

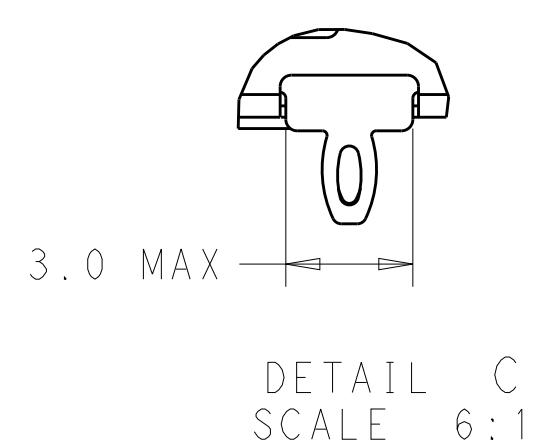
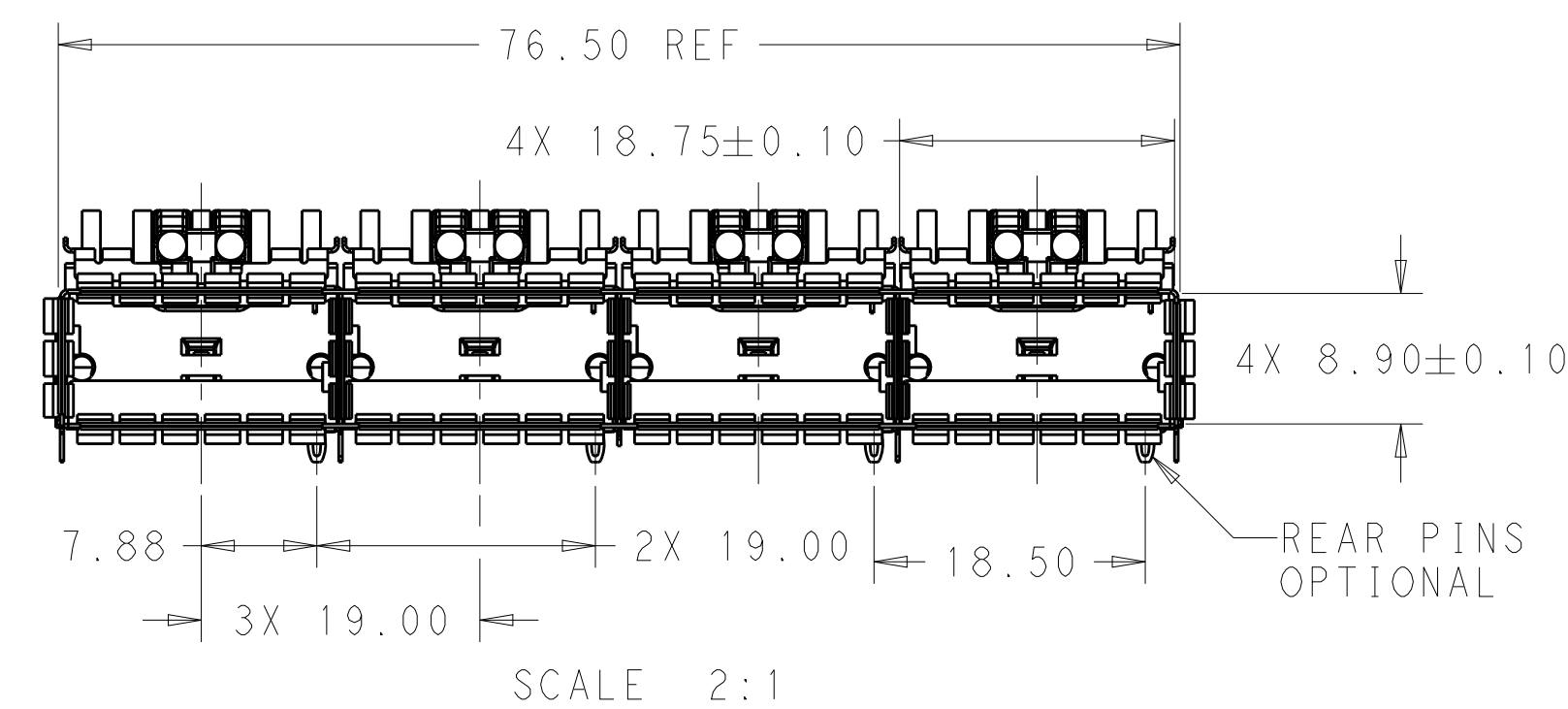
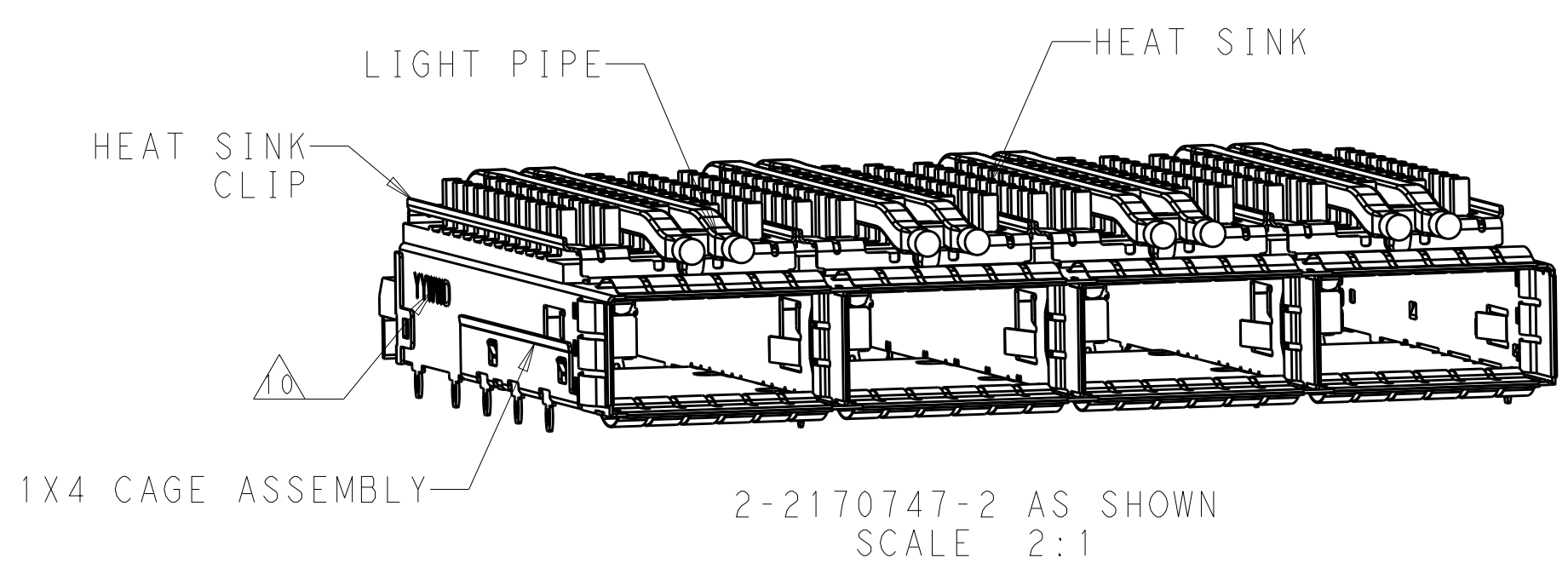
2-2170747-2 AS SHOWN

D

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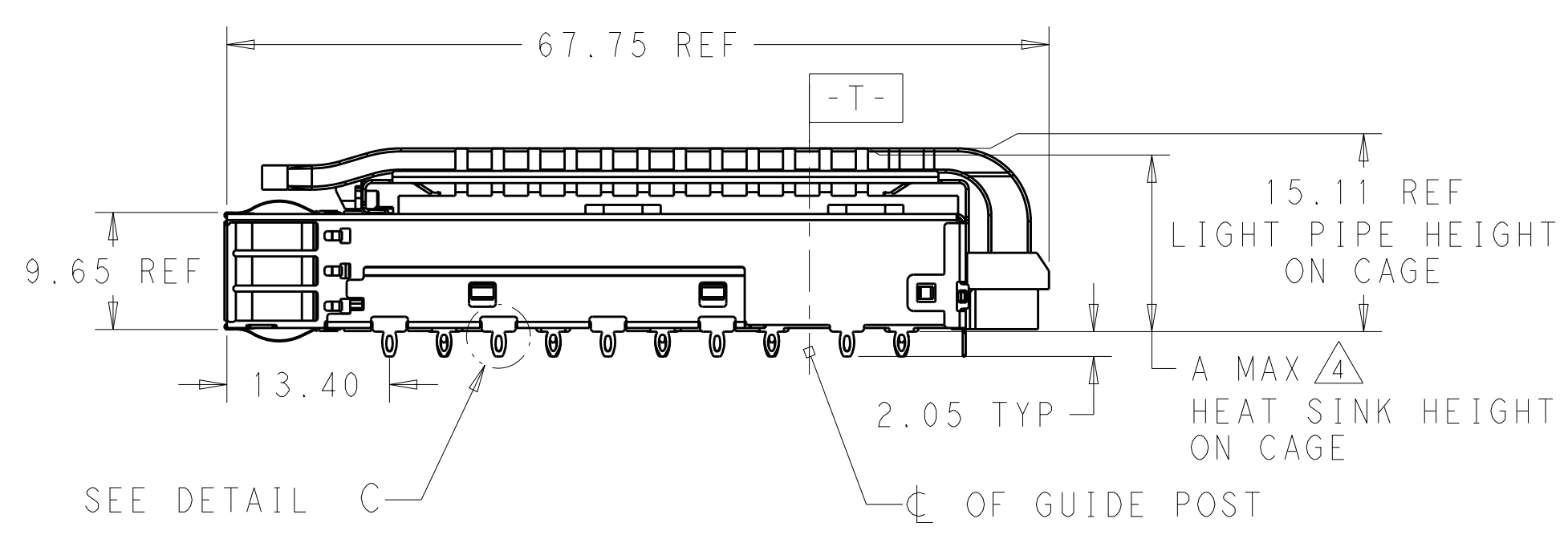
B

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.

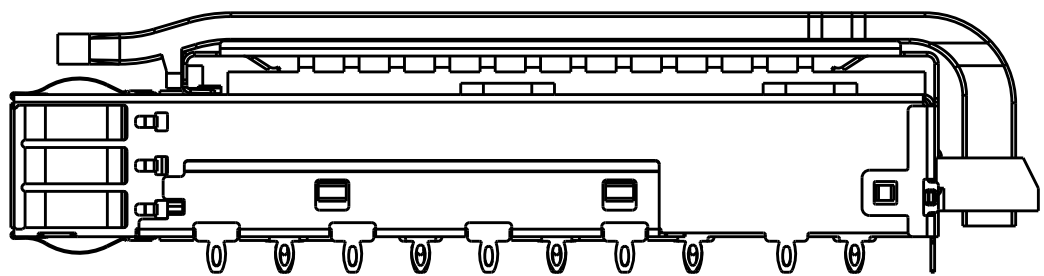
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	B	REVISED PER ECO-17-009888	07JUL2017	JY	SH
	C	REVISED PER ECO-18-012273	10JUL2018	JY	SH



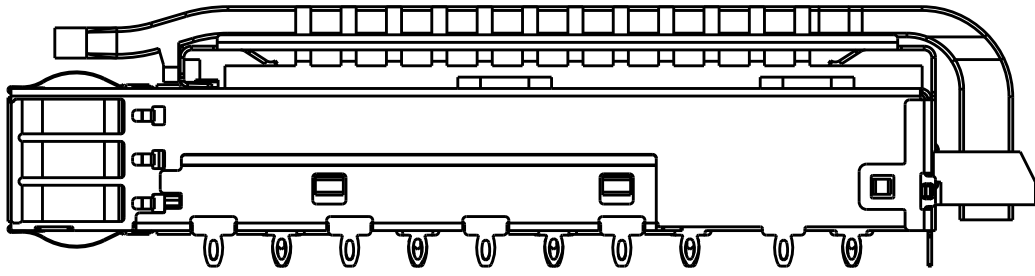
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity		
		CHK 07JUN2014 SEAN HAN			
DIMENSIONS:		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
mm		PRODUCT SPEC 108-19428			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC 114-32023	SIZE A200779		
0 PLC ±-		WEIGHT -			
1 PLC ±0.25		CUSTOMER DRAWING	DRAWING NO C-2170747		
2 PLC ±0.2		SCALE 1:1	SHEET 1 OF 13		
3 PLC ±-		REV C			
4 PLC ±-					
ANGLES ±-					
FINISH					
MATERIAL SEE NOTES					
SEE NOTES					

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

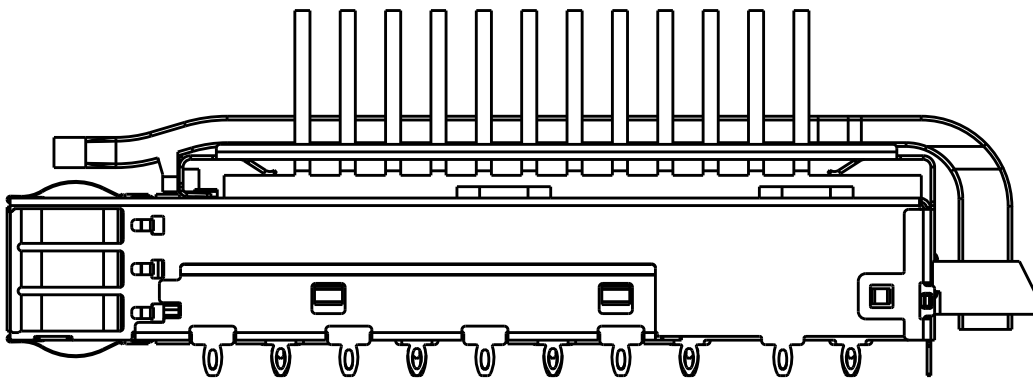
HEAT SINK OPTION



PCI HEAT SINK
SCALE 2:1

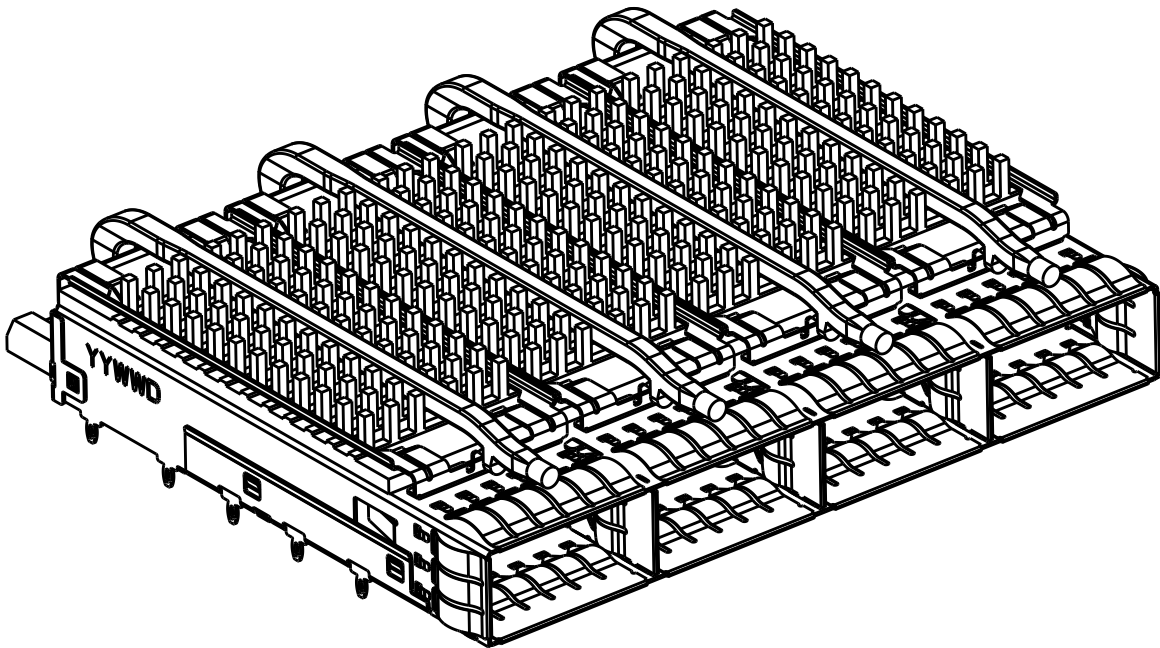


SAN HEAT SINK
SCALE 2:1

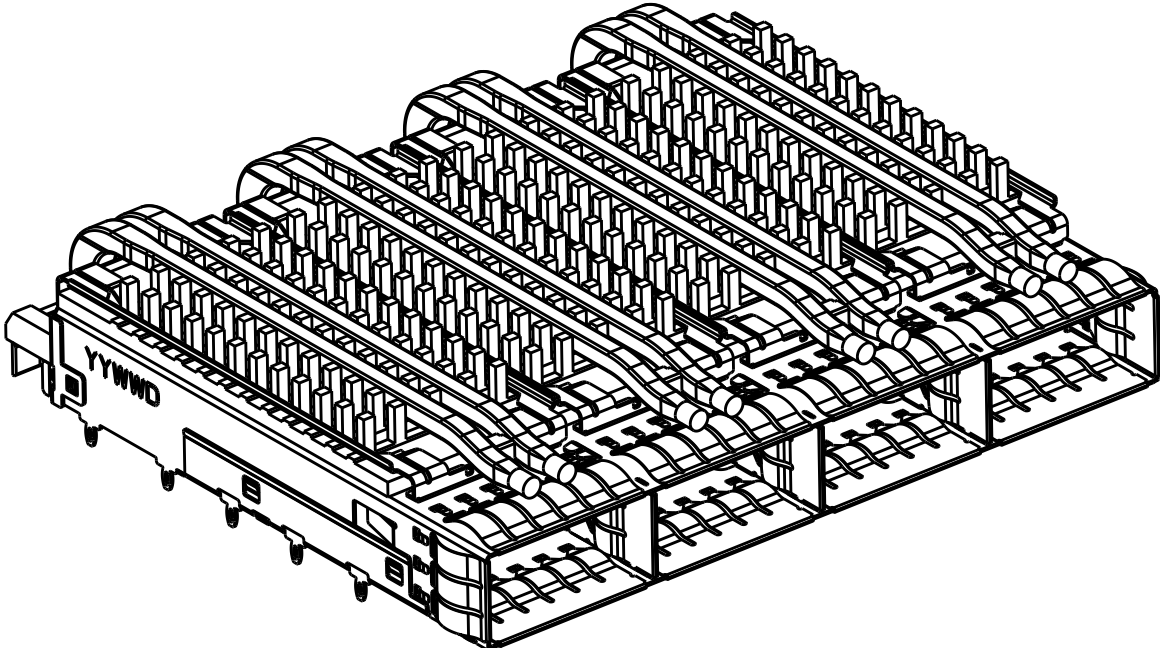


NETWORKING HEAT SINK
SCALE 2:1

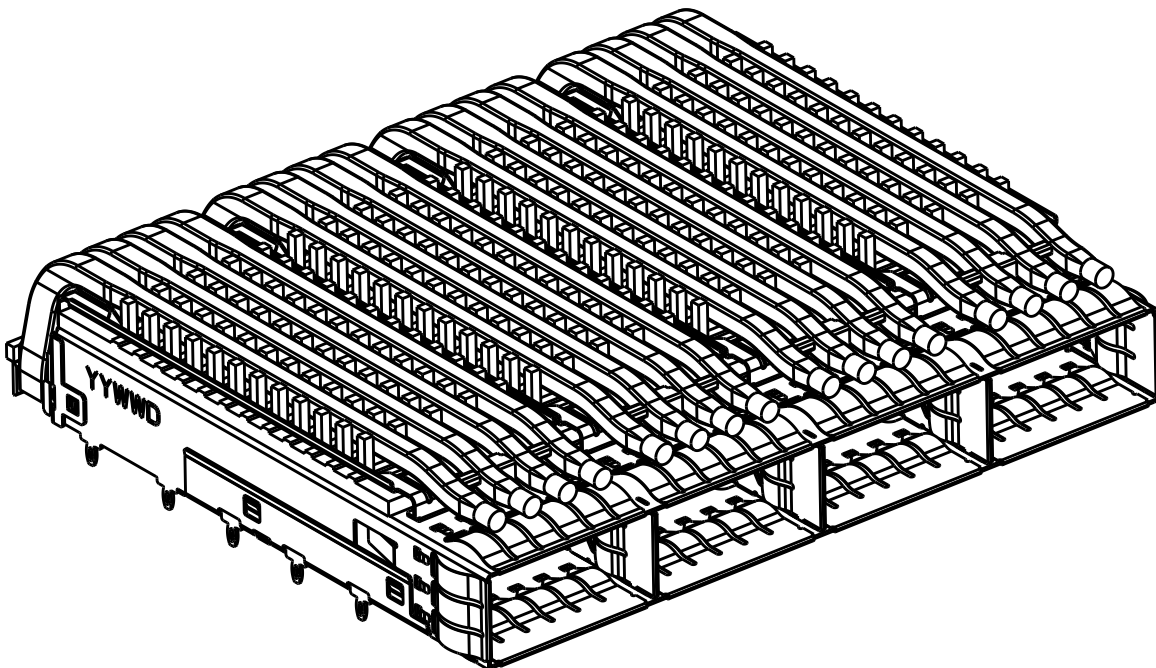
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 3:2

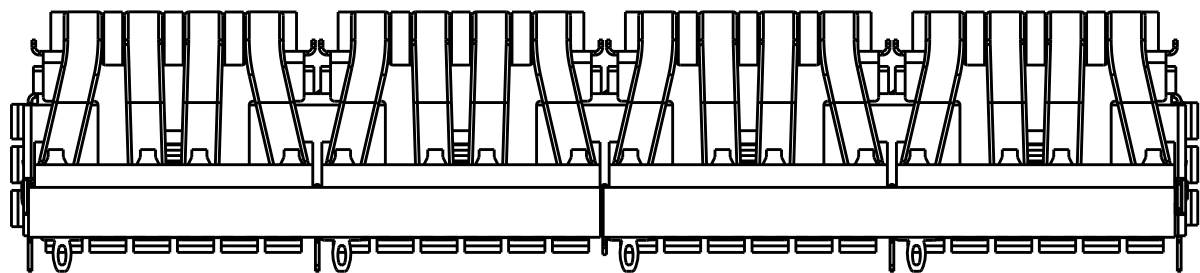


DUAL LIGHT PIPE
SCALE 3:2

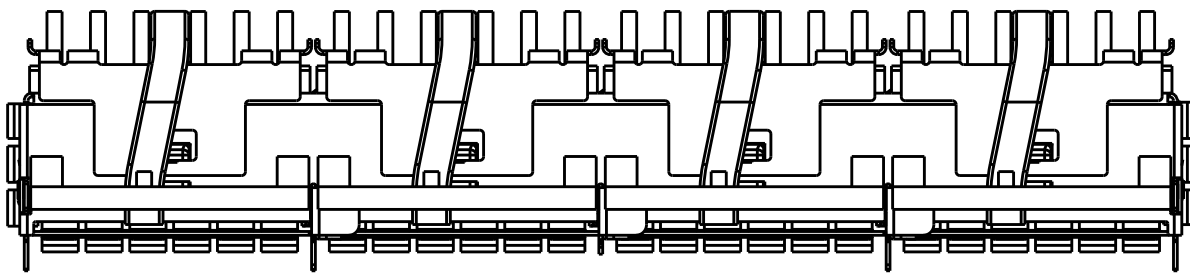


QUAD LIGHT PIPE
SCALE 3:2

OF REAR PIN OPTION



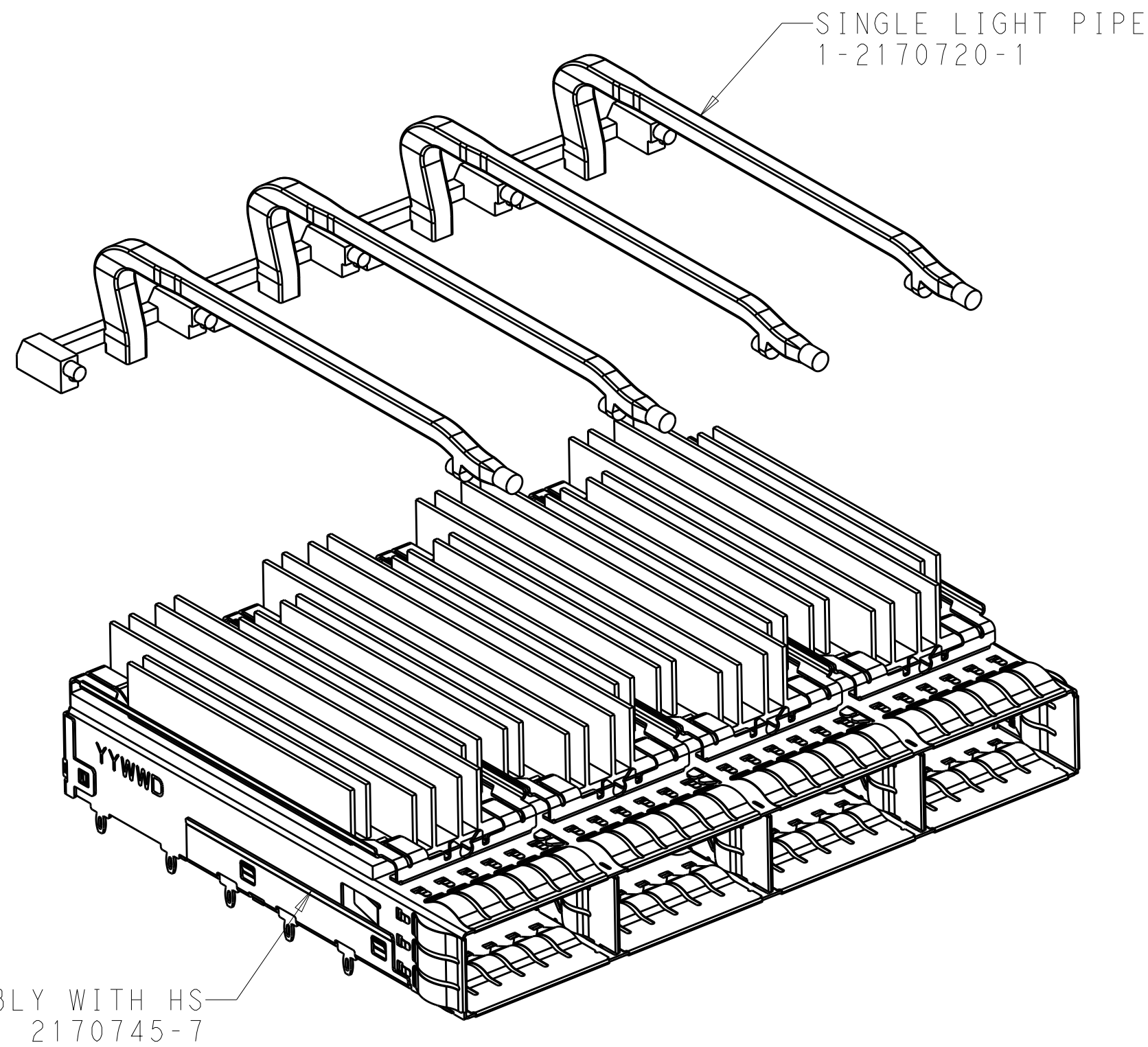
1 REAR PIN
SCALE 2:1



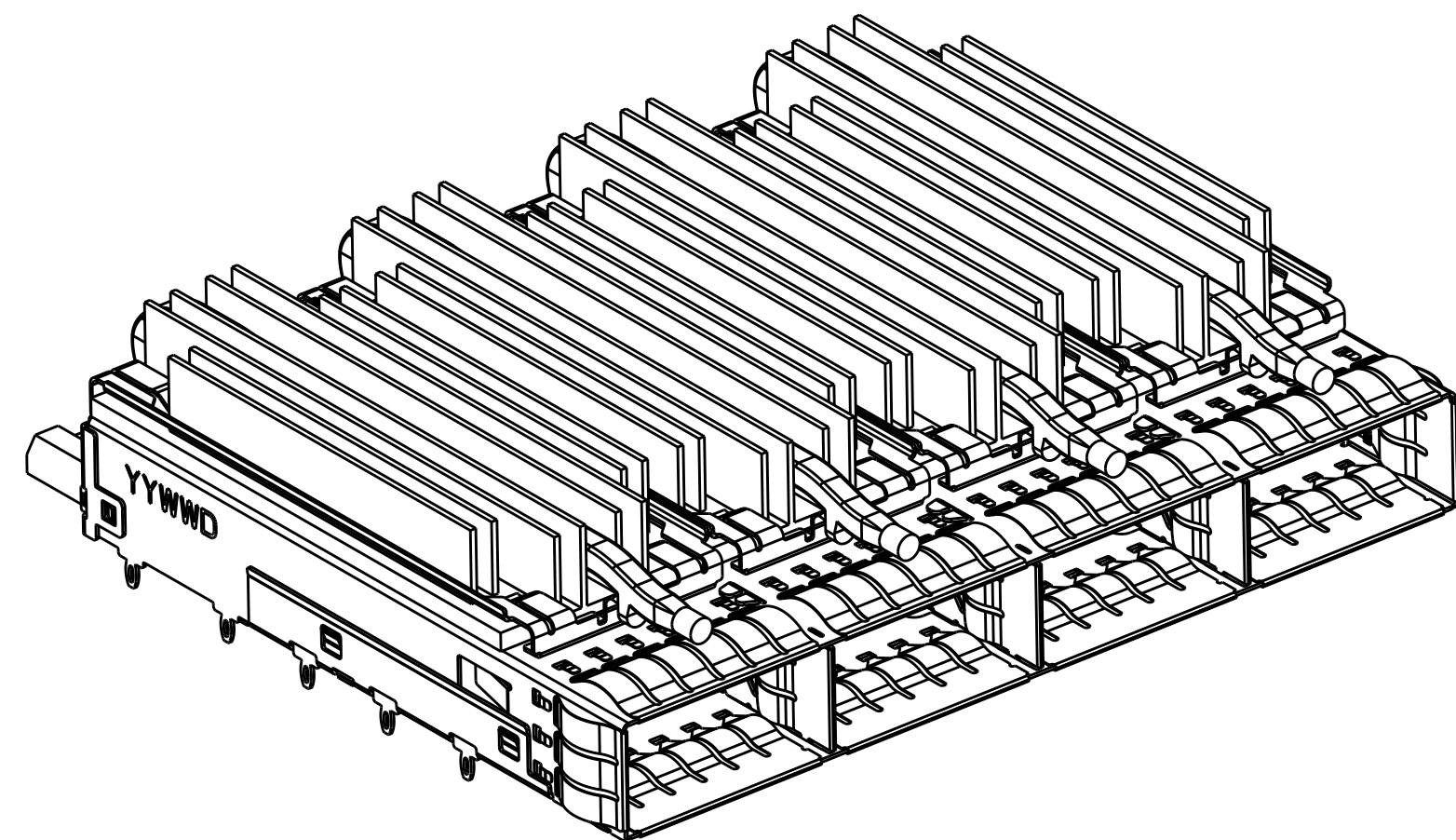
0 REAR PIN
SCALE 2:1

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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		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	-	-	-

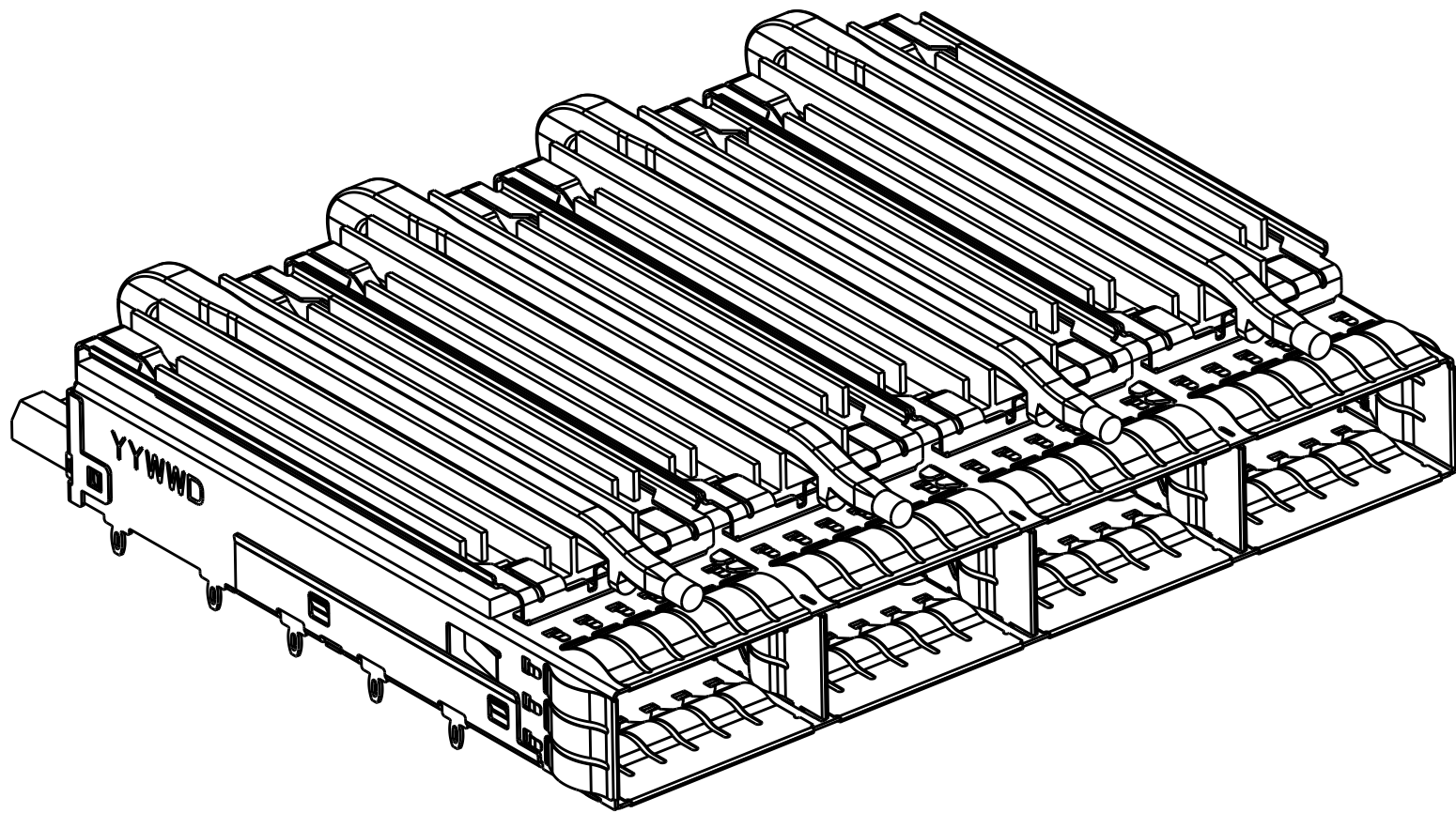


2170747-7 UNASSEMBLED ¹³
CAGE ASSY WITH HS AND LIGHT PIPE ARE UNASSEMBLED,
AND PACKAGED INDIVIDUALLY.
CUSTOMIZED HEAT SINK
SCALE 2:1

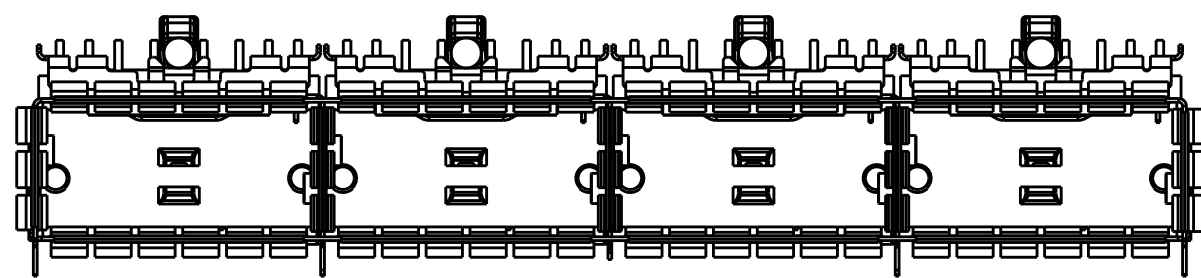


2170747-8 ASSEMBLED
ASSEMBLED AND PAKCAGED TOGETHER, CUSTOMIZED HEAT SINK
SCALE 2:1

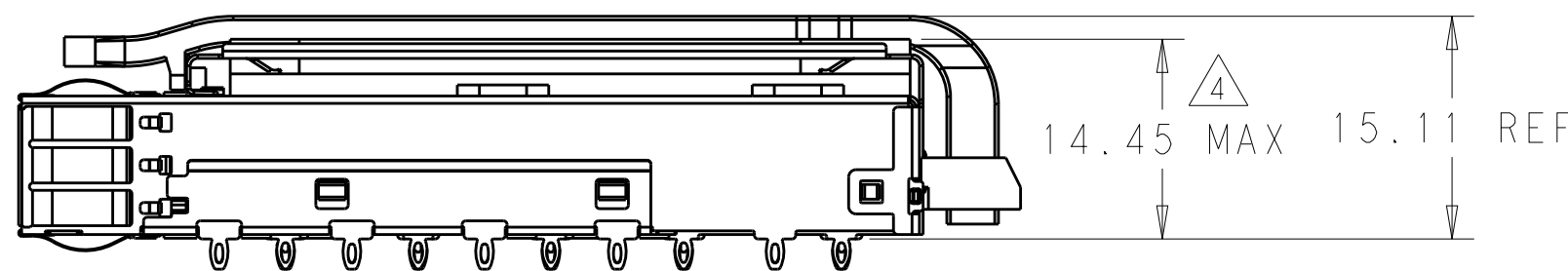
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		0 PLC ±-		PRODUCT SPEC	SIZE	
		1 PLC ±0.25		108-19428	CAGE CODE	
		2 PLC ±0.2		APPLICATION SPEC	DRAWING NO	
		3 PLC ±-		114-32023	RESTRICTED TO	
		4 PLC ±-		WEIGHT	A200779	
MATERIAL SEE NOTES		FINISH SEE NOTES		CUSTOMER DRAWING	C-2170747	
				SCALE 1:1	SHEET 3 OF 13	REV C



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

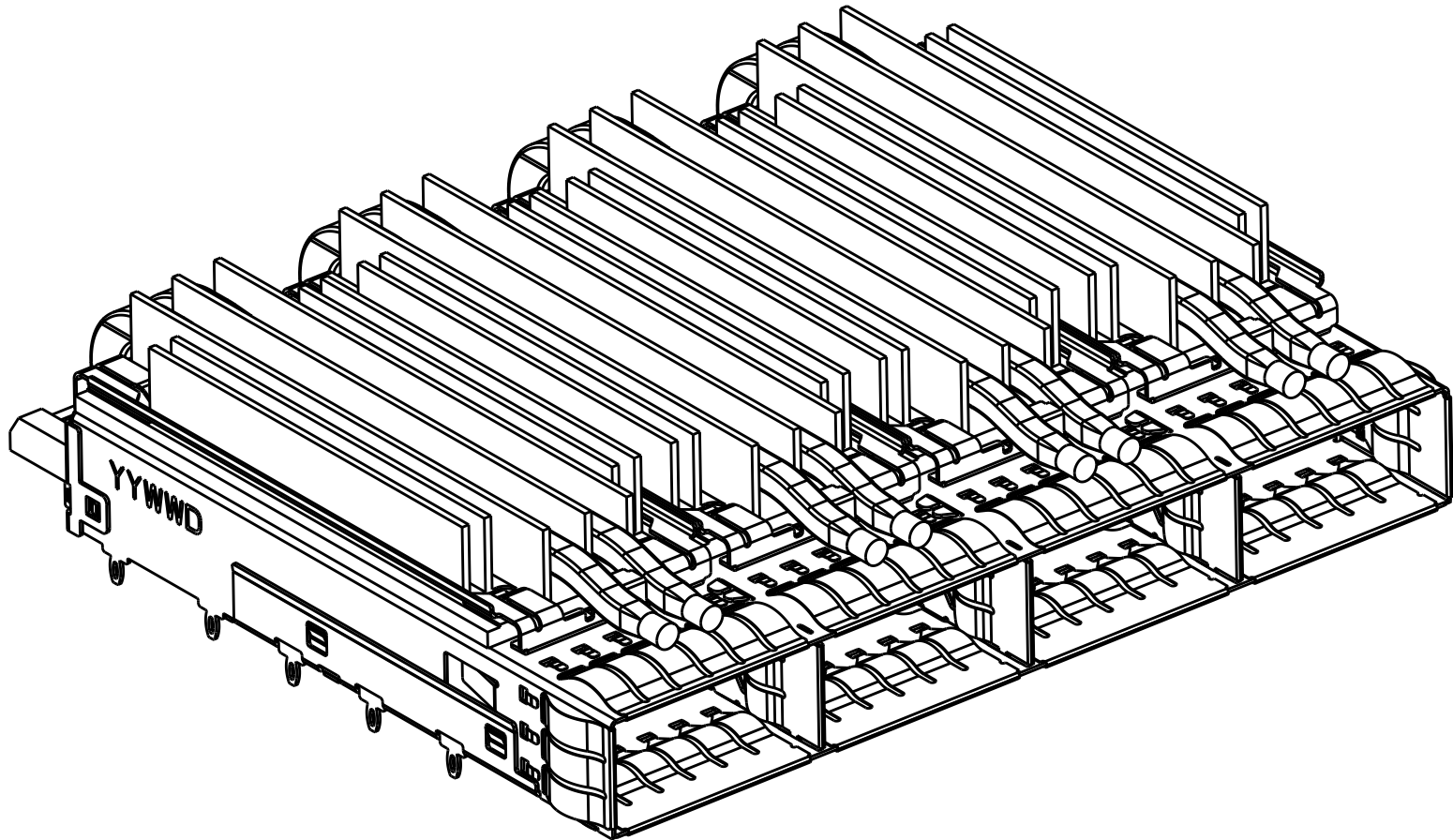


SCALE 2:1

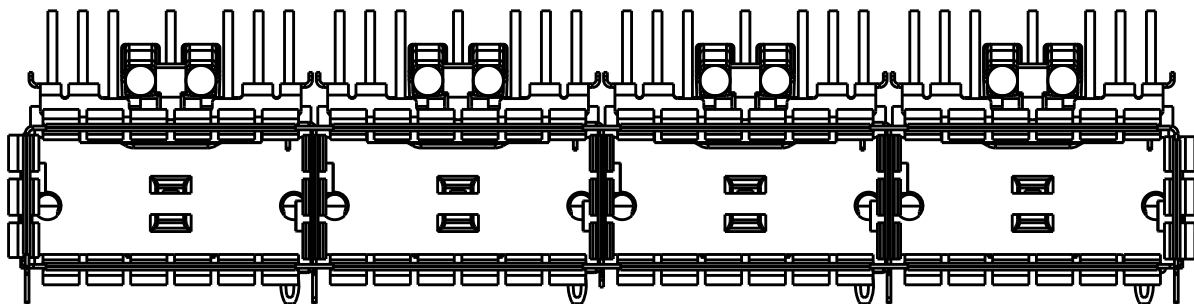


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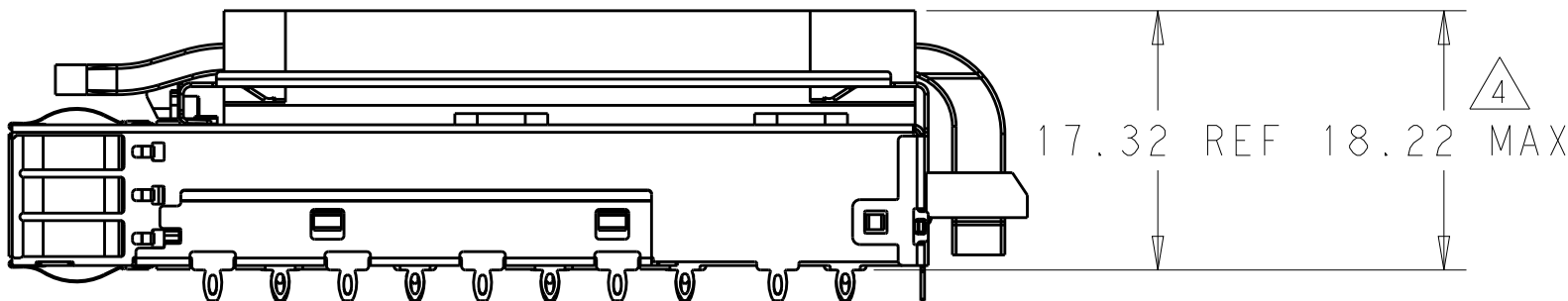
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



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

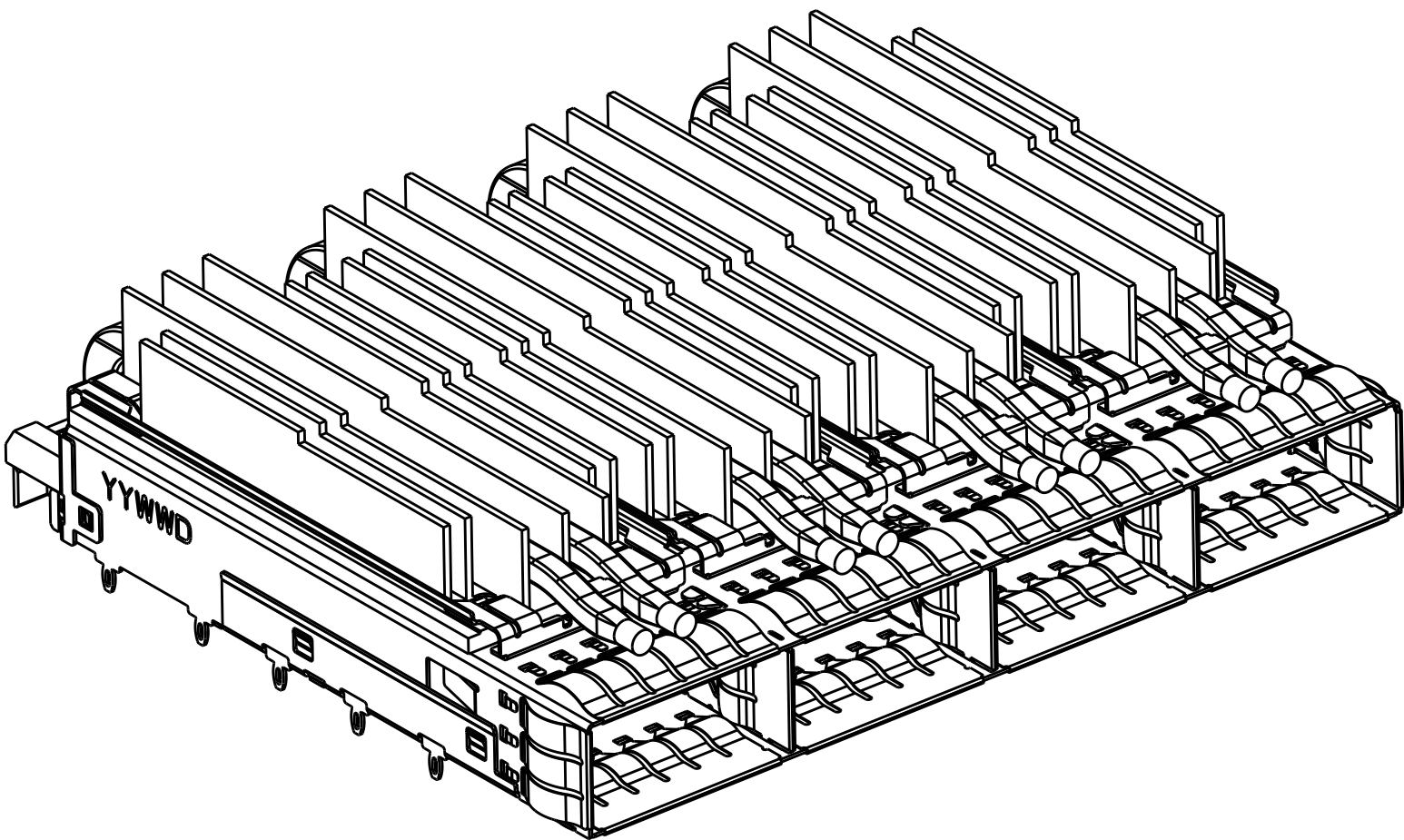


SCALE 2:1

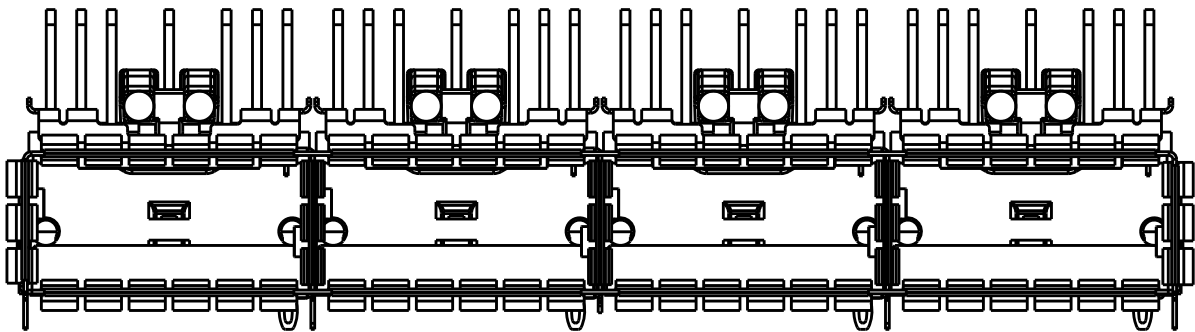


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity		
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DIMENSIONS:		APVD -	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
mm		PRODUCT SPEC 108-19428			
		APPLICATION SPEC 114-32023	SIZE	CAGE CODE	DRAWING NO
		WEIGHT -	A2	00779	C-2170747
MATERIAL SEE NOTES		FINISH SEE NOTES	RESTRICTED TO -		
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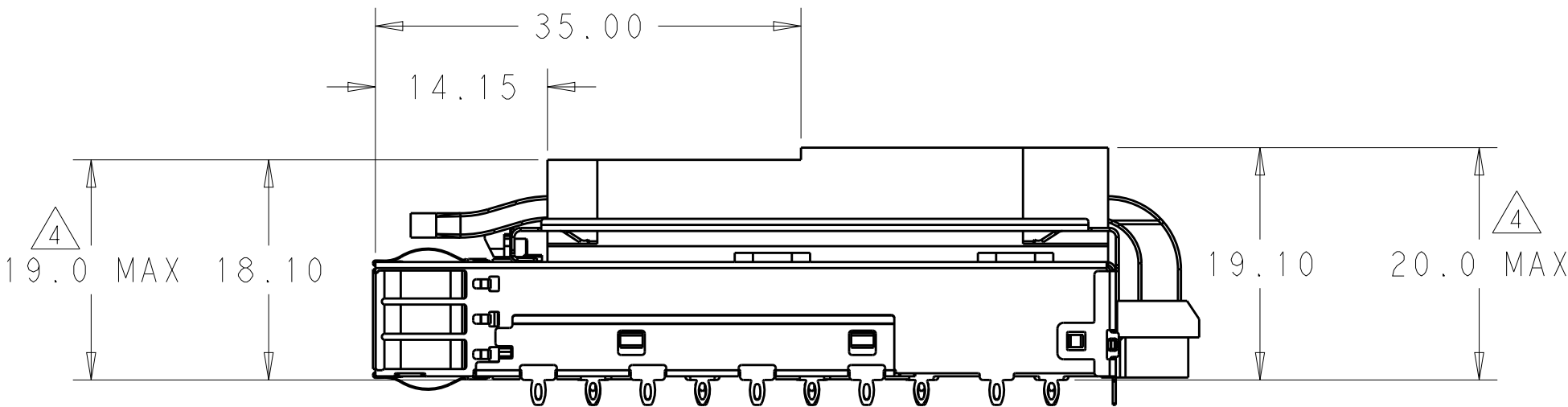
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



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 CAGE CODE DRAWING NO A200779C-2170747			
		APPLICATION SPEC				
		114-32023	RESTRICTED TO -			
		WEIGHT -				
MATERIAL SEE NOTES		FINISH SEE NOTES		CUSTOMER DRAWING		
				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

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
JASON YANG

CHK 07JUN2014
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

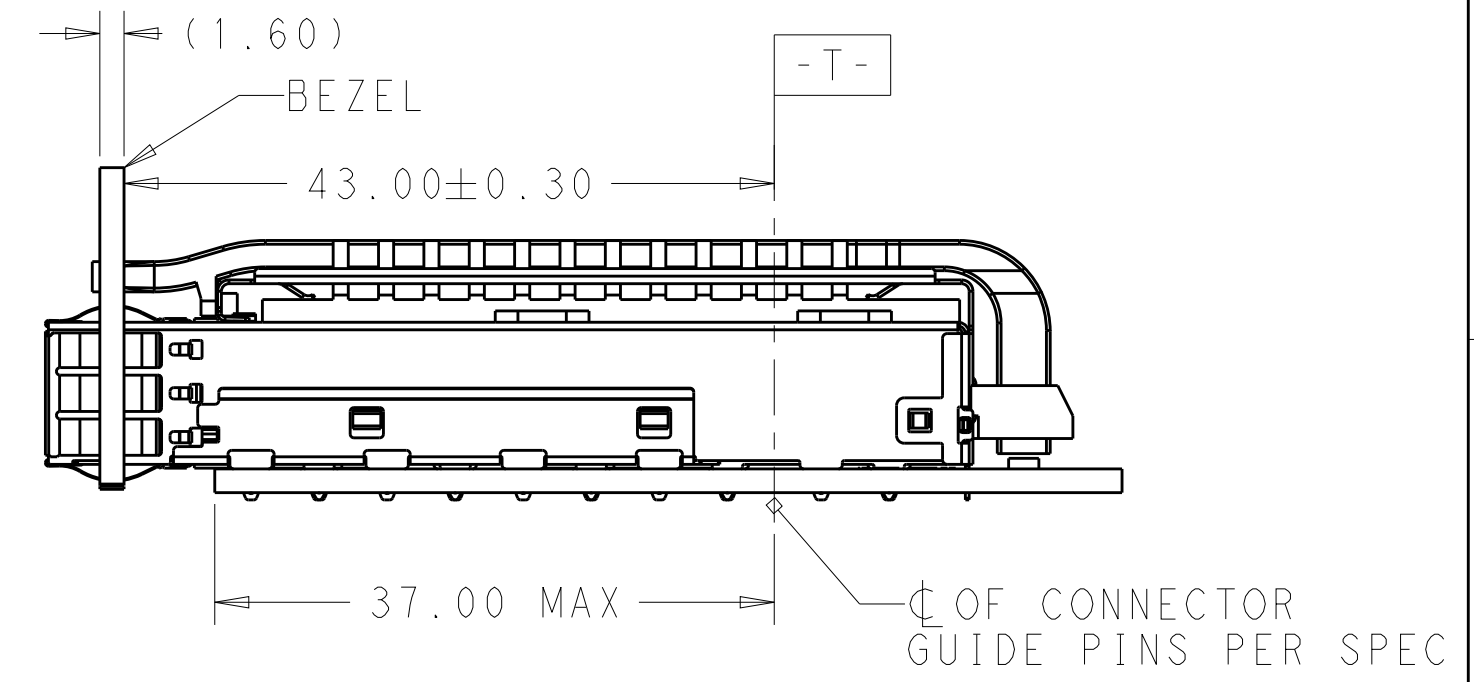
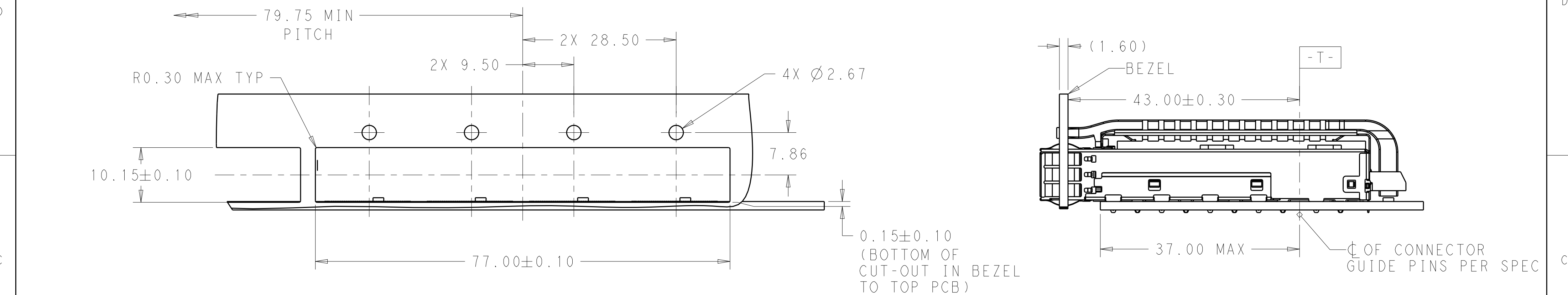
7 OF 13

REV

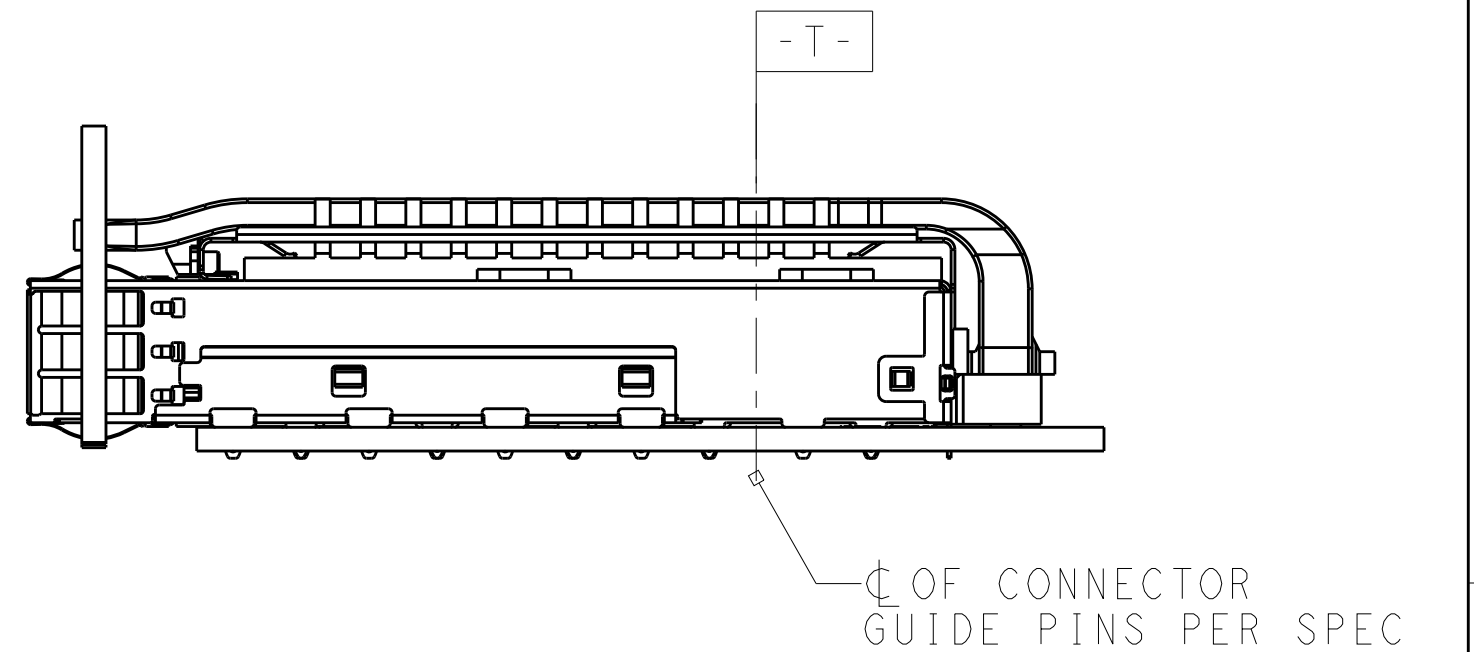
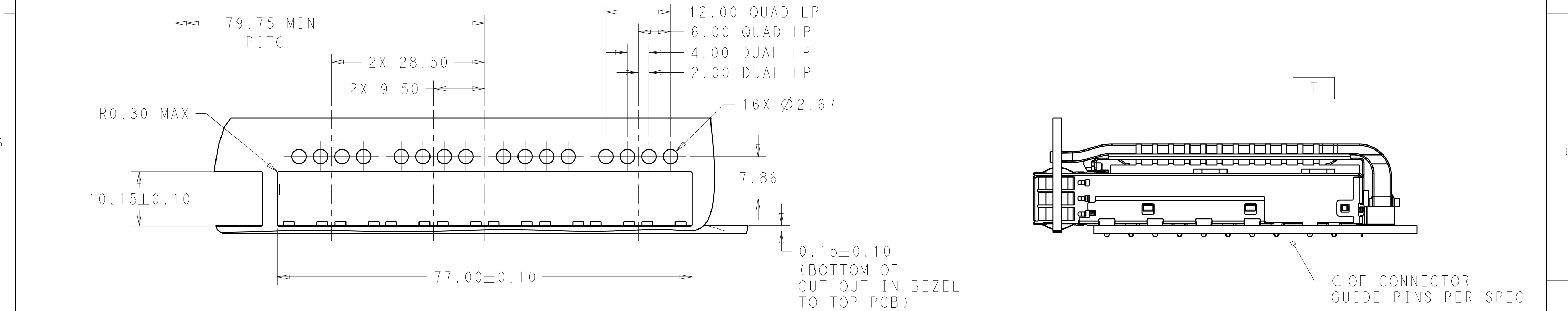
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1471-9 (3/13)

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



SINGLE SIDE MOUNTING
SCALE 2:1



SINGLE SIDE MOUNTING
SCALE 2:1

A

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

MATERIAL
SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±
1 PLC ±0.25
2 PLC ±0.2
3 PLC ±
4 PLC ±
ANGLES ±
FINISH

SEE NOTES

DWN 04JUN2014
JASON YANG

CHK 07JUN2014
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
A200779

CAGE CODE
C-2170747

DRAWING NO
-

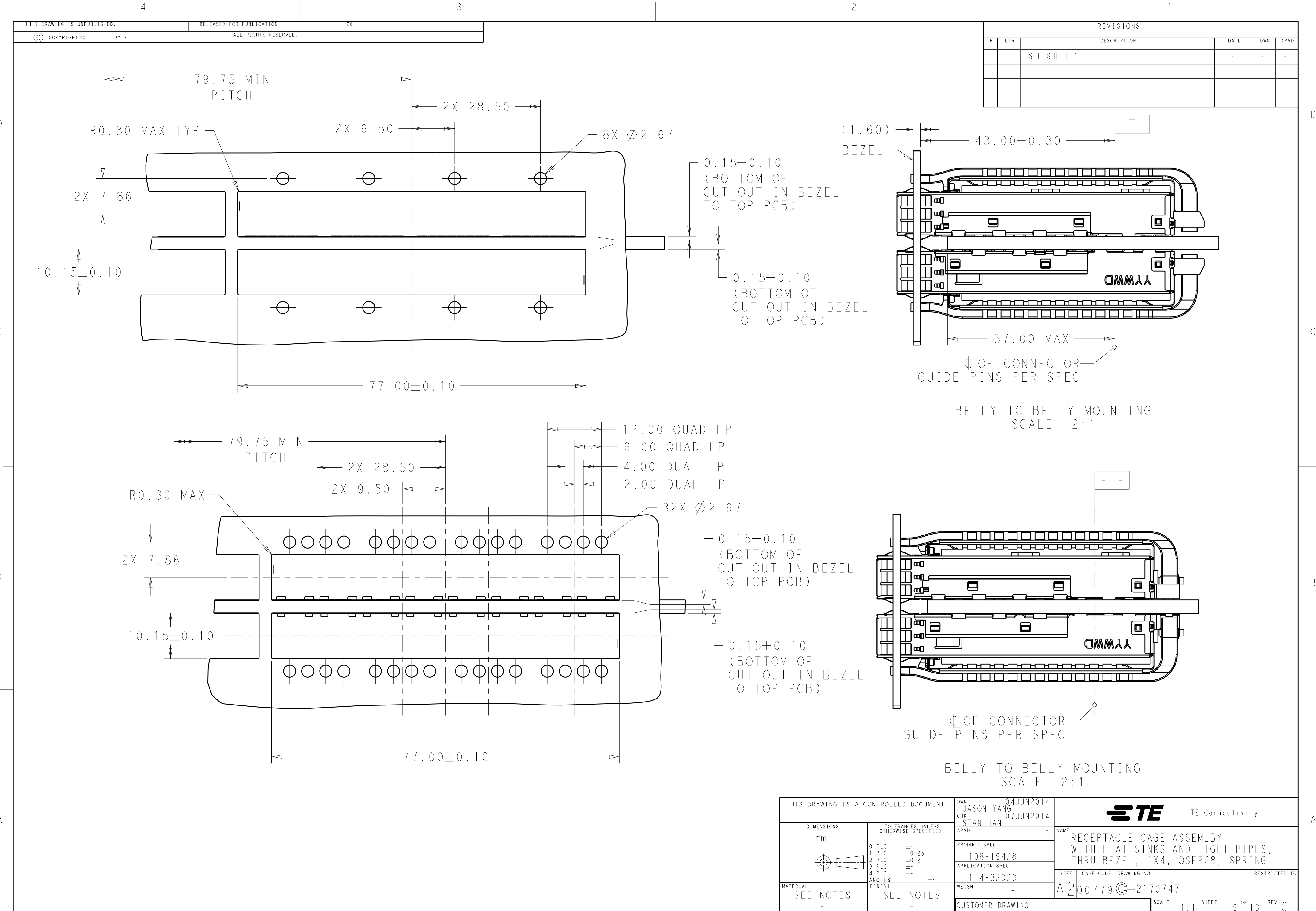
RESTRICTED TO
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SCALE 1:1

SHEET 8 OF 13

REV C

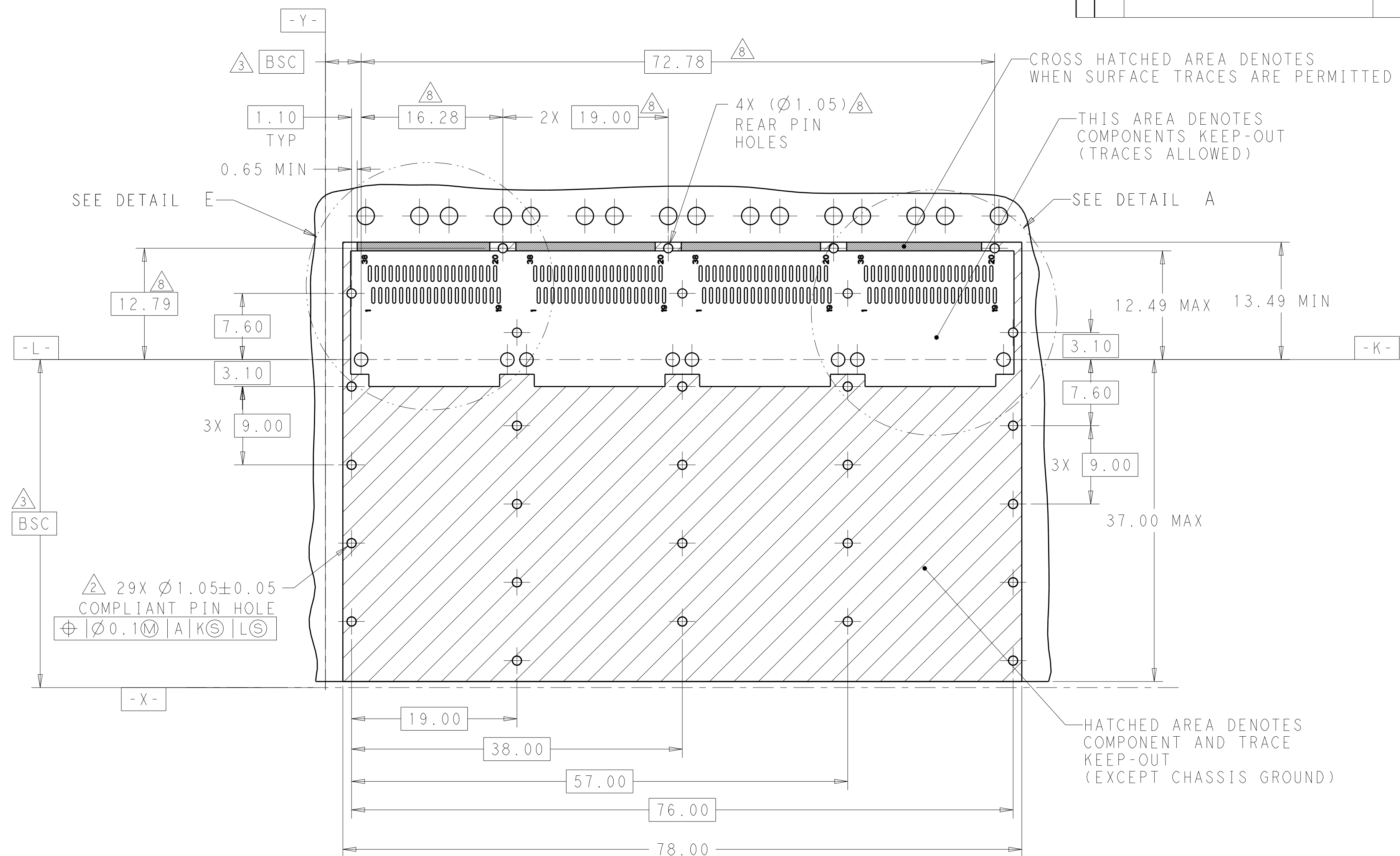
1471-9 (3/13)



REVISIONS					
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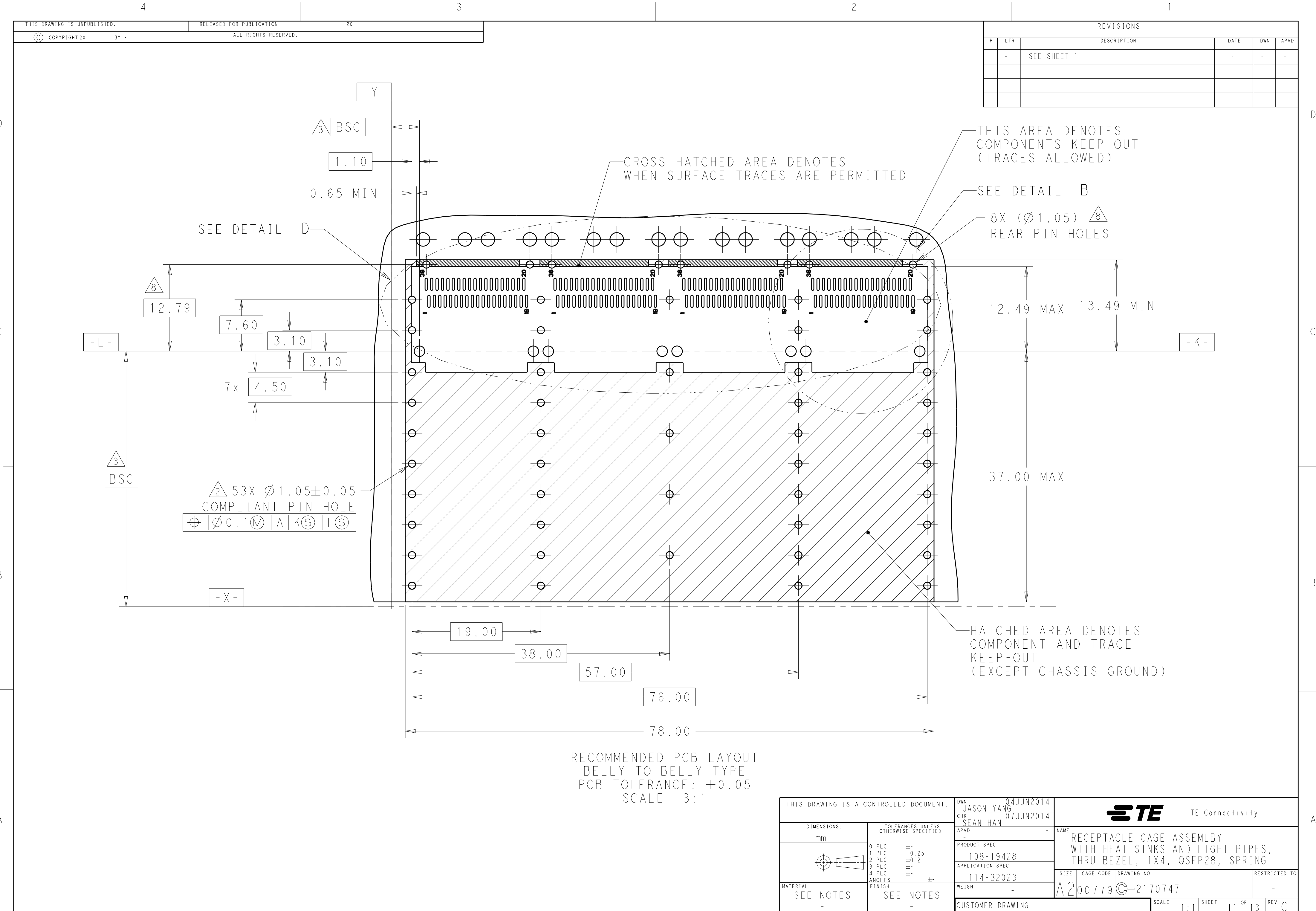
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 04JUN2014 JASON YANG	TE Connectivity		
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DIMENSIONS:		APVD -	NAME		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING		
	0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH	108-19428			
MATERIAL	SEE NOTES	APPLICATION SPEC	SIZE	CAGE CODE	DRAWING NO
SEE NOTES	SEE NOTES	114-32023	A200779	C-2170747	RESTRICTED TO
-	-	WEIGHT -	-		
		CUSTOMER DRAWING	SCALE 1:1	SHEET 9 OF 13	REV C

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	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 ±.25 1 PLC ±0.2 2 PLC ±.2 3 PLC ±. 4 PLC ±. ANGLES ±.		NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X4, QSFP28, SPRING	
		PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023			
MATERIAL SEE NOTES -		WEIGHT -		SIZE A2	
SEE NOTES -		CUSTOMER DRAWING		CAGE CODE 000779	
SEE NOTES -		DRAWING NO C-2170747		RESTRICTED TO -	
		SCALE 1:1		SHEET 10 OF 13	
				REV C	



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

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	CHK SEAN HAN 07JUN2014		
	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
	WEIGHT -	DRAWING NO C-2170747	RESTRICTED TO -
CUSTOMER DRAWING		SCALE 1:1	SHEET 11 OF 13

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:
mm	
0 PLC	±
1 PLC	±0.25
2 PLC	±0.2
3 PLC	±
4 PLC	±
ANGLES	±
FINISH	SEE NOTES
MATERIAL SEE NOTES	SEE NOTES

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

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

D

D

C

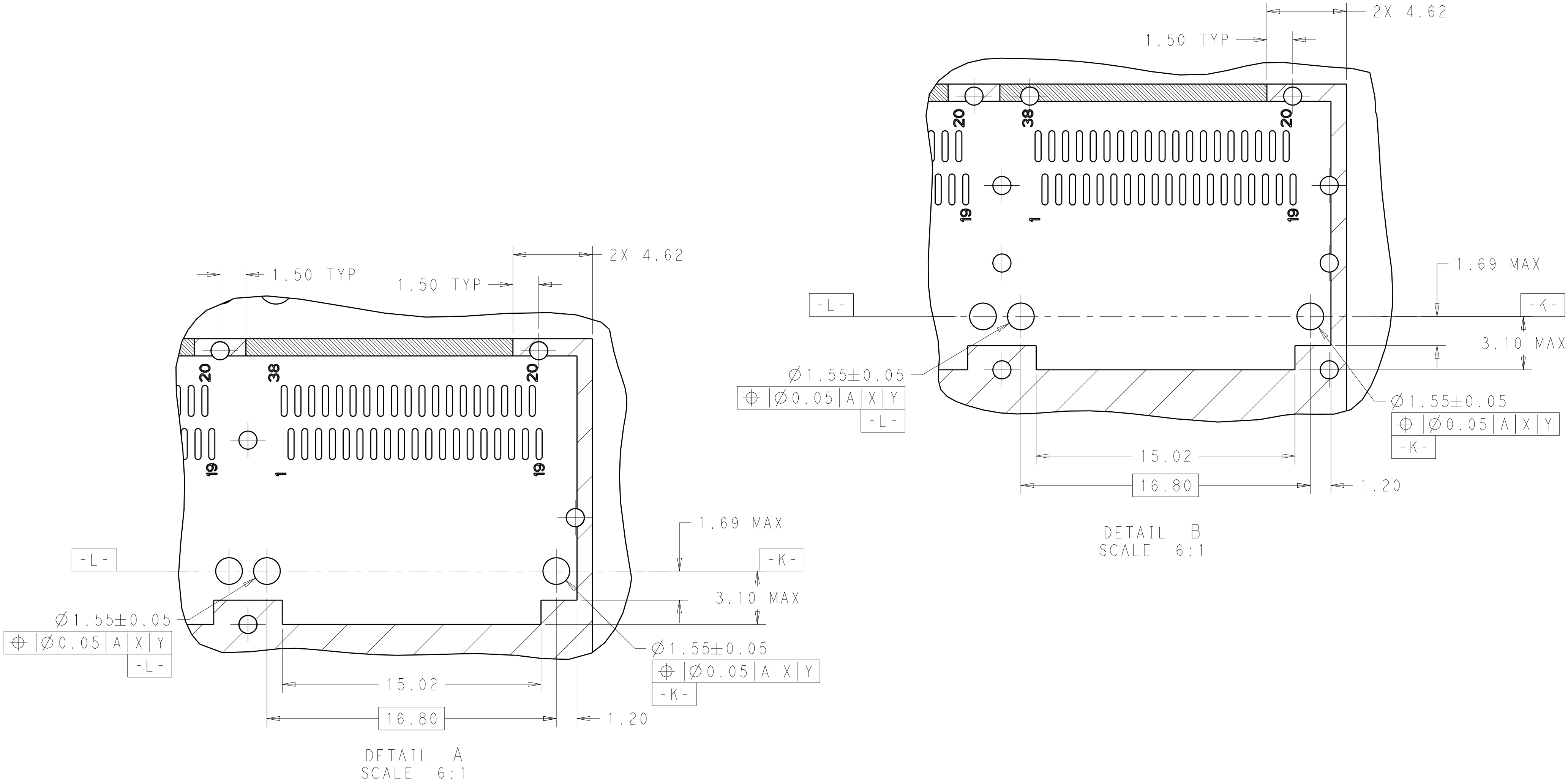
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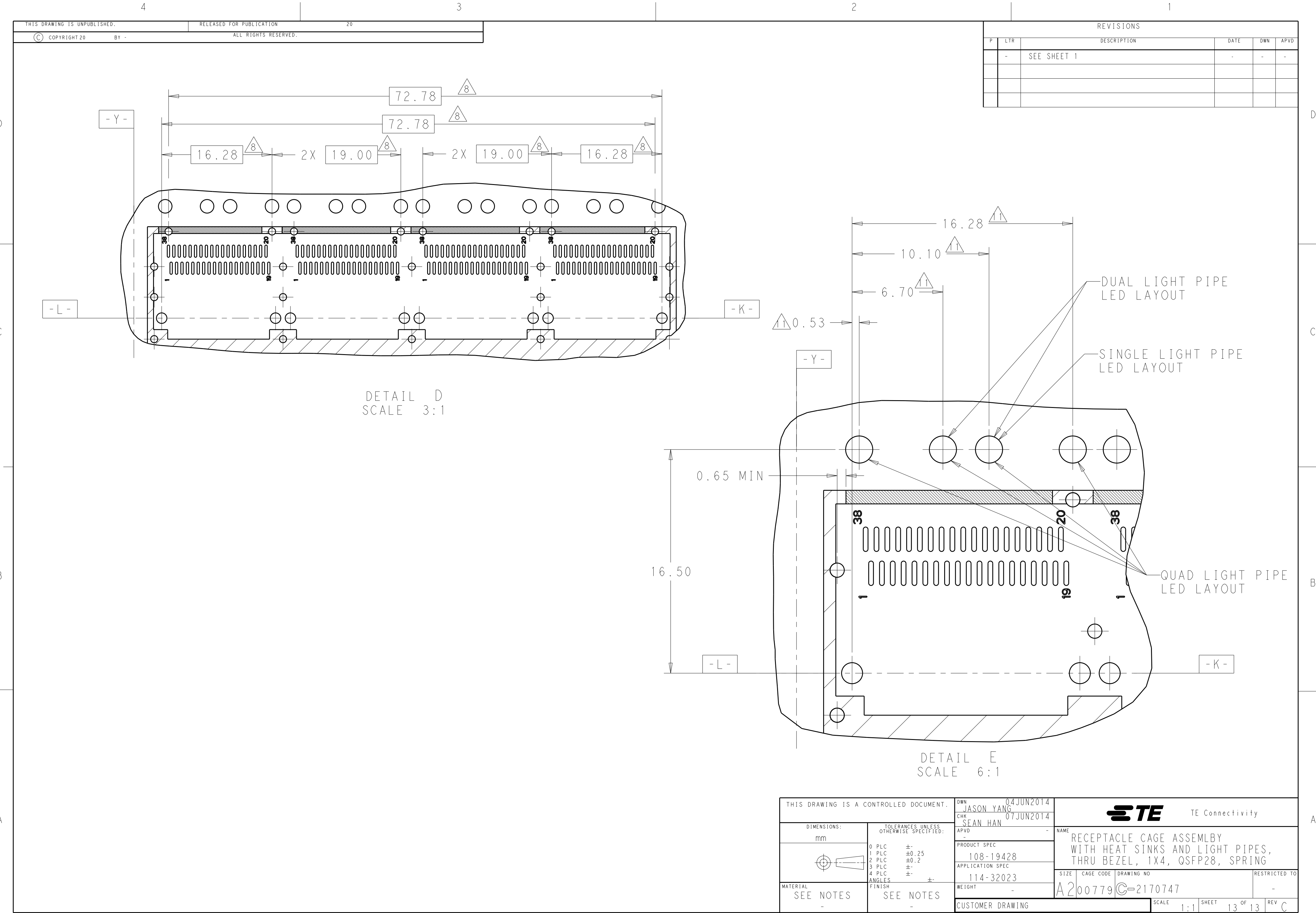
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		CHK SEAN HAN 07JUN2014			
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mm		PRODUCT SPEC 108-19428	SIZE A200779		
		APPLICATION SPEC 114-32023			
MATERIAL SEE NOTES		WEIGHT -	DRAWING NO C-2170747		
		CUSTOMER DRAWING	RESTRICTED TO -		
			SCALE 1:1	SHEET 12 OF 13	REV C



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