

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		1	PRELIMINARY	24OCT2013	JY	-
			2	UPDATE	05DEC2013	JY	-
			3	UPDATE HEAT SINK AND LIGHT PIPE	18MAR2014	JY	-

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-*****

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: 3.00 MIN

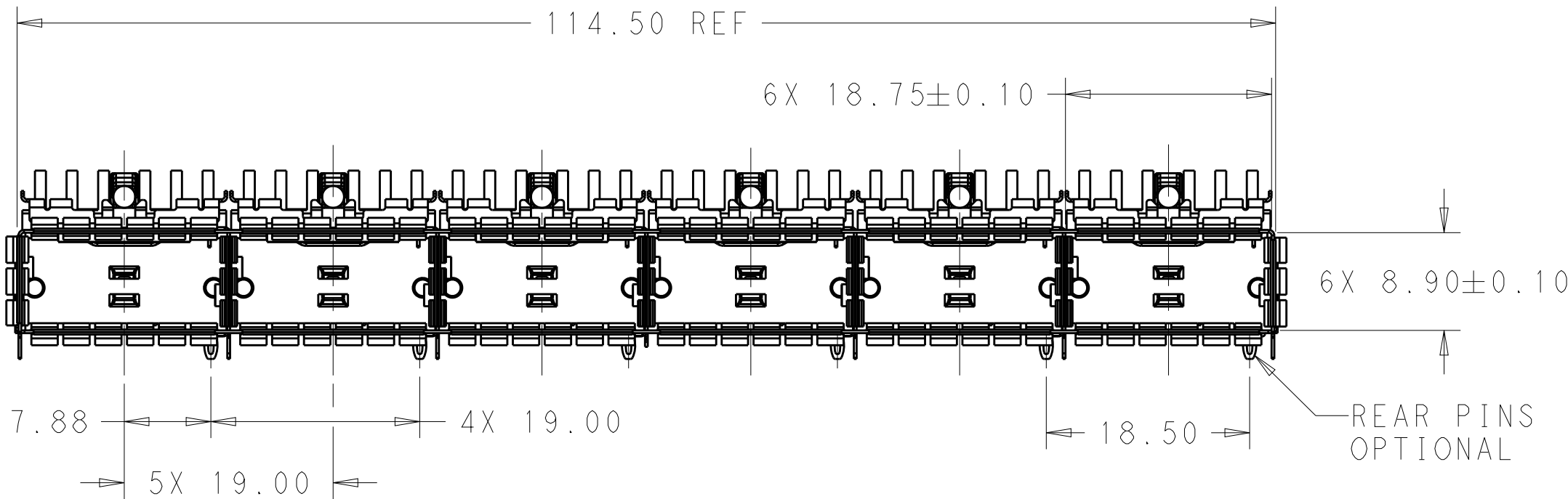
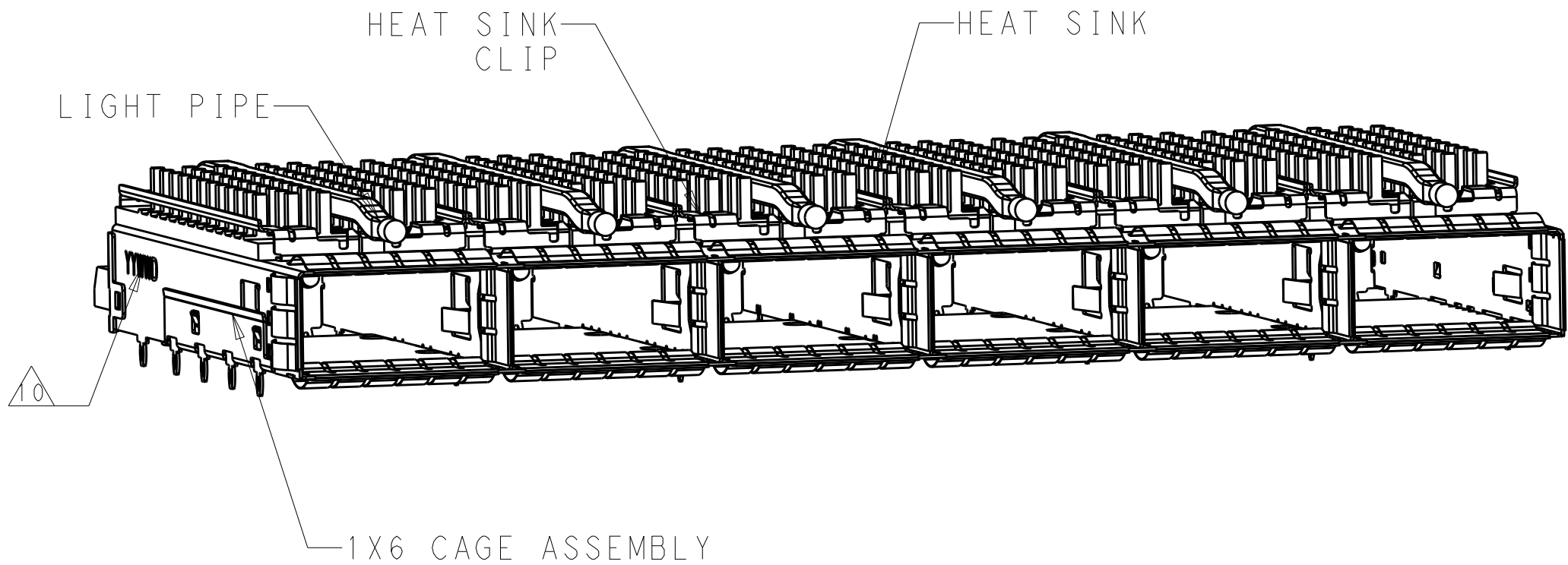
7. DATUM -A- IS TOP SURFACE OF THE HOST BOARD.

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

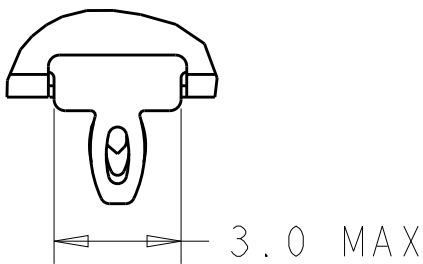
9. MATES WITH QSFP28 MSA COMPATIBLE TRANSCEIVER.

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

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

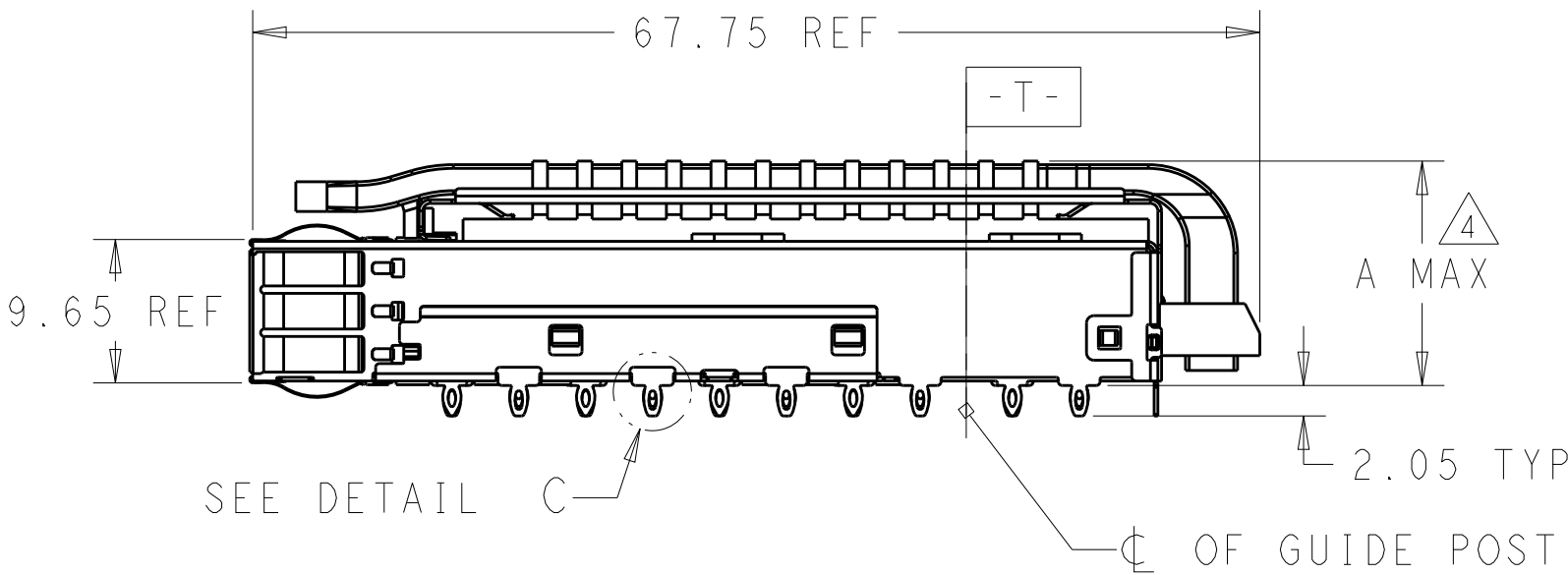


SCALE 2:1



DETAIL C

SCALE 6:1

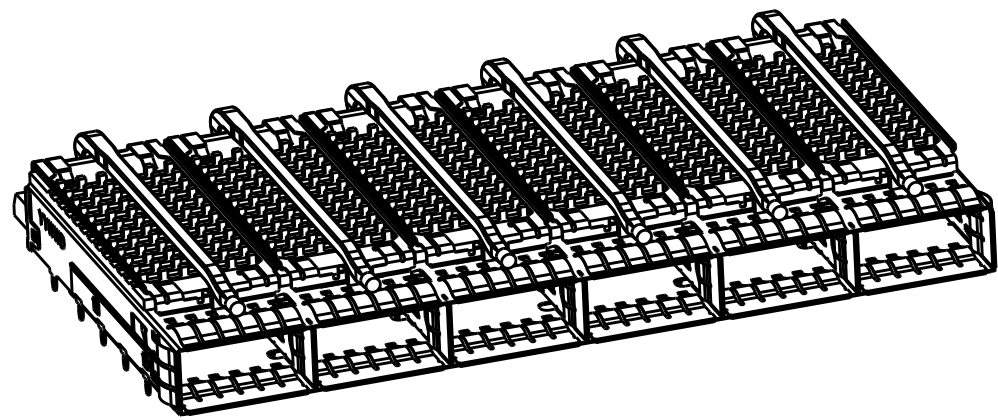


PRELIMINARY PART- NOT RELEASED FOR PRODUCTION

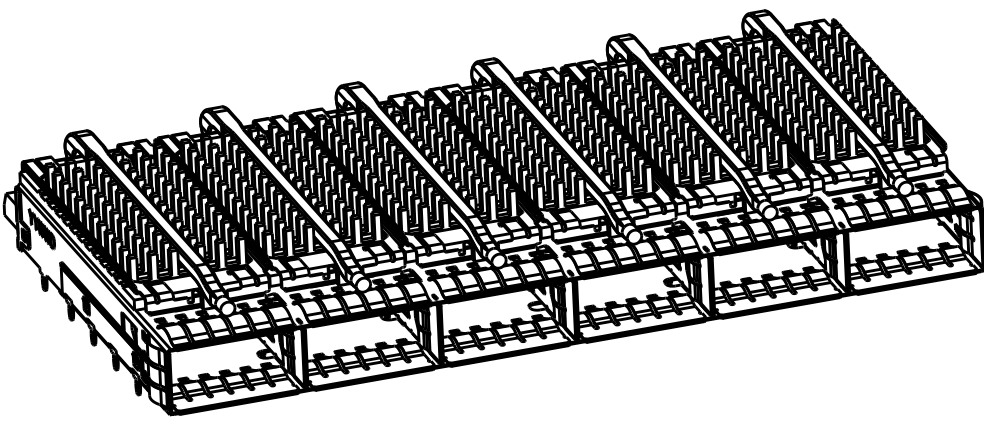
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	24OCT2013	TE Connectivity PRELIMINARY		
		CHK	JASON YANG			
		APVD	-			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING	
mm				-		
		0 PLC	±-	APPLICATION SPEC	SIZE	CAGE CODE
		1 PLC	±0.25	-	A200779	C-2170708
		2 PLC	±0.2	-	SCALE	3:1
		3 PLC	±-	WEIGHT	SHEET	1 OF 9
		4 PLC	±-	Customer Drawing	REV	3
		ANGLES	±-			
		FINISH	±-			
SEE NOTES		SEE NOTES				

LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-		SEE SHEET 1	-	-	-

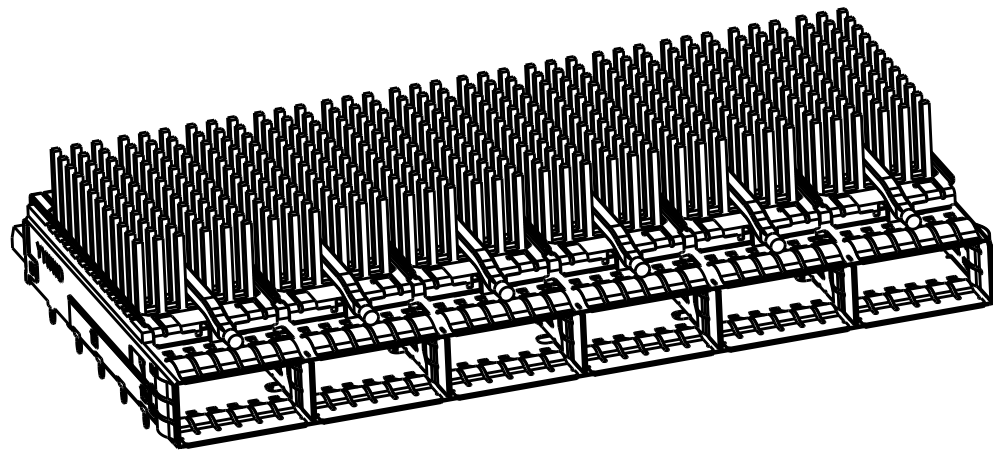
HEAT SINK OPTION



PCI HEAT SINK
SCALE 1:1

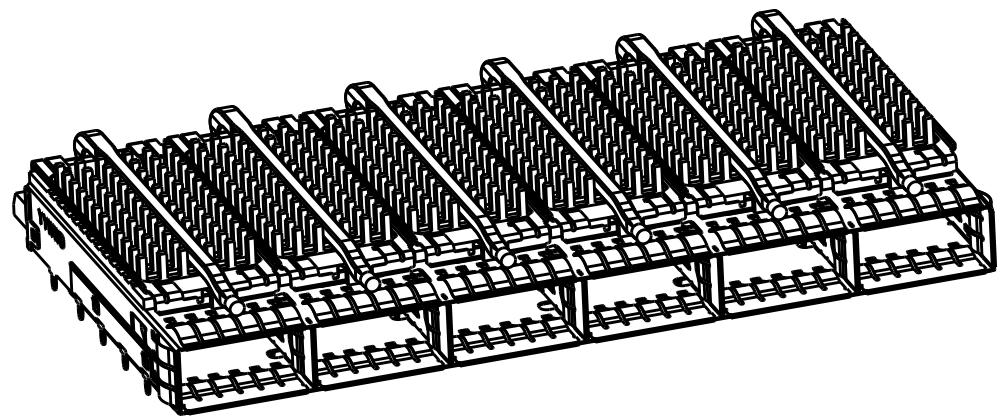


SAN HEAT SINK
SCALE 1:1

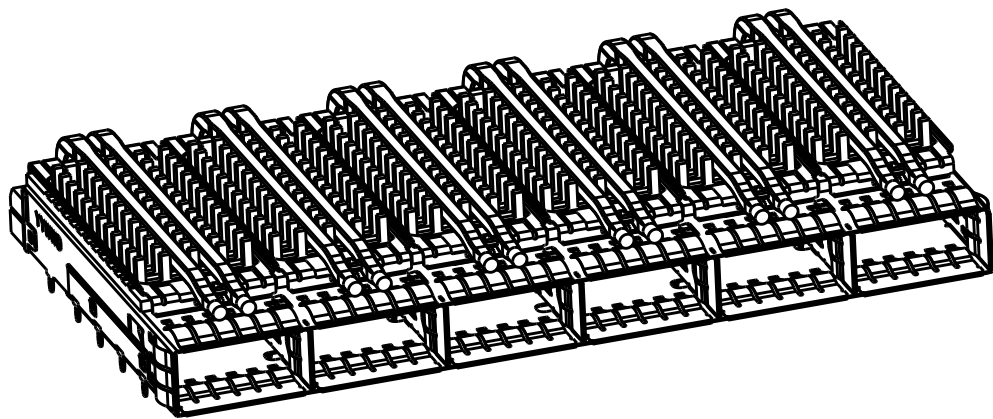


NETWORKING
SCALE 1:1

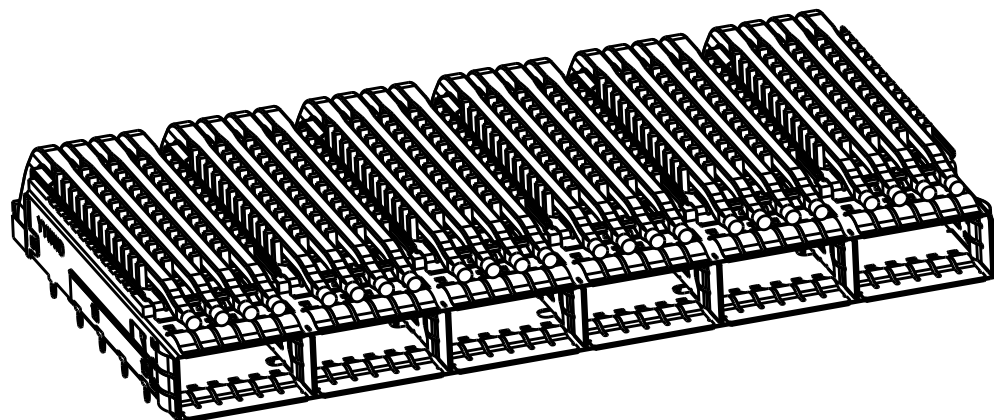
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 1:1

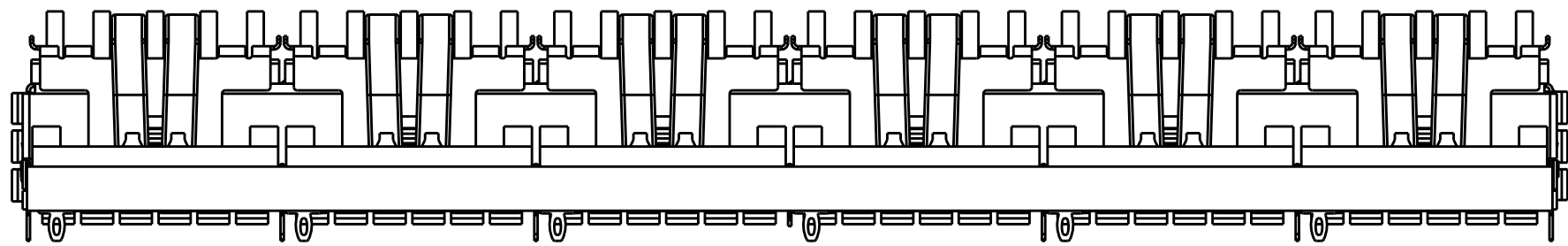


DUAL LIGHT PIPE
SCALE 1:1

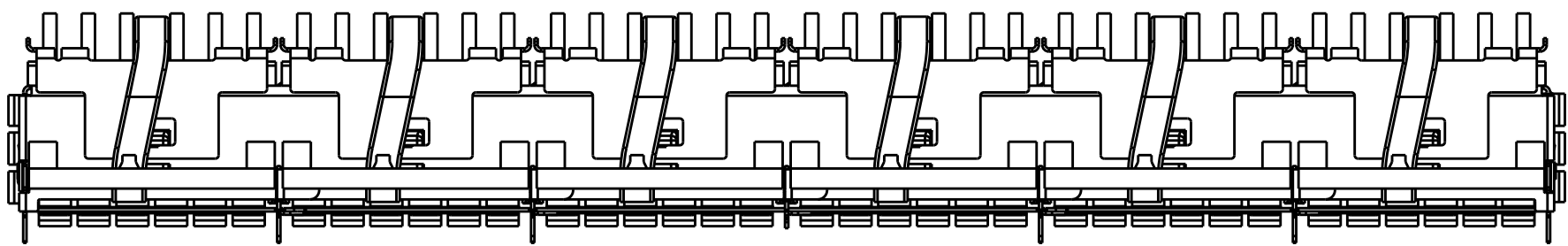


QUAD LIGHT PIPE
SCALE 1:1

OF REAR LEGS OPTIONS



1 REAR LEGS
SCALE 2:1



0 REAR LEGS
SCALE 2:1

PRELIMINARY PART- NOT RELEASED FOR PRODUCTION

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 24OCT2013 JASON YANG	TE Connectivity			
DIMENSIONS:		CHK				
mm		APVD	NAME			
		PRODUCT SPEC	CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING			
		APPLICATION SPEC	SIZE			
MATERIAL		WEIGHT	CAGE CODE		DRAWING NO	
SEE NOTES		Customer Drawing	A200779		C-2170708	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		SCALE	SHEET		REV	
0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ± FINISH		3:1	2		9	

4

3

2

1

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LOC

DIST

GP00

REVISIONS

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

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	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
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

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 24OCT2013
JASON YANG

CHK -

APVD -

PRODUCT SPEC -

APPLICATION SPEC -

WEIGHT -

NAME

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

SIZE CAGE CODE DRAWING NO RESTRICTED TO

A200779C-2170708 -

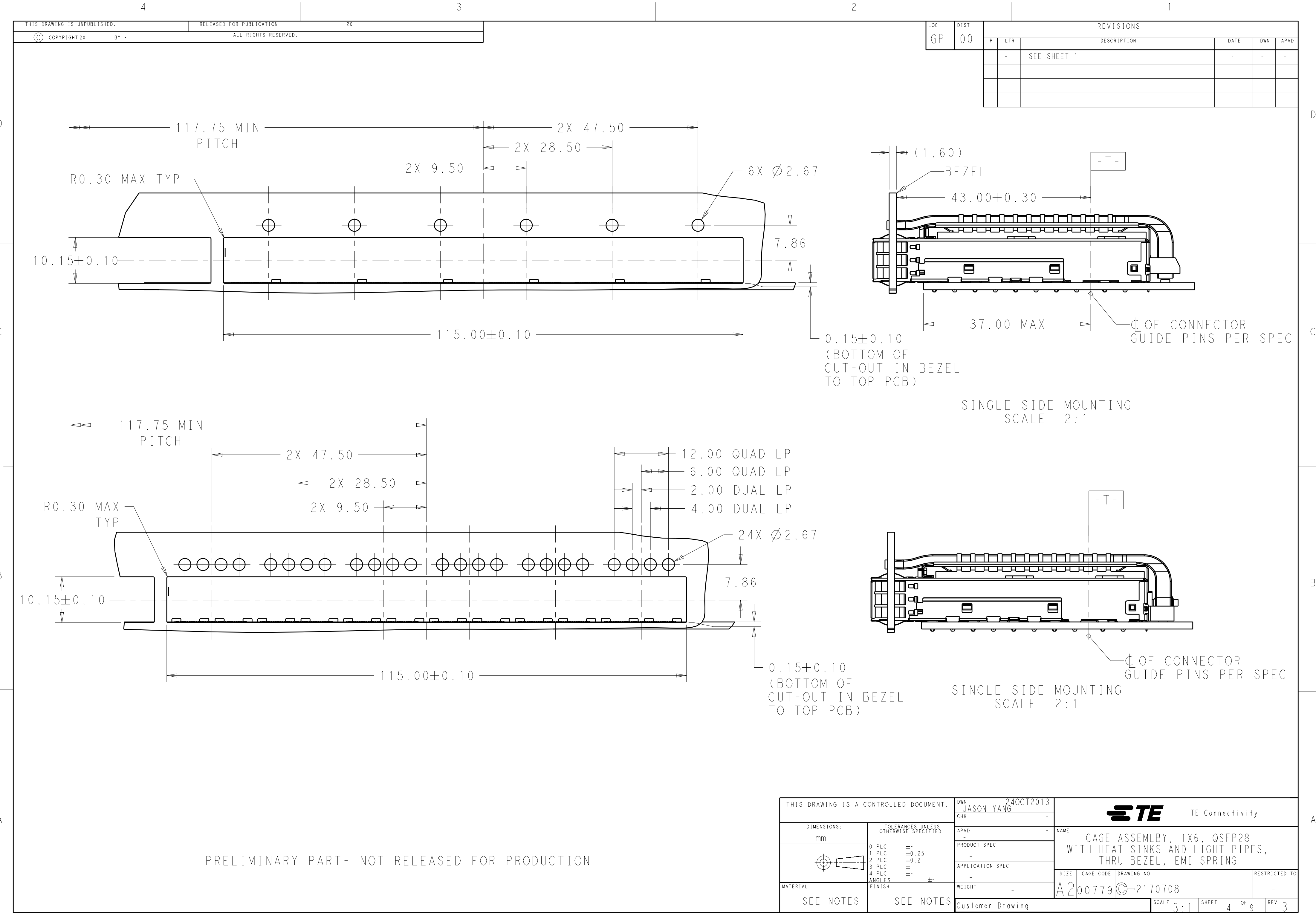
Customer Drawing

SCALE 3:1

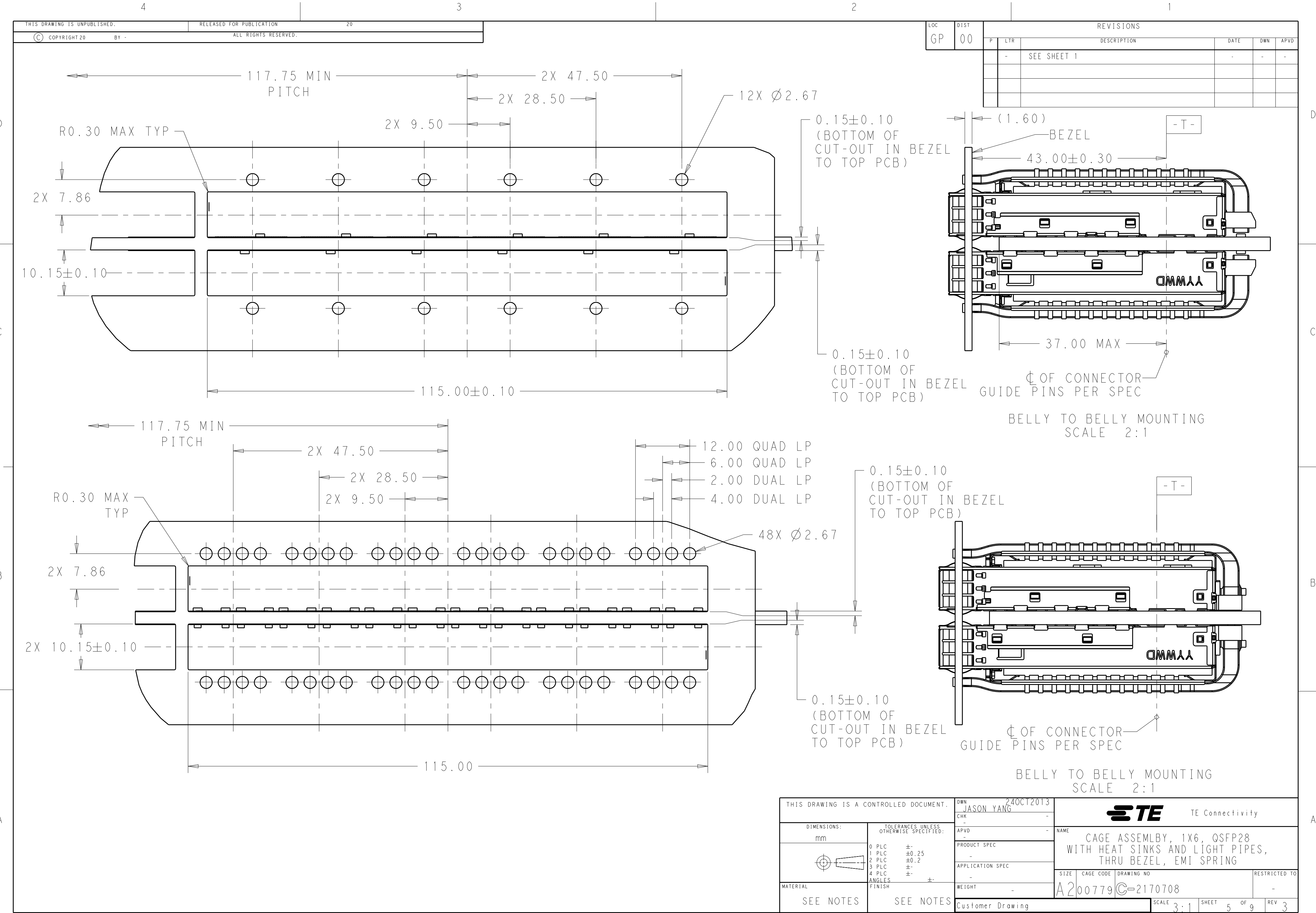
SHEET 3 OF 9

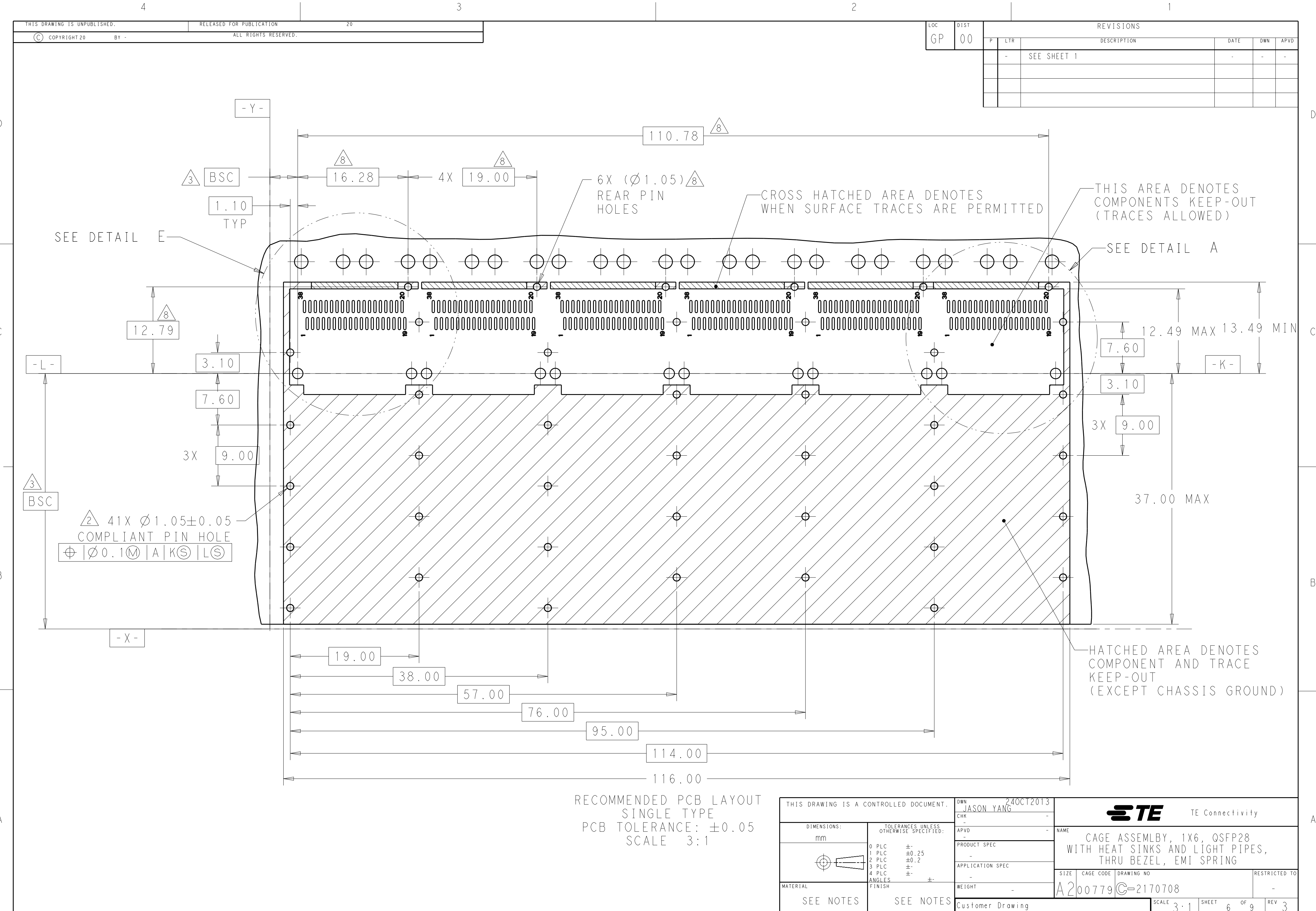
REV 3

1471-9 (3/11)



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DIMENSIONS:		CHK JASON YANG				
mm		APVD	NAME			
		PRODUCT SPEC	CAGE ASSEMBLY, 1X6, QSFP28			
		APPLICATION SPEC	WITH HEAT SINKS AND LIGHT PIPES,			
MATERIAL		WEIGHT	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
SEE NOTES		Customer Drawing	A200779	C-2170708		-
TOLERANCES UNLESS OTHERWISE SPECIFIED:			SCALE 3:1 SHEET 4 OF 9 REV 3			
0 PLC ±						
1 PLC ±0.25						
2 PLC ±0.2						
3 PLC ±						
4 PLC ±						
ANGLES ±						
FINISH						



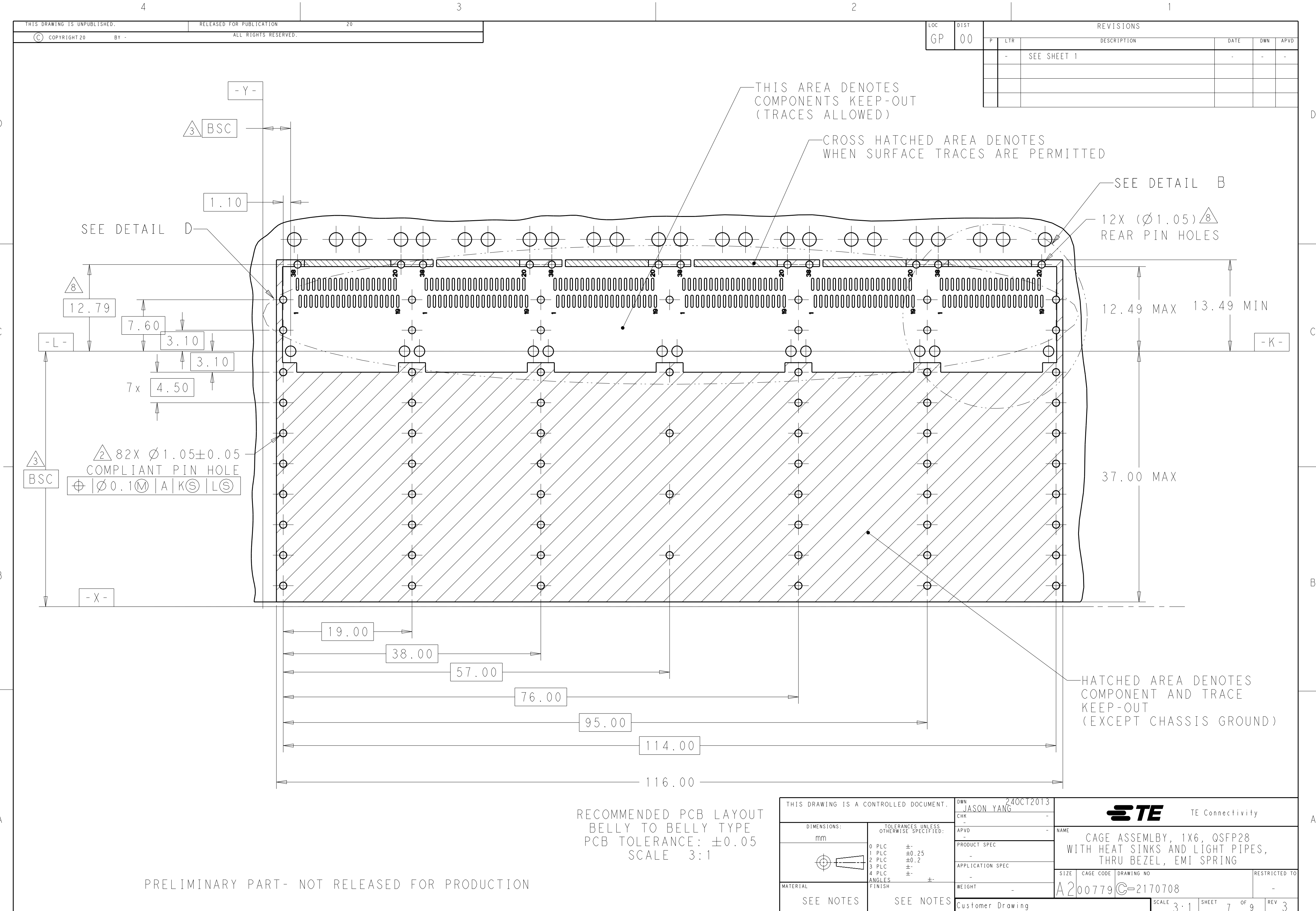


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LOC	DIST	REVISIONS				
GP	00	P	LTR	DESCRIPTION	DATE	DWN
				SEE SHEET 1	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	24OCT2013
		CHK	JASON YANG
		APVD	-
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
mm			
		0 PLC	±-
		1 PLC	±0.25
		2 PLC	±0.2
		3 PLC	±-
		4 PLC	±-
		ANGLES	±-
		FINISH	±-
MATERIAL		WEIGHT	
SEE NOTES		SEE NOTES	
		Customer Drawing	

NAME		CAGE CODE		DRAWING NO	RESTRICTED TO
CAGE ASSEMBLY, 1X6, QSP28		A200779		C-2170708	-
SIZE		SCALE		SHEET	REV
3:1		3:1		6	3



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LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

THIS AREA DENOTES COMPONENTS KEEP-OUT (TRACES ALLOWED)

CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED

SEE DETAIL B

12X (Ø1.05) REAR PIN HOLES

12.49 MAX 13.49 MIN

37.00 MAX

19.00 38.00 57.00 76.00 95.00 114.00 116.00

82X Ø1.05±0.05 COMPLIANT PIN HOLE

7x 4.50

12.79 7.60 3.10 3.10

1.10

-Y-

-L-

-X-

-K-

HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

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

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DWN 24OCT2013
CHK JASON YANG
APVD

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

MATERIAL SEE NOTES

SEE NOTES

Customer Drawing

TE Connectivity

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

SIZE A200779 CAGE CODE C-2170708 DRAWING NO. 2170708

RESTRICTED TO

SCALE 3:1 SHEET 7 OF 9 REV 3

PRELIMINARY PART- NOT RELEASED FOR PRODUCTION

LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			-	SEE SHEET 1	-	-	-

D

D

C

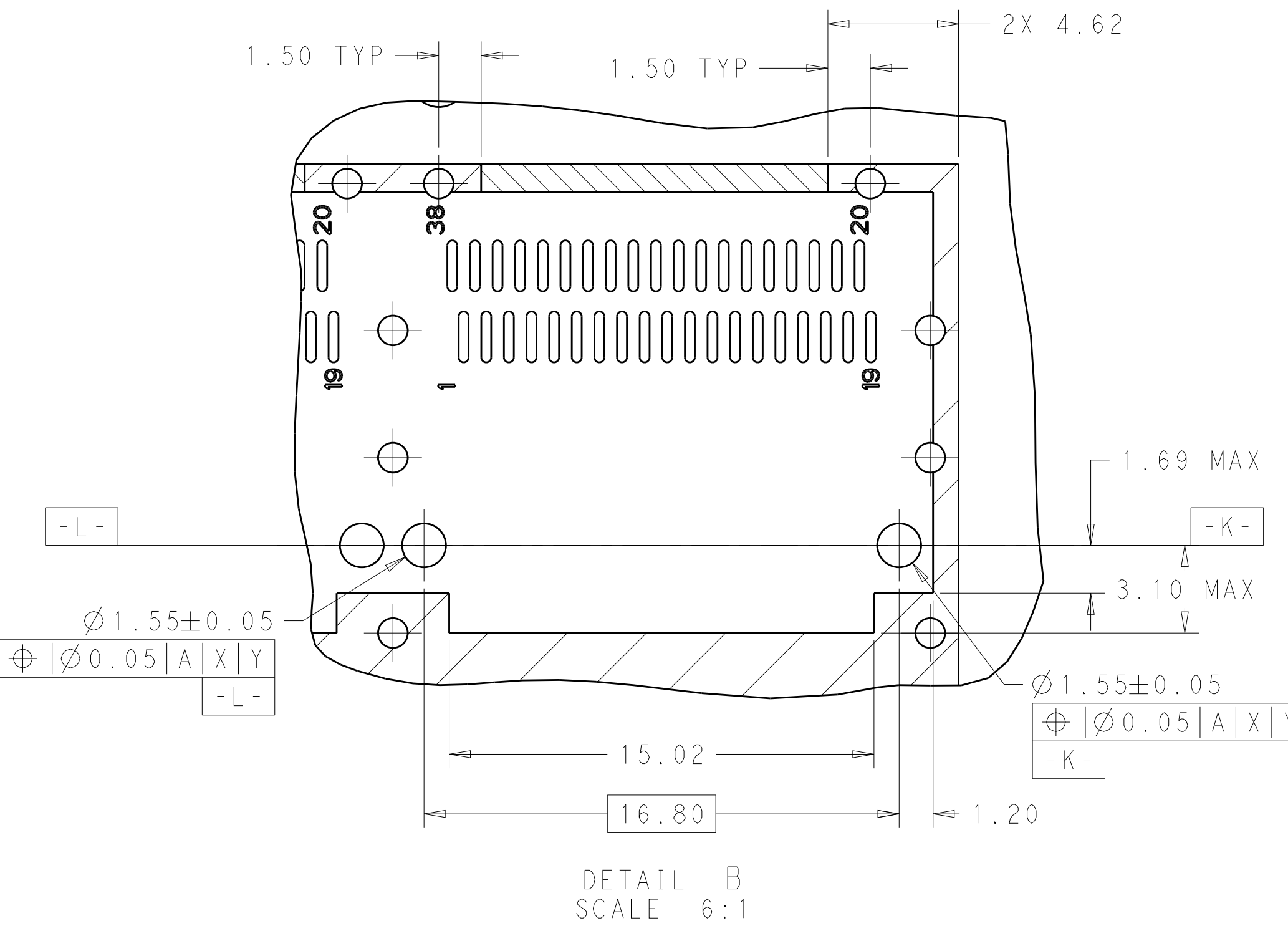
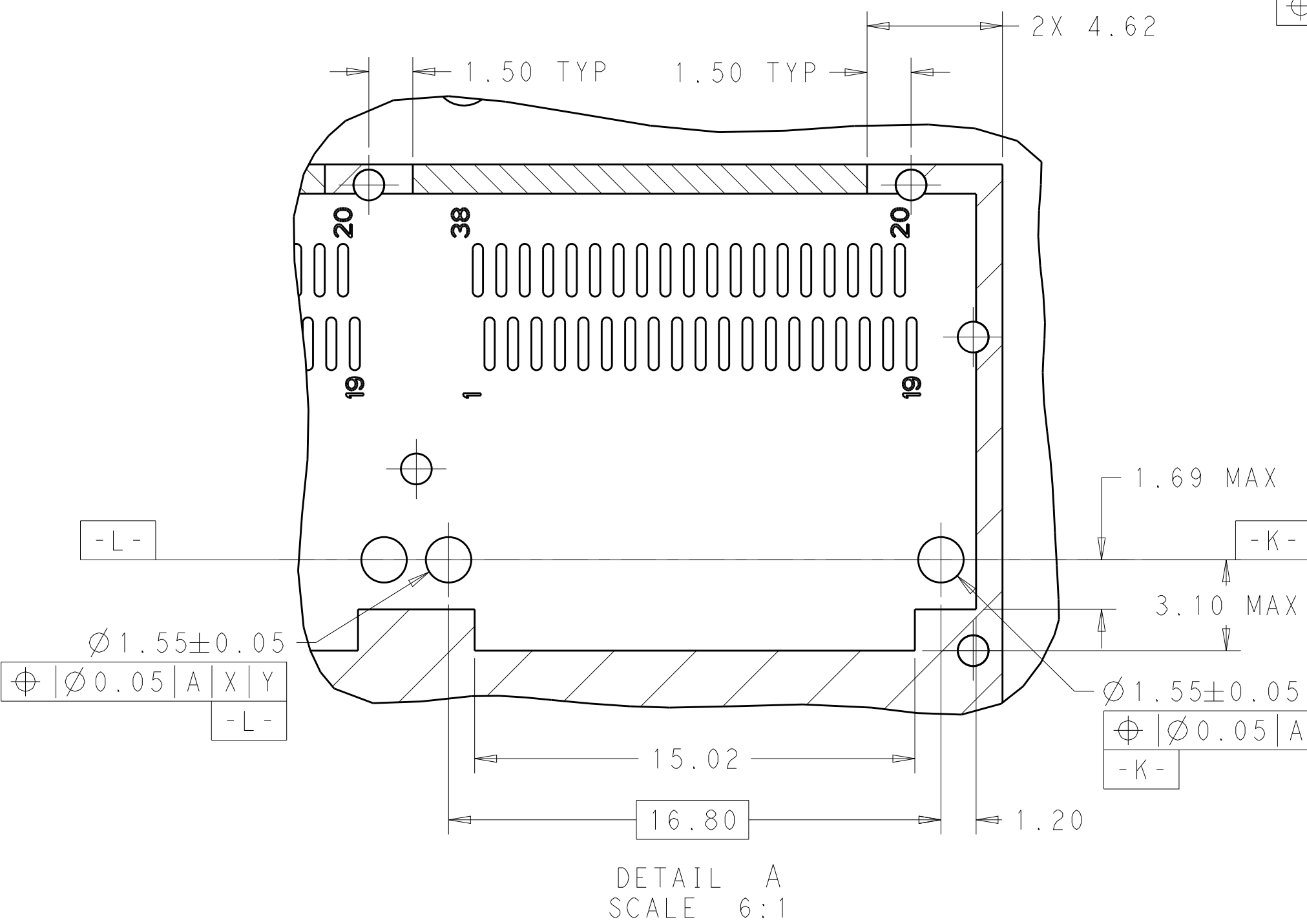
C

B

B

A

A



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		CHK	JASON YANG			
DIMENSIONS:		APVD	-	NAME		
mm		PRODUCT SPEC	-			
		APPLICATION SPEC	-	CAGE ASSEMBLY, 1X6, QSFP28 WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, EMI SPRING		
		WEIGHT	-			
MATERIAL		TOLERANCES UNLESS OTHERWISE SPECIFIED:		SIZE	CAGE CODE	DRAWING NO
SEE NOTES		0 PLC ±-		A200779	C-2170708	RESTRICTED TO
		1 PLC ±0.25				-
		2 PLC ±0.2		SCALE 3:1 SHEET 8 OF 9 REV 3		
		3 PLC ±-				
		4 PLC ±-				
		ANGLES ±-				
		FINISH ±-				

