

HEAT SINK CLIP

HEAT SINK

LIGHT PIPE

1x2 CAGE ASSEMBLY

2-2170808-1 AS SHOWN

SCALE 2:1

10

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

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.

11

 NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLY WITH LIGHT PIPE.

12

 PRELIMINARY PART - NOT RELEASED FOR PRODUCTION.

38.50 REF

2X 18.75±0.10

2X 8.90±0.10

7.88

18.50

REAR PIN
OPTIONAL

SCALE 2:1

67.75 REF

B REF

12.79 REF

11.60 REF

9.65 REF

13.40

4.50

SEE DETAIL E

SECTION A-A
D-D

15.11 REF

1.01

A MAX

2.05 TYP

OF GUIDE POST

DETAIL E

SCALE 4:1

3.0 MAX

1471-9 (3/13)

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DWN BING LIU 16SEP2014
CHK JASON YANG 16SEP2014
APVD -

PRODUCT SPEC 108-19428
APPLICATION SPEC 114-32023
WEIGHT -

CUSTOMER DRAWING

TE Connectivity

NAME RECEPTACLE CAGE ASSEMBLY
1X2, QSFP28, THRU BEZEL, SPRING
WITH HEAT SINKS AND LIGHT PIPES

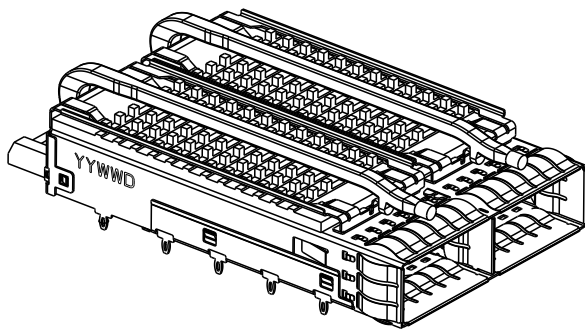
SIZE A2 CAGE CODE 00779 DRAWING NO C-2170808

RESTRICTED TO -

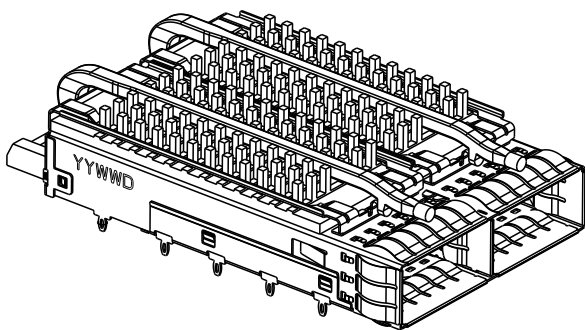
SCALE 1:1 SHEET 1 OF 9 REV B1

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

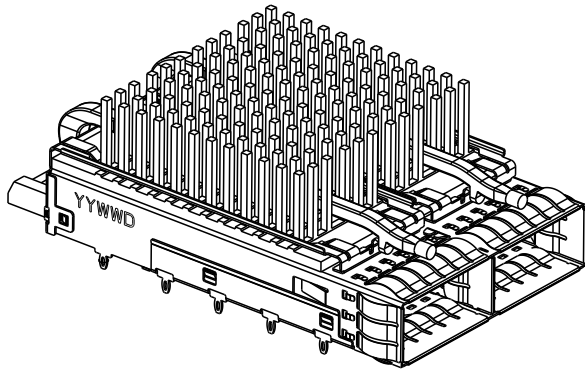
HEAT SINK OPTION



PCI HEAT SINK HEIGHT
SCALE 1:1

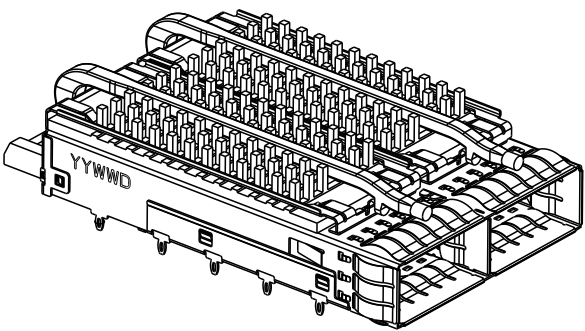


SAN HEAT SINK HEIGHT
SCALE 1:1

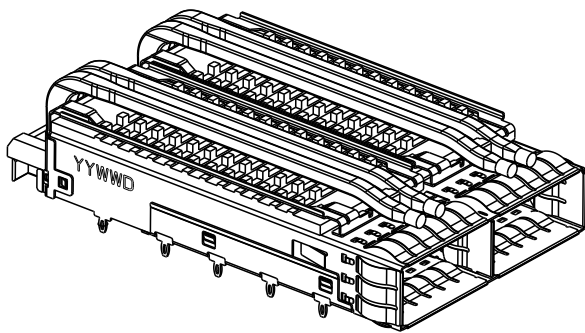


NETWORKING HEAT SINK HEIGHT
SCALE 1:1

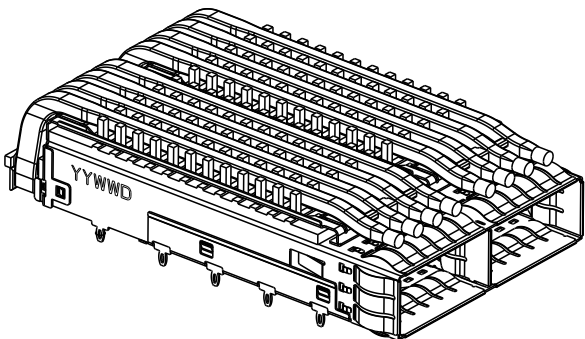
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 1:1

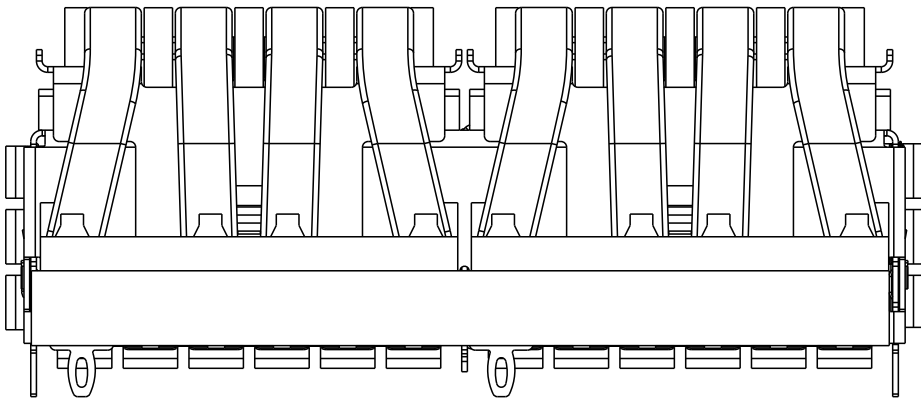


DUAL LIGHT PIPE
SCALE 1:1

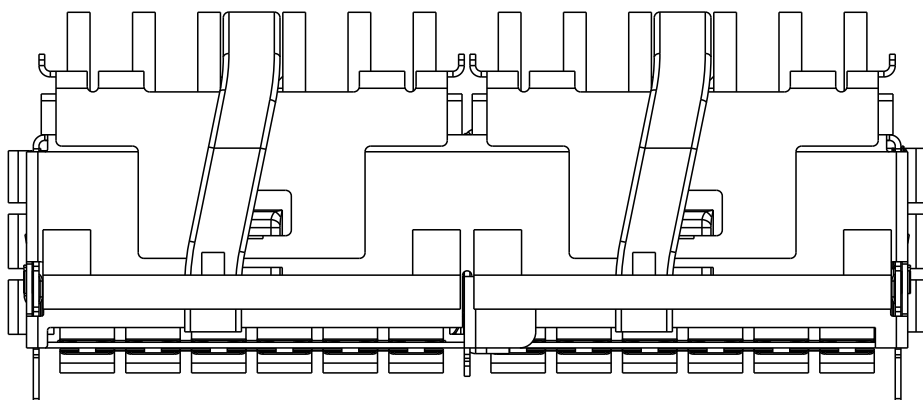


QUAD LIGHT PIPE
SCALE 1:1

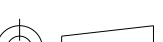
OF REAR PIN OPTION



1 REAR PIN
SCALE 3:1



0 REAR PIN
SCALE 3:1

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		CHK JASON YANG 16SEP2014					
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RECEPTACLE CAGE ASSEMBLY 1X2, QSFP28, THRU BEZEL, SPRING WITH HEAT SINKS AND LIGHT PIPES			
mm		APVD -					
		PRODUCT SPEC 108-19428		SIZE A200779 CAGE CODE C=2170808 DRAWING NO RESTRICTED TO -			
		APPLICATION SPEC 114-32023					
		WEIGHT -					
		CUSTOMER DRAWING					
		SCALE 1:1					
MATERIAL SEE NOTES -		FINISH SEE NOTES -		SHEET 2 OF 9		REV B1	

4

3

2

1

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RELEASED FOR PUBLICATION

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REVISIONS

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

0	3.4	16.0	SAN	COATED QUAD LP	5-2170808-5
0	2.9	30.0	CUSTOMIZED	QUAD LP	2170808-8
1	2.9	18.4	CUSTOMIZED	QUAD LP	4-2170808-7
0	2.9	23.0	NETWORKING	QUAD LP	4-2170808-6
0	2.9	16.0	SAN	QUAD LP	4-2170808-5
0	2.9	13.7	PCI	QUAD LP	4-2170808-4
1	2.9	23.0	NETWORKING	QUAD LP	4-2170808-3
1	2.9	16.0	SAN	QUAD LP	4-2170808-2
1	2.9	13.7	PCI	QUAD LP	4-2170808-1
1	4.5	13.7	PCI	SHORTER, QUAD LP	4-2170808-0
0	2.9	23.0	NETWORKING	DUAL LP	2-2170808-6
0	2.9	16.0	SAN	DUAL LP	2-2170808-5
0	2.9	13.7	PCI	DUAL LP	2-2170808-4
1	2.9	23.0	NETWORKING	DUAL LP	2-2170808-3
1	2.9	16.0	SAN	DUAL LP	2-2170808-2
1	2.9	13.7	PCI	DUAL LP	2-2170808-1
0	2.9	23.0	NETWORKING	SINGLE LP	2170808-6
0	2.9	16.0	SAN	SINGLE LP	2170808-5
0	2.9	13.7	PCI	SINGLE LP	2170808-4
1	2.9	23.0	NETWORKING	SINGLE LP	2170808-3
1	2.9	16.0	SAN	SINGLE LP	2170808-2
1	2.9	13.7	PCI	SINGLE LP	2170808-1
# OF REAR PIN	DIM B (LP EXTRUDE)	DIM A (PRODUCT HEIGHT)	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
BING LIU
CHK
JASON YANG
APVD
-
PRODUCT SPEC
108-19428
APPLICATION SPEC
114-32023
WEIGHT
-

16SEP2014

16SEP2014

-

108-19428

114-32023

-

CUSTOMER DRAWING

SCALE 1:1

SHEET 3 OF 9

REV B1

TE

TE Connectivity

NAME

RECEPTACLE CAGE ASSEMBLY
1X2, QSFP28, THRU BEZEL, SPRING
WITH HEAT SINKS AND LIGHT PIPES

SIZE
A2

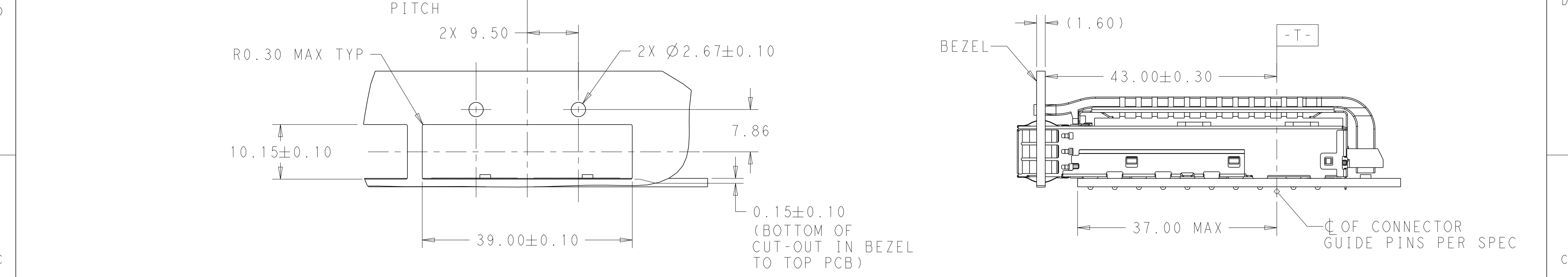
CAGE CODE
00779

DRAWING NO
C-2170808

RESTRICTED TO
-

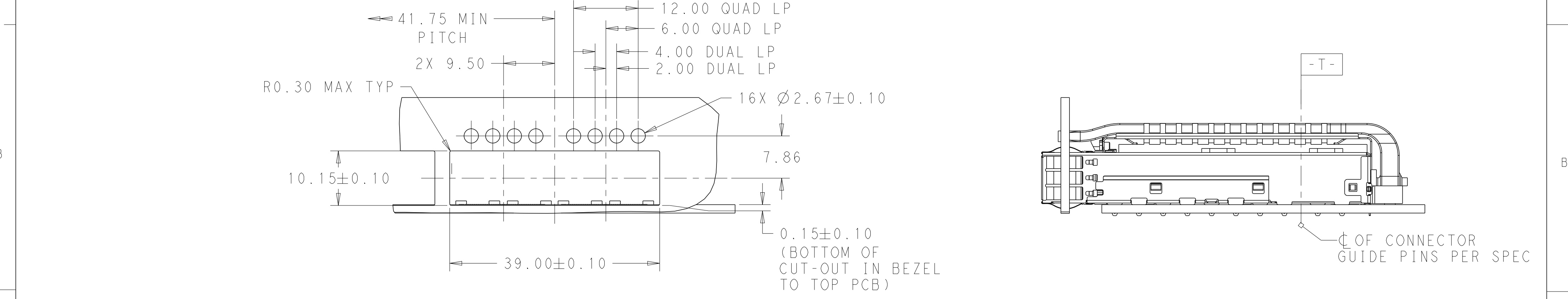
1471-9 (3/13)

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



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING
SCALE 2:1



CAGE ASSEMBLY IS OMITED

SINGLE SIDE MOUNTING
SCALE 2:1

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 BING LIU 16SEP2014

CHK JASON YANG 16SEP2014

APVD -

PRODUCT SPEC 108-19428

APPLICATION SPEC 114-32023

WEIGHT -

CUSTOMER DRAWING

TE Connectivity

NAME

RECEPTACLE CAGE ASSEMBLY
1X2, QSFP28, THRU BEZEL, SPRING
WITH HEAT SINKS AND LIGHT PIPES

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A200779

C-2170808

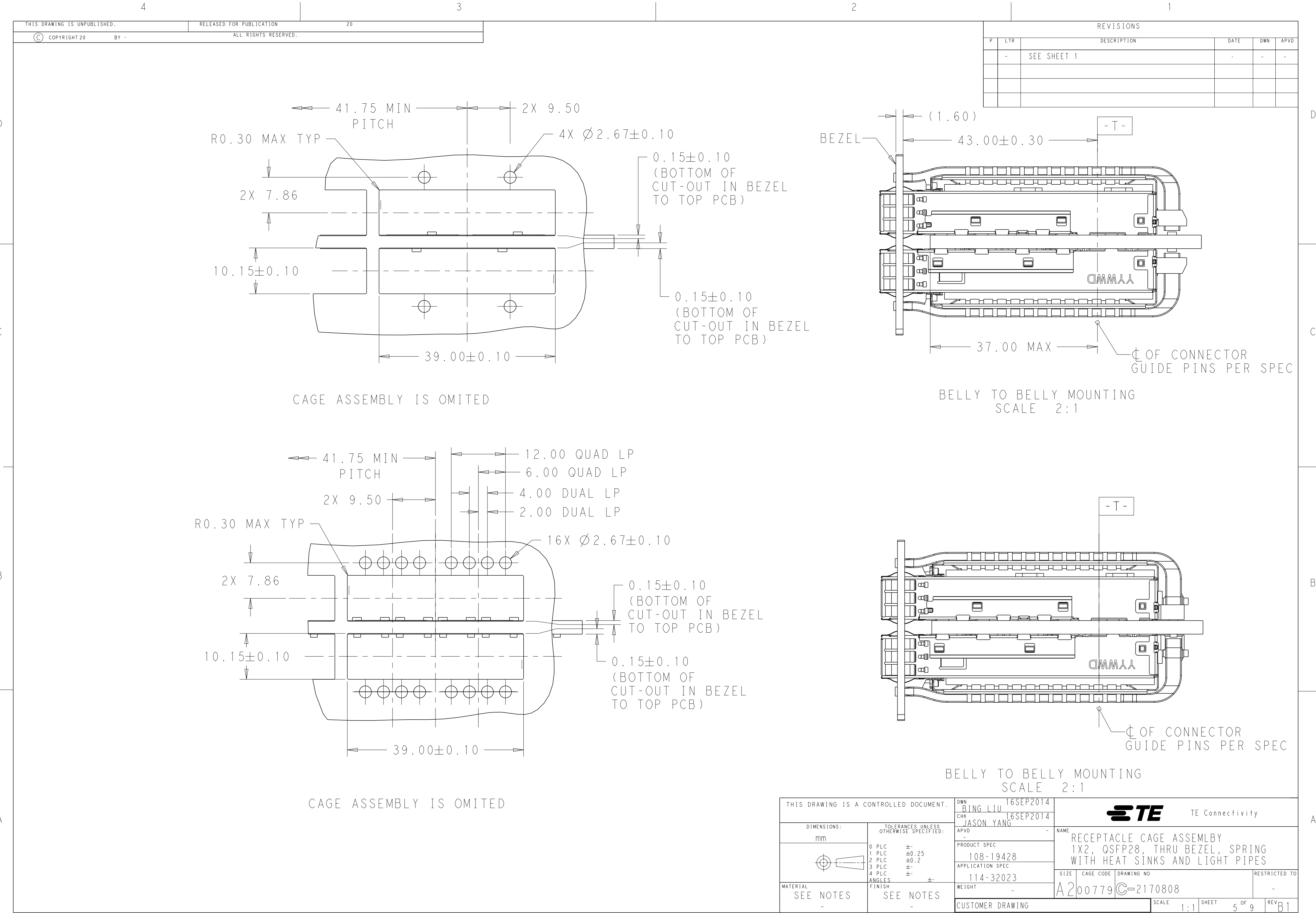
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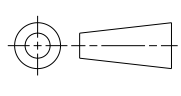
SCALE 1:1

SHEET 4 OF 9

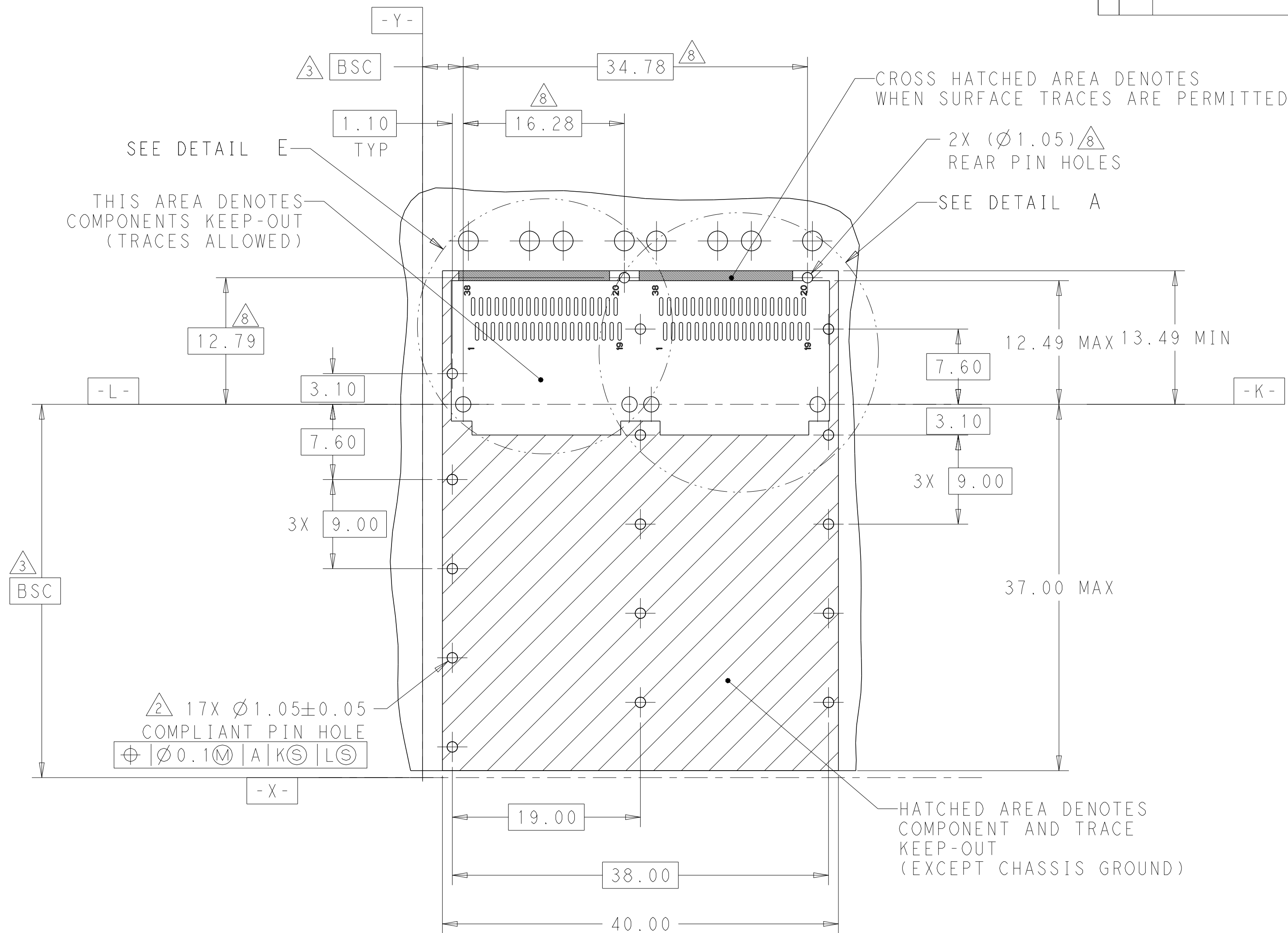
REV B1



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

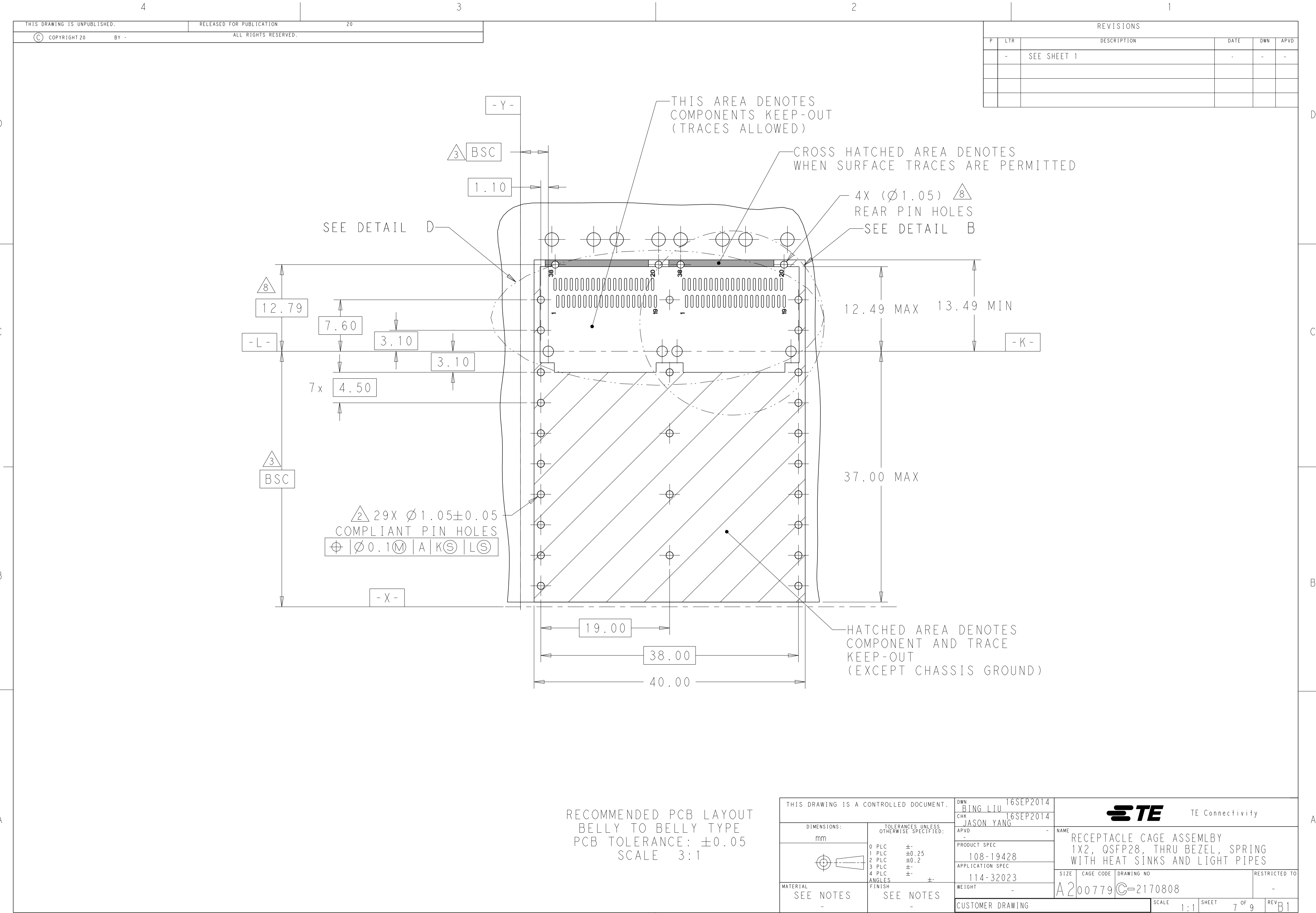
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN BING LIU CHK JASON YANG	16SEP2014	 TE Connectivity	
DIMENSIONS:		APVD	-		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	108-19428	NAME RECEPTACLE CAGE ASSEMBLY 1X2, QSFP28, THRU BEZEL, SPRING WITH HEAT SINKS AND LIGHT PIPES	
	0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ±	APPLICATION SPEC	114-32023	SIZE	CAGE CODE
MATERIAL SEE NOTES	FINISH SEE NOTES	WEIGHT	-	A200779	C-2170808
CUSTOMER DRAWING		SCALE	1:1	SHEET	5 OF 9
		REV	B1		

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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		CHR 16SEP2014 JASON YANG			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RECEPTACLE CAGE ASSEMBLY 1X2, QSFP28, THRU BEZEL, SPRING WITH HEAT SINKS AND LIGHT PIPES	
		APVD -			
0 PLC ±. 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±. 4 PLC ±. ANGLES ±. MATERIAL SEE NOTES FINISH SEE NOTES		PRODUCT SPEC 108-19428 APPLICATION SPEC 114-32023 WEIGHT -		SIZE A2 CAGE CODE 00779 DRAWING NO C-2170808 RESTRICTED TO -	
		CUSTOMER DRAWING		SCALE 1:1 SHEET 6 of 9 REV R1	



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REVISIONS					
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

4X (Ø1.05) REAR PIN HOLES SEE DETAIL B

SEE DETAIL D

12.79

7.60

3.10

3.10

4.50

7x

12.49 MAX

13.49 MIN

37.00 MAX

19.00

38.00

40.00

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

29X Ø1.05±0.05 COMPLIANT PIN HOLES

Ø0.1M | A | K | L | S

1.10

BSC

BSC

-Y-

-L-

-K-

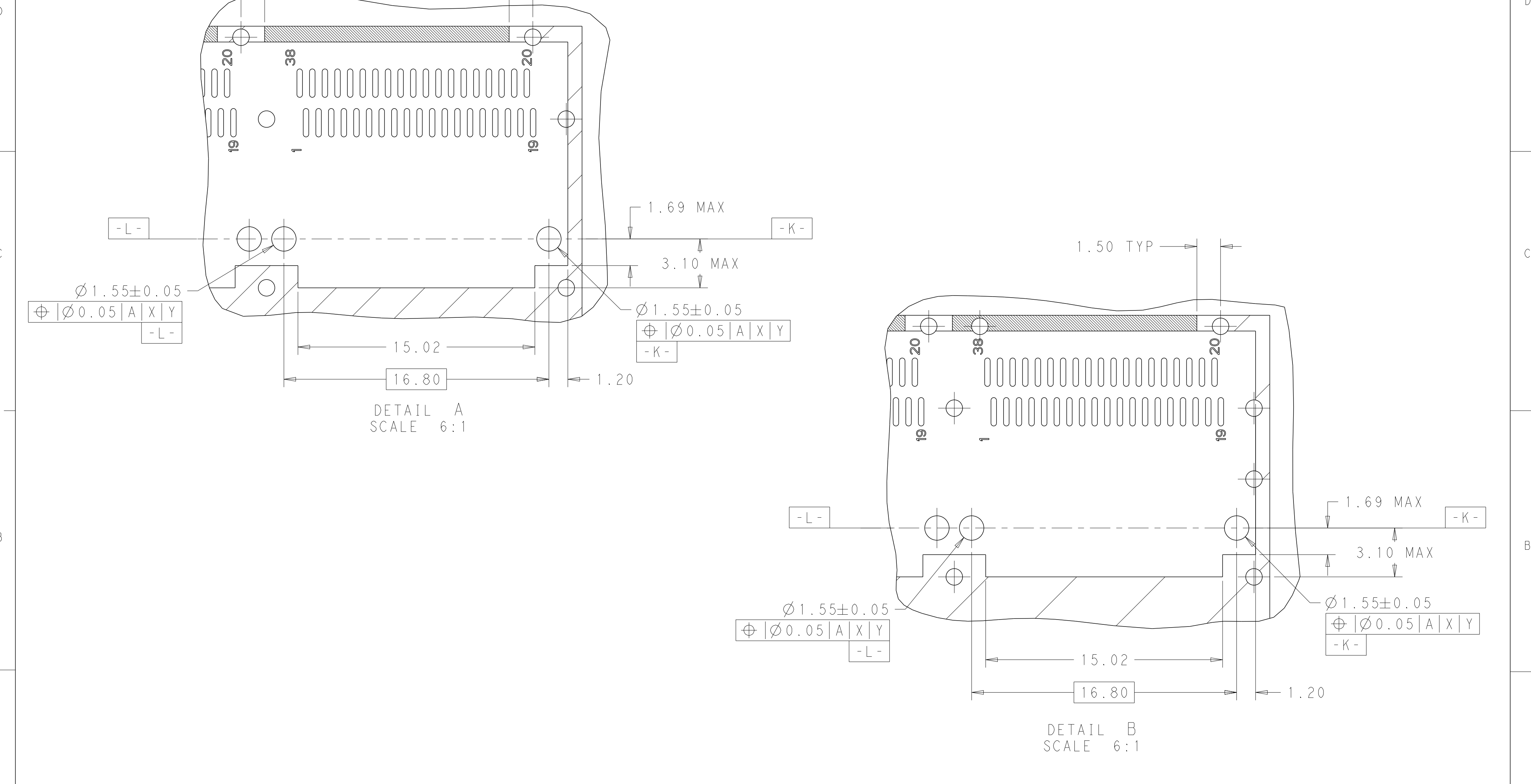
-X-

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

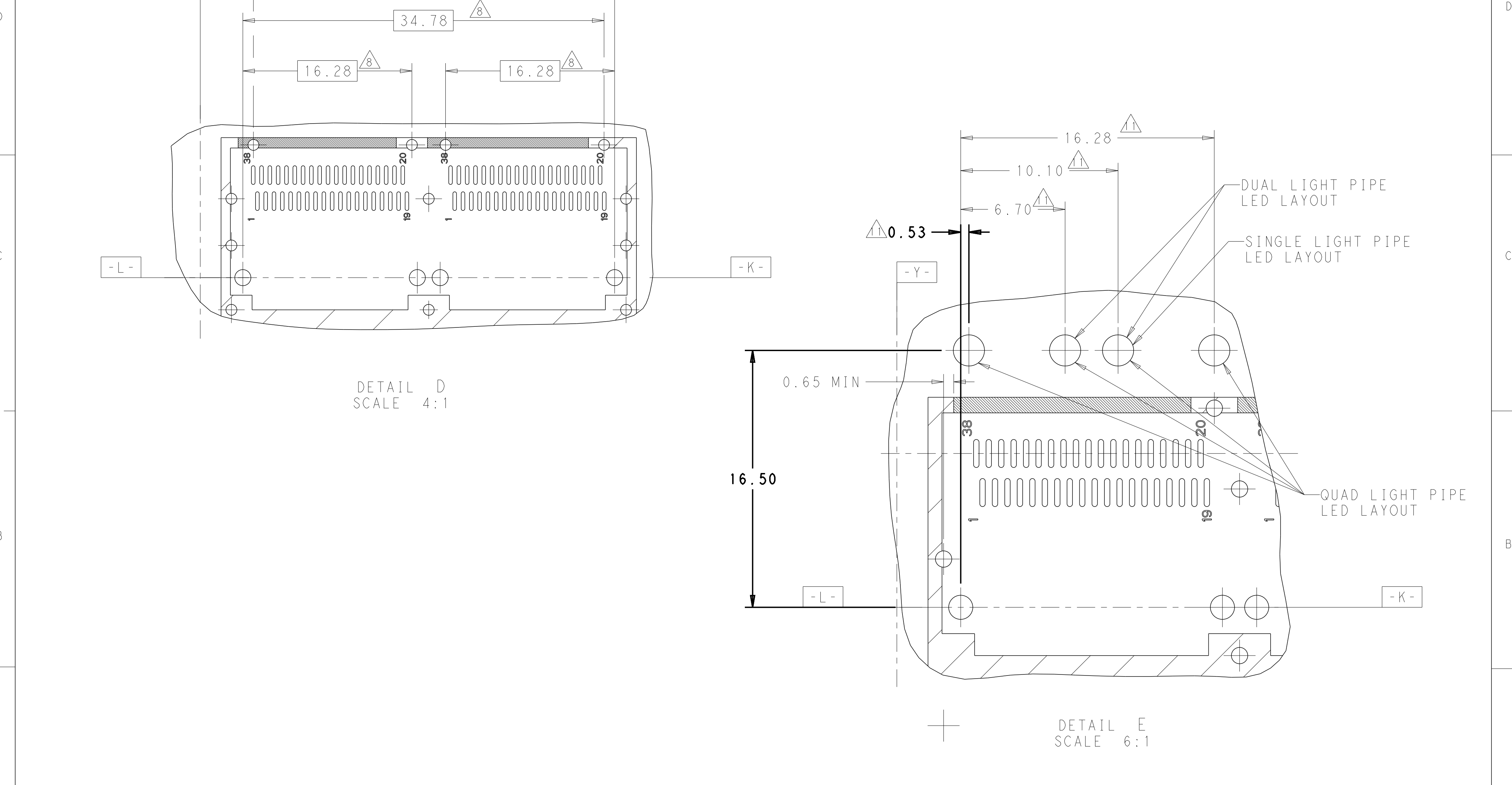
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		CHK	BING LIU 16SEP2014
		APVD	JASON YANG
DIMENSIONS:		PRODUCT SPEC	-
mm		APPLICATION SPEC	108-19428
		WEIGHT	114-32023
MATERIAL		CUSTOMER DRAWING	-
SEE NOTES		SCALE	1:1
		SHEET	7 OF 9
		REV	B1

TE Connectivity		RECEPTACLE CAGE ASSEMBLY	
		1X2, QSFP28, THRU BEZEL, SPRING	
		WITH HEAT SINKS AND LIGHT PIPES	
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2170808	-

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



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



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DWN

BING LIU

16SEP2014

CHK

JASON YANG

16SEP2014

APVD

-

-

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

-

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

NAME

RECEPTACLE CAGE ASSEMBLY
1X2, QSFP28, THRU BEZEL, SPRING
WITH HEAT SINKS AND LIGHT PIPES

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170808

RESTRICTED TO

-

SCALE

1:1

SHEET

9

OF

9

REV

B1

TE

TE Connectivity

Mouser Electronics

Authorized Distributor

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