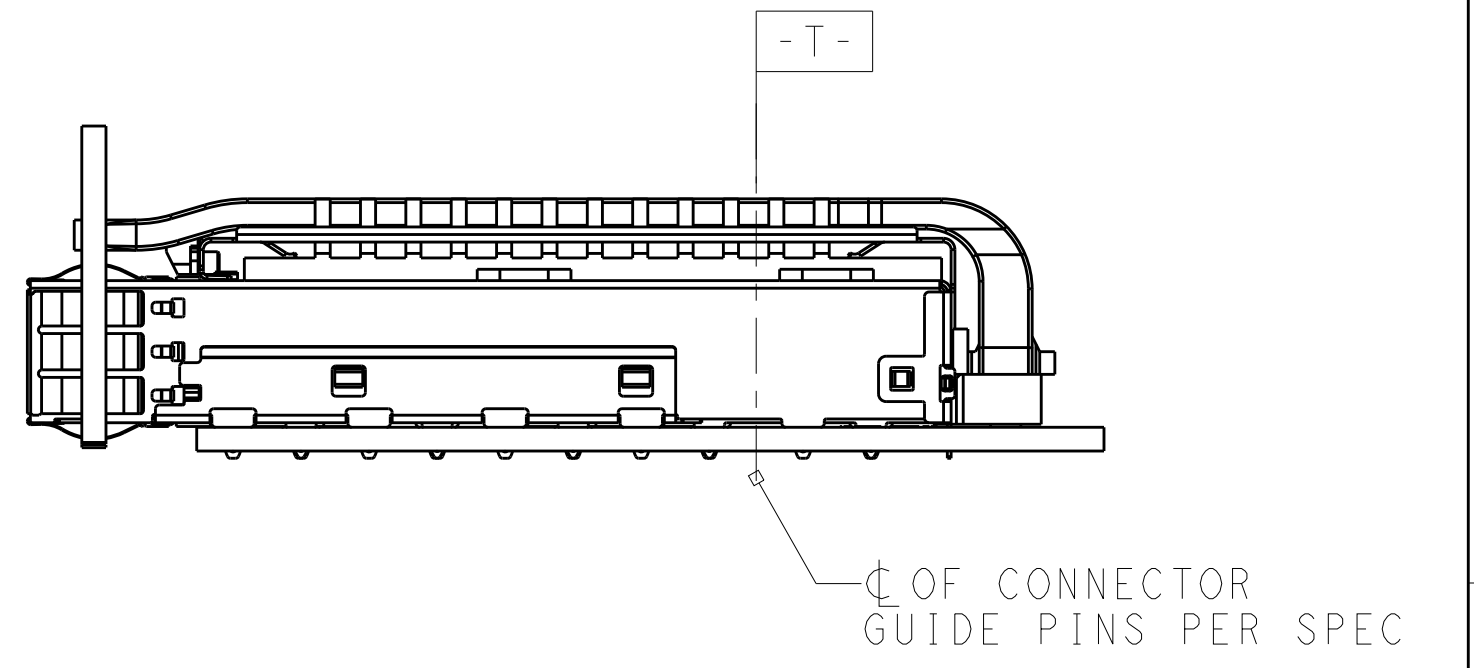
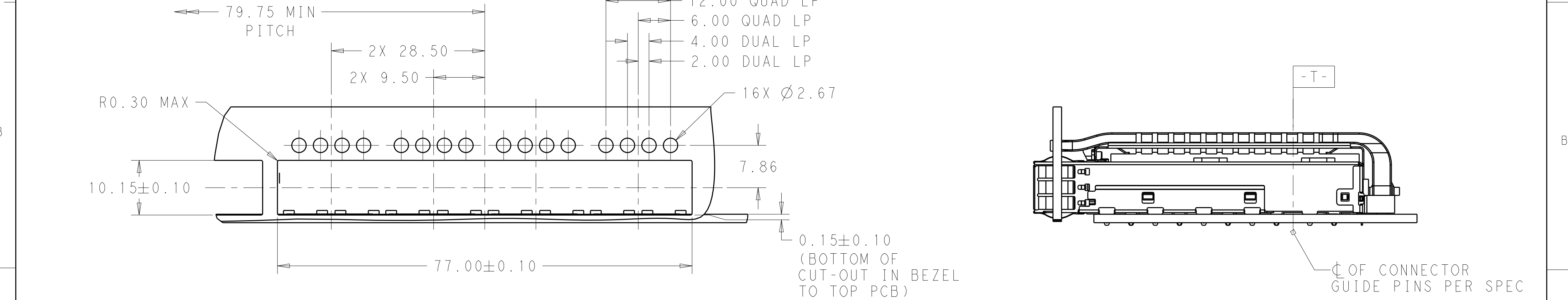
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1471-9 (3/13)

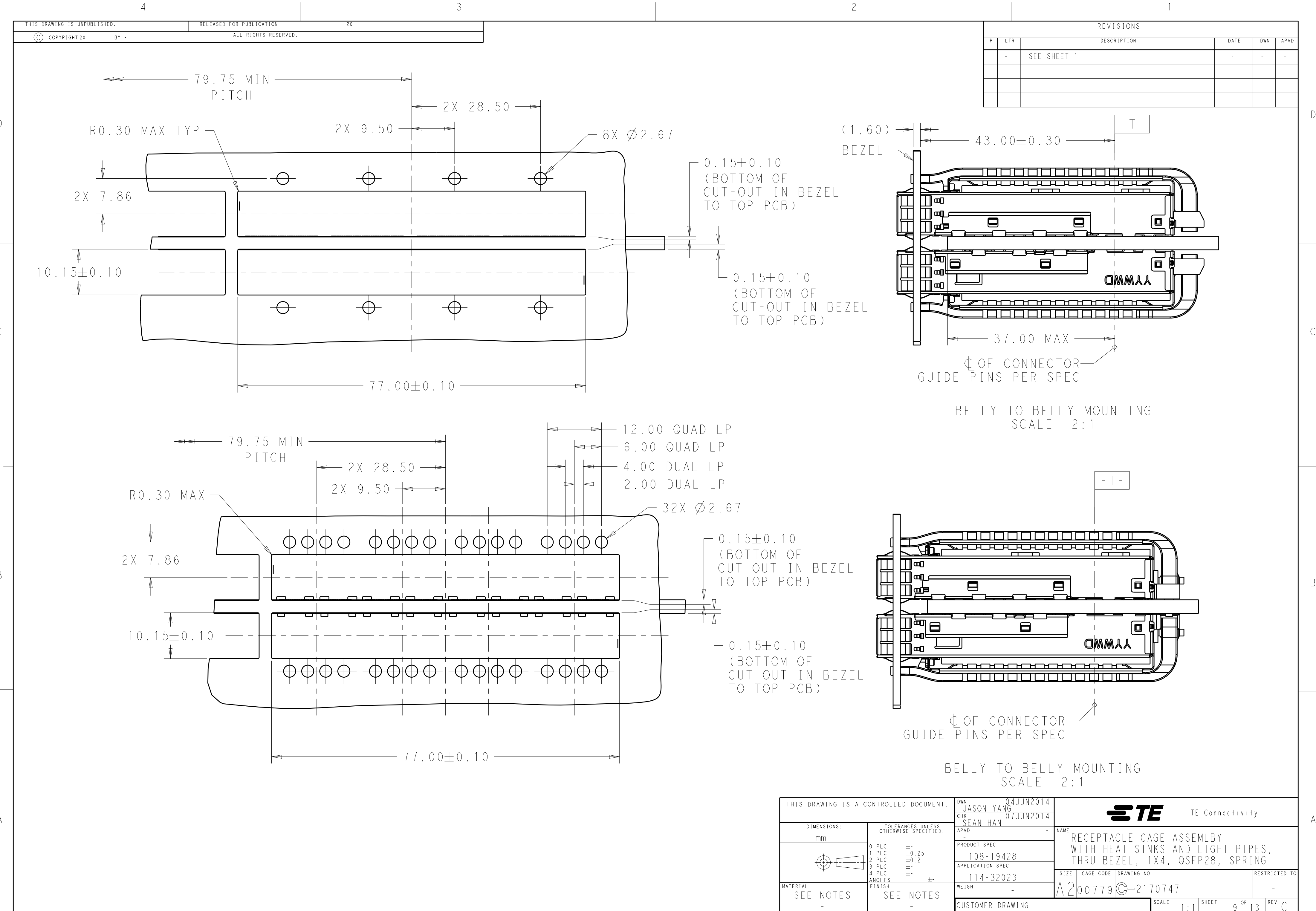
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-	-	SEE SHEET 1	-	-	-



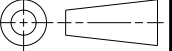
SINGLE SIDE MOUNTING
SCALE 2:1

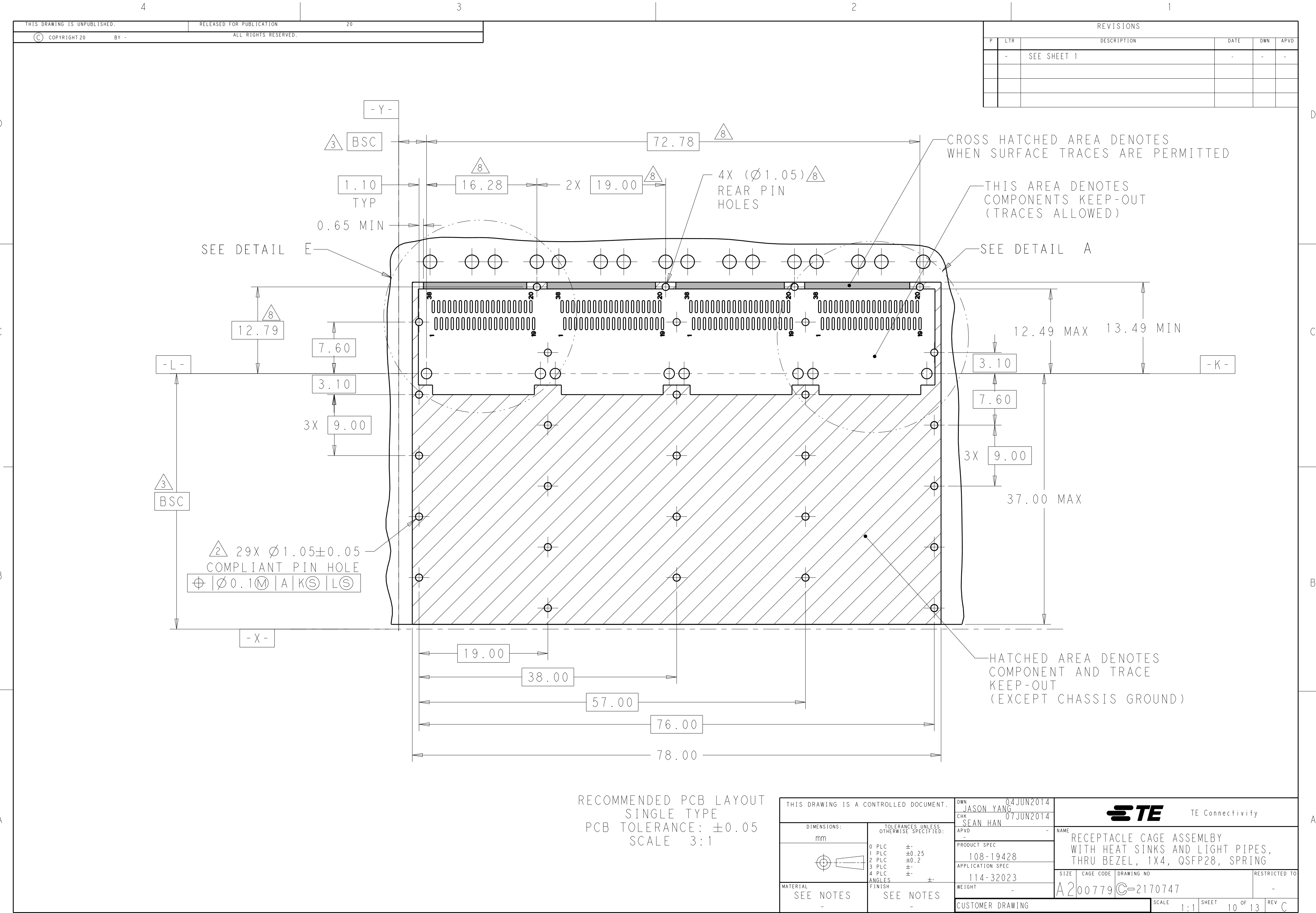


SINGLE SIDE MOUNTING
SCALE 2:1

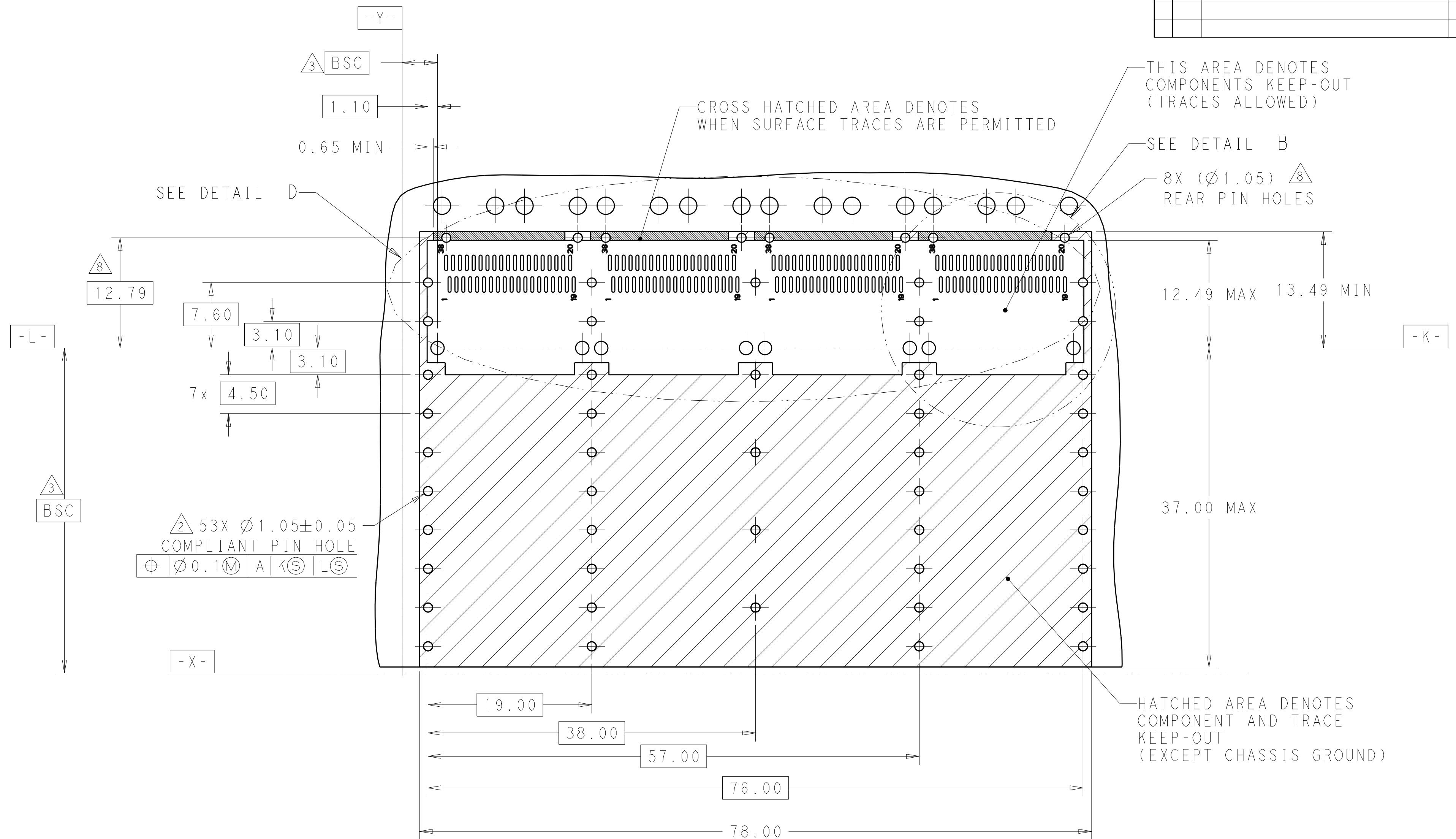


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		CHK 07JUN2014 SEAN HAN							
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME					
		0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH		RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING					
		MATERIAL SEE NOTES		PRODUCT SPEC 108-19428		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
				APPLICATION SPEC 114-32023		A200779	C=2170747		-
				WEIGHT -		CUSTOMER DRAWING			
				SCALE 1:1		SHEET 9 OF 13		REV C	



P	LTR	DESCRIPTION	DATE	DWN	APVD
-	SEE SHEET 1		-	-	-



RECOMMENDED PCB LAYOUT
BELLY TO BELLY TYPE
PCB TOLERANCE: ± 0.05
SCALE 3:1

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		0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± ±		PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023	
MATERIAL		FINISH		SIZE	CAGE CODE
SEE NOTES		SEE NOTES		A2	000779
-		-		DRAWING NO	
-		-		C-2170747	
CUSTOMER DRAWING		WEIGHT		RESTRICTED TO	
		-		-	
				SCALE	SHEET
				1:1	11 OF 13
				REV C	

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

D

D

C

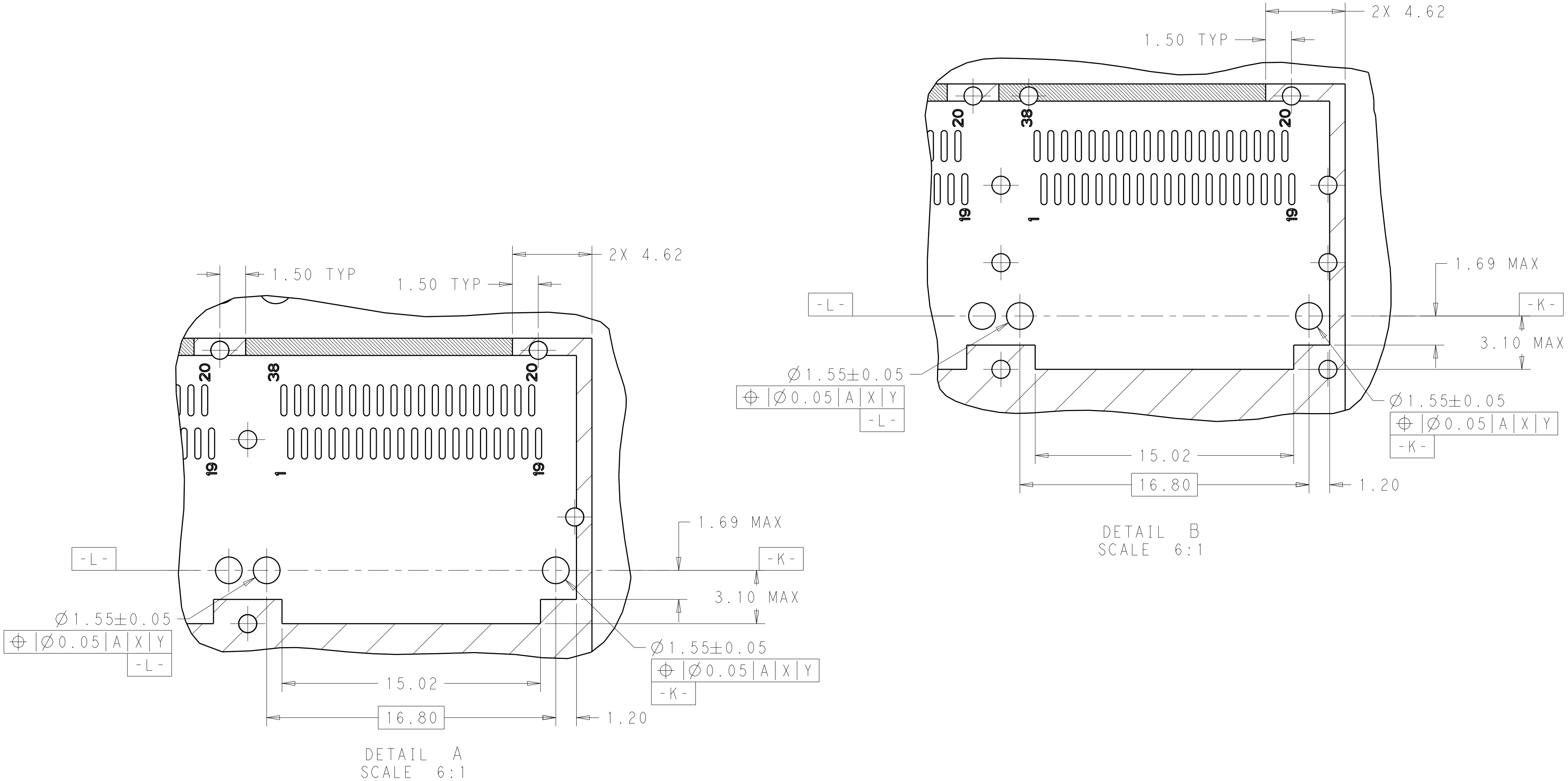
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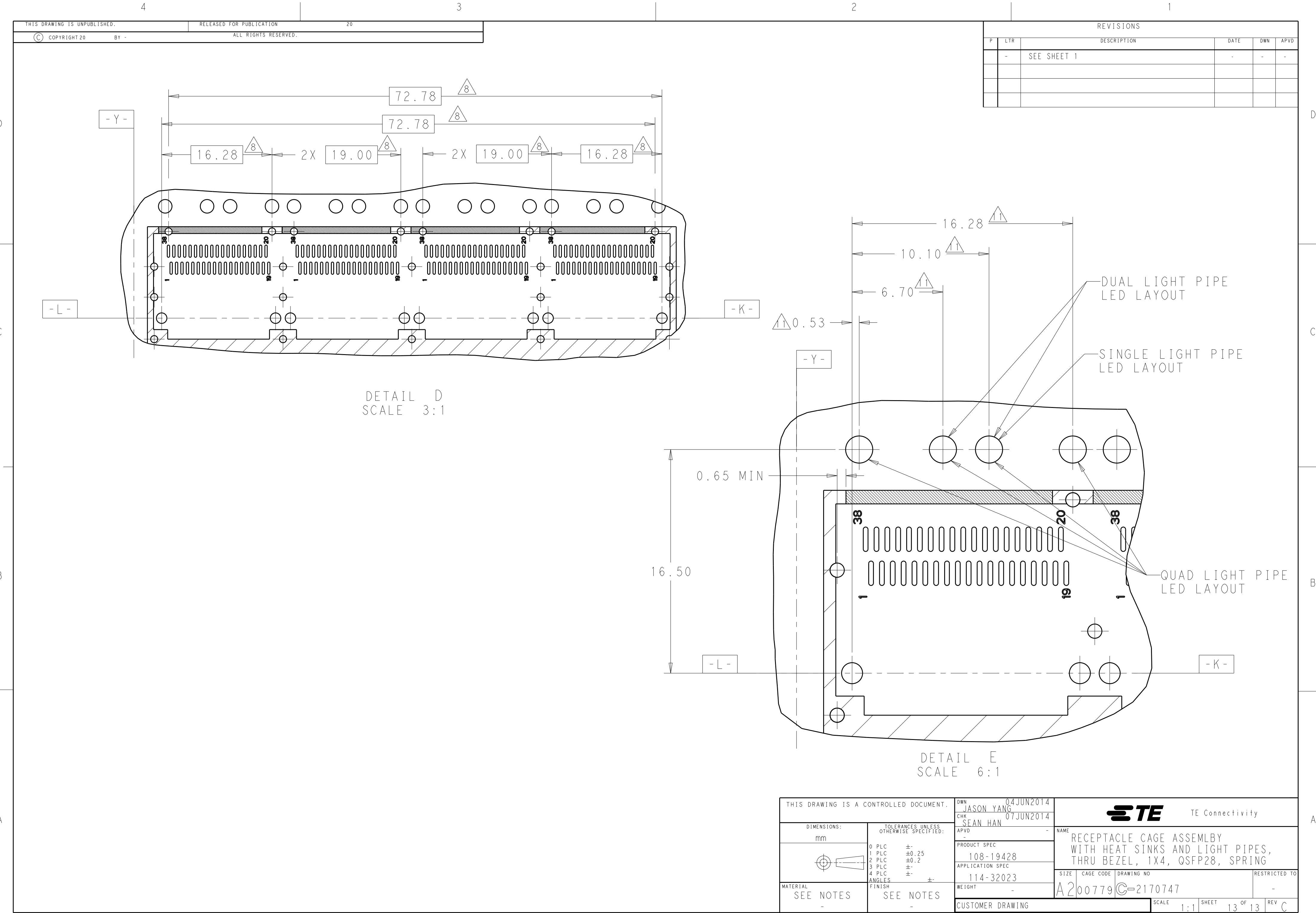
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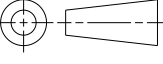
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity		
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DIMENSIONS:		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
mm		PRODUCT SPEC 108-19428			
		APPLICATION SPEC 114-32023	SIZE A200779	CAGE CODE C-2170747	DRAWING NO
MATERIAL SEE NOTES		WEIGHT -	RESTRICTED TO -		
		CUSTOMER DRAWING	SCALE 1:1	SHEET 12 OF 13	REV C



REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	 TE Connectivity		
DIMENSIONS:		CHK 07JUN2014 SEAN HAN			
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD -	PRODUCT SPEC	NAME	
	0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH	108-19428	APPLICATION SPEC	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING	
MATERIAL	SEE NOTES	114-32023	WEIGHT	SIZE	CAGE CODE
-	-	-	-	A200779	C-2170747
CUSTOMER DRAWING			SCALE 1:1	SHEET 13 OF 13	REV C