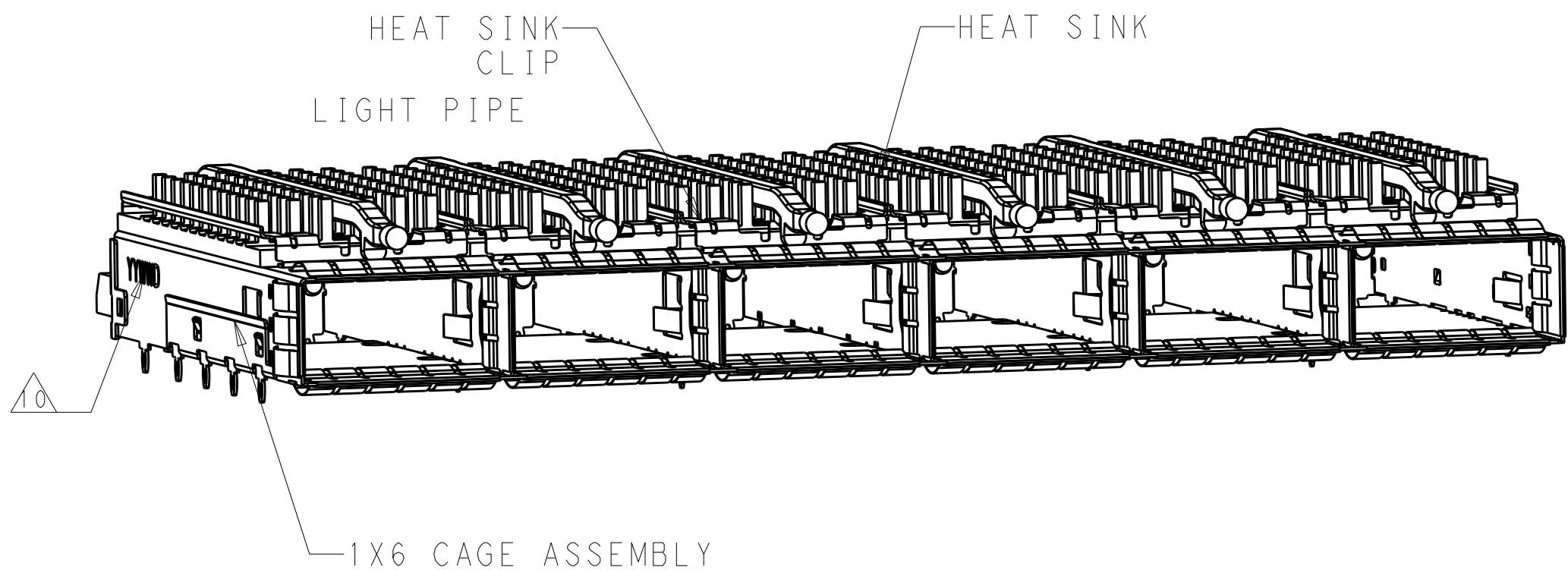


LOC	DIST	REVISIONS				
GP	00	P	LTR	DESCRIPTION	DATE	DWN
			A	RELEASE	02NOV2016	JY
			B	REVISED PER ECO-20-012918	1AUG2020	JW

D

D



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 WITH UL 94 V-0
ORGANIZER: POLYESTER WITH UL 94 V-0

2. REFERENCE APPLICATION SPECIFICATION 114-32023
FOR RECOMMENDED DRILL HOLE DIAMETER AND
PLATING THICKNESS

3. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER

4. DIMENSION APPLIES WITH MODULE INSERTED IN CAGE

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

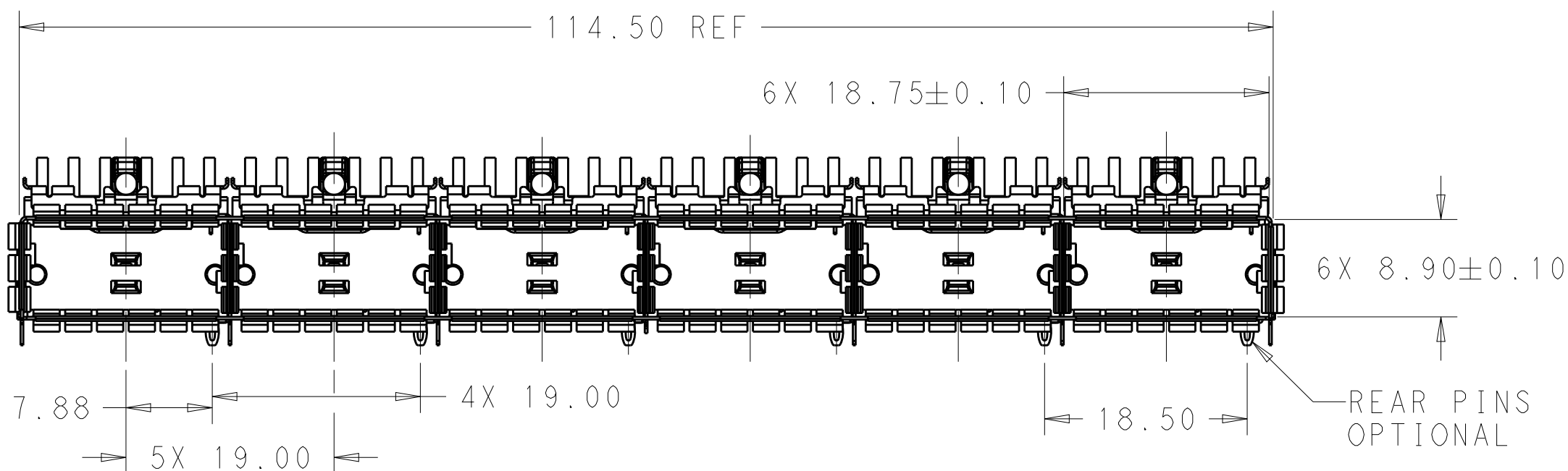
6. MINIMUM PC BOARD THICKNESS: SINGLE SIDED: 1.57 MIN
DOUBLE SIDED: 2.20 MIN

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

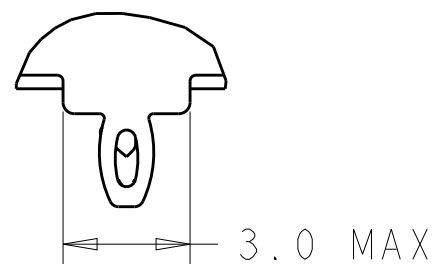
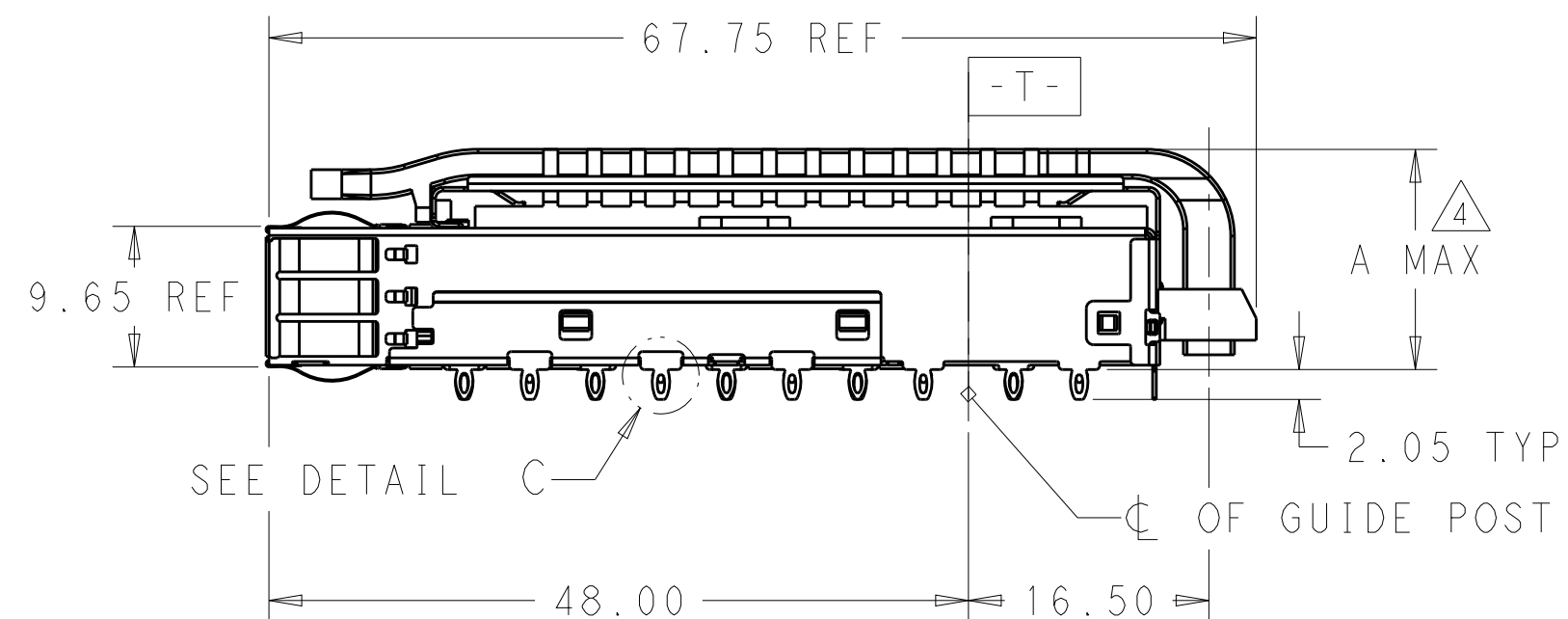
8. THESE HOLES ARE OPTIONAL WHEN THE REAR PINS ARE REMOVED.

9. MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.

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



SCALE 2:1



DETAIL C
SCALE 6:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JASON YANG 24OCT2013	 TE Connectivity			
		CHK SEAN HAN 02NOV2016				
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING		RESTRICTED TO	
		0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH	PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023 WEIGHT -			
MATERIAL SEE NOTES		SEE NOTES		SIZE A200779	DRAWING NO C-2170708	-
CUSTOMER DRAWING				SCALE 1:1	SHEET 1 OF 9	REV B

A

A

4

3

2

1

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RELEASED FOR PUBLICATION

20

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BY -

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LOC

DIST

REVISIONS

P

LTR

DESCRIPTION

DATE

DWN

APVD

-

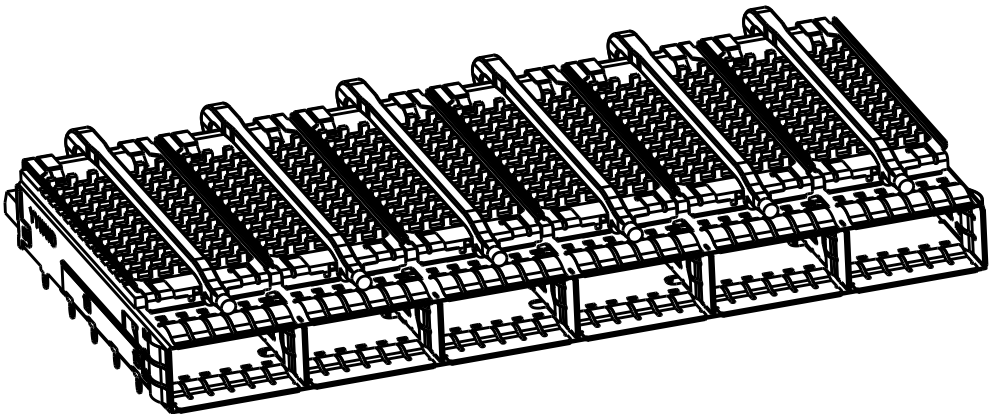
SEE SHEET 1

-

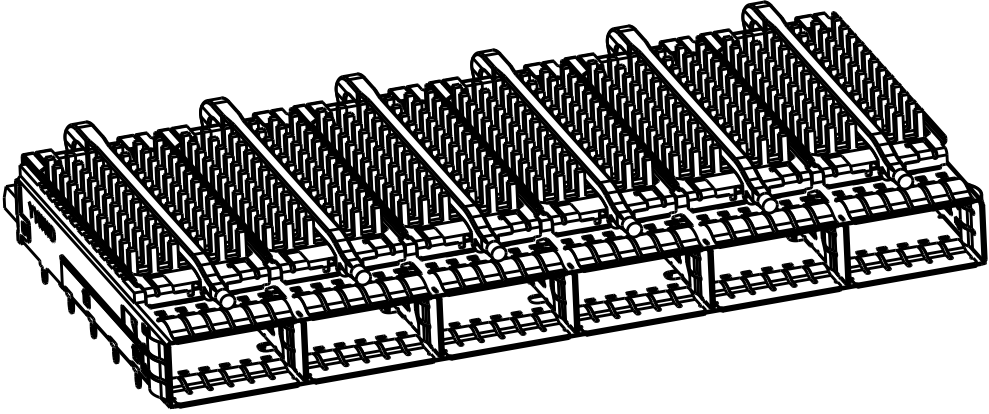
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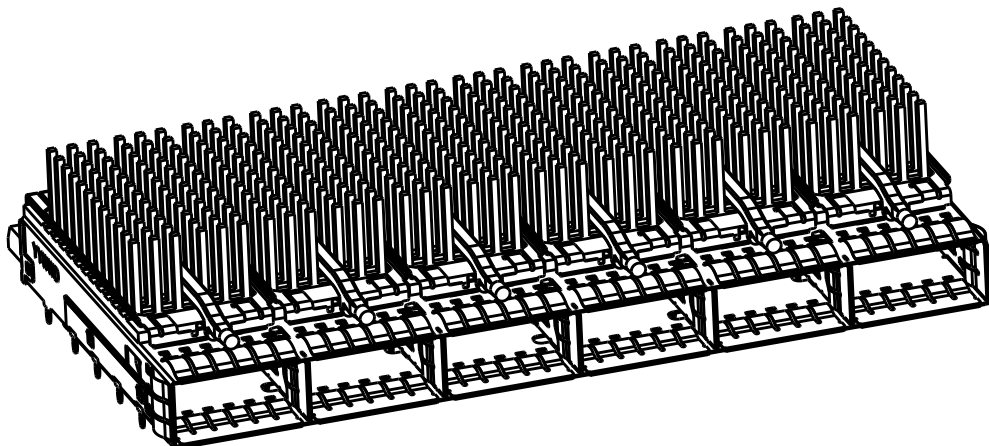
HEAT SINK OPTION



PCI HEAT SINK
SCALE 1:1

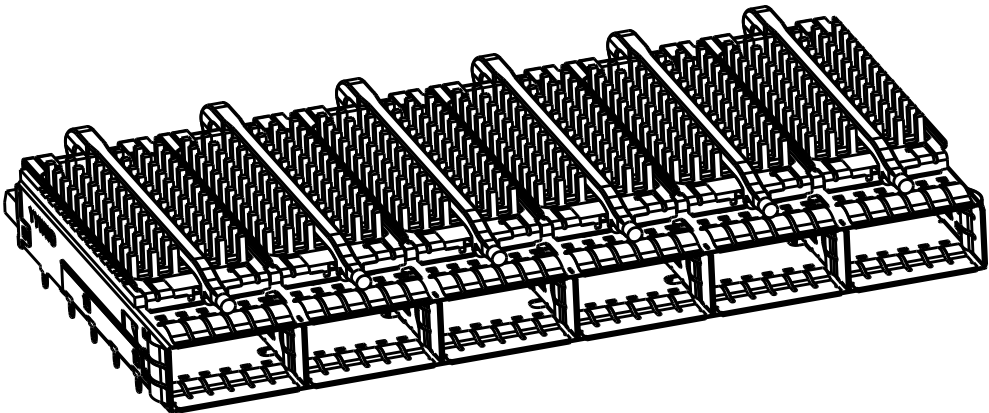


SAN HEAT SINK
SCALE 1:1

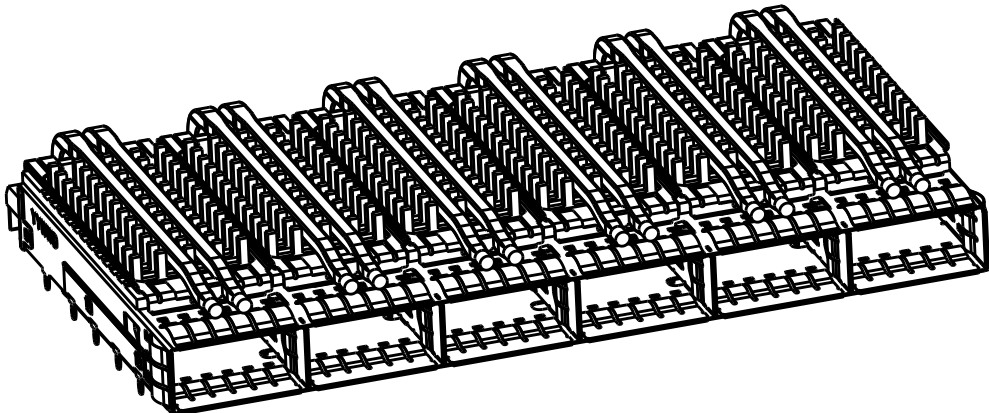


NETWORKING
SCALE 1:1

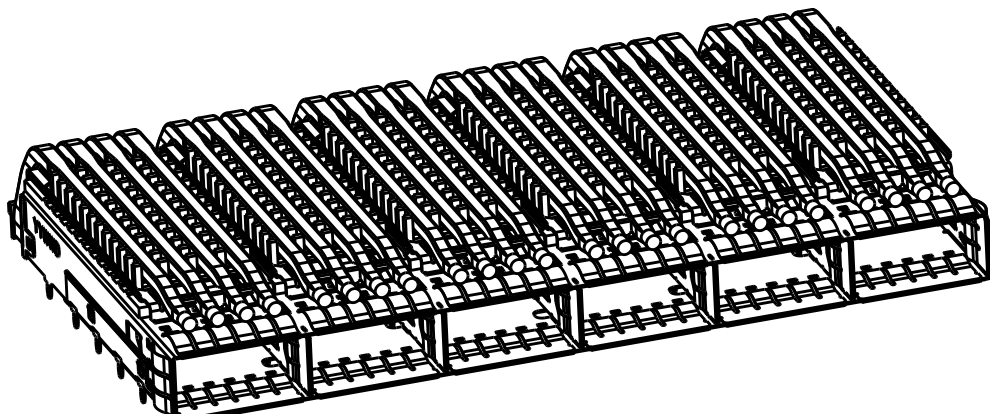
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 1:1

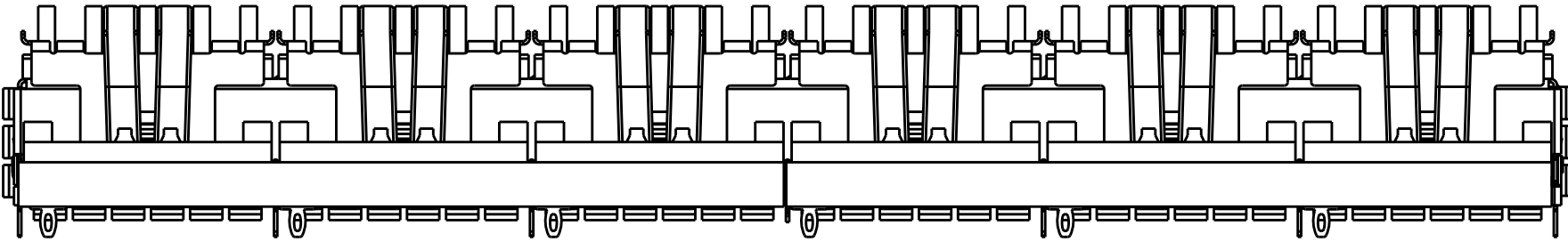


DUAL LIGHT PIPE
SCALE 1:1

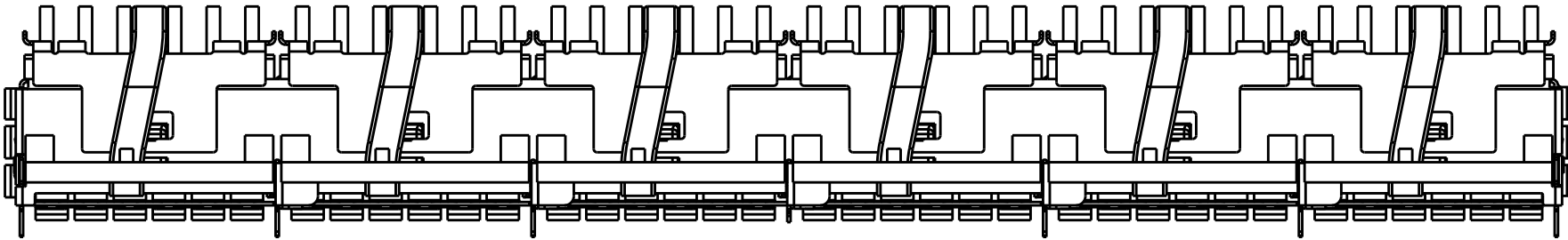


QUAD LIGHT PIPE
SCALE 1:1

OF REAR LEGS OPTIONS



1 REAR LEGS
SCALE 2:1

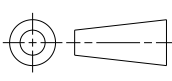


0 REAR LEGS
SCALE 2:1

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

material_2

DWN 24OCT2013

CHK JASON YANG

APVD SEAN HAN

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

SCALE 3:1

SHEET 2 OF 9

REV B

 TE Connectivity

NAME

CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A200779

C-2170708

-

1471-9 (3/11)

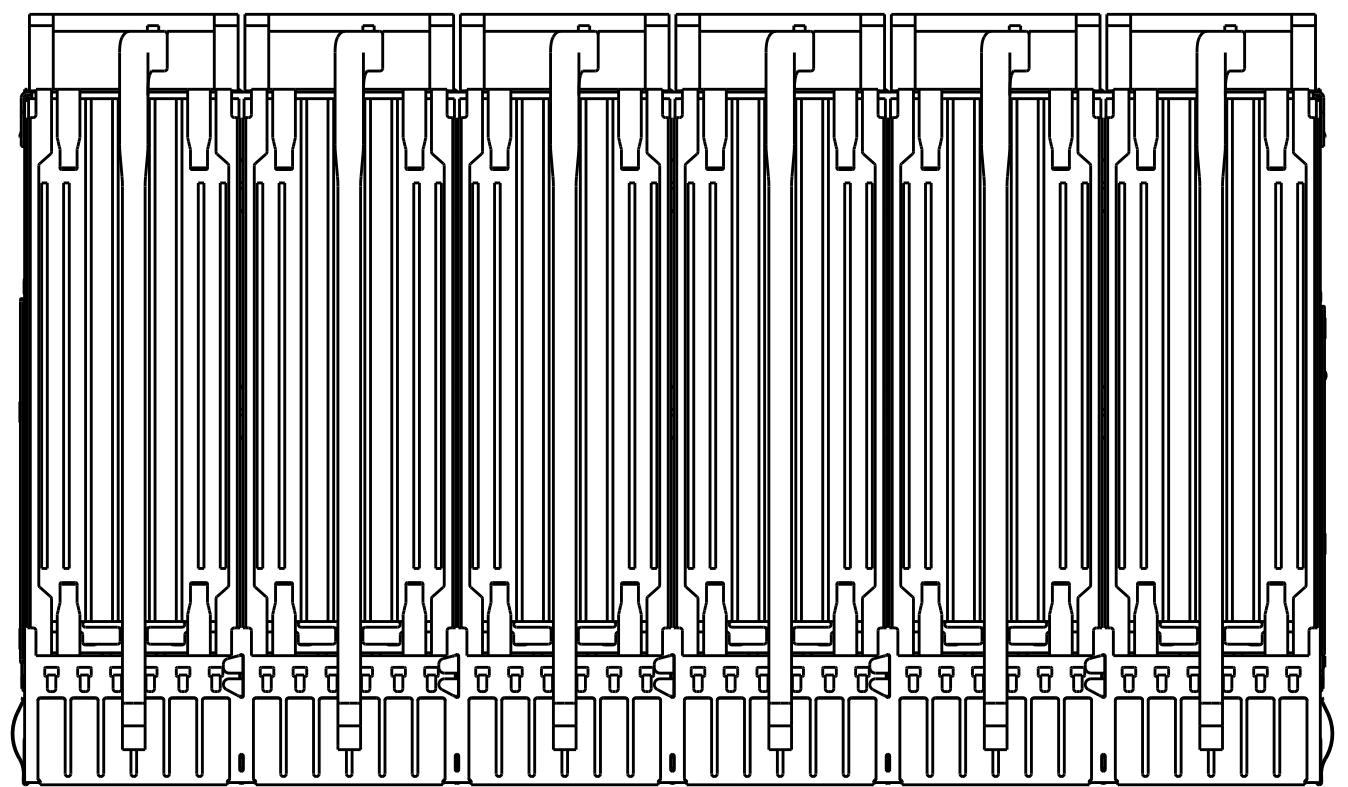
D

C

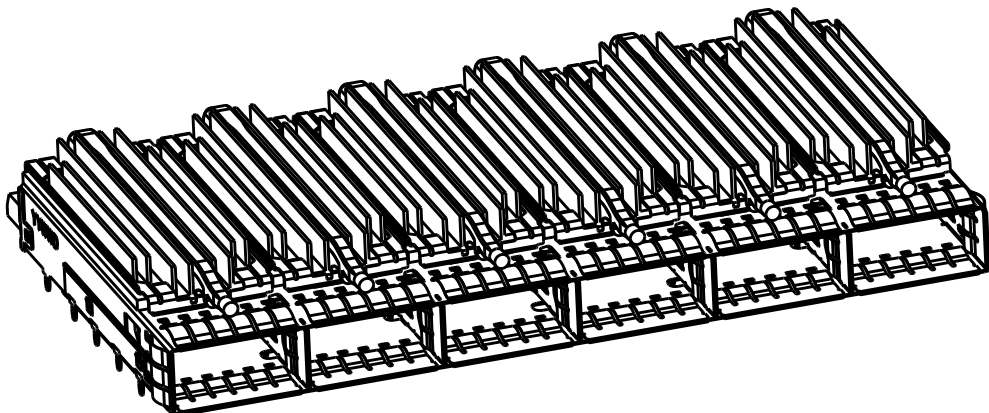
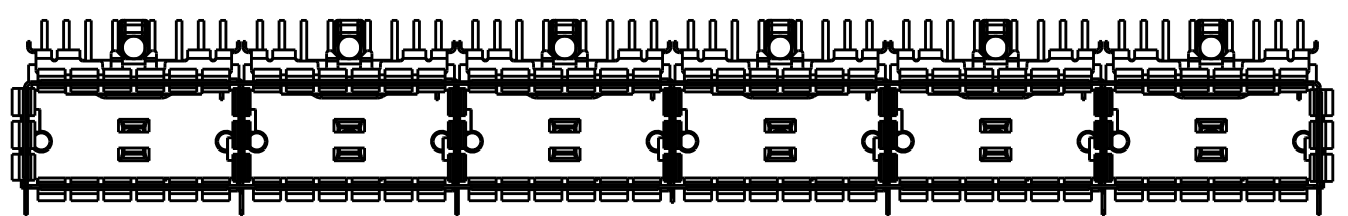
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A

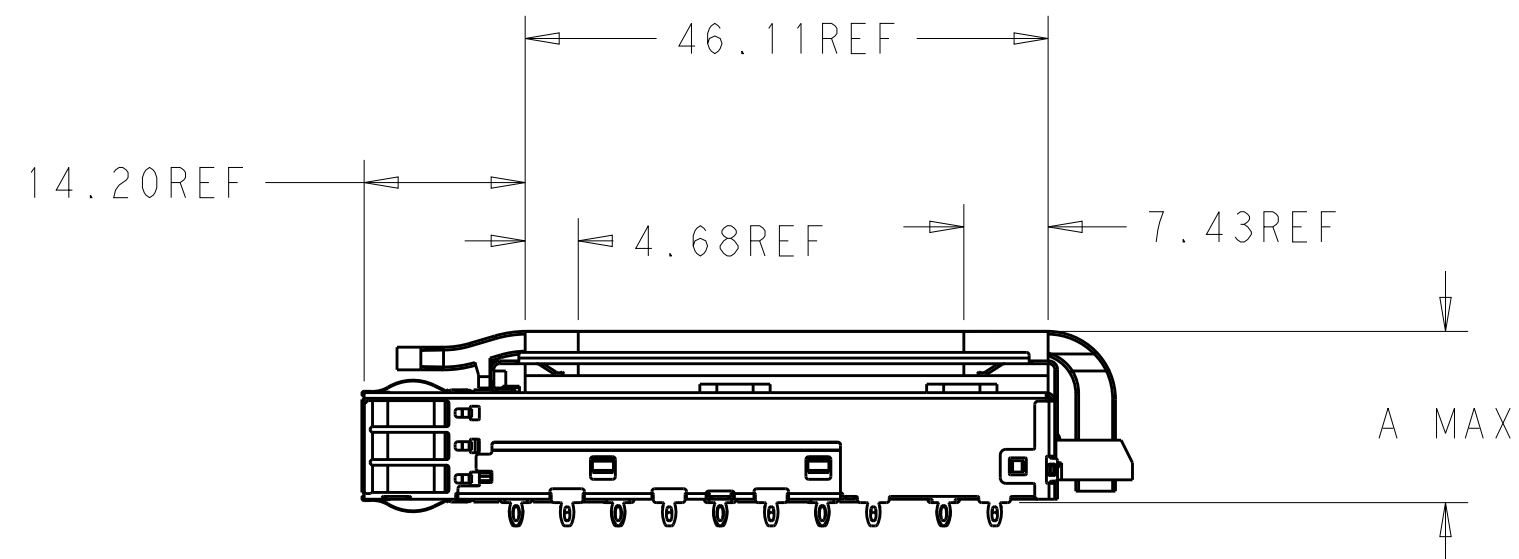
5-2170708-5 UNMARKED DIMENIONS SAME AS 2170708-1



SCALE 3:2



5-2170708-5
SCALE 1:1



D

C

B

A

0	16	FIN TYPE , SAN	SINGLE	5-2170708-5
1	14.9	CUSTOMER SPECIFIC	QUAD	4-2170708-7
0	23.0	NETWORKING	QUAD	4-2170708-6
0	16.0	SAN	QUAD	4-2170708-5
0	13.7	PCI	QUAD	4-2170708-4
1	23.0	NETWORKING	QUAD	4-2170708-3
1	16.0	SAN	QUAD	4-2170708-2
1	13.7	PCI	QUAD	4-2170708-1
0	16.5	CUSTOMIZED	DUAL	2-2170708-7
0	23.0	NETWORKING	DUAL	2-2170708-6
0	16.0	SAN	DUAL	2-2170708-5
0	13.7	PCI	DUAL	2-2170708-4
1	23.0	NETWORKING	DUAL	2-2170708-3
1	16.0	SAN	DUAL	2-2170708-2
1	13.7	PCI	DUAL	2-2170708-1
1	14.9	CUSTOMER SPECIFIC	SINGLE	1-2170708-1
0	23.0	NETWORKING	SINGLE	2170708-6
0	16.0	SAN	SINGLE	2170708-5
0	13.7	PCI	SINGLE	2170708-4
1	23.0	NETWORKING	SINGLE	2170708-3
1	16.0	SAN	SINGLE	2170708-2
1	13.7	PCI	SINGLE	2170708-1
# OF REAR PIN	DIM A	APPLICATION	LIGHT PIPE OPTION	PART NUMBER

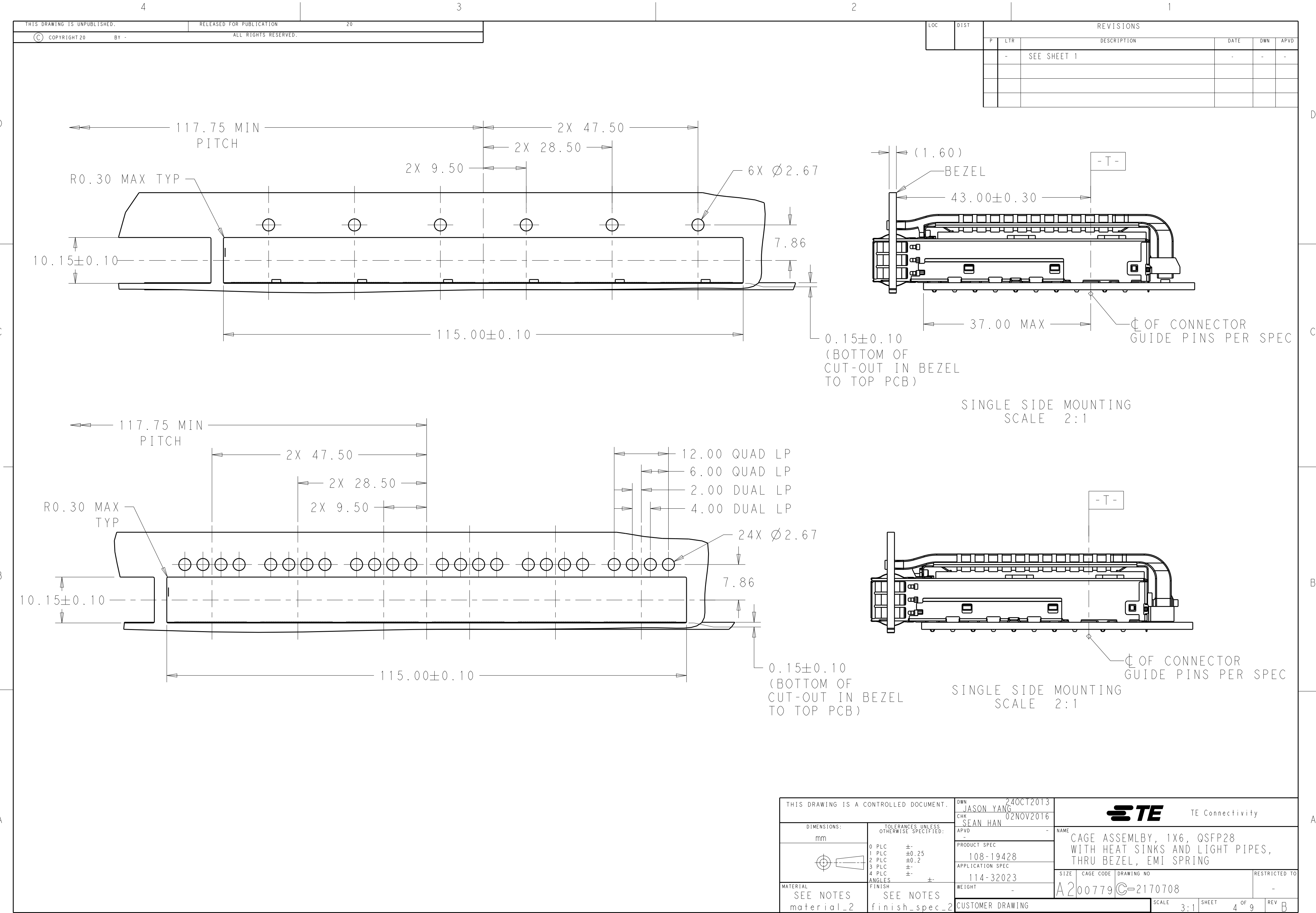
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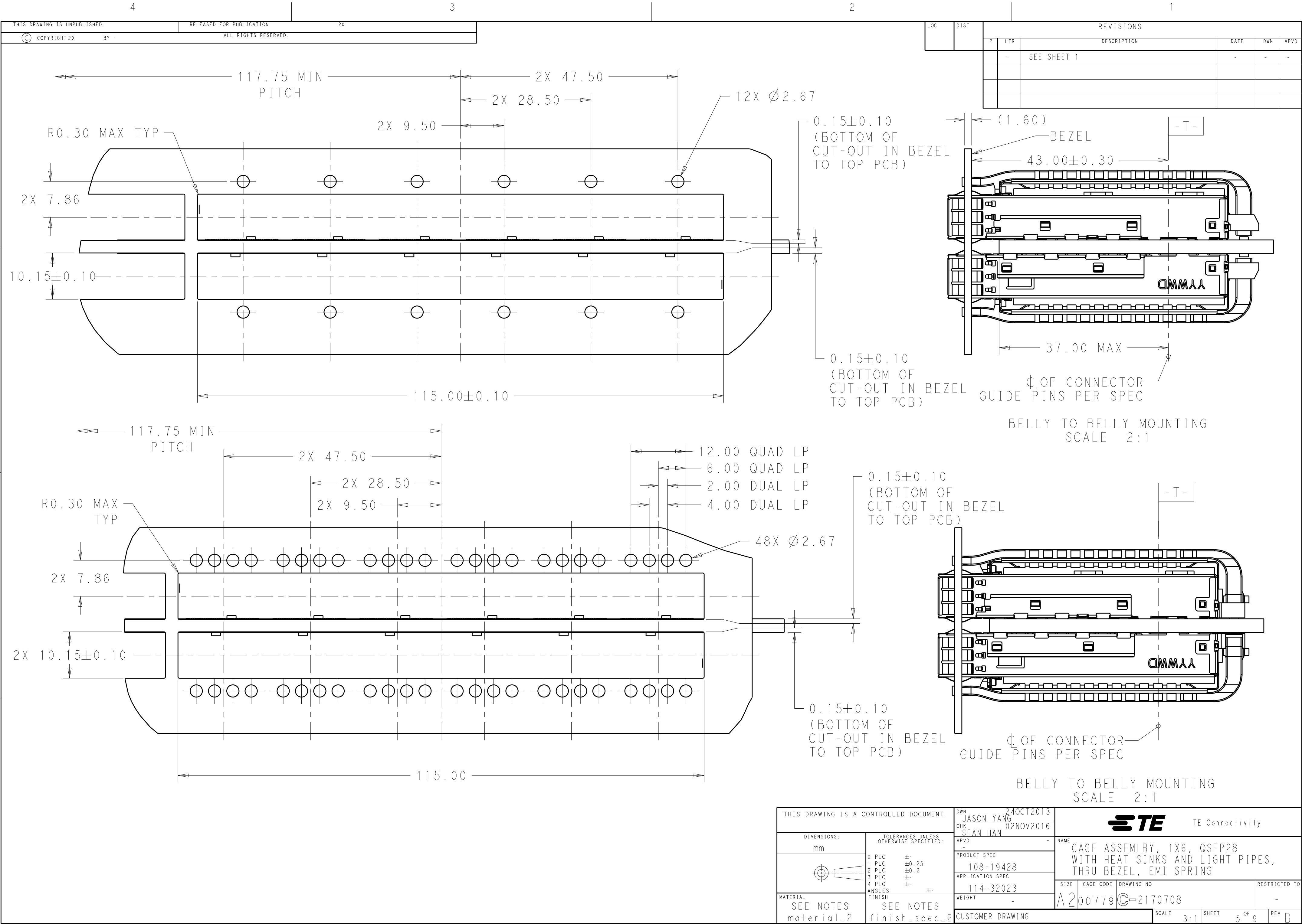
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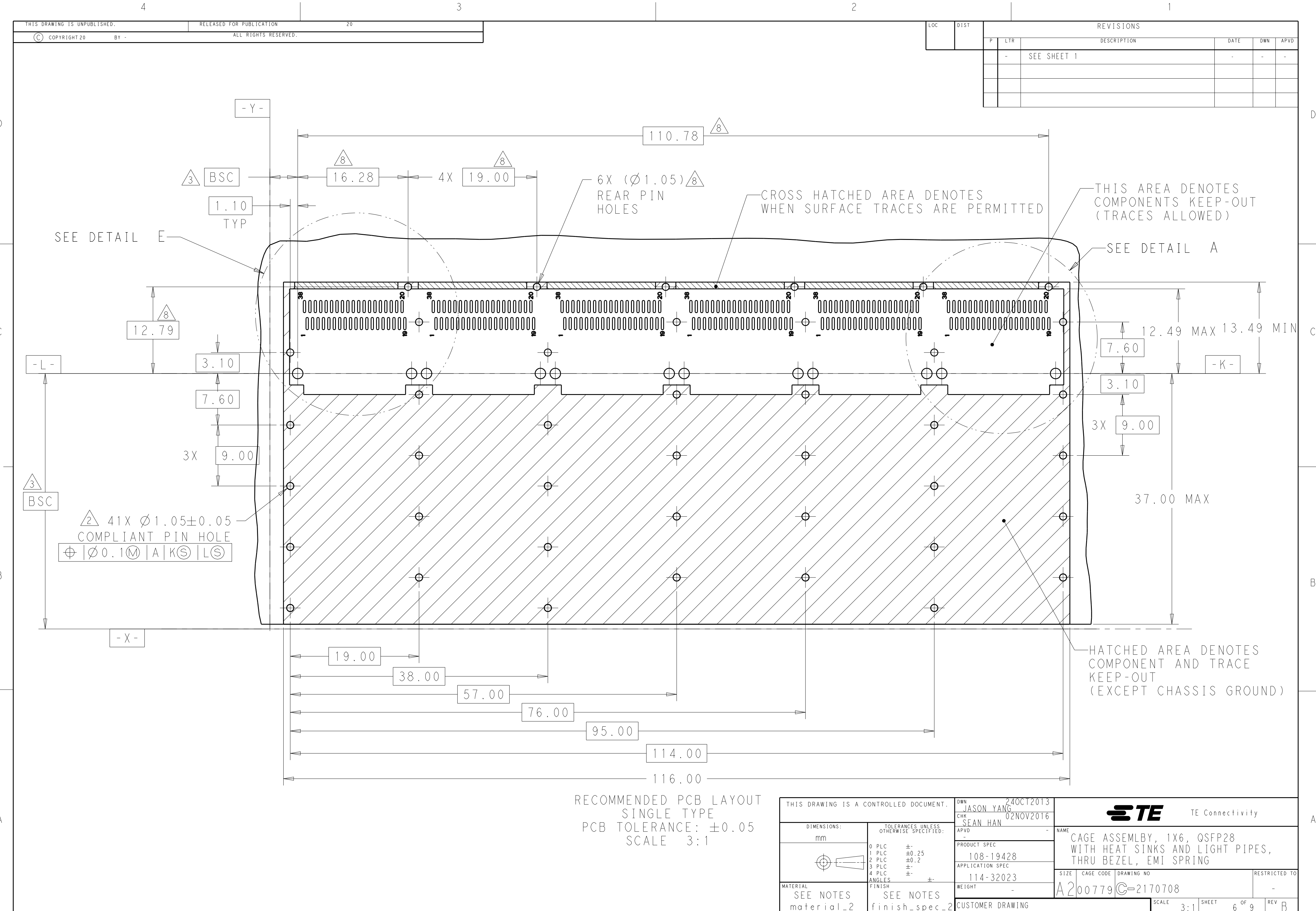
REVISIONS

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

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		CHK 02NOV2016 SEAN HAN				
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD -	NAME CAGE ASSEMBLY, 1X6, QSP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING			
mm	0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±-	PRODUCT SPEC 108-19428				
	FINISH	APPLICATION SPEC 114-32023	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
MATERIAL SEE NOTES material_2	SEE NOTES finish_spec_2	WEIGHT -	A200779		C-2170708	-
CUSTOMER DRAWING		SCALE 3:1	SHEET 3	OF 9	REV B	







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

110.78

16.28

4X 19.00

6X (Ø1.05) REAR PIN HOLES

CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED

THIS AREA DENOTES COMPONENTS KEEP-OUT (TRACES ALLOWED)

SEE DETAIL E

SEE DETAIL A

12.79

3.10

7.60

3X 9.00

12.49 MAX 13.49 MIN

7.60

3.10

3X 9.00

37.00 MAX

19.00

38.00

57.00

76.00

95.00

114.00

116.00

41X Ø1.05±0.05 COMPLIANT PIN HOLE

Ø0.1 | M | A | K | S | L | S

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

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DWN 24OCT2013 JASON YANG

CHK 02NOV2016 SEAN HAN

APVD -

PRODUCT SPEC 108-19428

APPLICATION SPEC 114-32023

WEIGHT -

CUSTOMER DRAWING

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±

1 PLC ±0.25

2 PLC ±0.2

3 PLC ±

4 PLC ±

ANGLES ±

FINISH

SEE NOTES material_2

SEE NOTES finish_spec_2

TE Connectivity

CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING

SIZE A2

CAGE CODE 00779

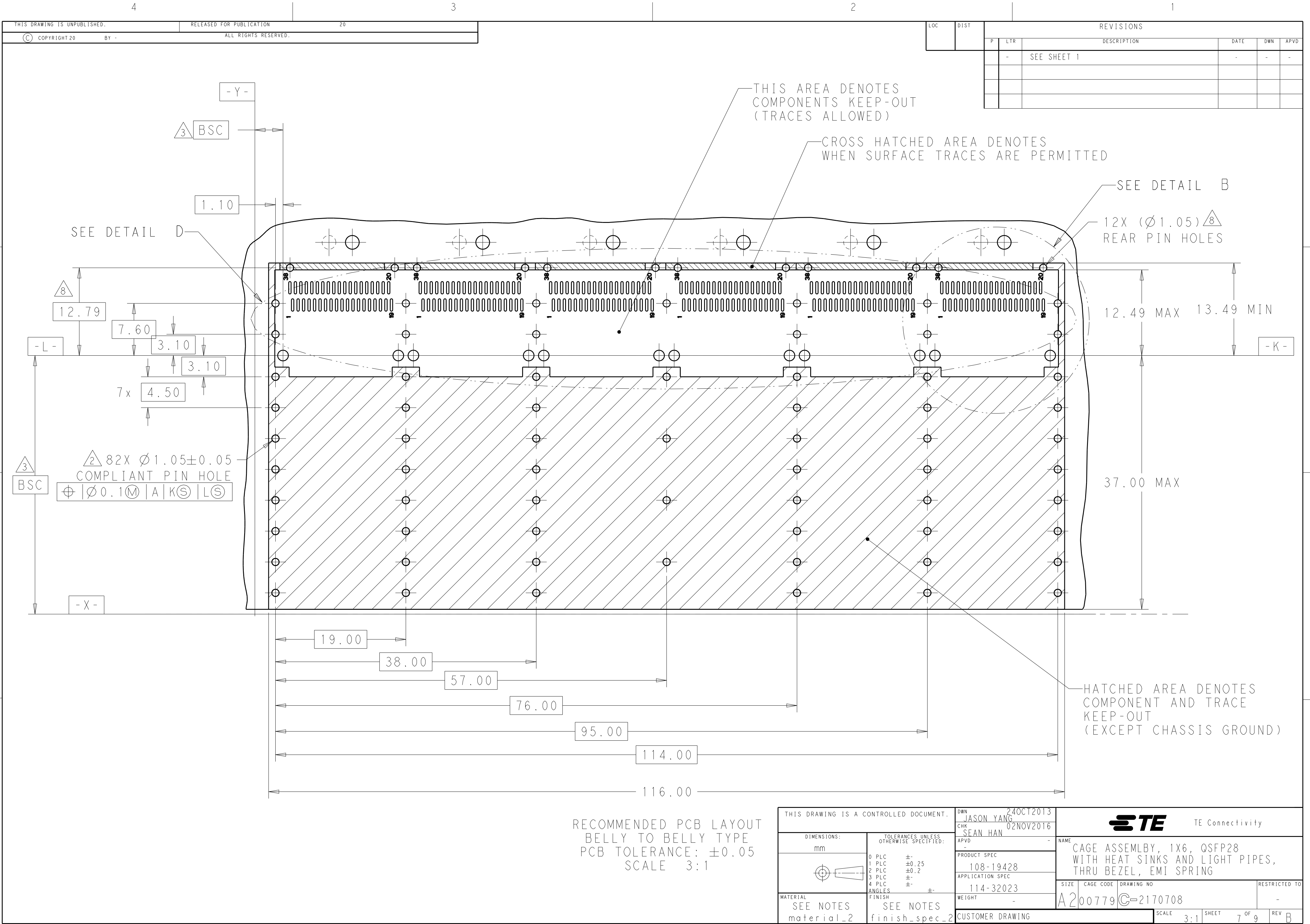
DRAWING NO C-2170708

RESTRICTED TO -

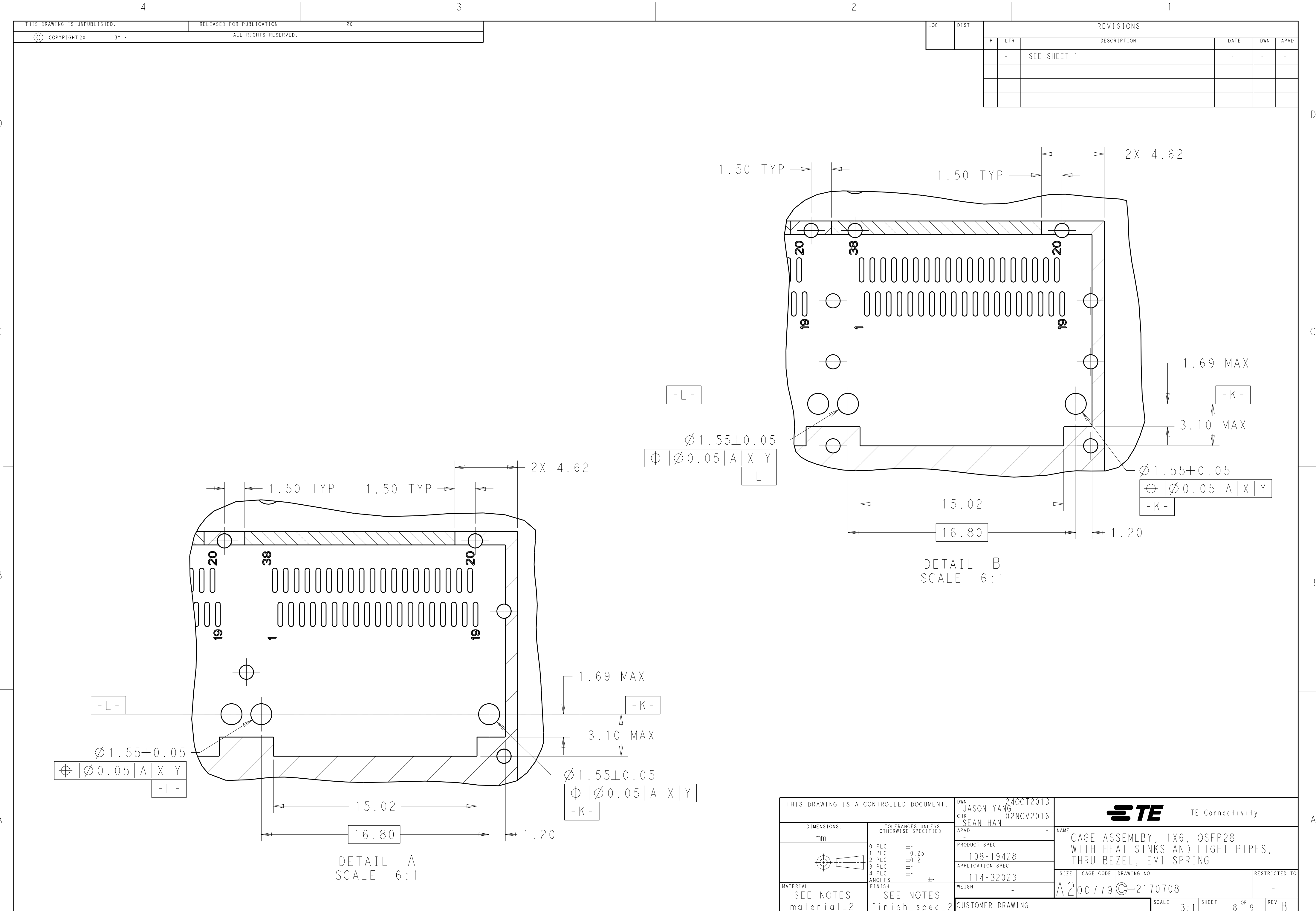
SCALE 3:1

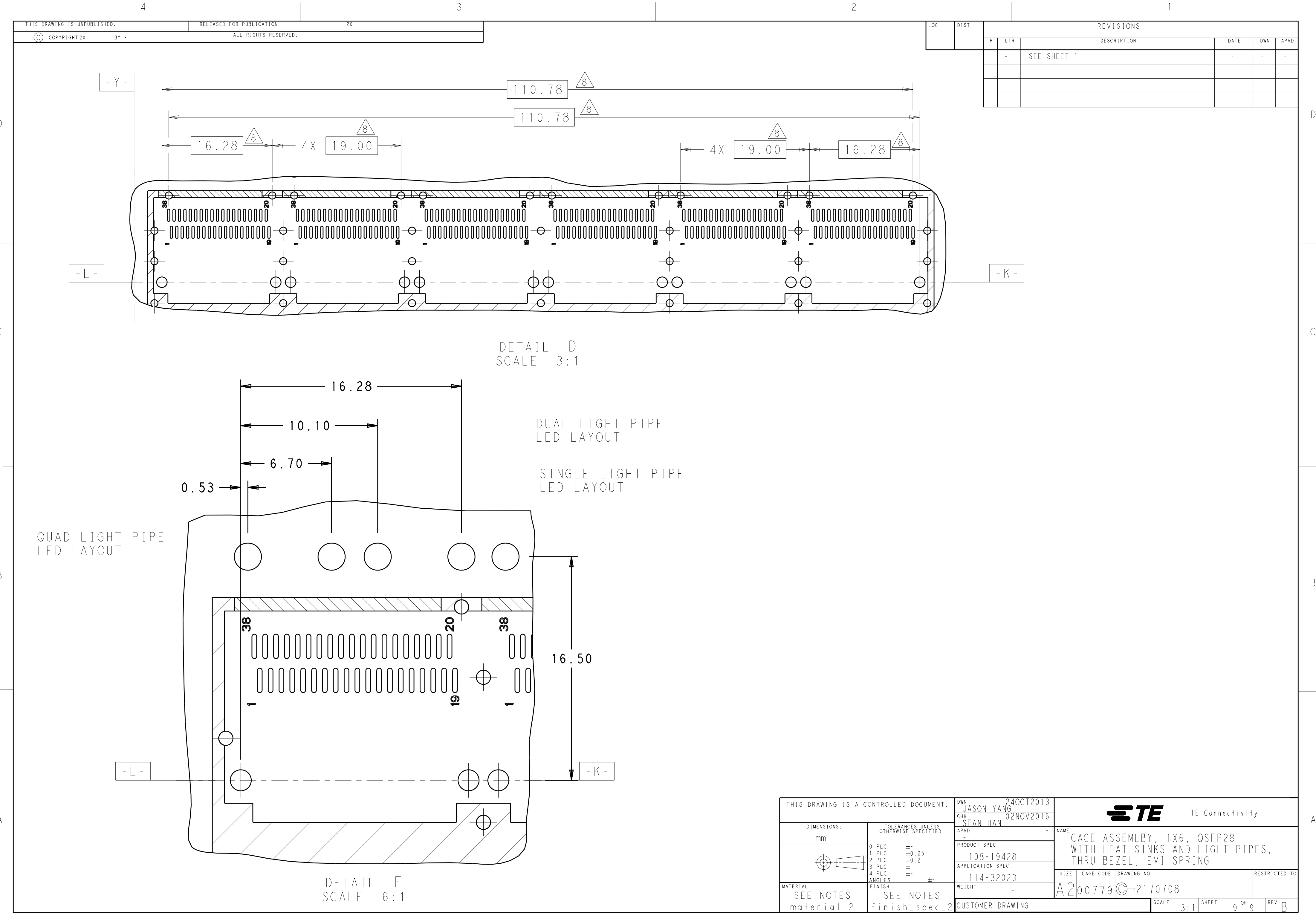
SHEET 6 OF 9

REV B



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 24OCT2013 JASON YANG	 TE Connectivity	
		CHK 02NOV2016 SEAN HAN		
DIMENSIONS: mm		APVD -	NAME	
		PRODUCT SPEC 108-19428	CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING	
		APPLICATION SPEC 114-32023		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		WEIGHT -	SIZE A2	CAGE CODE 00779
0 PLC ±			DRAWING NO C-2170708	RESTRICTED TO -
1 PLC ±0.25				
2 PLC ±0.2				
3 PLC ±				
4 PLC ±				
ANGLES ±				
MATERIAL SEE NOTES material_2	FINISH SEE NOTES finish_spec_2	CUSTOMER DRAWING		SCALE 3:1
				SHEET 7 OF 9
				REV B





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

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		CHK SEAN HAN			
DIMENSIONS:		APVD -	NAME		
mm		PRODUCT SPEC	CAGE ASSEMBLY, 1X6, QSFP28		
		108-19428	WITH HEAT SINKS AND LIGHT PIPES,		
		APPLICATION SPEC	THRU BEZEL, EMI SPRING		
		114-32023	SIZE	CAGE CODE	DRAWING NO
		WEIGHT -	A200779	C-2170708	RESTRICTED TO
MATERIAL	FINISH	CUSTOMER DRAWING	SCALE 3:1	SHEET 9 OF 9	REV B
SEE NOTES material_2	SEE NOTES finish_spec_2				

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[2-2170708-3](#)