

2-2170747-2 AS SHOWN

1. 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

2. REFERENCE APPLICATION SPECIFICATION 114-23023
FOR RECOMMENDED DRILL HOLE DIAMETER AND
PLATING THICKNESS

3. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER

4. DIMENSION OF HEAT SINK APPLIES WITH MODULE INSERTED IN CAGE.

5. HEAT SINKS, HEAT SINK CLIPS AND LIGHT PIPES
ARE SHIPPED ASSEMBLED ON CAGE

6. MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN
DOUBLE SIDED: 2.20 MIN

7. DATUM -A- IS TOP SURFACE OF THE HOST BOARD.

8. THESE HOLES ARE OPTIONAL WHEN THE REAR PINS ARE REMOVED.

9. MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.

10. DATE CODE (YYWWD) MARKED APPROXIMATELY AS SHOWN.

11. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLY WITH LIGHT PIPE.

12. THE CUSTOMIZED HEAT SINK HAVE NO SURFACE FINISH ONLY FOR 2170747-7/-8/-9.

13. CAGE ASSEMBLY WITH HS AND LIGHT PIPE ARE UNASSEMBLED,
AND PACKAGED INDIVIDUALLY IN TRAYS. ONLY APPLICABLE TO 2170747-7.

10

HEAT SINK CLIP

LIGHT PIPE

HEAT SINK

1X4 CAGE ASSEMBLY

2-2170747-2 AS SHOWN
SCALE 2:1

76.50 REF

4X 18.75±0.10

4X 8.90±0.10

7.88

3X 19.00

2X 19.00

18.50

REAR PINS
OPTIONAL

SCALE 2:1

67.75 REF

9.65 REF

13.40

SEE DETAIL C

2.05 TYP

CL OF GUIDE POST

15.11 REF
LIGHT PIPE HEIGHT
ON CAGE

A MAX

4

HEAT SINK HEIGHT
ON CAGE

3.0 MAX

DETAIL C
SCALE 6:1

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DIMENSIONS:
mm

1

2

3

4

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±-

1 PLC ±0.25

2 PLC ±0.2

3 PLC ±-

4 PLC ±-

ANGLES ±-

FINISH

MATERIAL
SEE NOTES

SEE NOTES

DWN 04JUN2014
JASON YANG

CHK 07JUN2014
SEAN HAN

APVD -

PRODUCT SPEC
108-19428

APPLICATION SPEC
114-32023

WEIGHT -

CUSTOMER DRAWING

TE

TE Connectivity

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

SIZE
A2

CAGE CODE
00779

DRAWING NO
C-2170747

RESTRICTED TO
-

SCALE 1:1

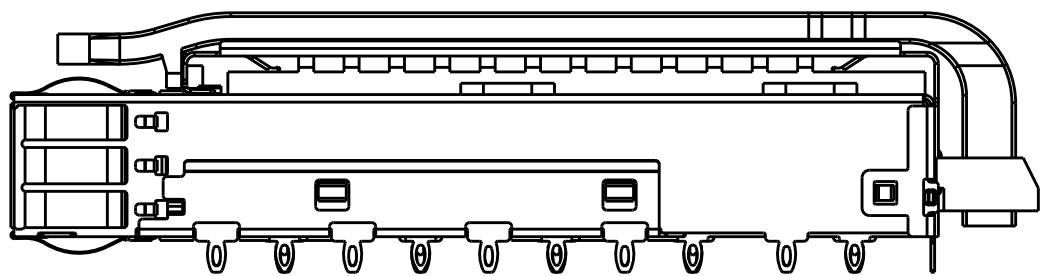
SHEET 1 OF 13

REV C

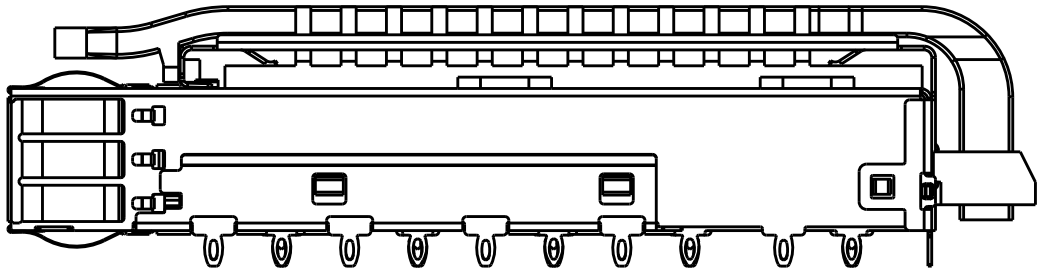
1471-9 (3/13)

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

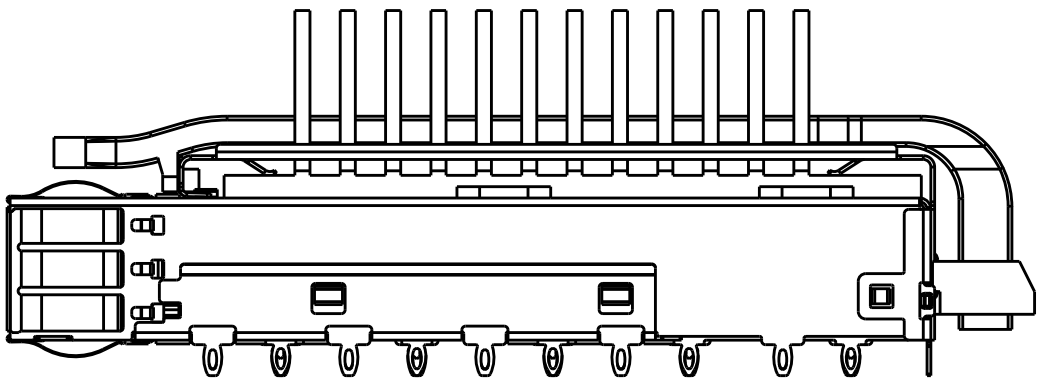
HEAT SINK OPTION



PCI HEAT SINK
SCALE 2:1

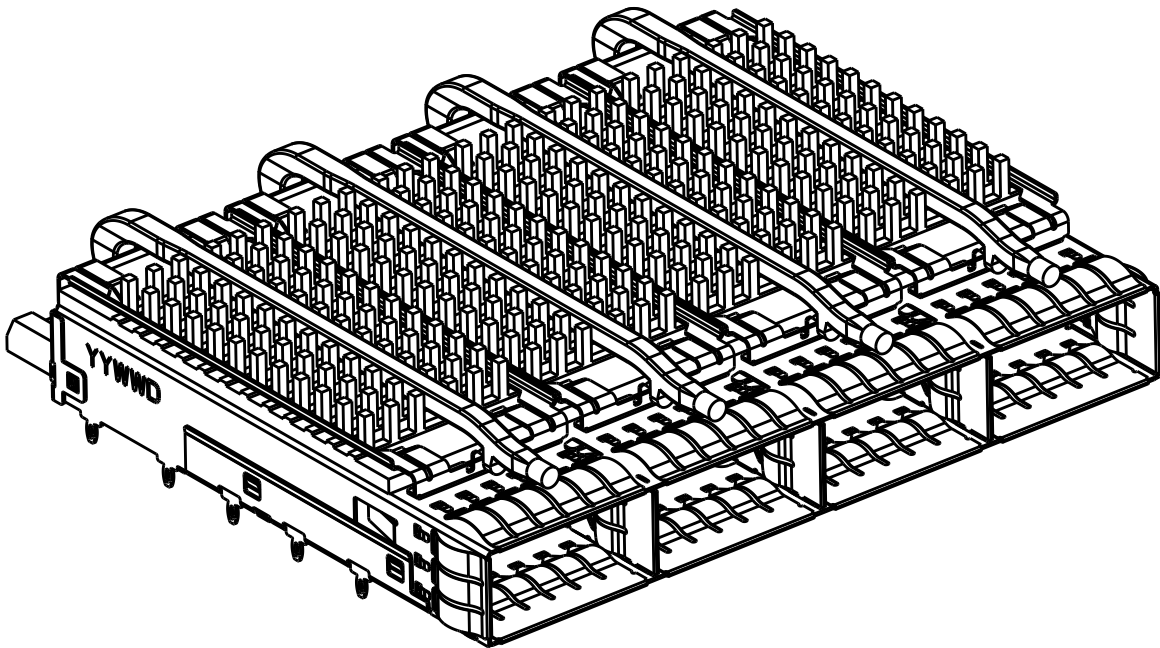


SAN HEAT SINK
SCALE 2:1

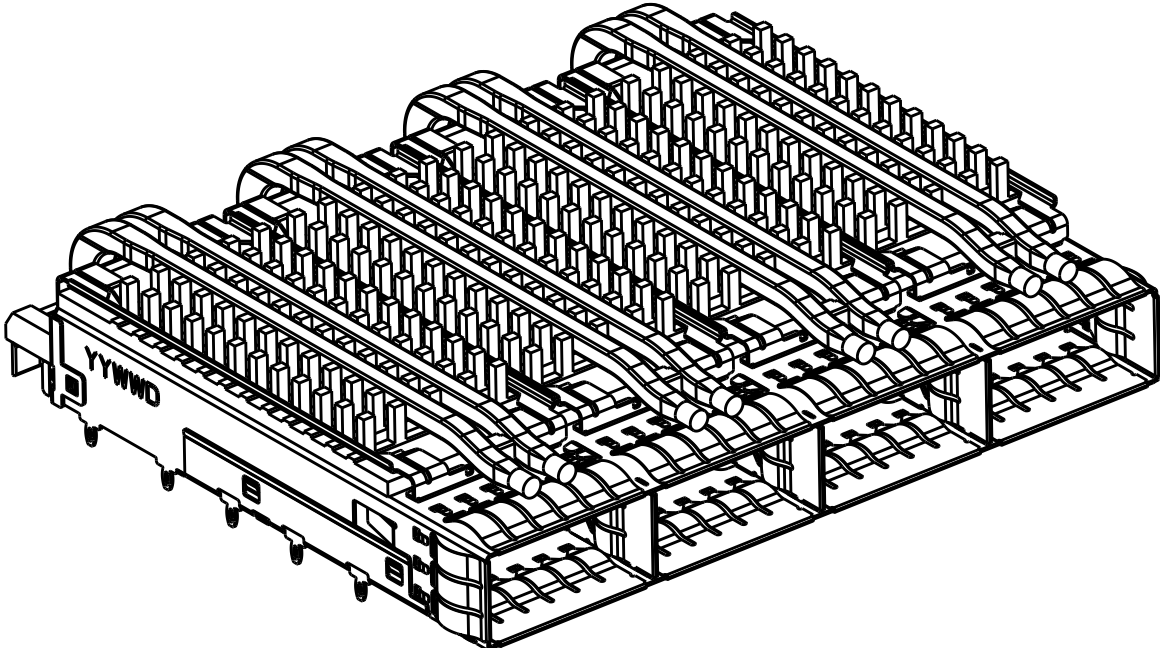


NETWORKING HEAT SINK
SCALE 2:1

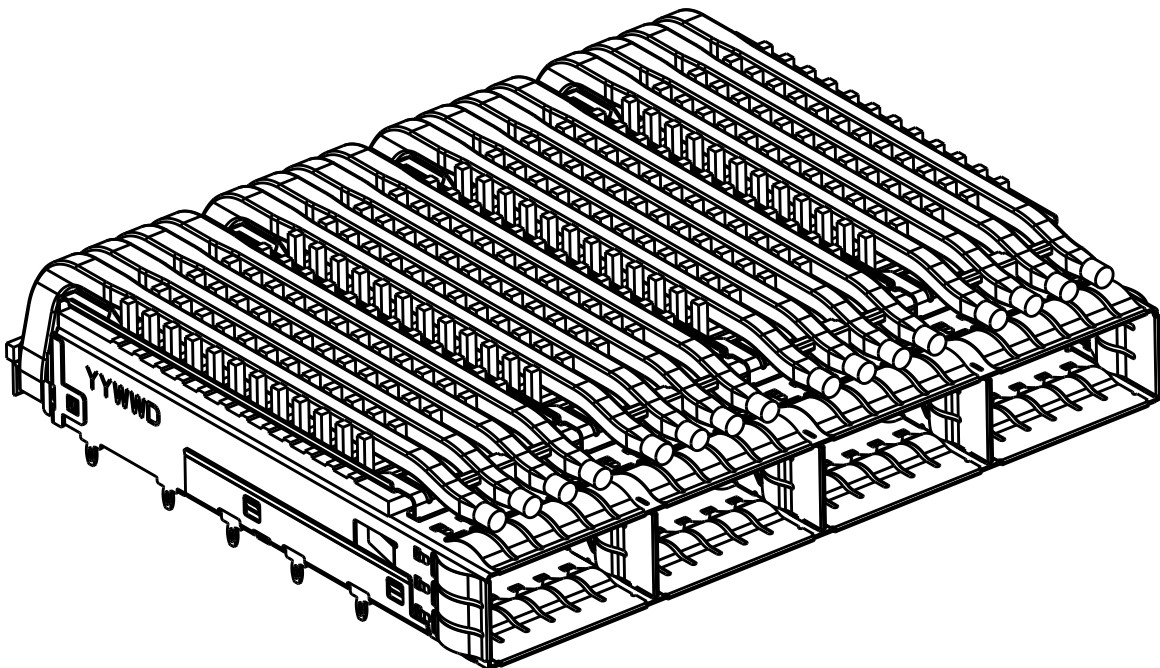
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 3:2

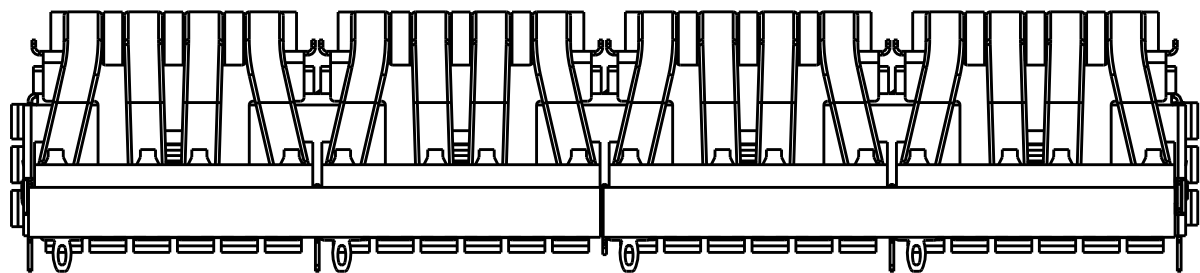


DUAL LIGHT PIPE
SCALE 3:2

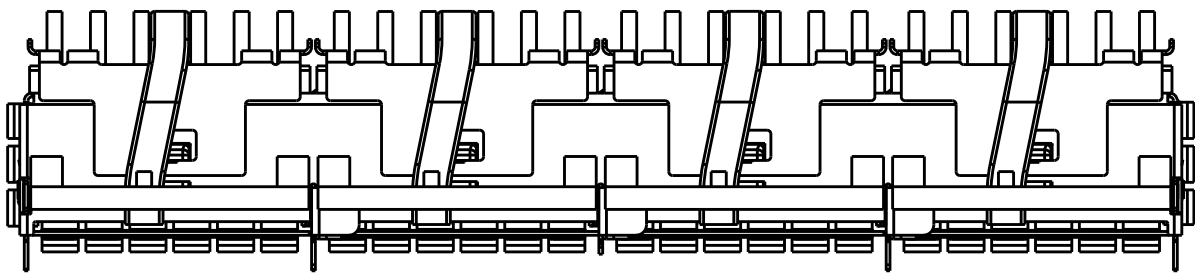


QUAD LIGHT PIPE
SCALE 3:2

OF REAR PIN OPTION



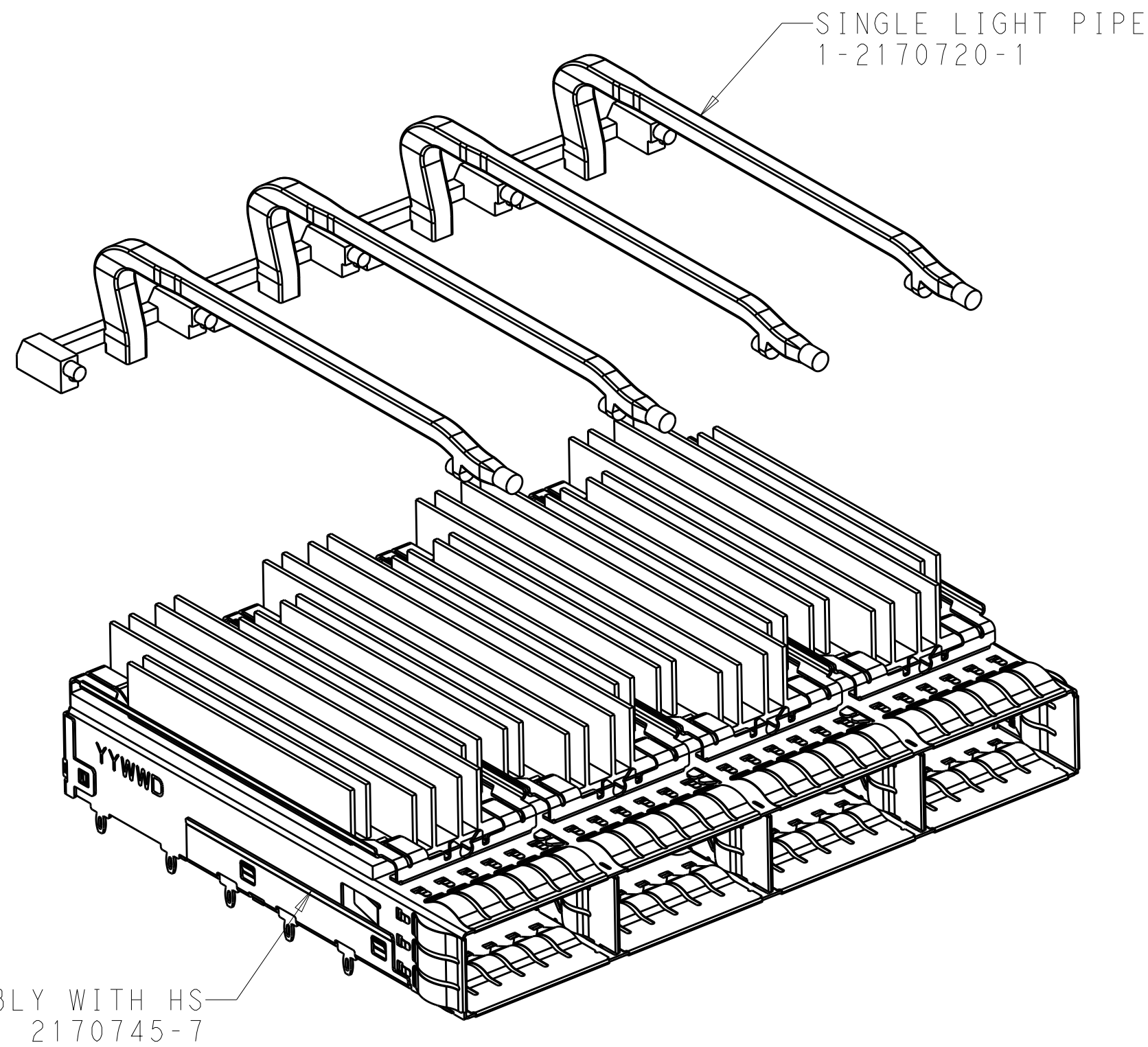
1 REAR PIN
SCALE 2:1



0 REAR PIN
SCALE 2:1

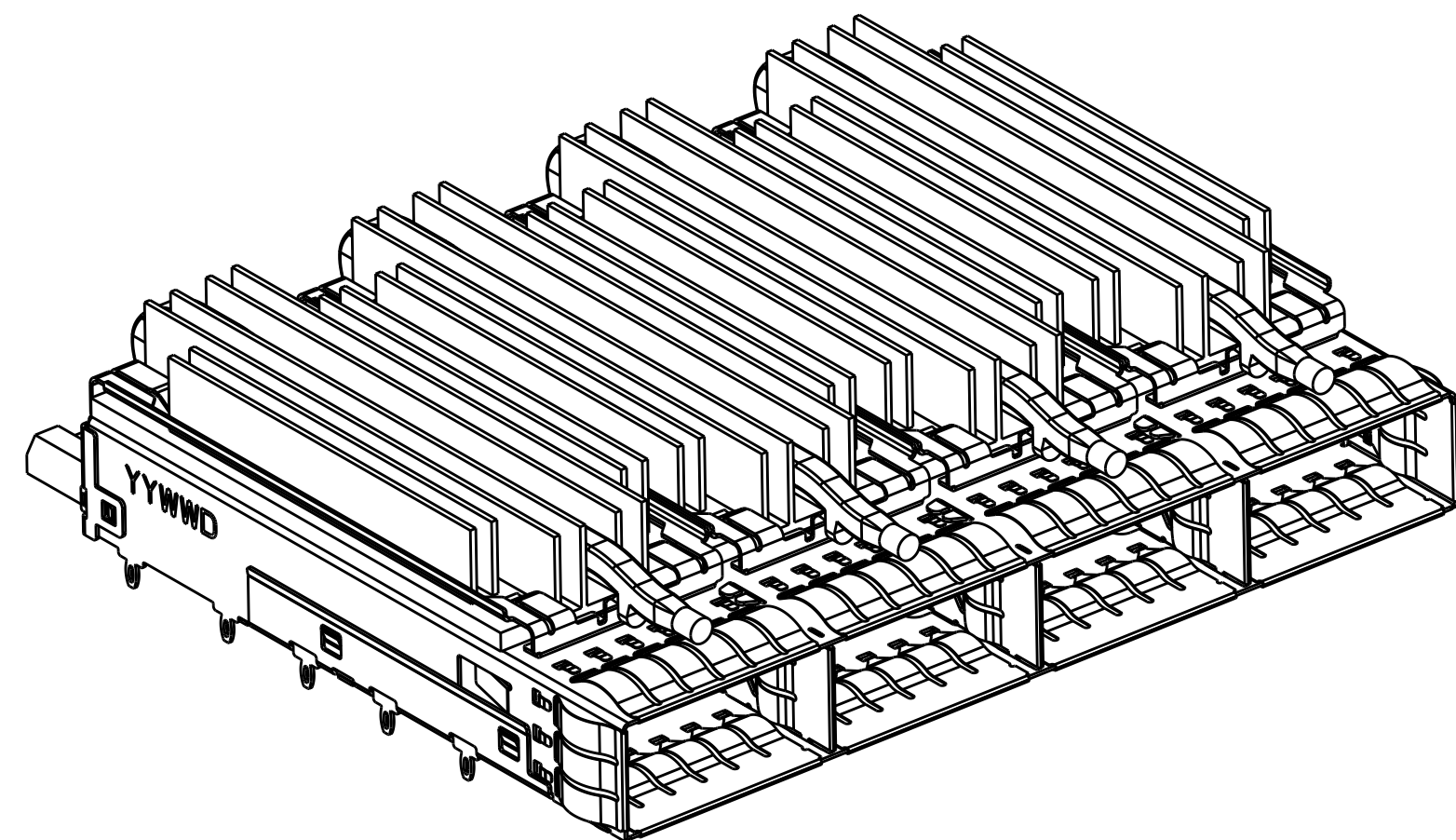
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		CHK 07JUN2014 SEAN HAN			
DIMENSIONS:		APVD -	NAME		
mm		PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY		
		108-19428	WITH HEAT SINKS AND LIGHT PIPES,		
		APPLICATION SPEC	THRU BEZEL, 1X4, QSFP28, SPRING		
		114-32023			
MATERIAL		WEIGHT -	SIZE	CAGE CODE	DRAWING NO
SEE NOTES		CUSTOMER DRAWING	A200779	C-2170747	RESTRICTED TO
			SCALE 1:1	SHEET 2 OF 13	REV C

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



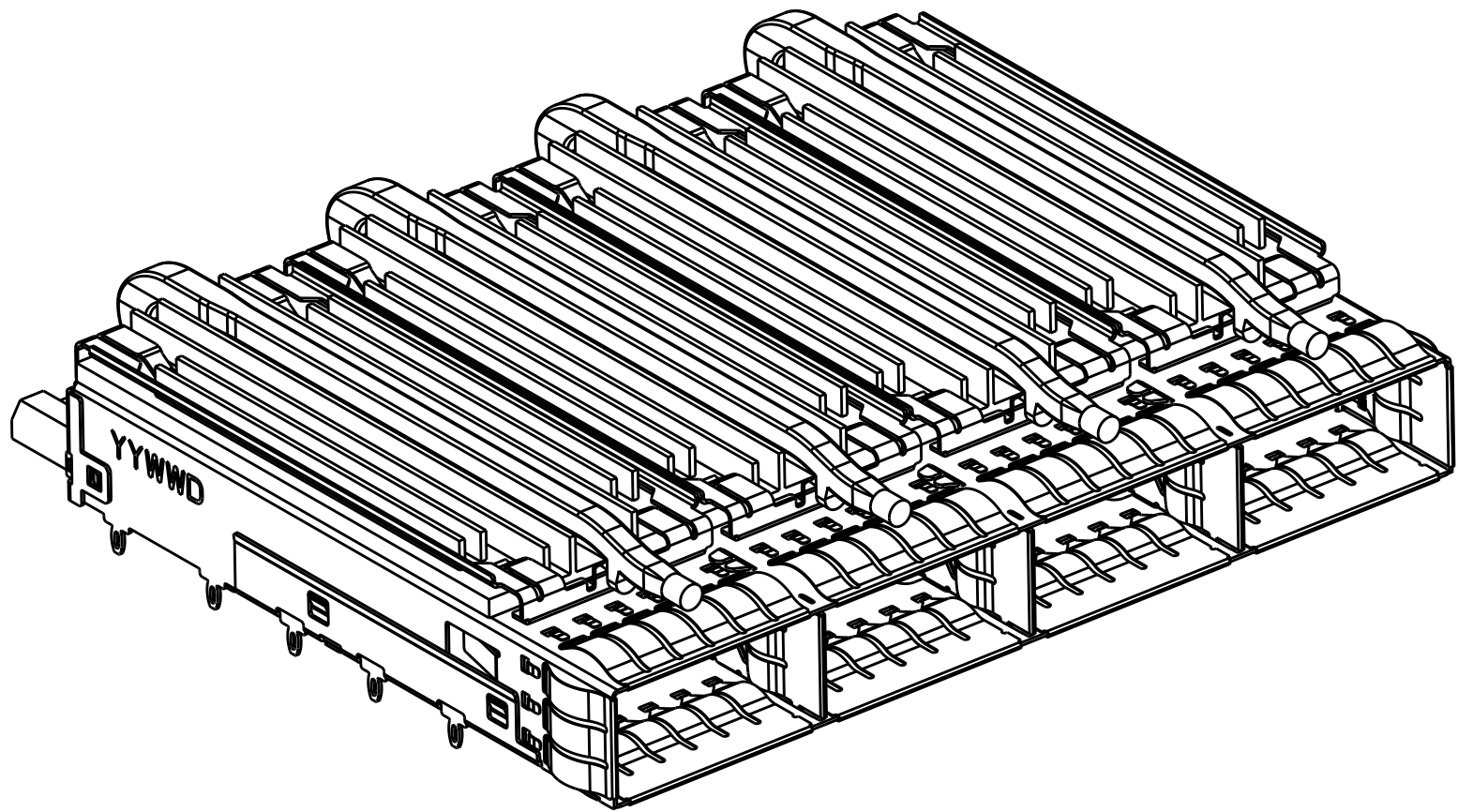
CAGE ASSEMBLY WITH HS
2170745-7

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

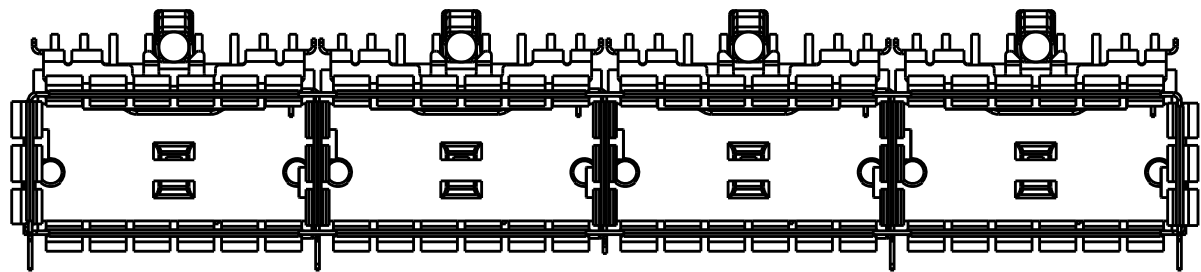


2170747-8 ASSEMBLED
ASSEMBLED AND PAKCAGED TOGETHER, CUSTOMIZED HEAT SINK
SCALE 2:1

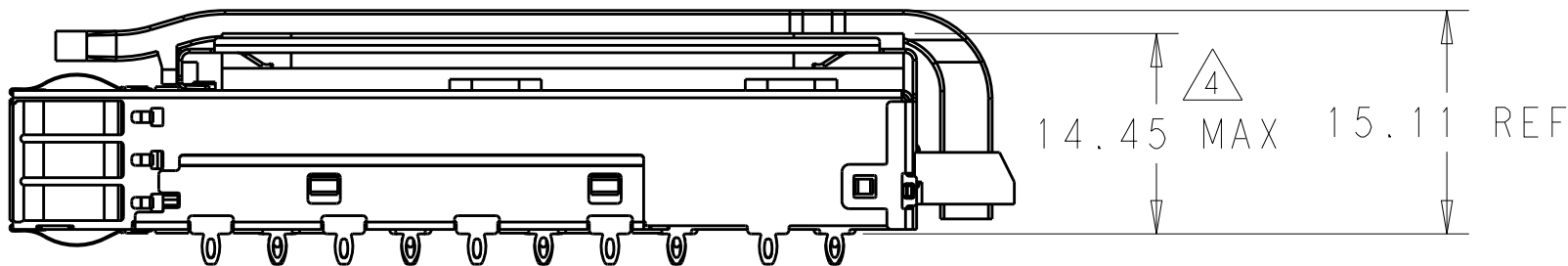
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		CHK SEAN HAN 07JUN2014				
DIMENSIONS: mm		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING			
		PRODUCT SPEC 108-19428				
		APPLICATION SPEC 114-32023	SIZE A2	CAGE CODE 00779	DRAWING NO C-2170747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



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

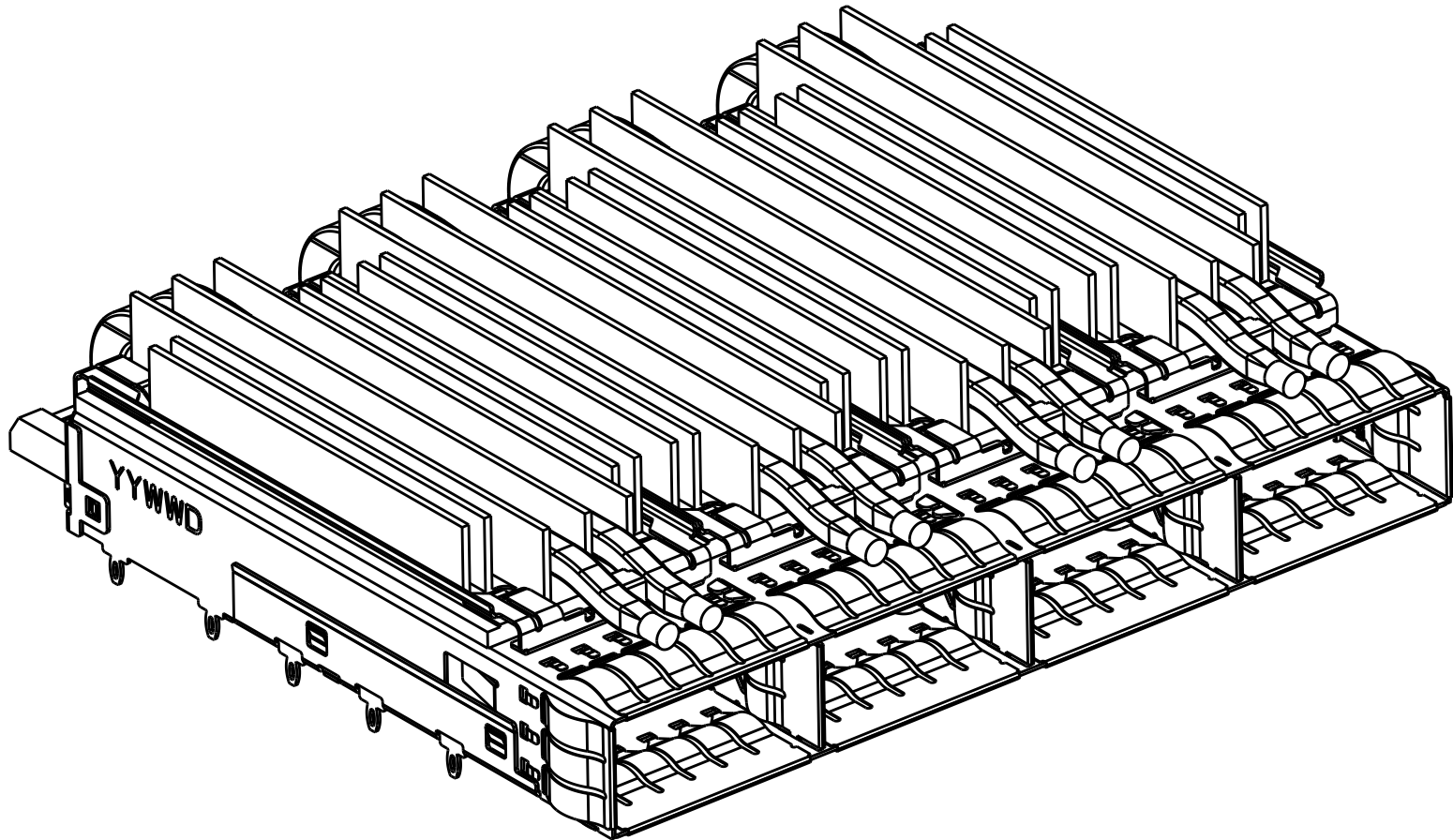


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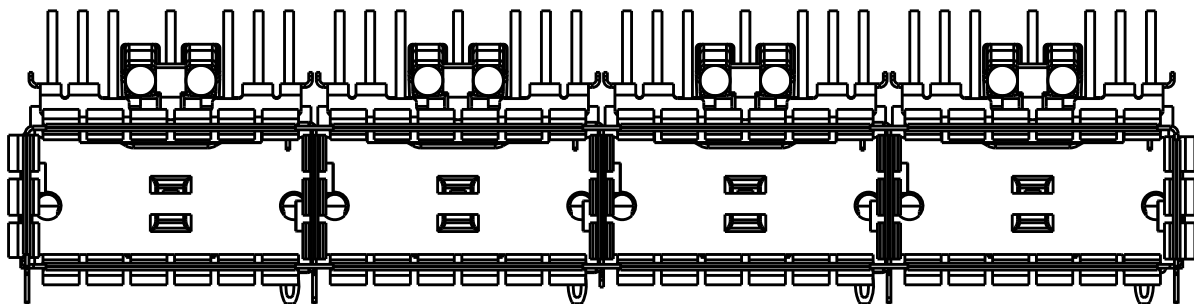


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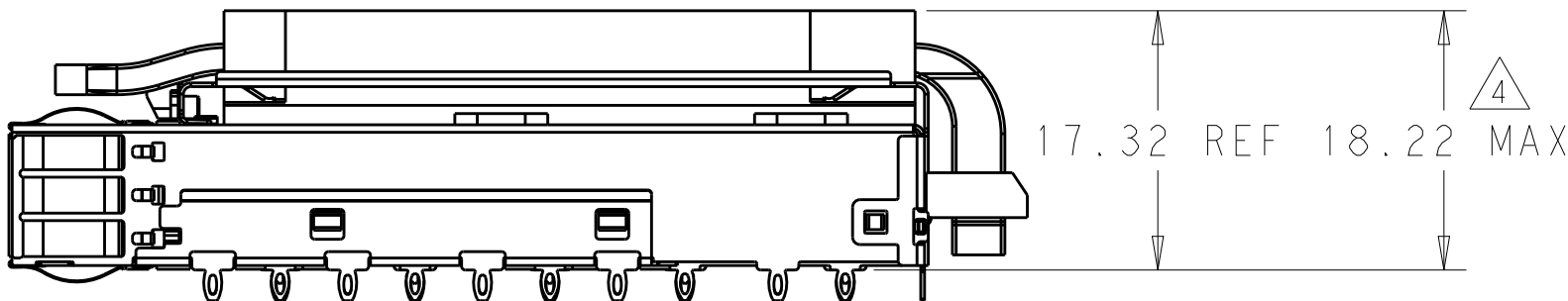
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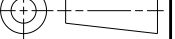


2-2170747-7 AS SHOWN
WITH CUSTOMIZED HEAT SINK
SCALE 2:1

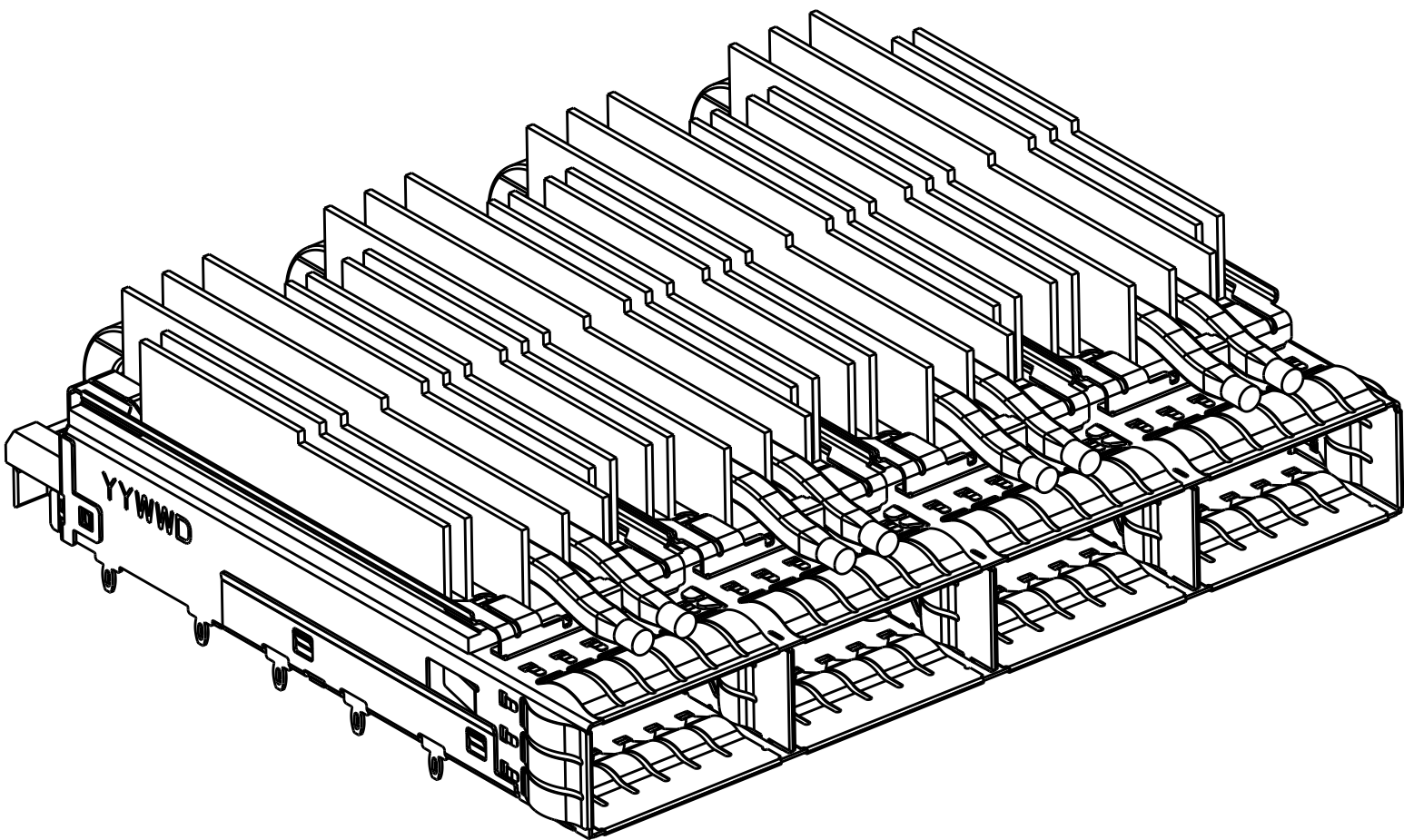


SCALE 2:1

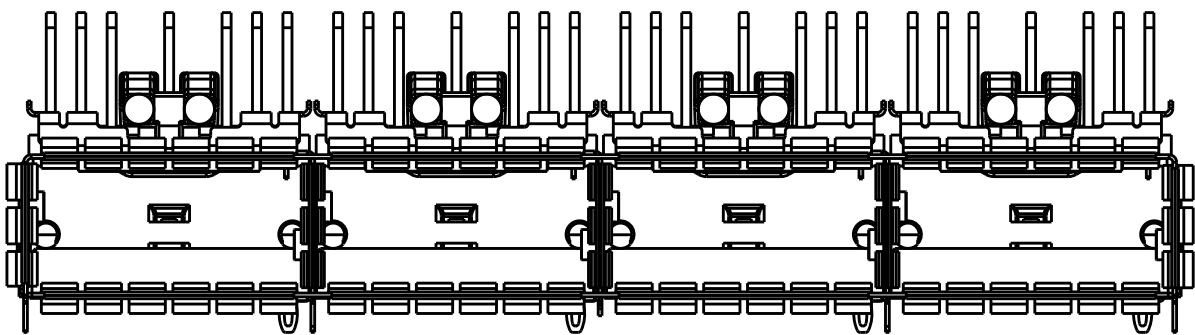


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		CHK SEAN HAN 07JUN2014					
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING			
		0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH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

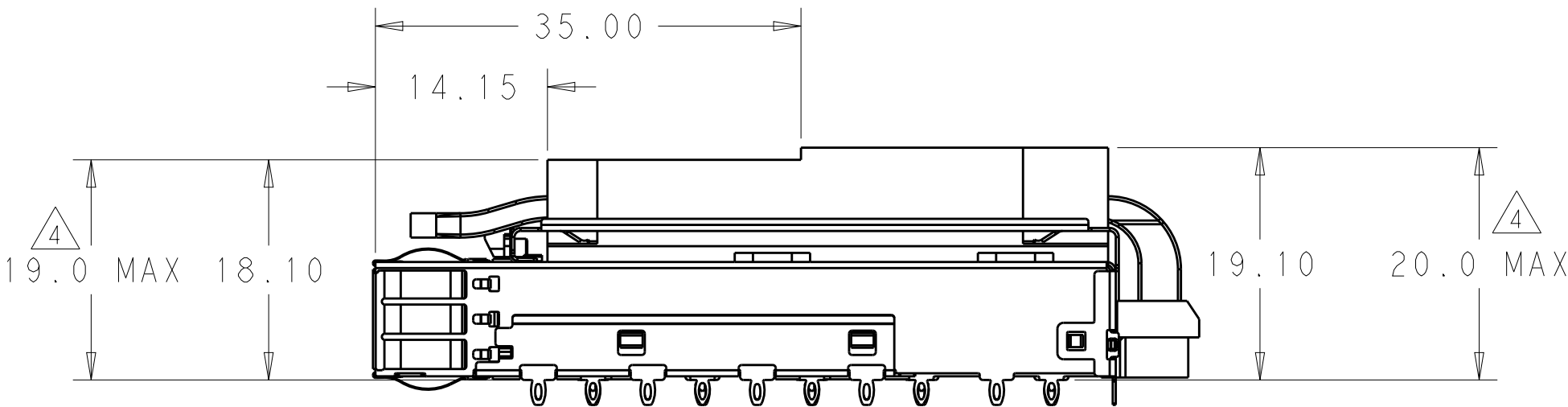
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
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2-2170747-8 AS SHOWN
WITH CUSTOMIZED HEAT SINK
SCALE 2:1



SCALE 2:1



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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 -	RESTRICTED TO			
		CUSTOMER DRAWING	A200779C-2170747			
			SCALE 1:1 SHEET 6 OF 13 REV C			

4

3

2

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

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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

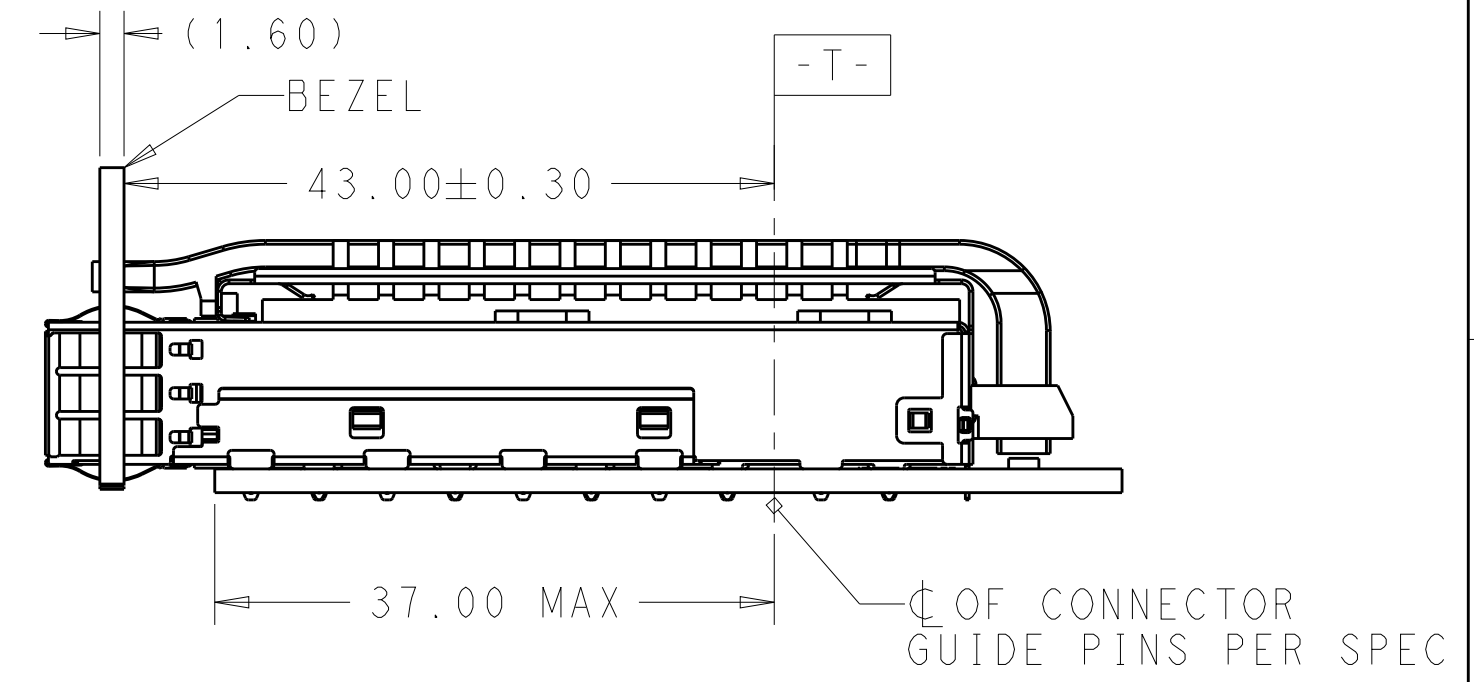
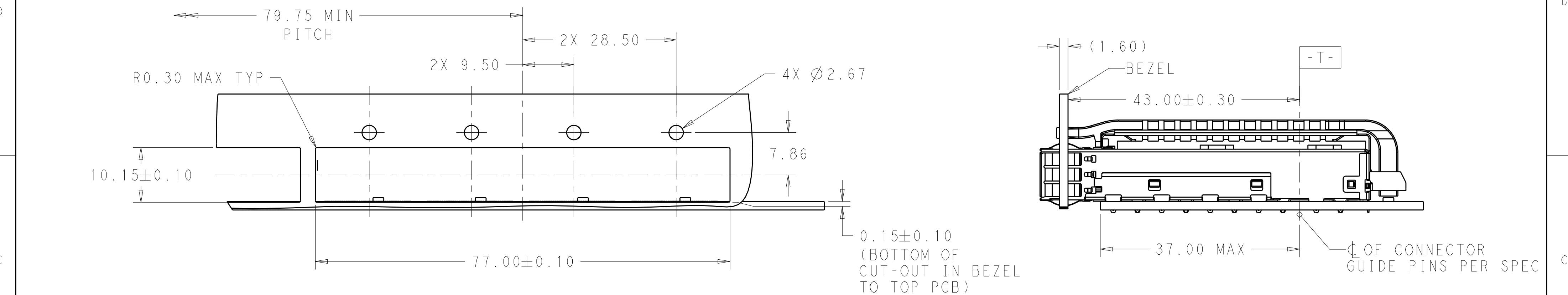
7 OF 13

REV

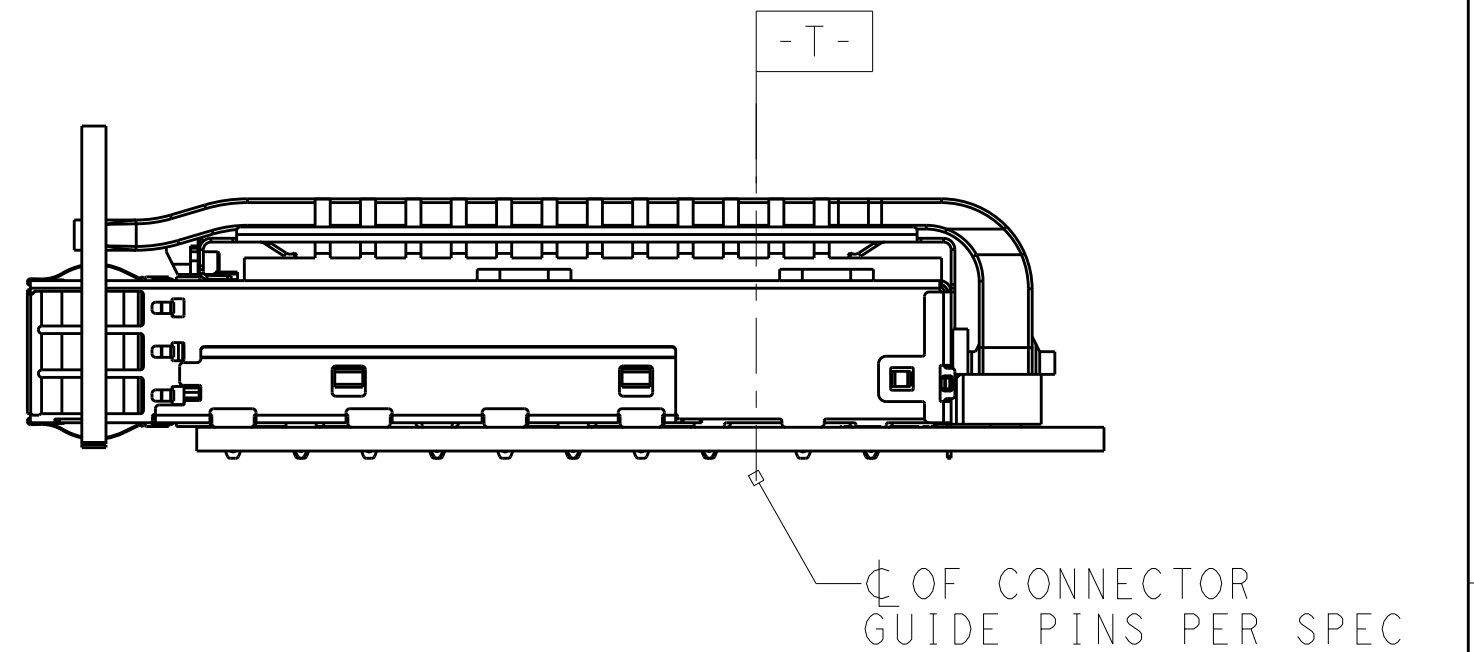
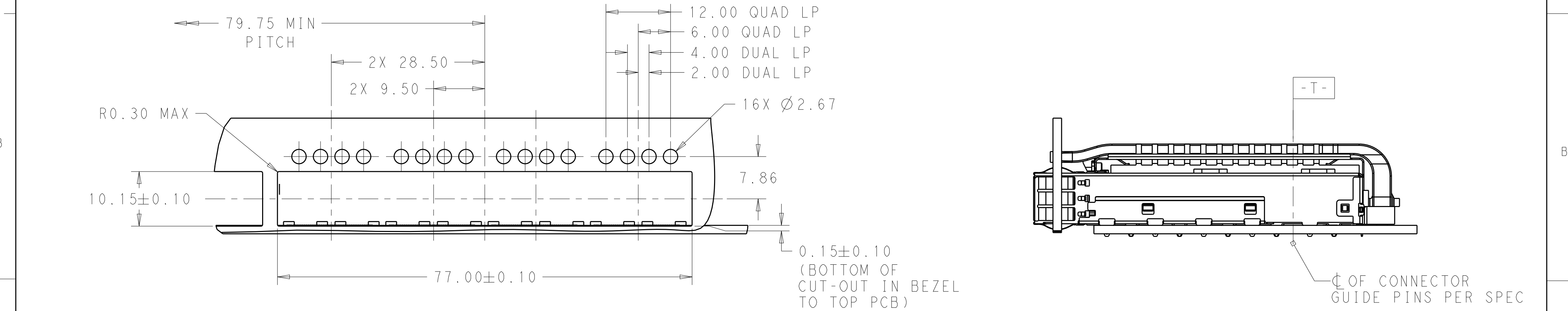
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1471-9 (3/13)

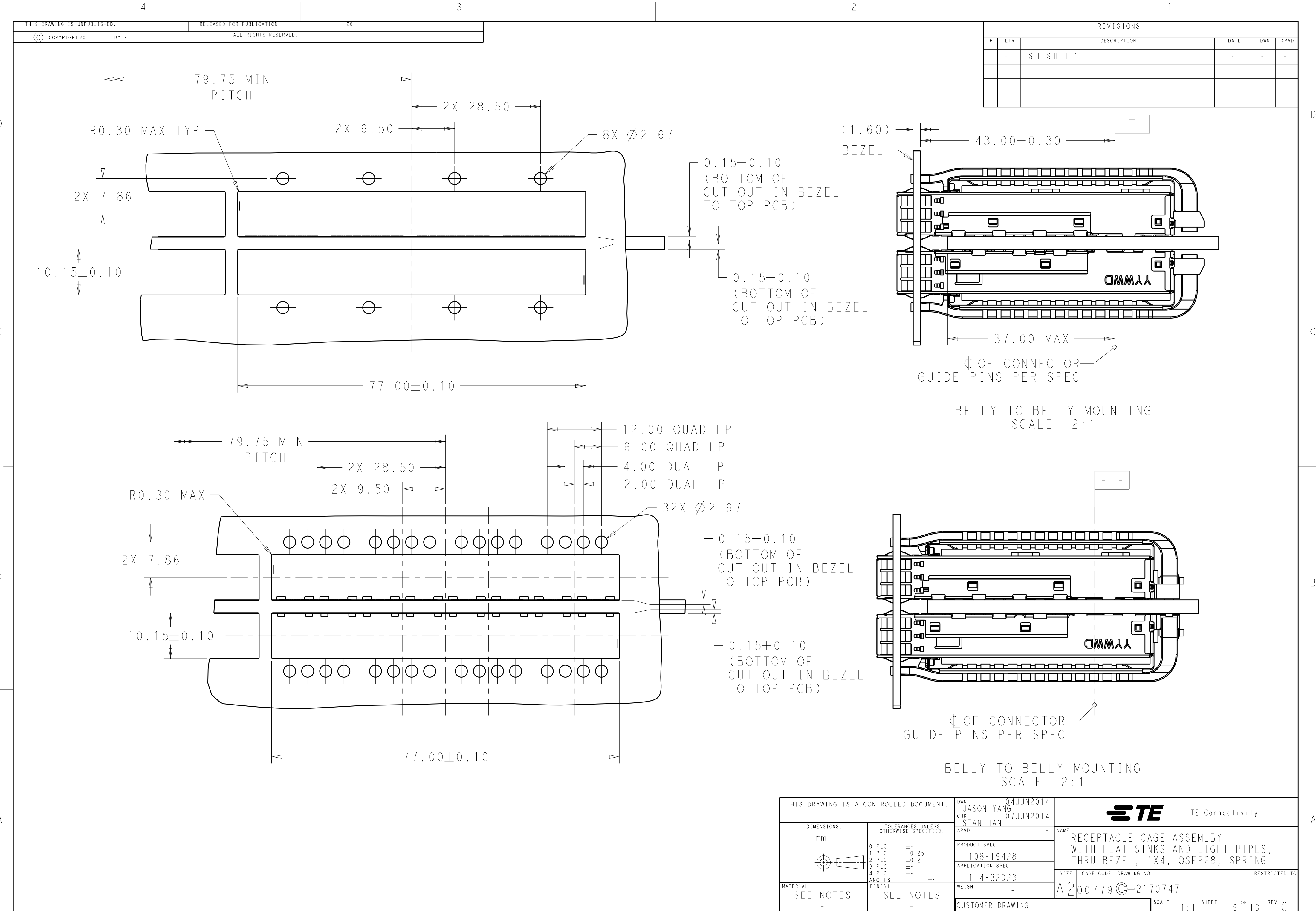
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P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-



SINGLE SIDE MOUNTING
SCALE 2:1



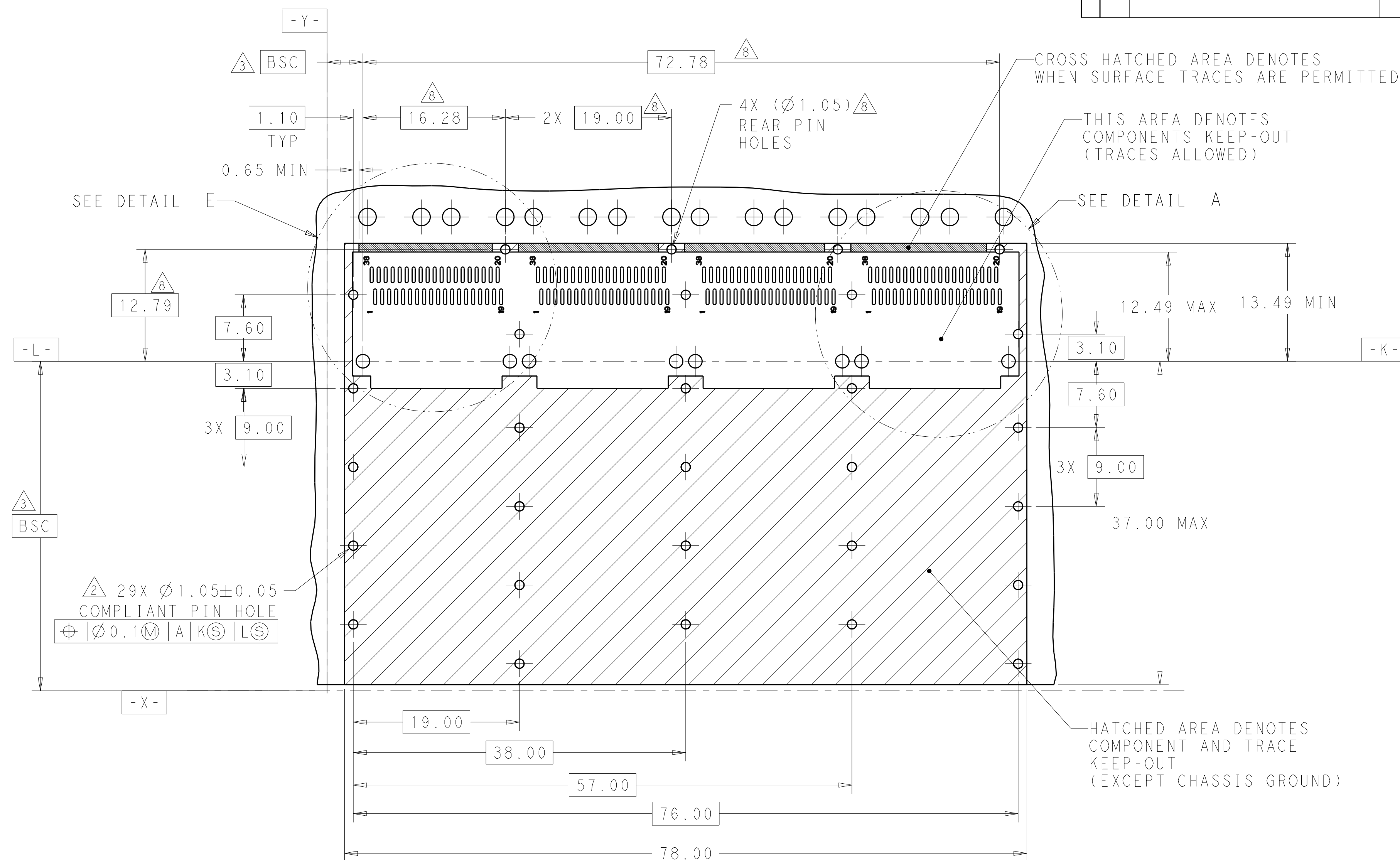
SINGLE SIDE MOUNTING
SCALE 2:1



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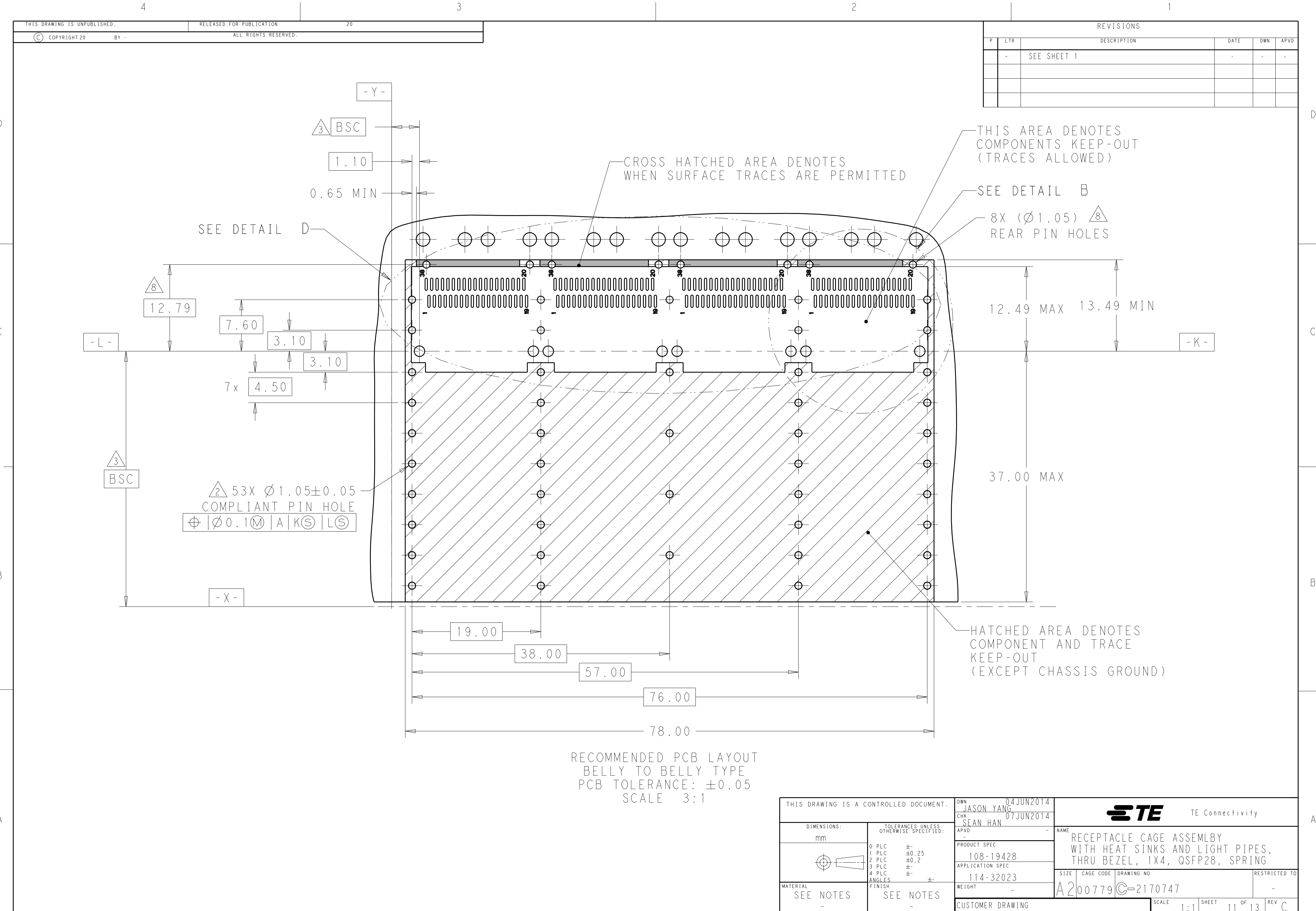
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	0 PLC ±	PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING				
	1 PLC ±0.25	108-19428					
	2 PLC ±0.2	APPLICATION SPEC					
	3 PLC ±	114-32023					
4 PLC ±	ANGLES ±	WEIGHT -	SIZE	CAGE CODE	DRAWING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

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



RECOMMENDED PCB LAYOUT
SINGLE TYPE
PCB TOLERANCE: ± 0.05
SCALE 3:1

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DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH		NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING				
		PRODUCT SPEC 108-19428						
MATERIAL SEE NOTES -		APPLICATION SPEC 114-32023		SIZE A2	CAGE CODE 000779	DRAWING NO C-2170747	RESTRICTED -	
		WEIGHT -		CUSTOMER DRAWING		SCALE 1:1	SHEET 10 OF 13	REV 0



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	APVD -	NAME	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	108-19428
	0 PLC ±-	APPLICATION SPEC	114-32023
	1 PLC ±0.25	WEIGHT	-
	2 PLC ±0.2	CUSTOMER DRAWING	SCALE 1:1 SHEET 11 OF 13 REV C
	3 PLC ±-		
	4 PLC ±-		
	ANGLES ±-		
	FINISH		
MATERIAL SEE NOTES	SEE NOTES		

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

D

D

C

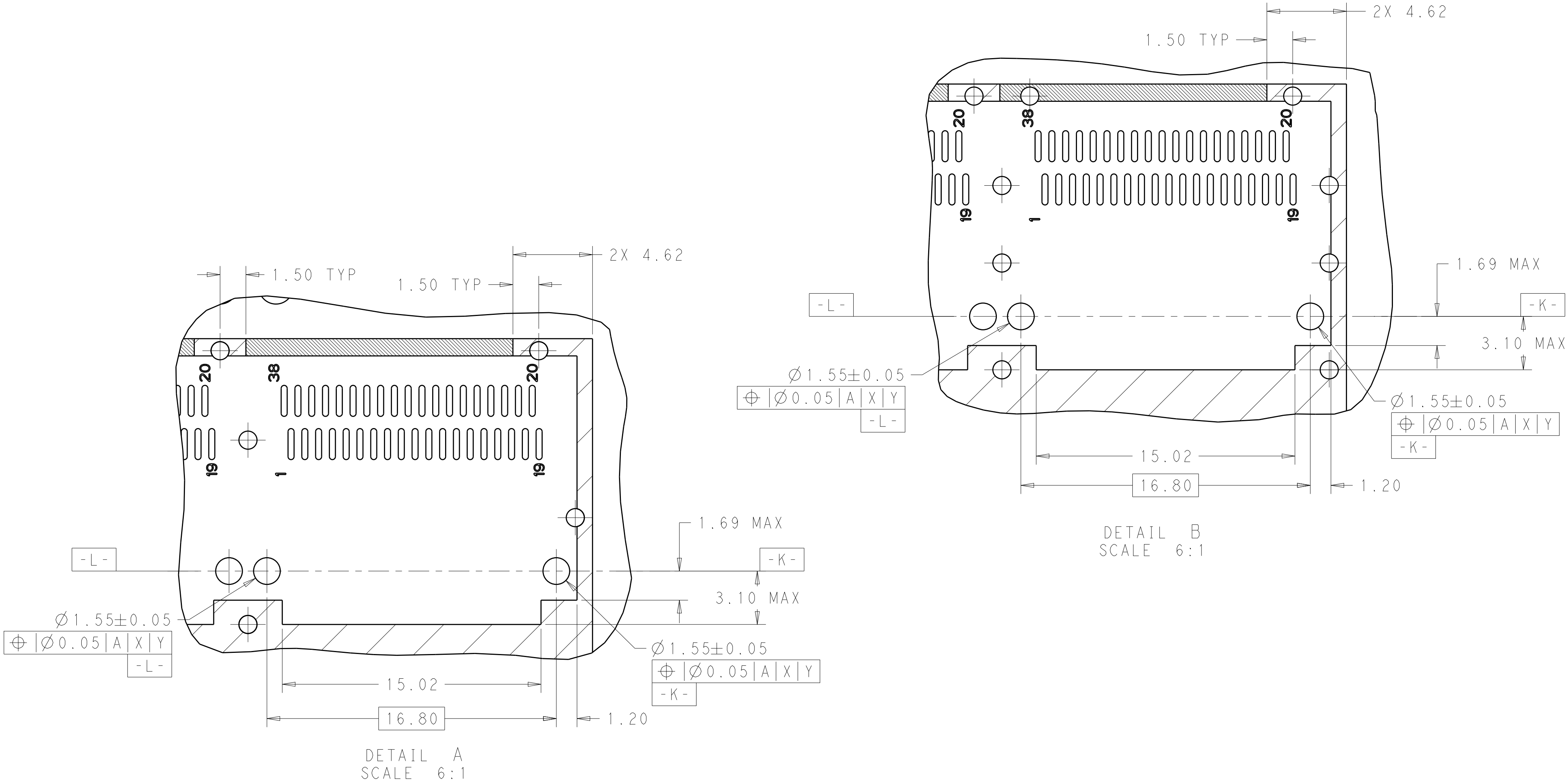
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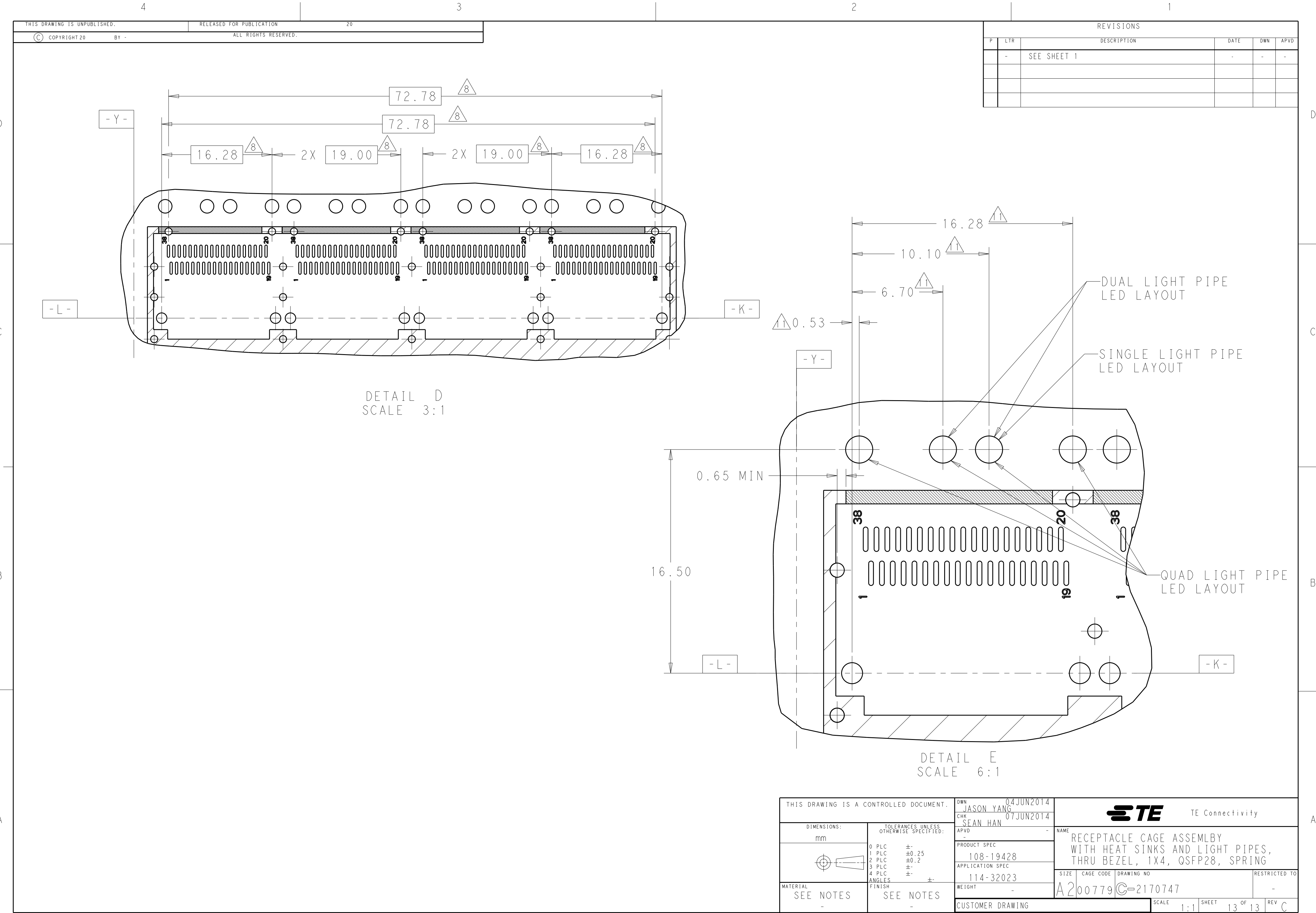
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A

A



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		CHK SEAN HAN 07JUN2014			
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



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mm		APVD -	NAME	
		PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING	
		108-19428		
		APPLICATION SPEC		
		114-32023		
MATERIAL		WEIGHT	SIZE	
SEE NOTES		-	CAGE CODE	
		CUSTOMER DRAWING	DRAWING NO	
			RESTRICTED TO	
			A200779C-2170747	
			SCALE	
			1:1	
			SHEET	
			13 OF 13	
			REV	
			C	

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[TE Connectivity:](#)

[2170747-6](#)