

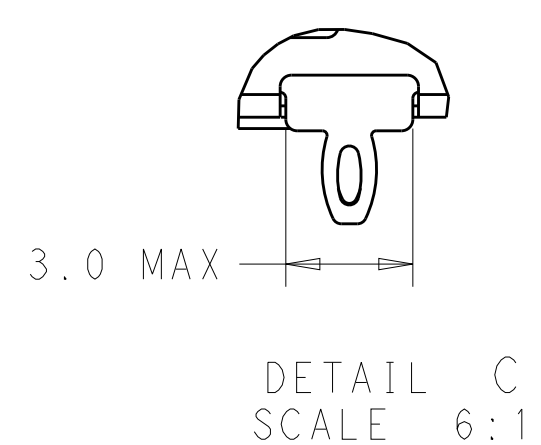
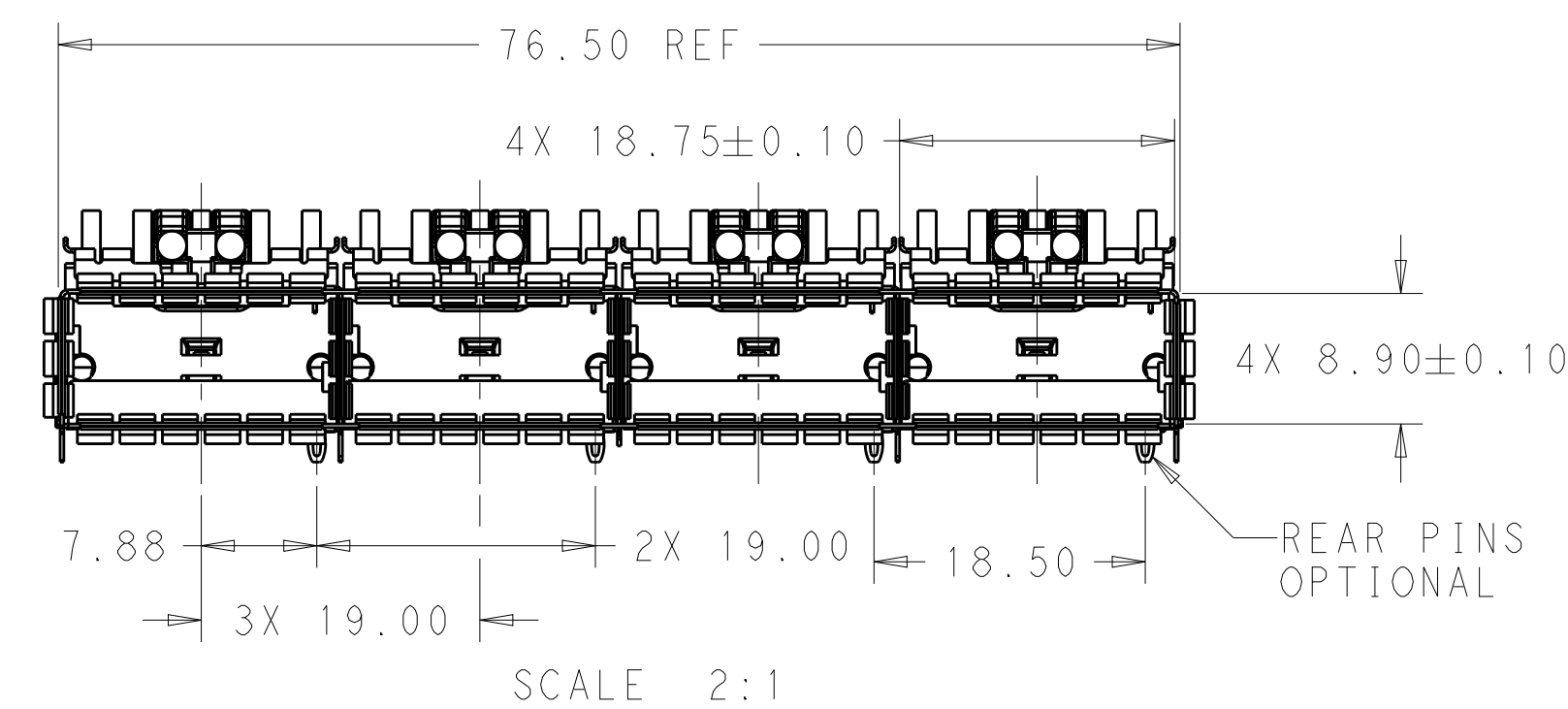
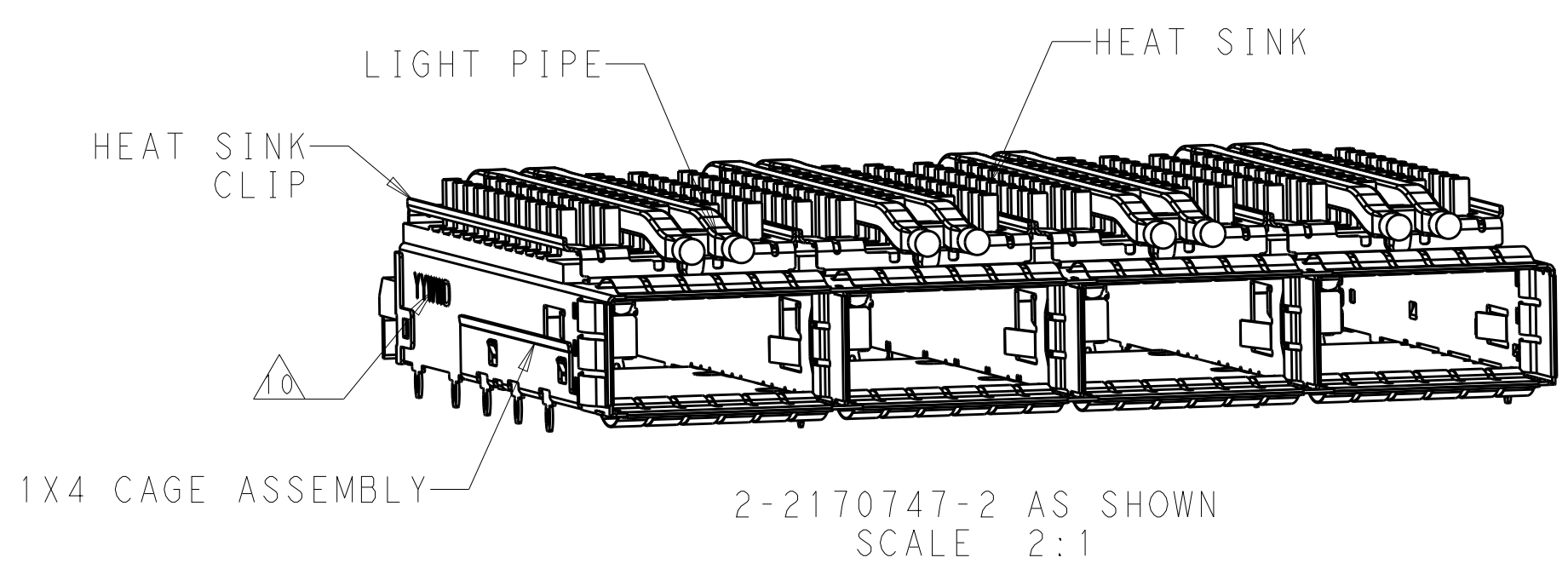
2-2170747-2 AS SHOWN

D

C

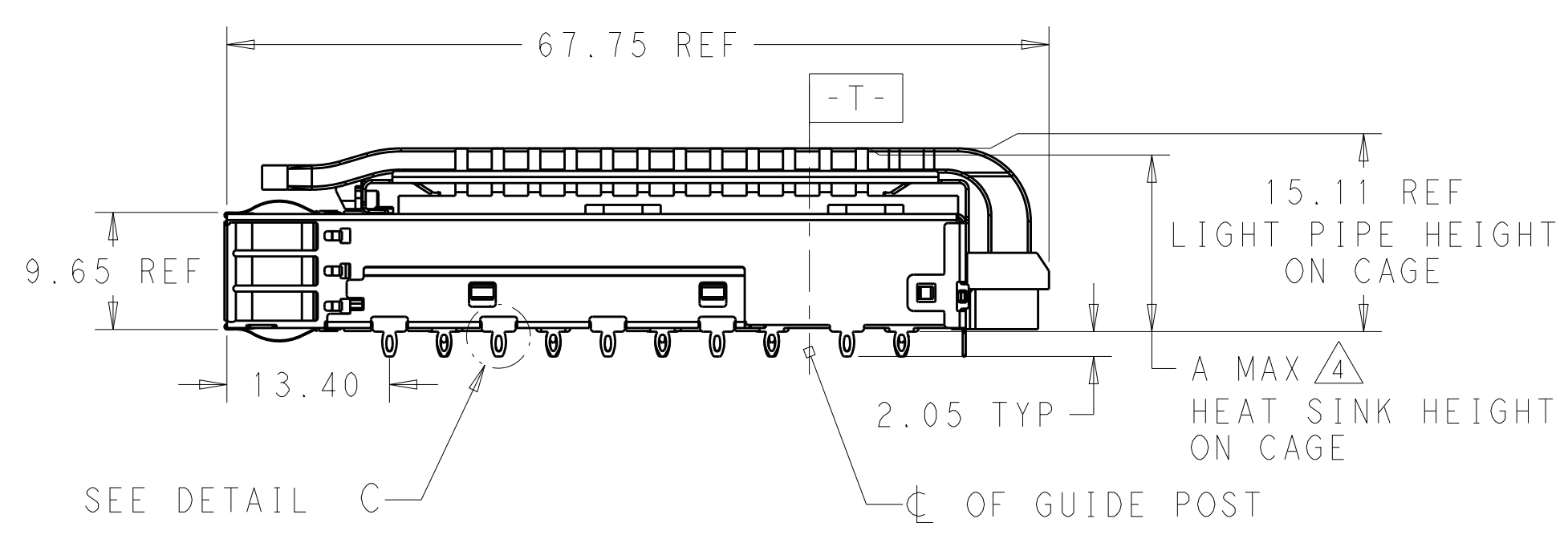
B

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.

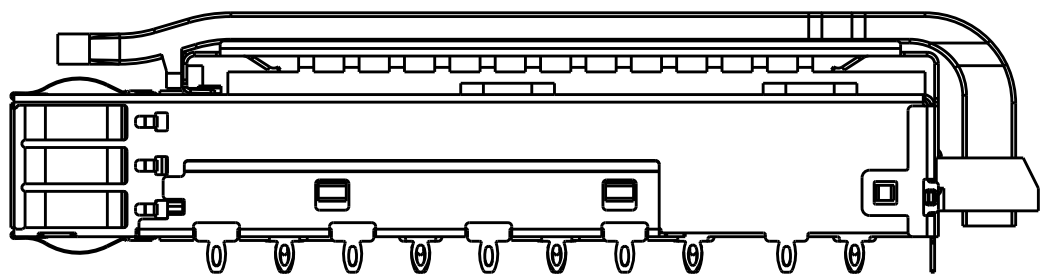
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASE	31OCT2016	JY	SH
	B	REVISED PER ECO-17-009888	07JUL2017	JY	SH
	C	REVISED PER ECO-18-012273	10JUL2018	JY	SH



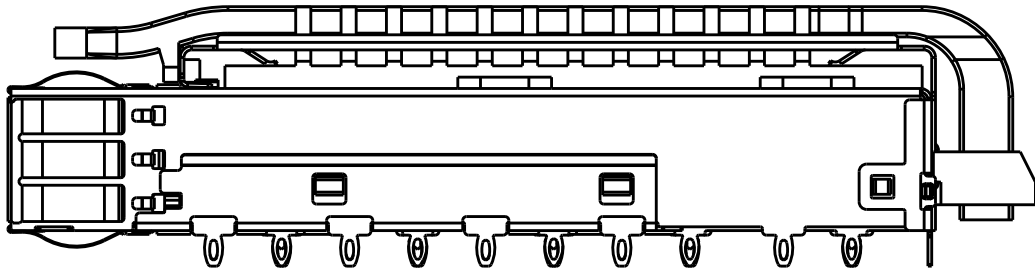
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		CHK 07JUN2014 SEAN HAN			
DIMENSIONS:		APVD -	NAME		
mm		PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY		
		108-19428	WITH HEAT SINKS AND LIGHT PIPES,		
		APPLICATION SPEC	THRU BEZEL, 1X4, QSFP28, SPRING		
MATERIAL		114-32023	SIZE	CAGE CODE	DRAWING NO
SEE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

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

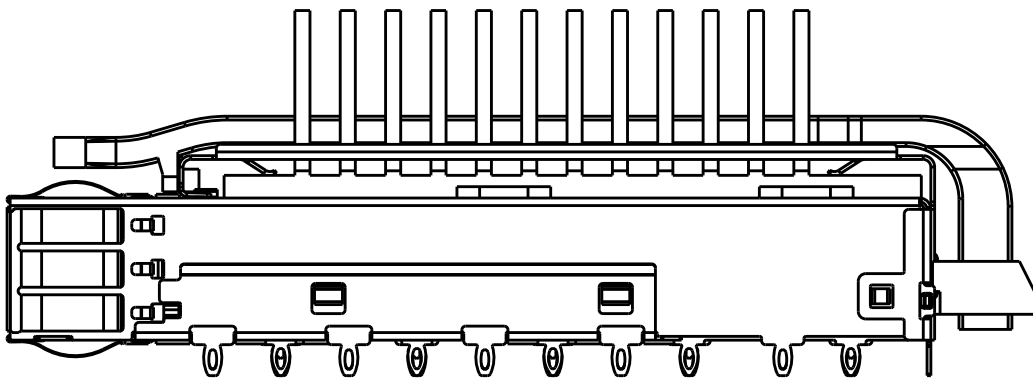
HEAT SINK OPTION



PCI HEAT SINK
SCALE 2:1

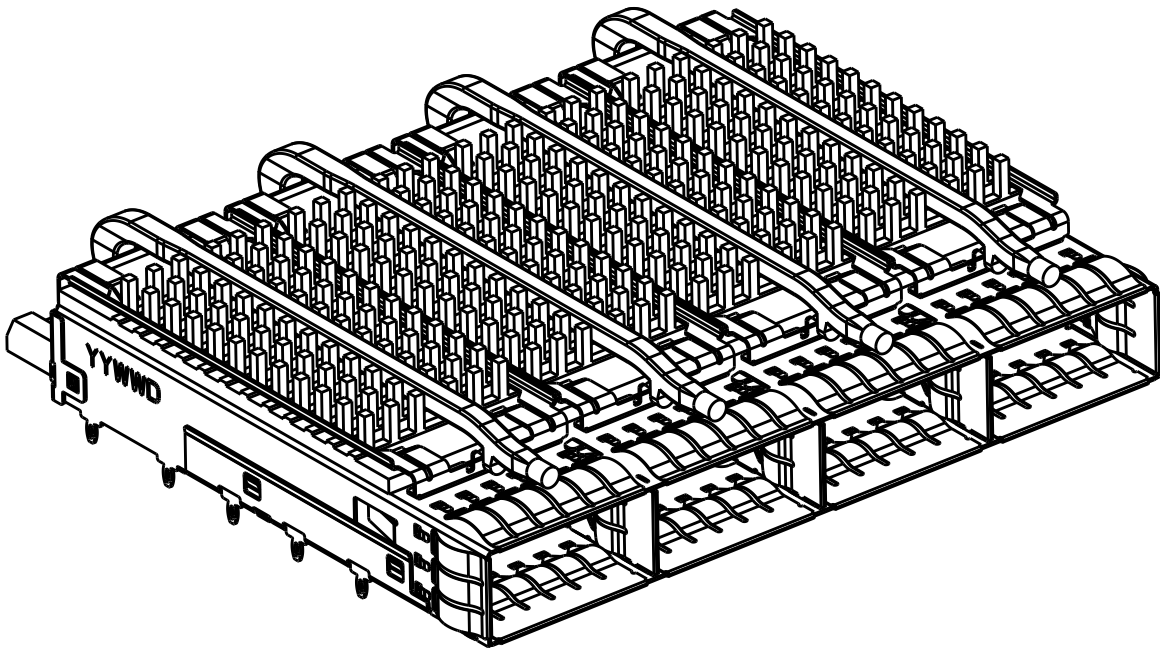


SAN HEAT SINK
SCALE 2:1

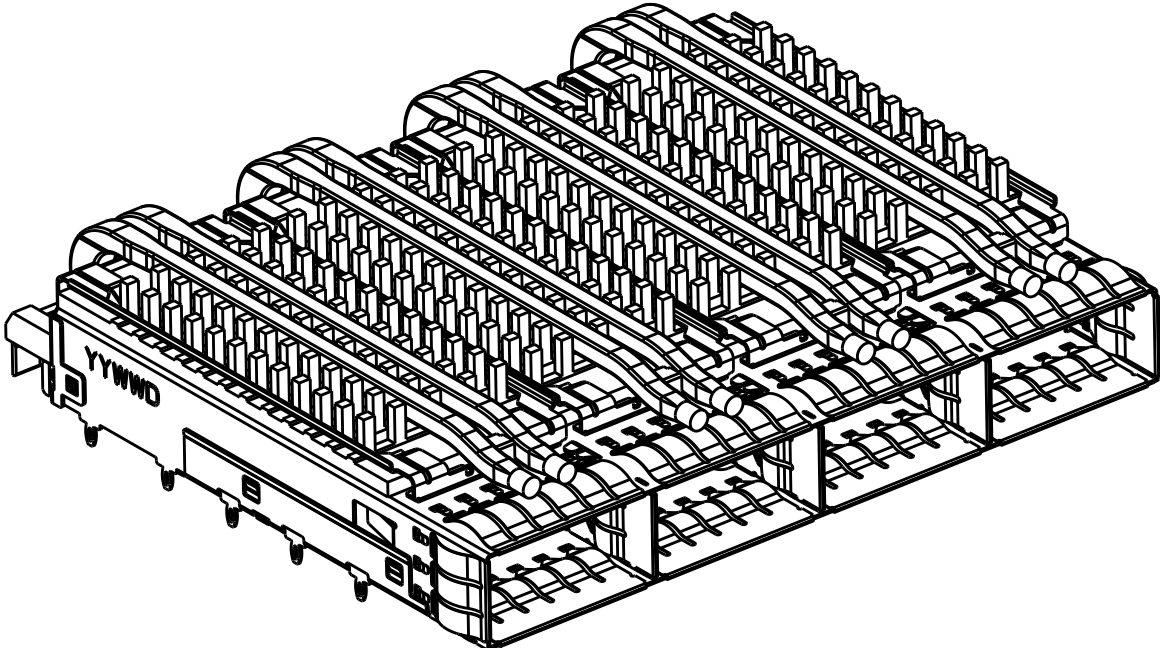


NETWORKING HEAT SINK
SCALE 2:1

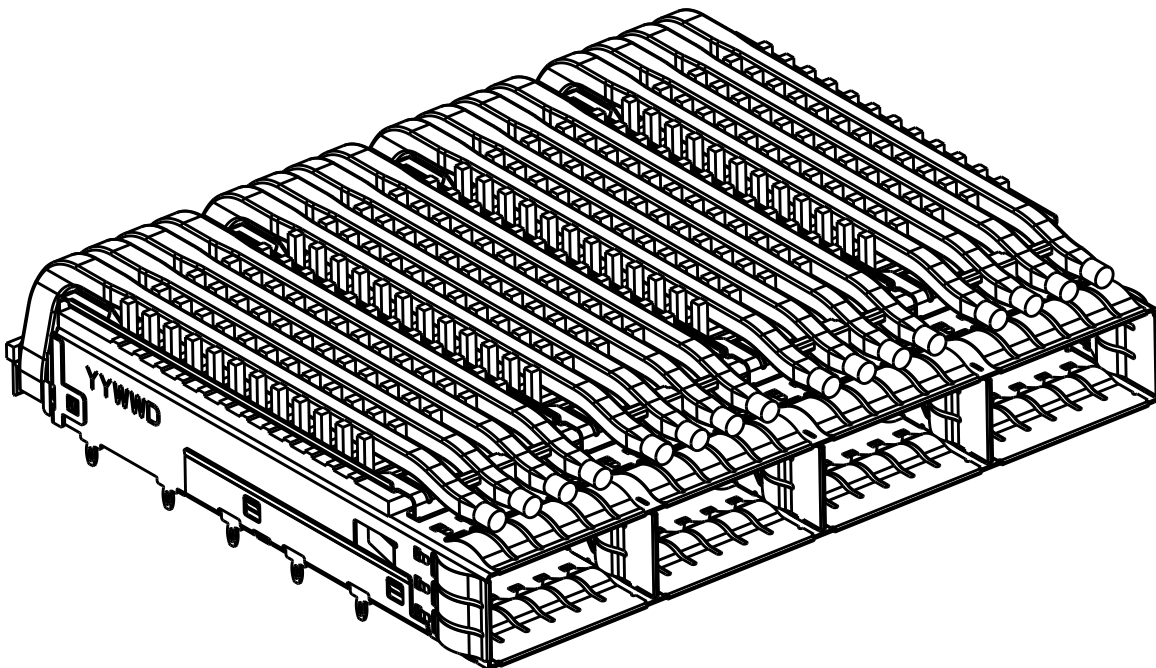
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 3:2

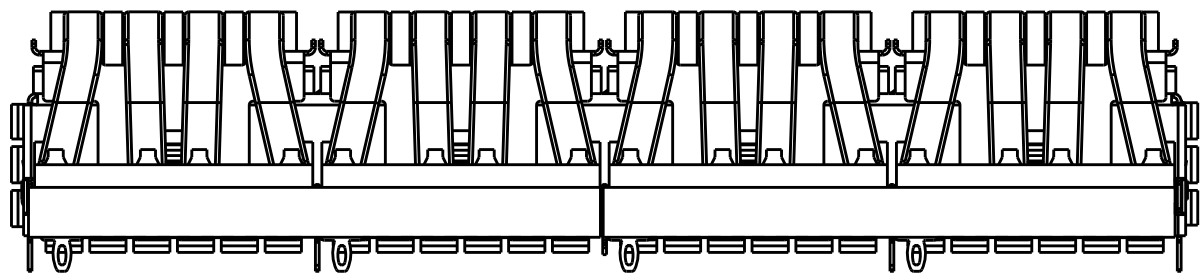


DUAL LIGHT PIPE
SCALE 3:2

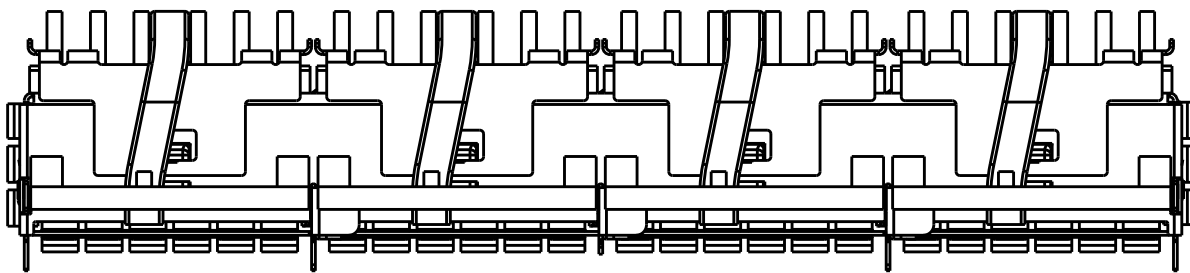


QUAD LIGHT PIPE
SCALE 3:2

OF REAR PIN OPTION



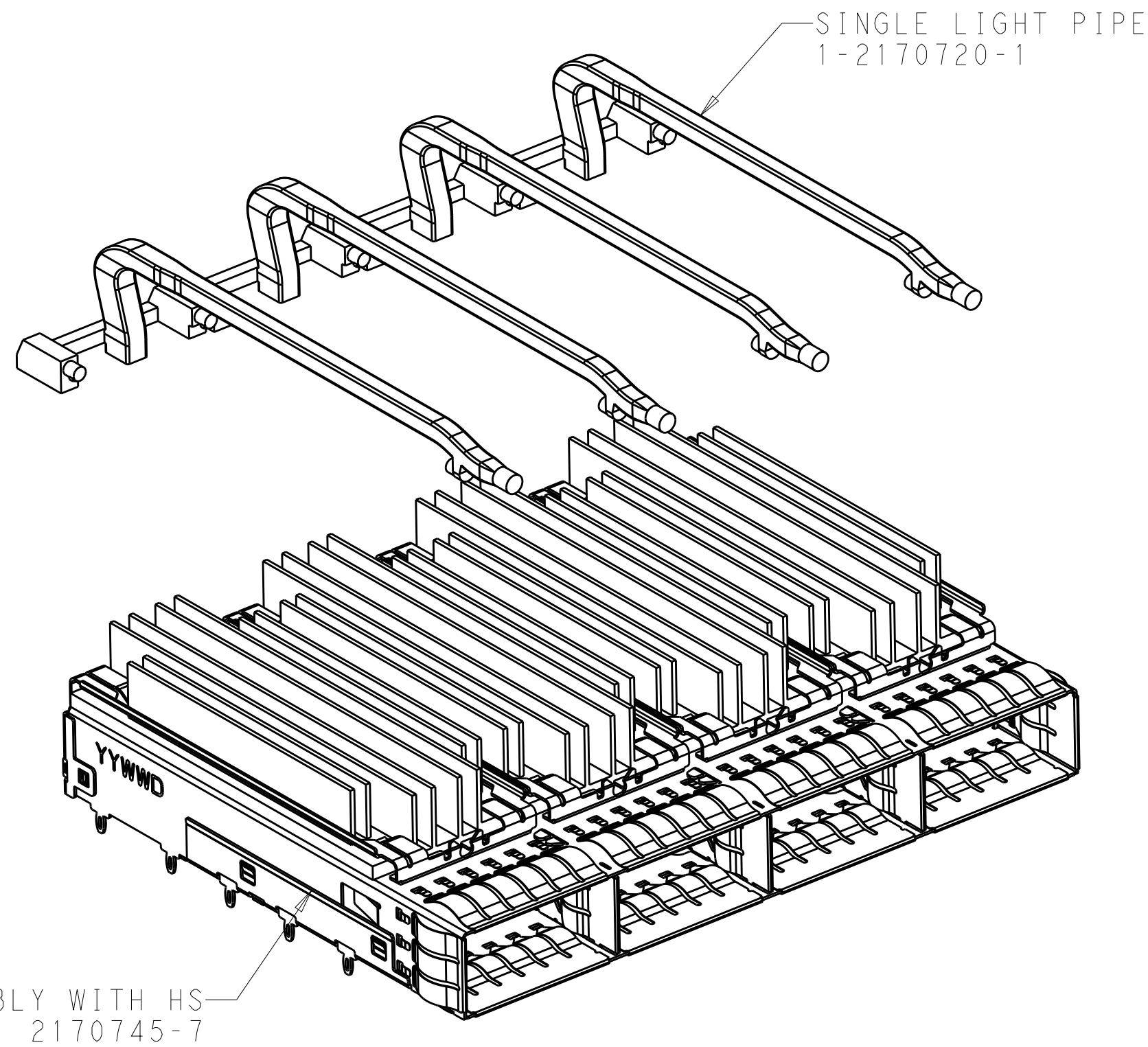
1 REAR PIN
SCALE 2:1



0 REAR PIN
SCALE 2:1

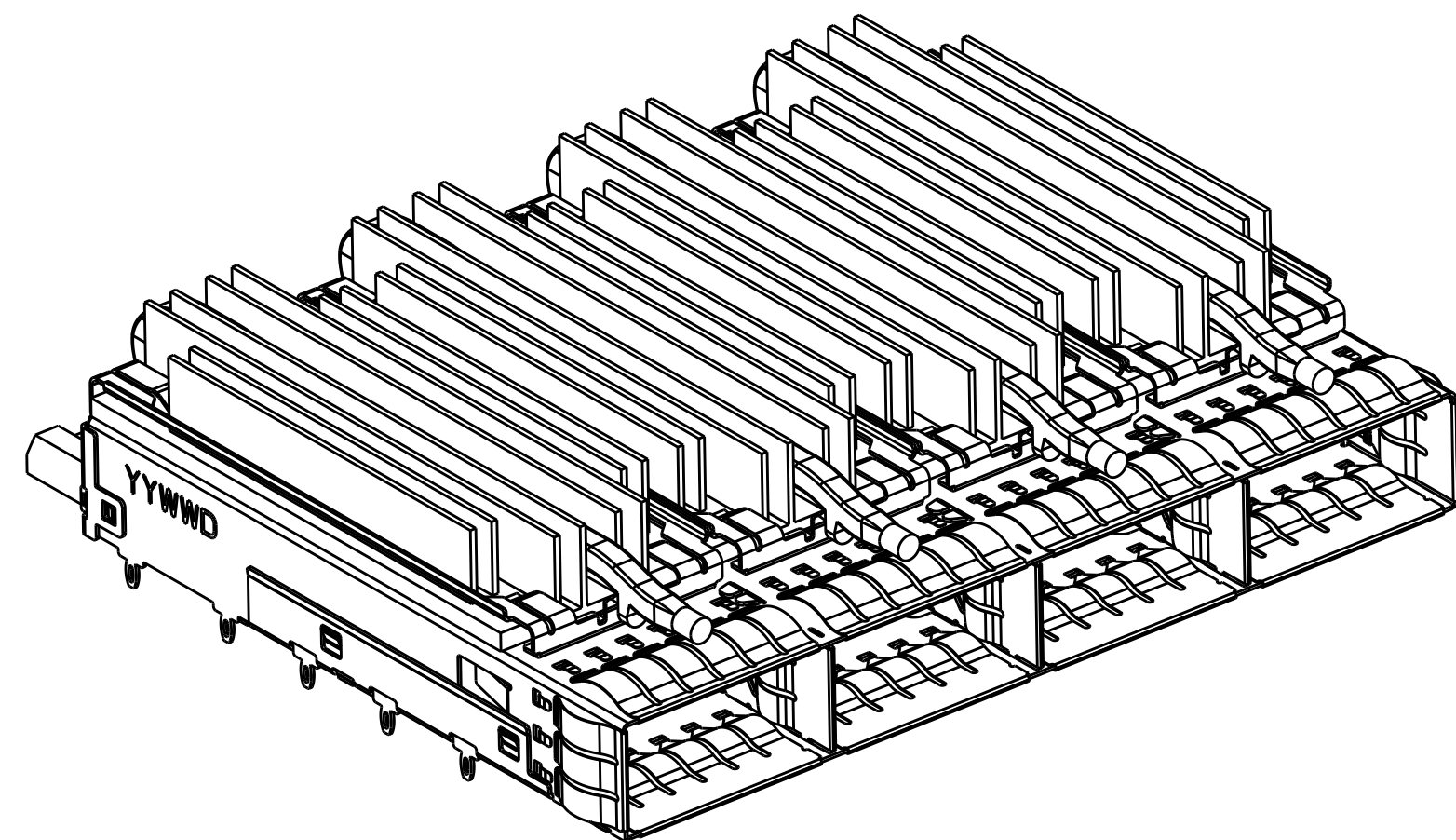
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity			
		CHK 07JUN2014 SEAN HAN				
DIMENSIONS:		APVD -	PRODUCT SPEC		NAME	
mm			108-19428		RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING	
			APPLICATION SPEC		SIZE	CAGE CODE
			114-32023		A200779	C-2170747
MATERIAL			WEIGHT		DRAWING NO	
SEE NOTES			-		RESTRICTED TO	
			CUSTOMER DRAWING		-	
					SCALE 1:1	SHEET 2 OF 13
					REV C	

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



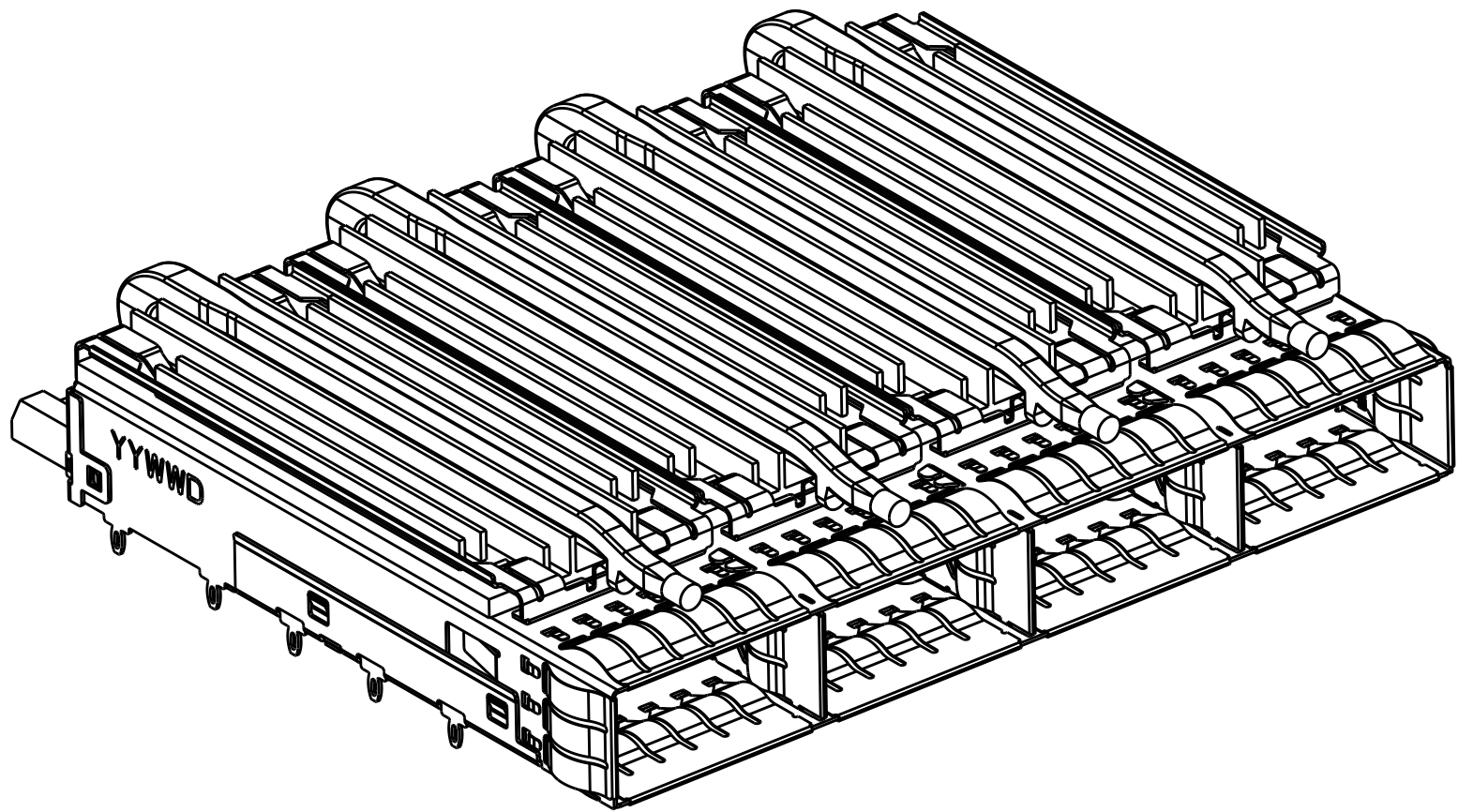
CAGE ASSEMBLY WITH HS
2170745-7

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

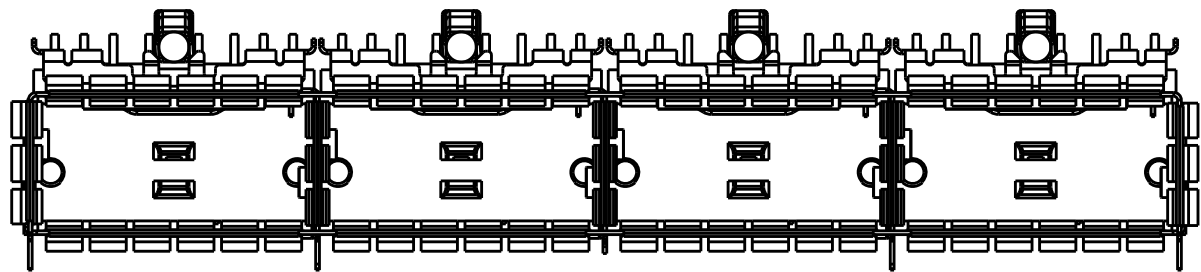


2170747-8 ASSEMBLED
ASSEMBLED AND PAKCAGED TOGETHER, CUSTOMIZED HEAT SINK
SCALE 2:1

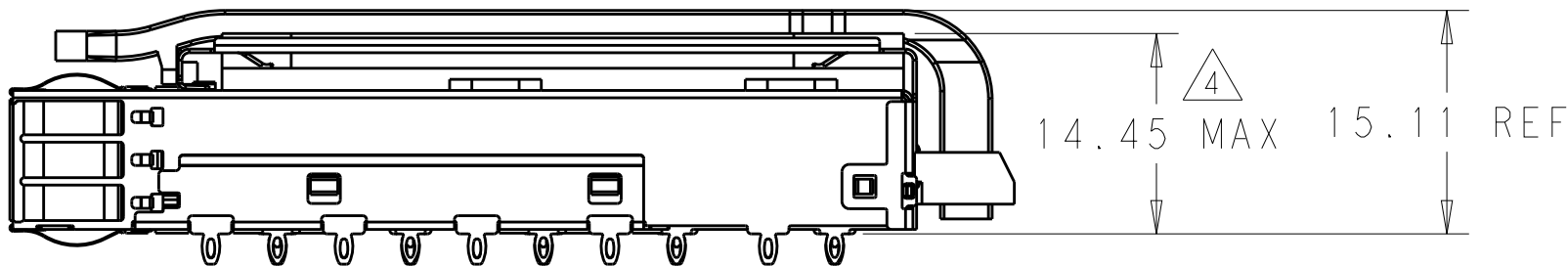
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 04JUN2014	TE Connectivity		
DIMENSIONS: mm		CHK SEAN HAN 07JUN2014			
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES,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



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

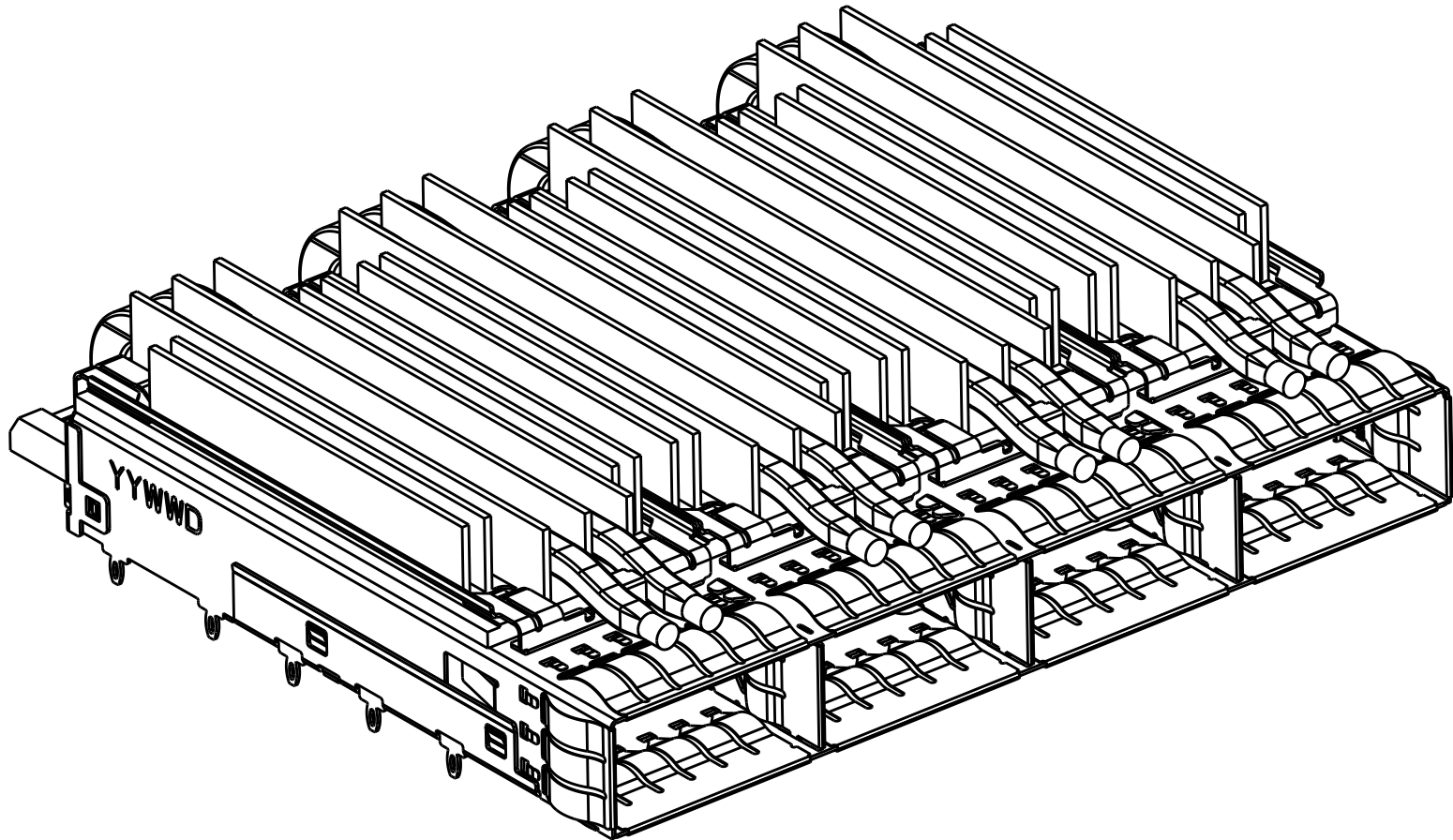


SCALE 2:1

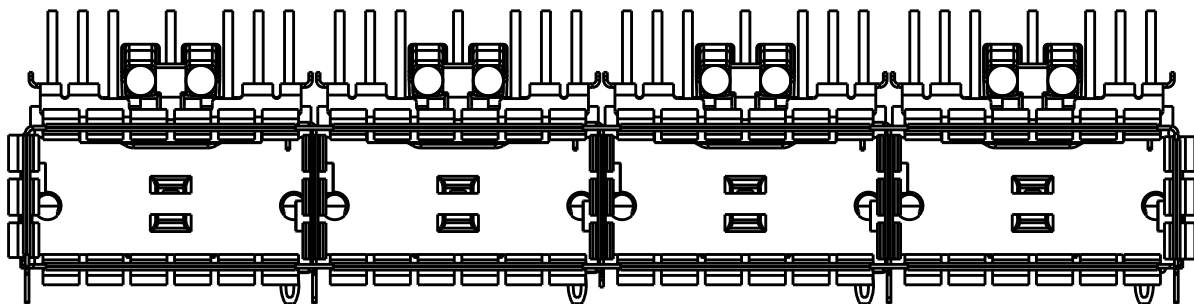


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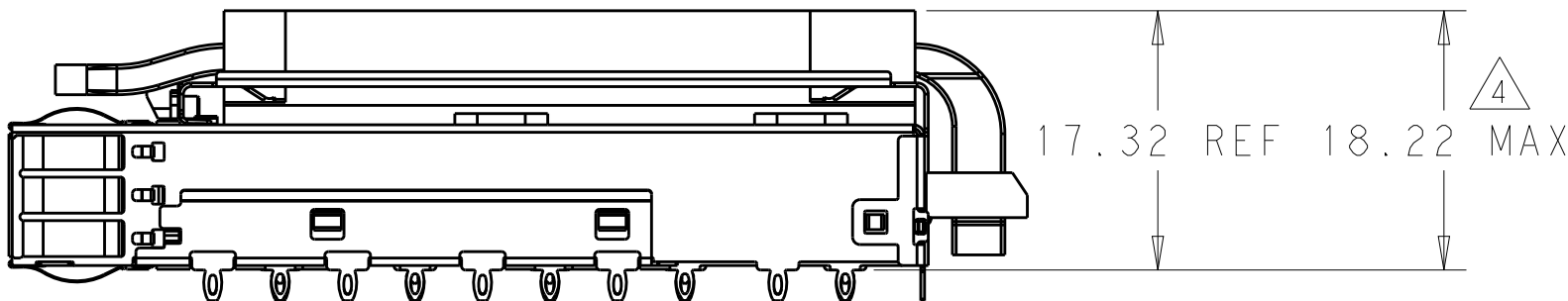
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



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

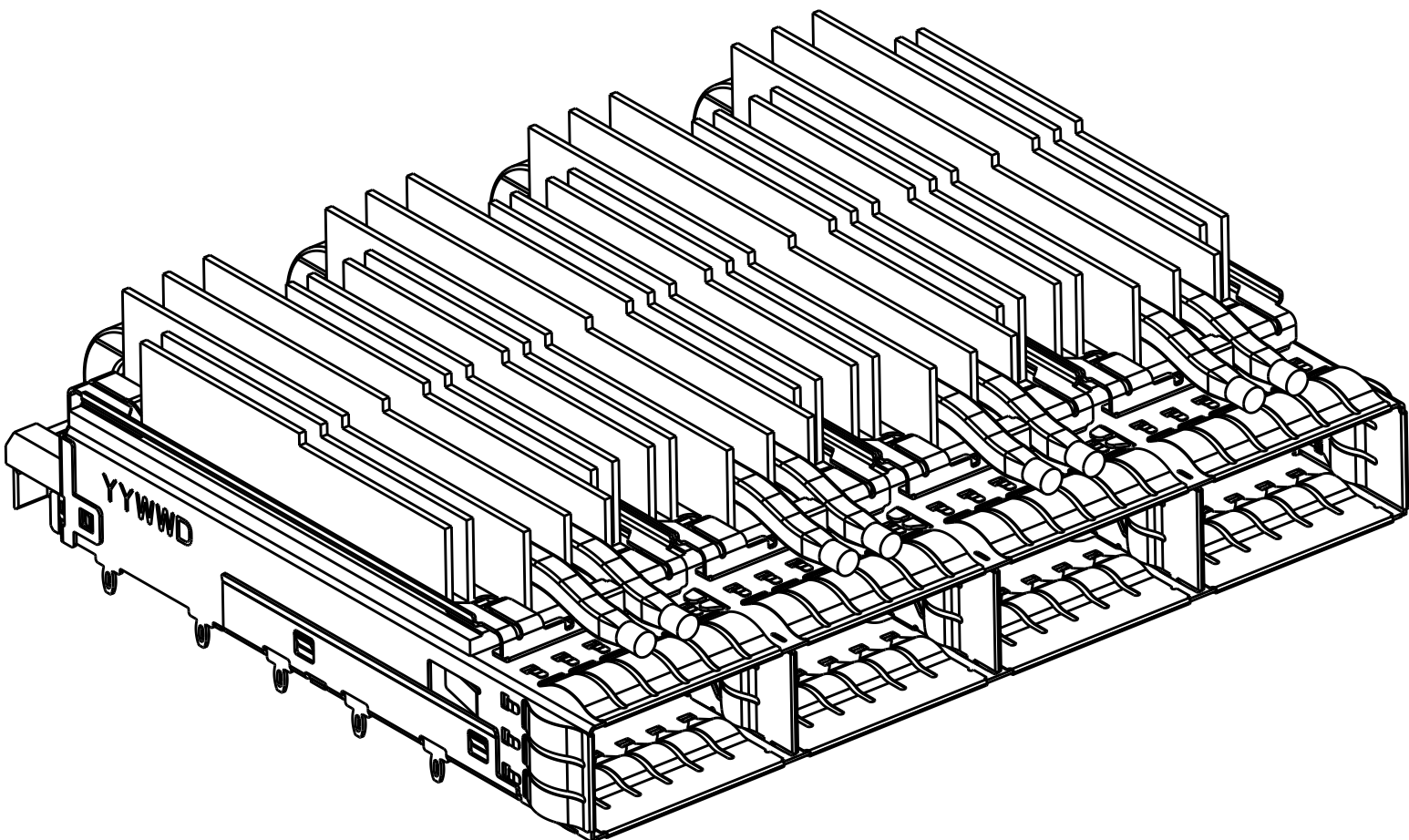


SCALE 2:1

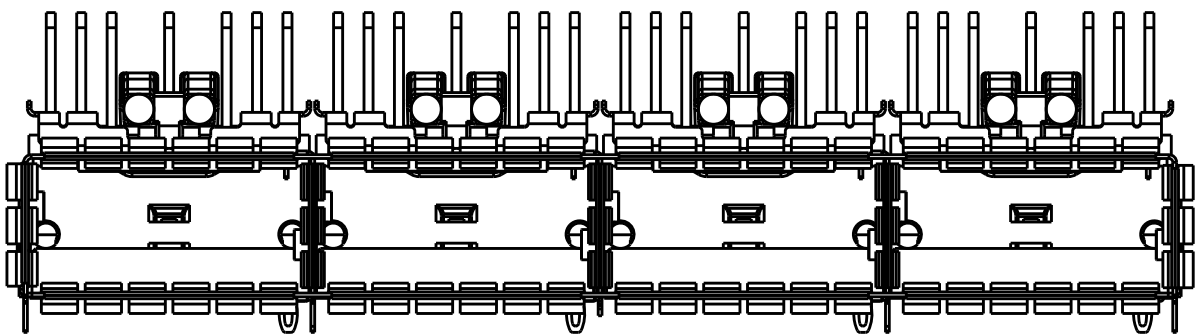


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		CHK 07JUN2014 SEAN HAN			
DIMENSIONS:		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
mm		PRODUCT SPEC 108-19428			
		APPLICATION SPEC 114-32023	SIZE	CAGE CODE	DRAWING NO
		WEIGHT -	A2	00779	C-2170747
MATERIAL SEE NOTES		FINISH SEE NOTES	RESTRICTED TO -		
CUSTOMER DRAWING			SCALE 1:1	SHEET 5 OF 13	REV C

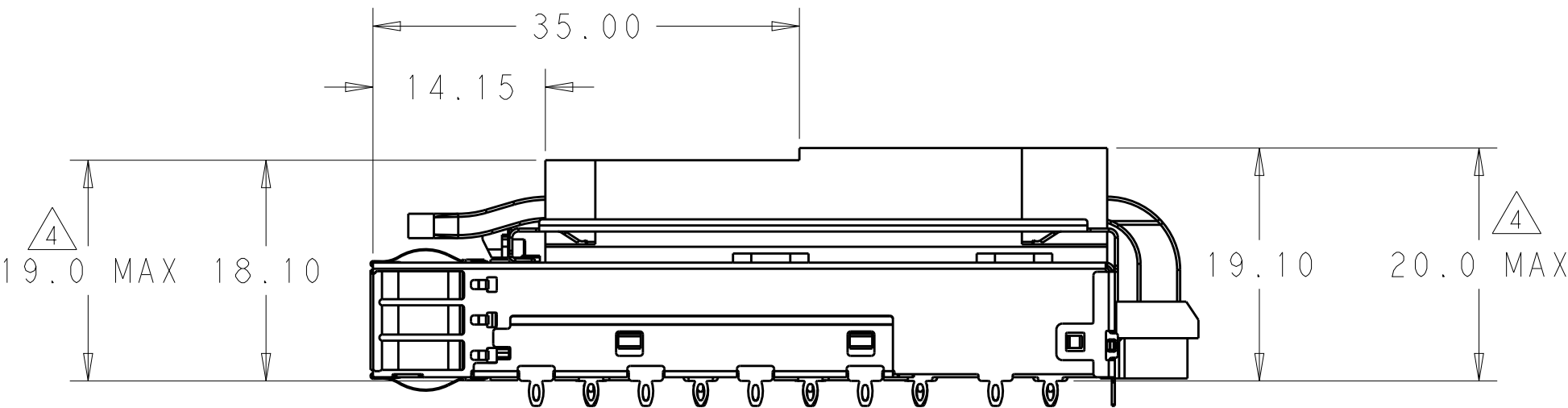
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



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



SCALE 2:1



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

4

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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

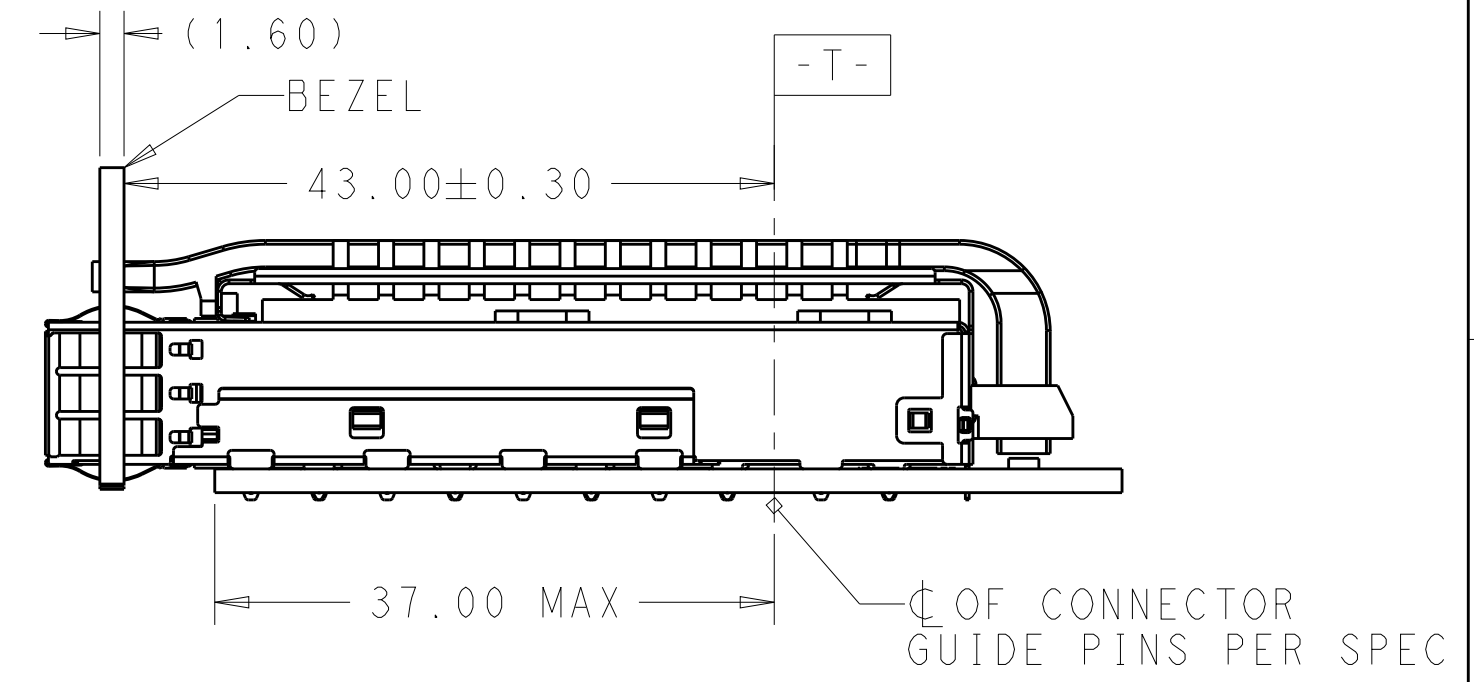
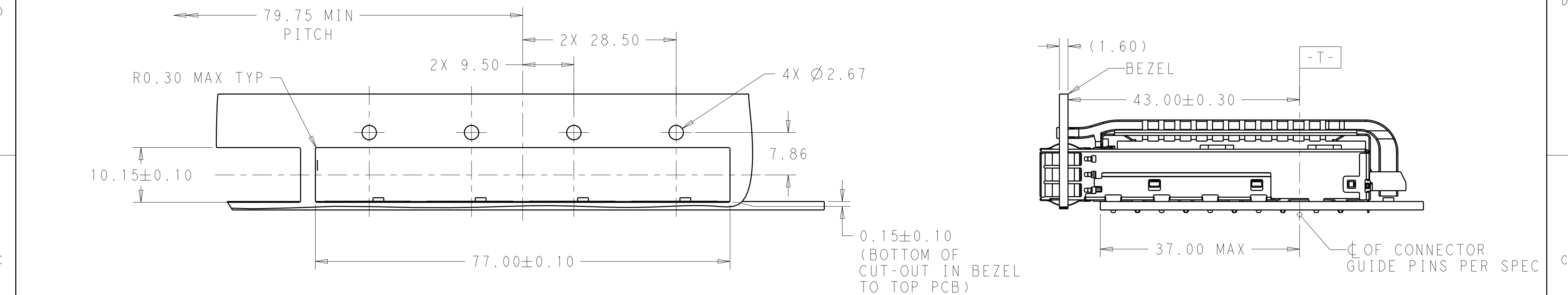
7 OF 13

REV

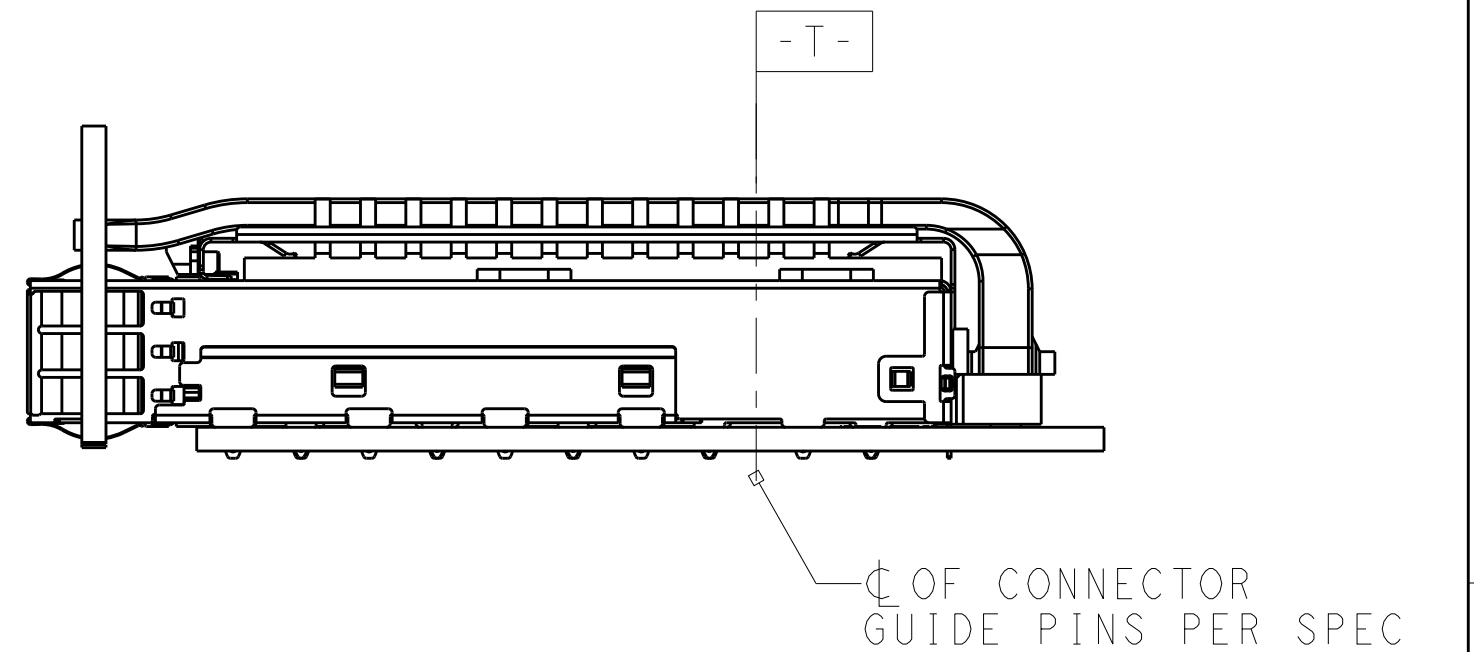
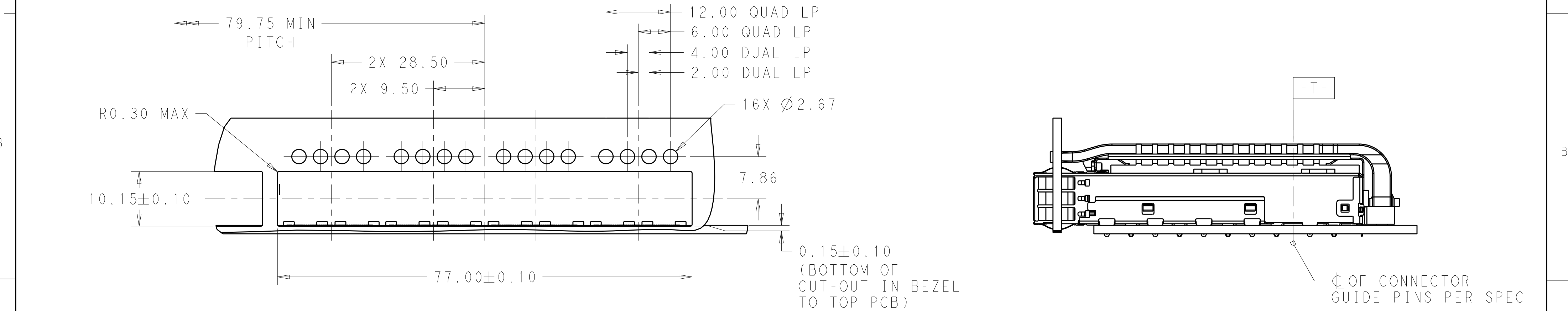
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1471-9 (3/13)

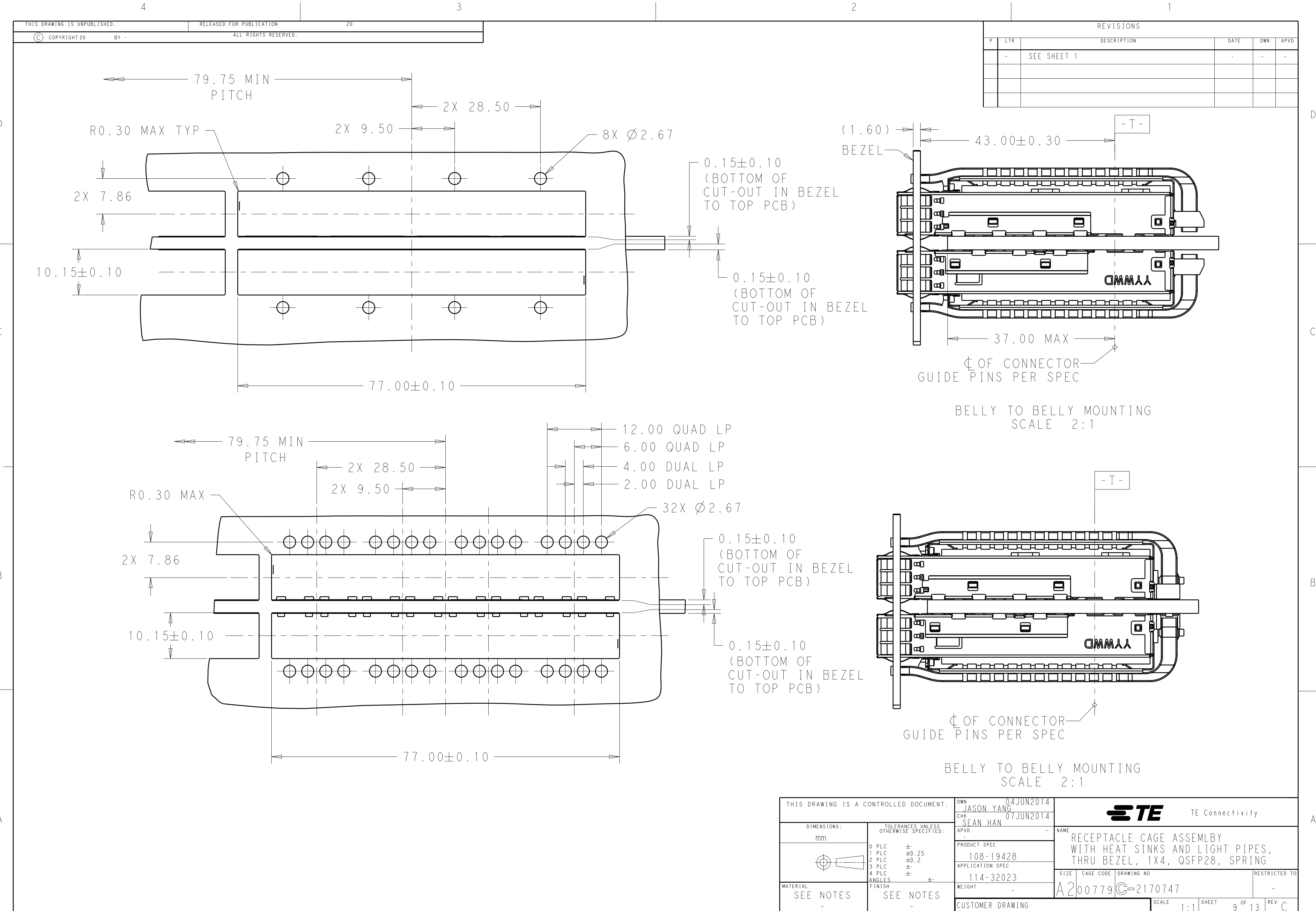
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-	-	SEE SHEET 1	-	-	-



SINGLE SIDE MOUNTING
SCALE 2:1



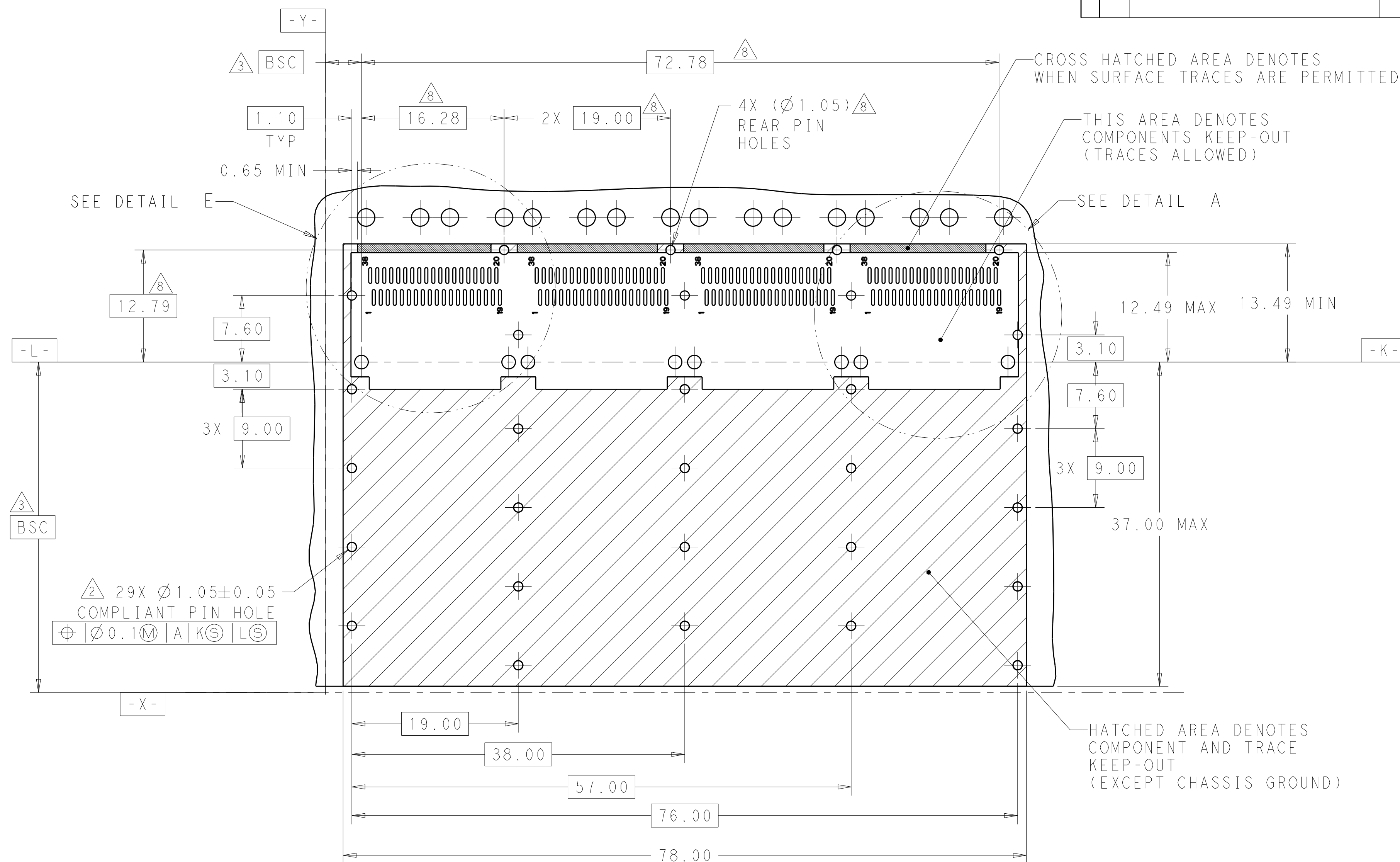
SINGLE SIDE MOUNTING
SCALE 2:1



REVISIONS					
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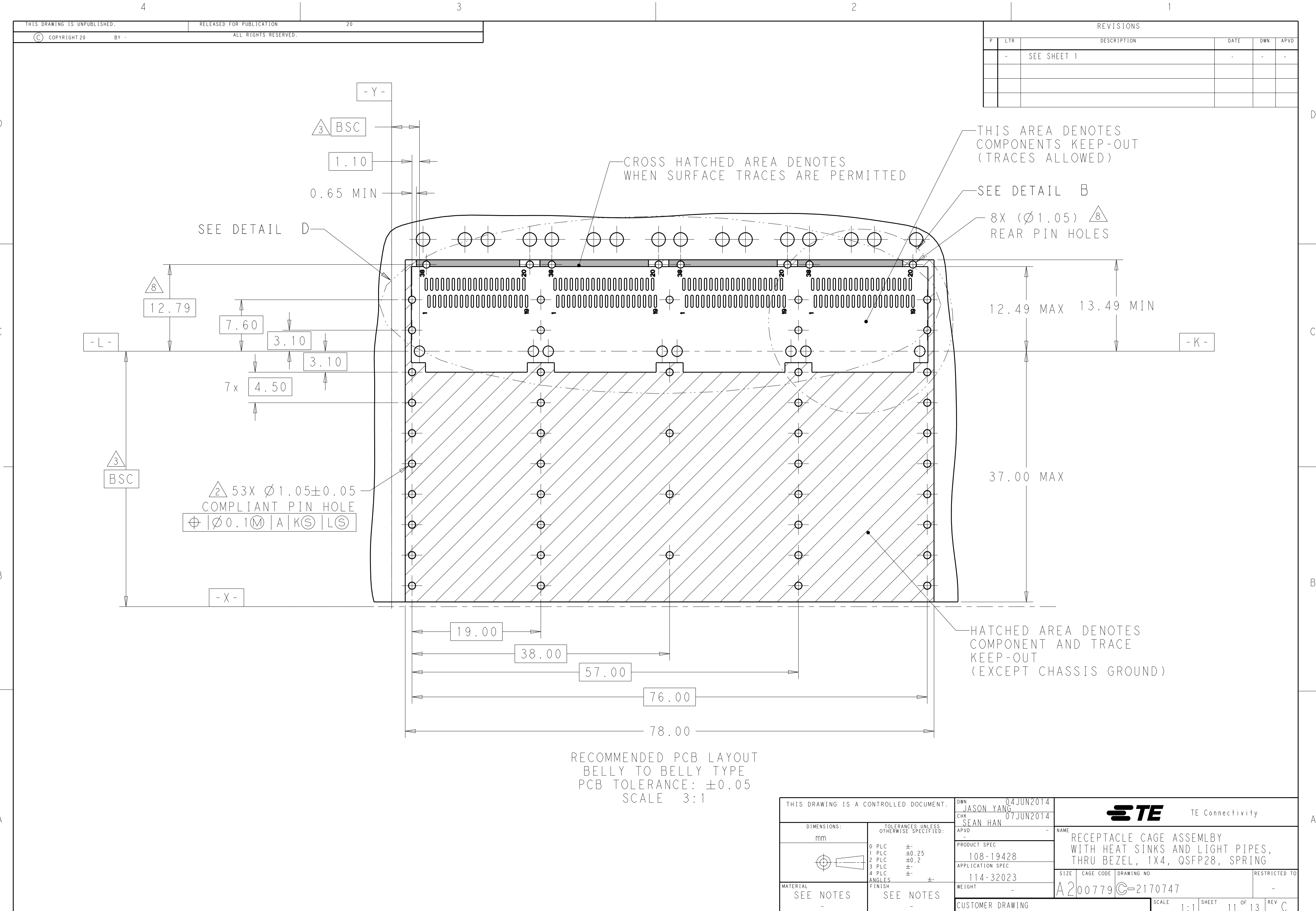
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		PRODUCT SPEC 108-19428		SIZE		CAGE CODE	DRAWING NO	RESTRICTED TO	
		APPLICATION SPEC 114-32023		A200779		C=2170747		-	
MATERIAL SEE NOTES		WEIGHT -		CUSTOMER DRAWING					
-		-		SCALE 1:1		SHEET 9 OF 13		REV C	

P	LTR	DESCRIPTION	DATE	DWN	AP
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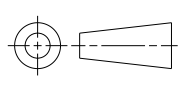


RECOMMENDED PCB LAYOUT
SINGLE TYPE
PCB TOLERANCE: ± 0.05
SCALE 3:1

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		CHK 07JUN2014 SEAN HAN					
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			
		APVD -					
MATERIAL SEE NOTES -		PRODUCT SPEC 108-19428		SIZE CAGE CODE DRAWING NO		RESTRICTED -	
		APPLICATION SPEC 114-32023		A2000779C-2170747			
SEE NOTES -		WEIGHT -		CUSTOMER DRAWING			SCALE 1:1 SHEET 10 OF 13 REV 0



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

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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	SIZE A200779	
		APPLICATION SPEC 114-32023		
MATERIAL SEE NOTES		WEIGHT -	DRAWING NO C-2170747	
		CUSTOMER DRAWING	RESTRICTED TO -	
		SCALE 1:1		SHEET 11 OF 13
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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

D

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C

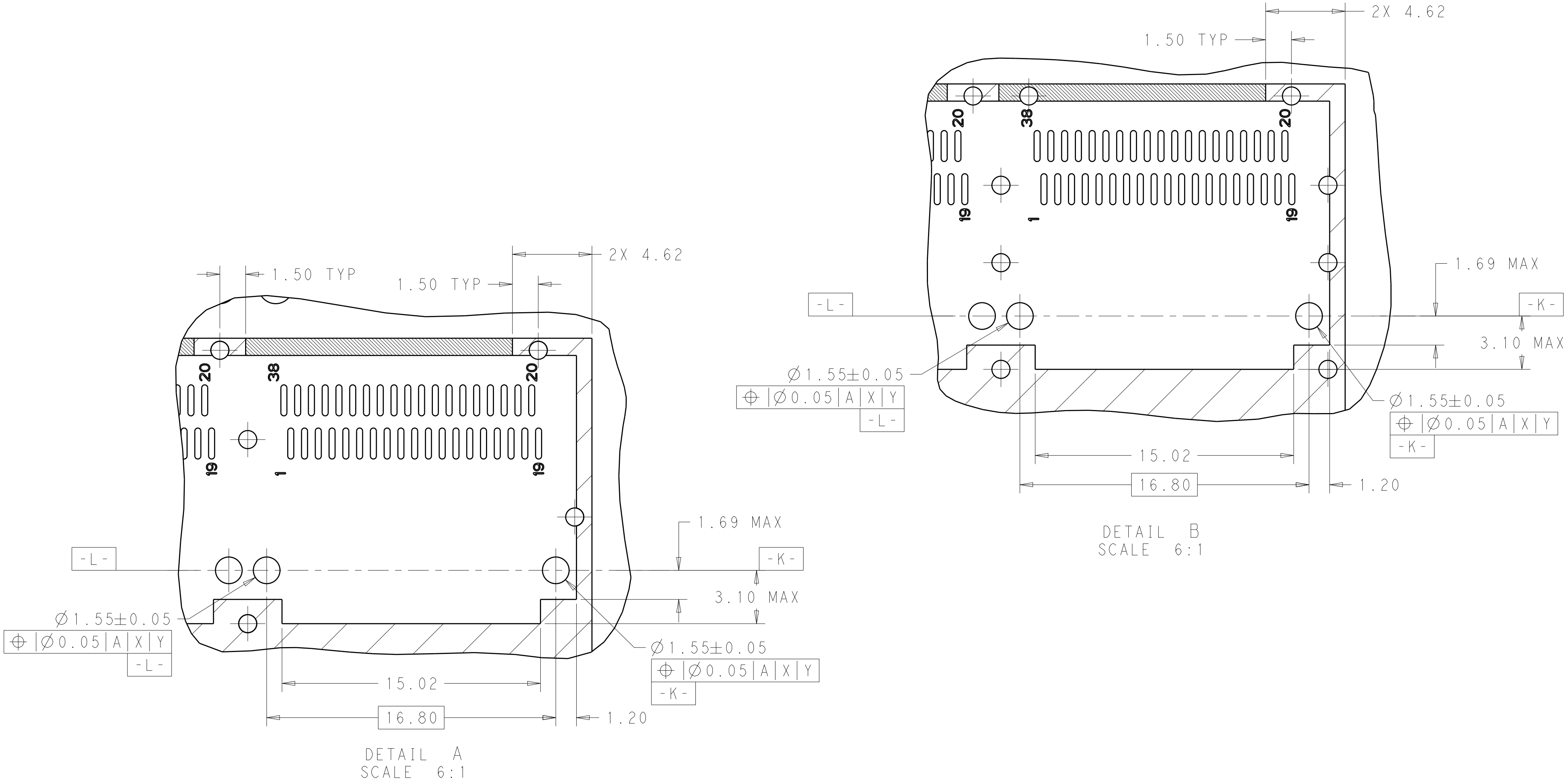
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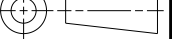
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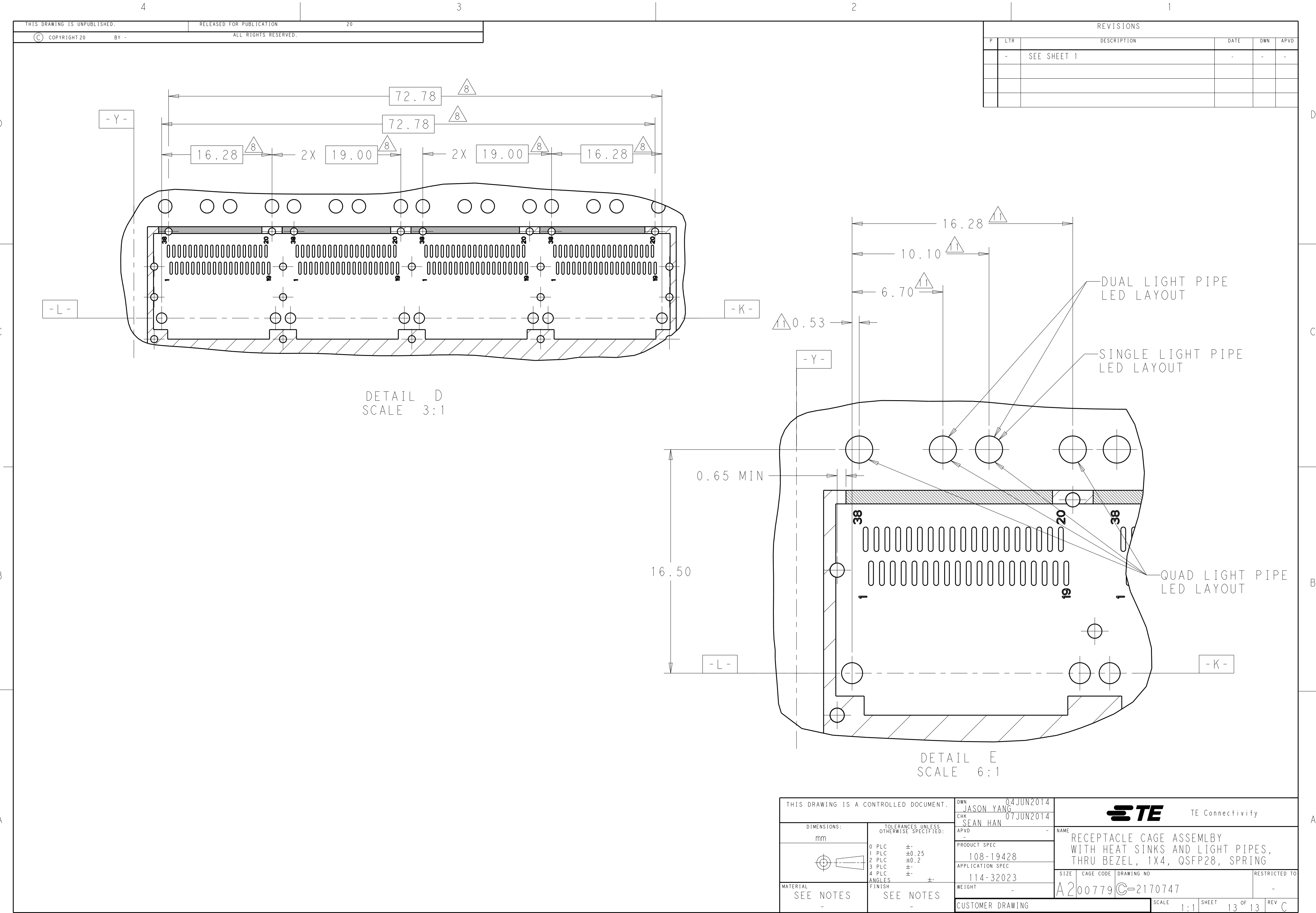
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		CHK 07JUN2014 SEAN HAN								
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME		RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING				
		0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH ±	APVD - PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023	SIZE A200779						CAGE CODE C-2170747
MATERIAL SEE NOTES		WEIGHT -		CUSTOMER DRAWING		SCALE 1:1	SHEET 12 OF 13	REV C		
SEE NOTES		SEE NOTES								



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