

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

-

DIMENSIONS:

mm

0 PLC

±

1 PLC

±0.25

2 PLC

±0.2

3 PLC

±

4 PLC

±

ANGLES

±

FINISH

SEE NOTES

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

SEE NOTES

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DWN

BING LIU

16SEP2014

CHK

JASON YANG

16SEP2014

APVD

-

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

1

OF

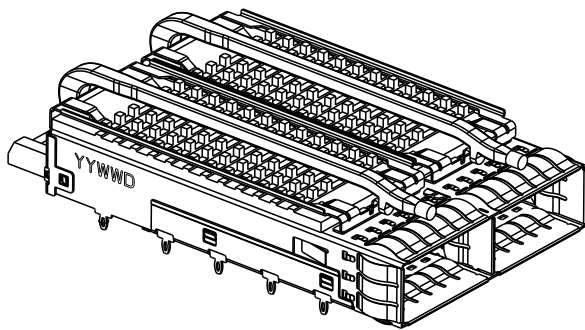
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REV

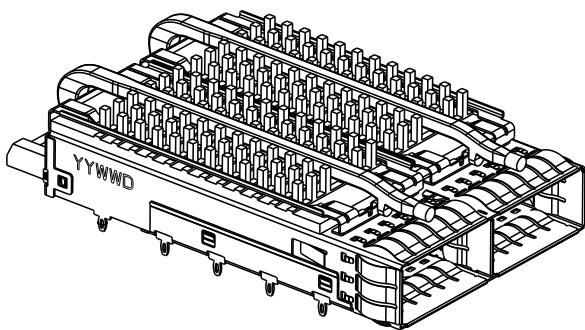
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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

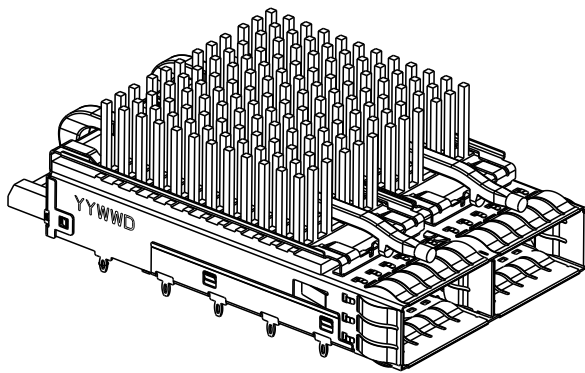
HEAT SINK OPTION



PCI HEAT SINK HEIGHT
SCALE 1:1

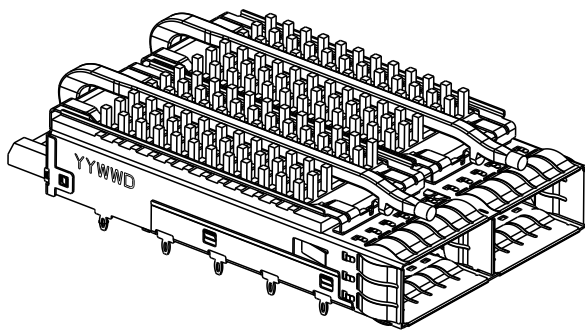


SAN HEAT SINK HEIGHT
SCALE 1:1

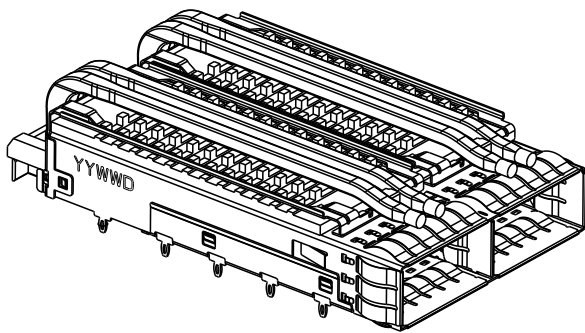


NETWORKING HEAT SINK HEIGHT
SCALE 1:1

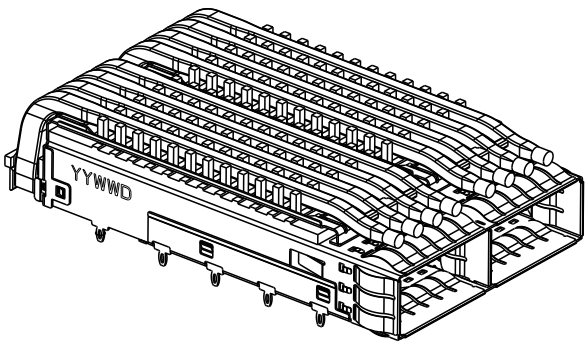
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 1:1

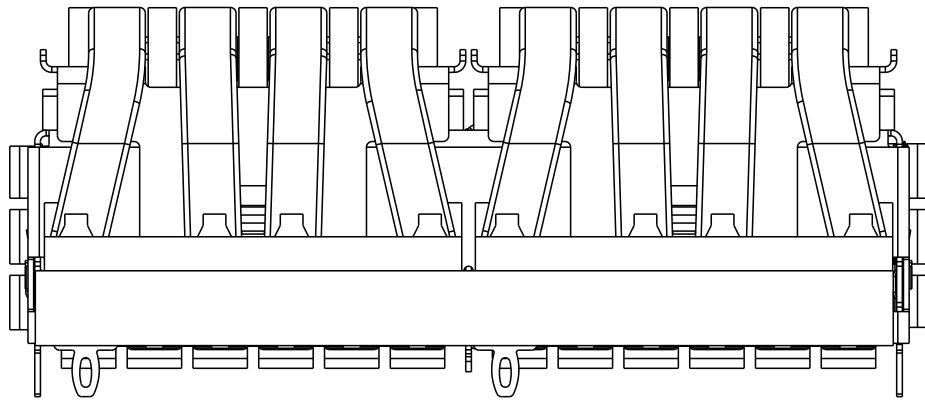


DUAL LIGHT PIPE
SCALE 1:1

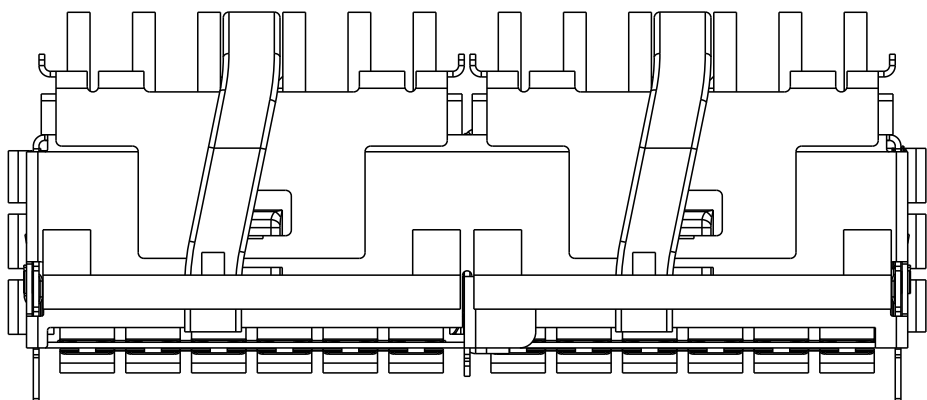


QUAD LIGHT PIPE
SCALE 1:1

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:		APVD -	NAME RECEPTACLE CAGE ASSEMBLY 1X2, QSFP28, THRU BEZEL, SPRING WITH HEAT SINKS AND LIGHT PIPES				
mm				PRODUCT SPEC					
		0 PLC ±-		108-19428					
		1 PLC ±0.25		APPLICATION SPEC					
		2 PLC ±0.2		114-32023	SIZE	CAGE CODE	DRAWING NO		RESTRICTED TO
		3 PLC ±-		WEIGHT -	A200779	C-2170808			
		4 PLC ±-		CUSTOMER DRAWING			SCALE 1:1		SHEET 2 OF 9
MATERIAL SEE NOTES -		FINISH SEE NOTES -							

4

3

2

1

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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 Connectivity

NAME

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

SIZE
A2

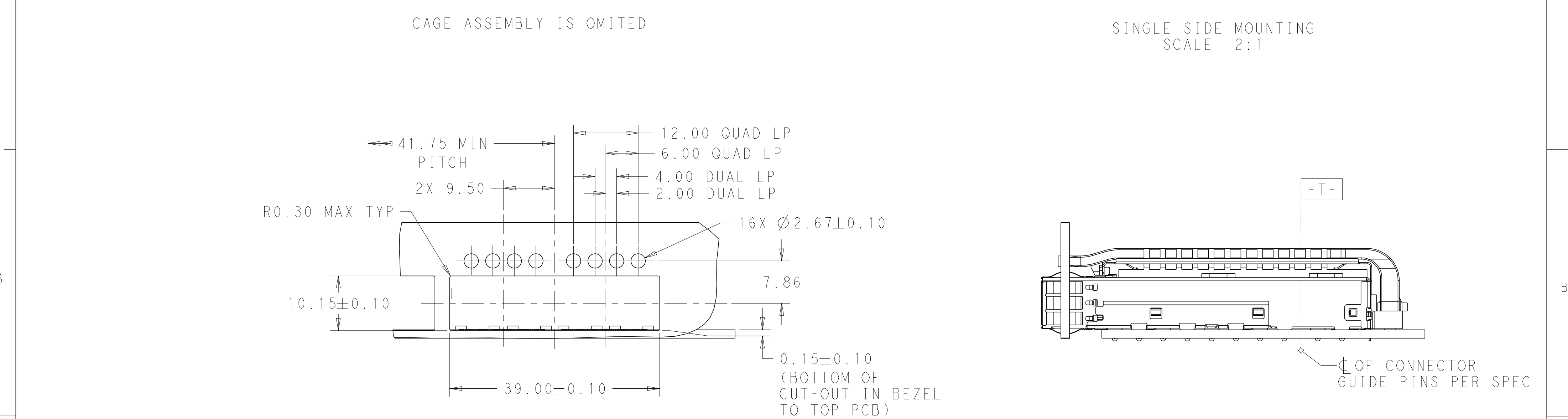
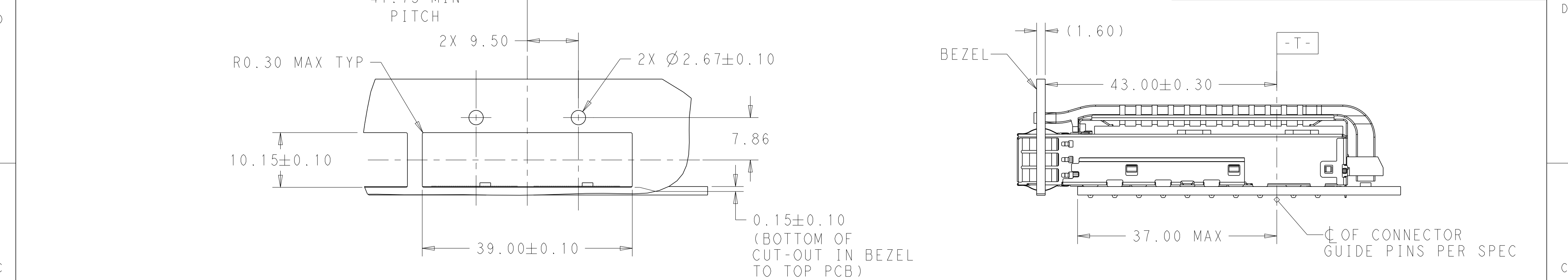
CAGE CODE
00779

DRAWING NO
C-2170808

RESTRICTED TO
-

1471-9 (3/13)

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



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CHK
JASON YANG
APVD
-

16SEP2014
16SEP2014

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

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

SEE NOTES
-

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

CUSTOMER DRAWING

DWG NO
A200779C-2170808

SCALE
1:1

SHEET
4 OF 9

REV
B1

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

RESTRICTED TO
-

TE Connectivity

TE

D

C

B

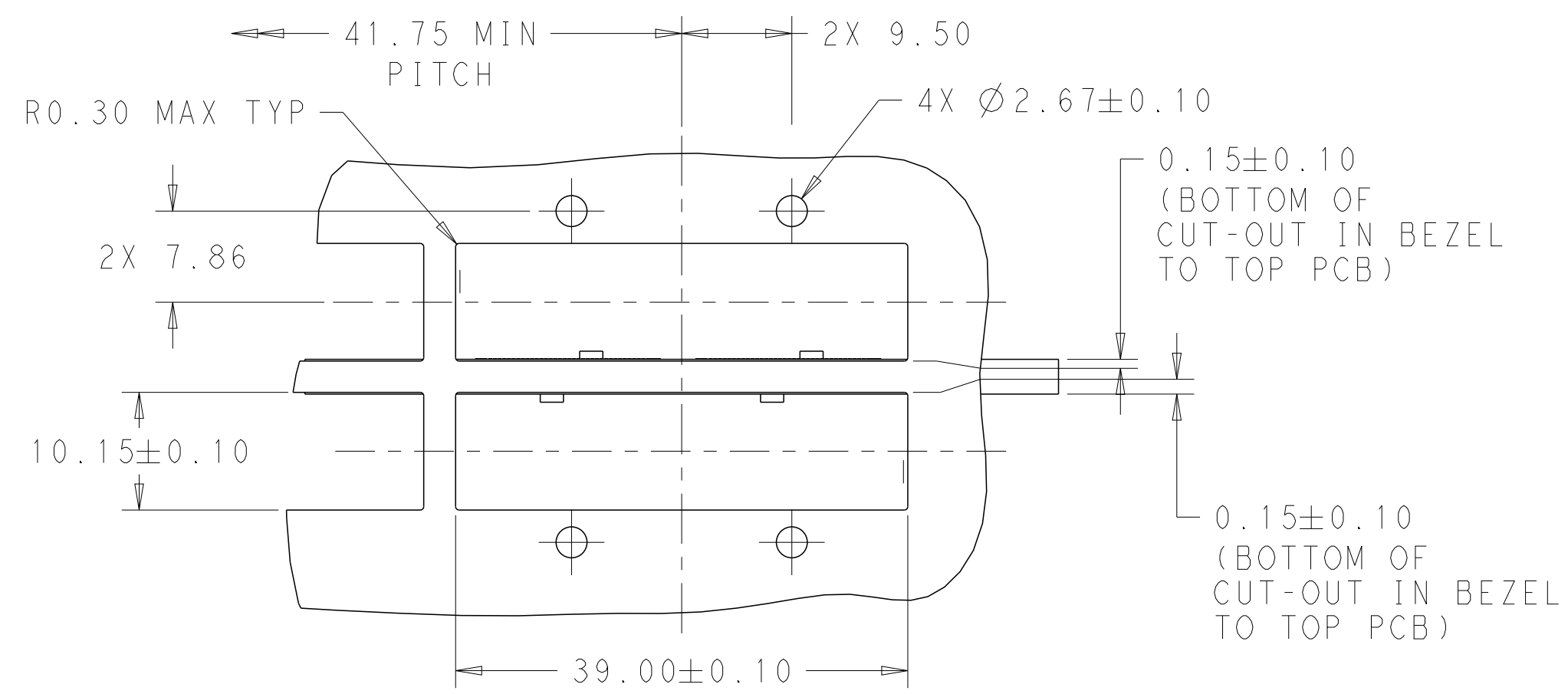
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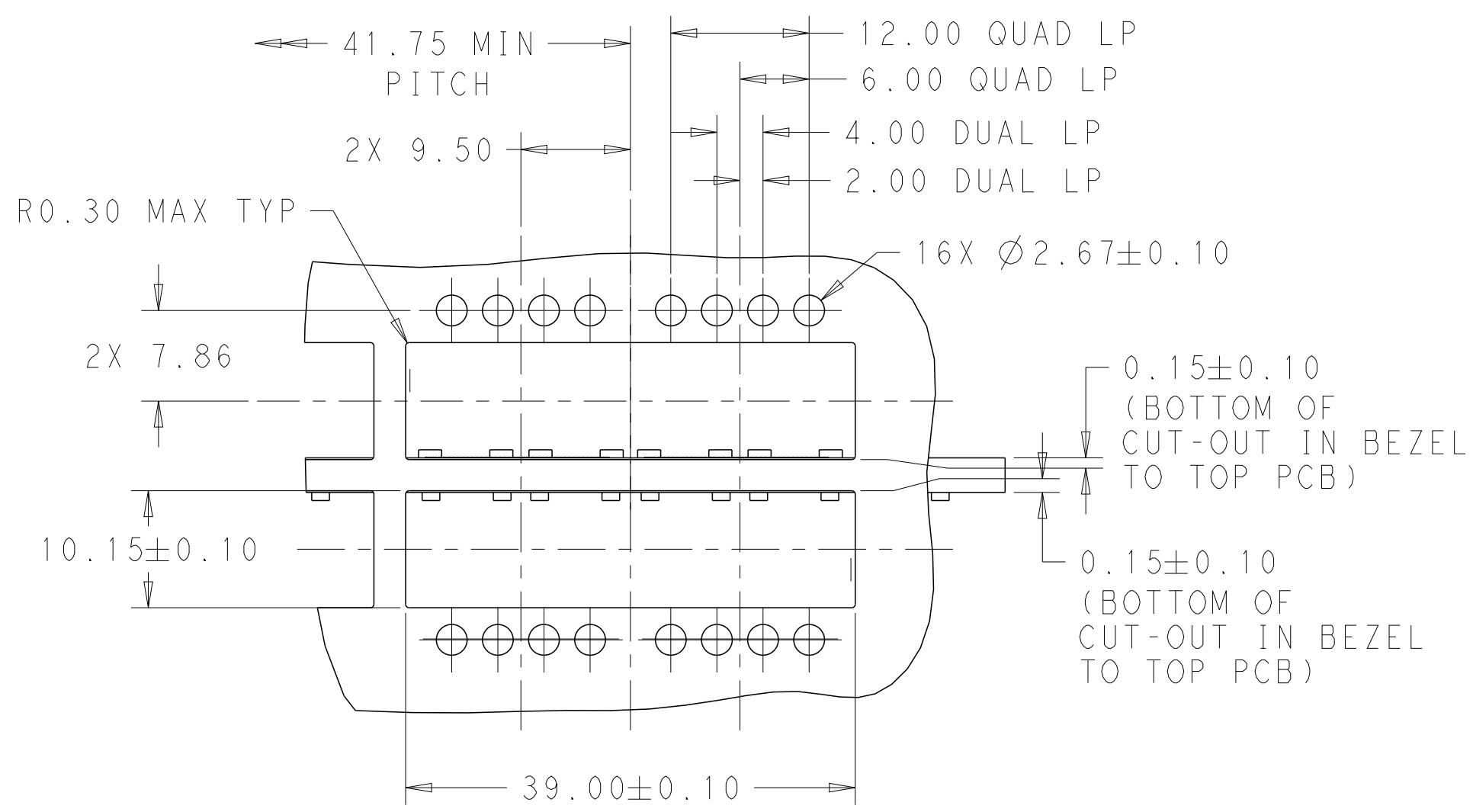
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B

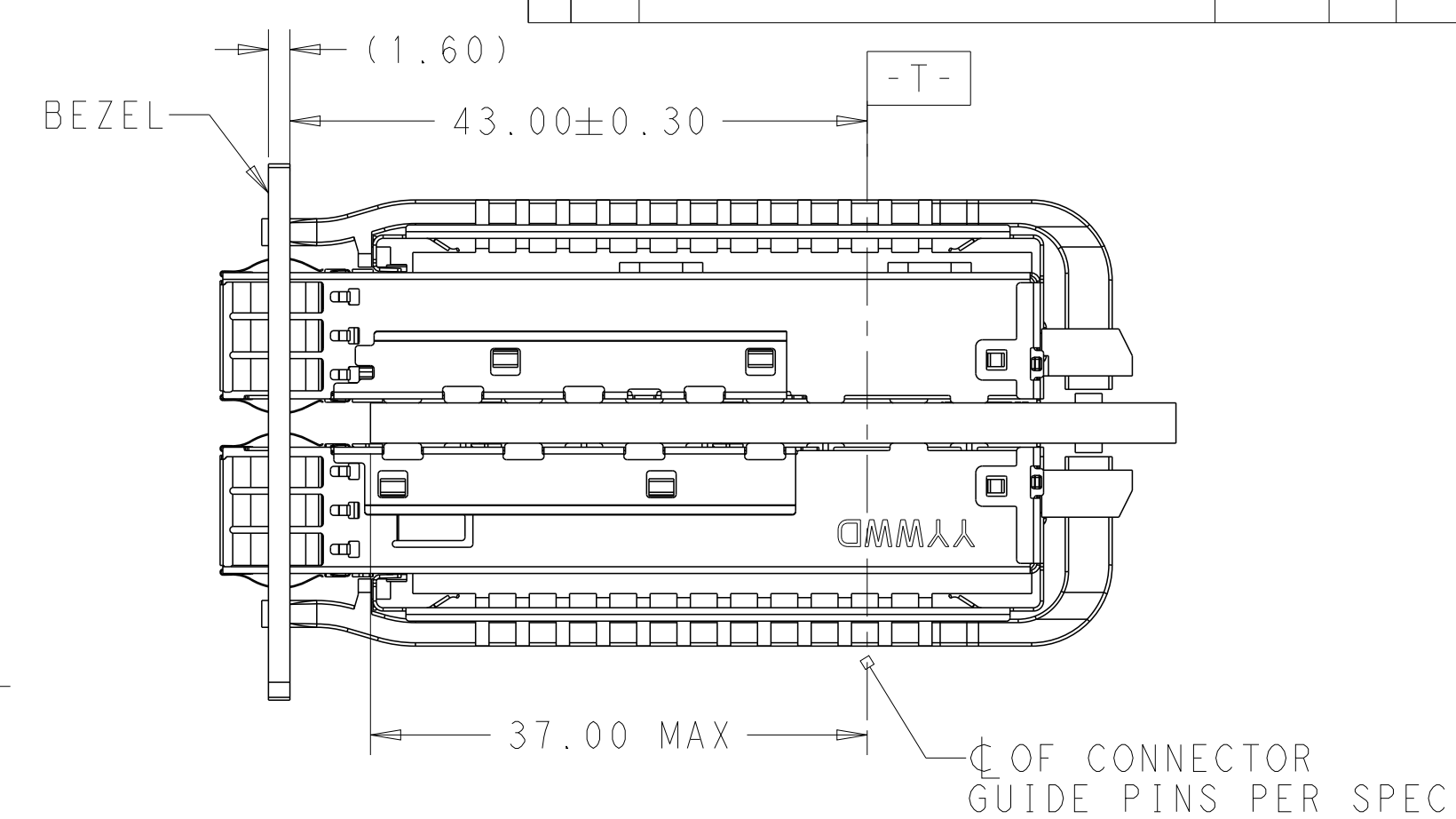
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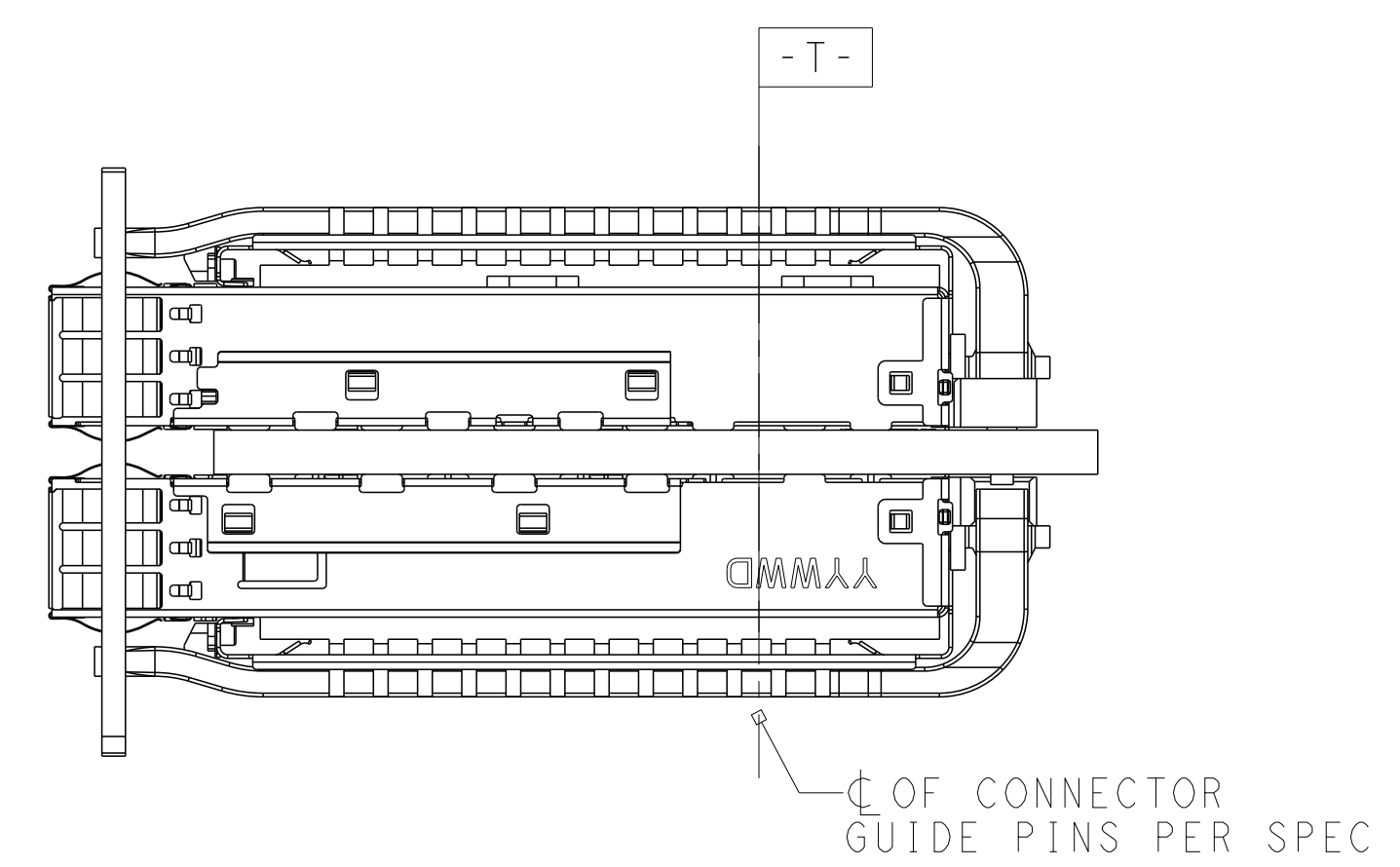
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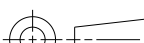
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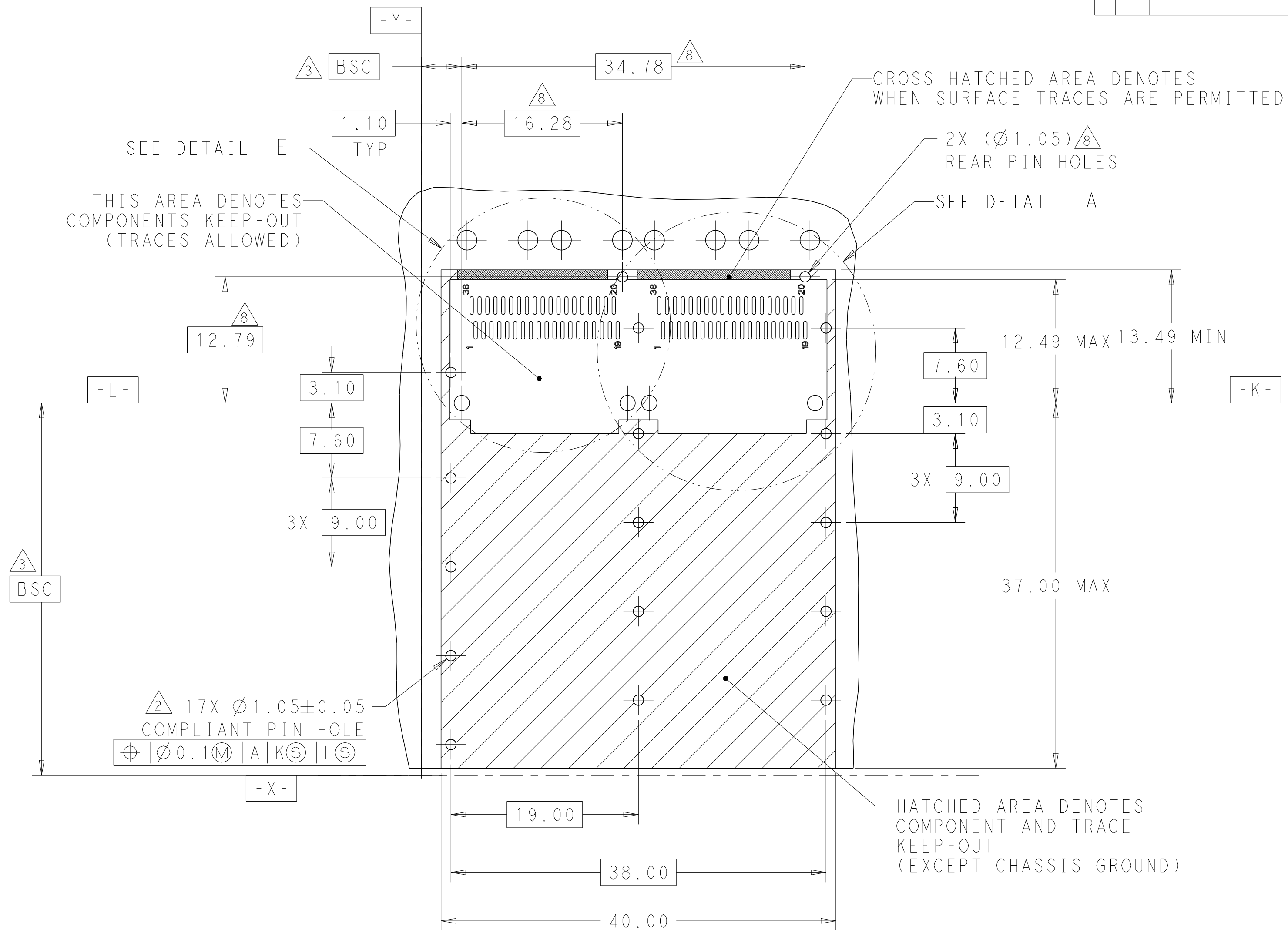


BELLY TO BELLY MOUNTING
SCALE 2:1



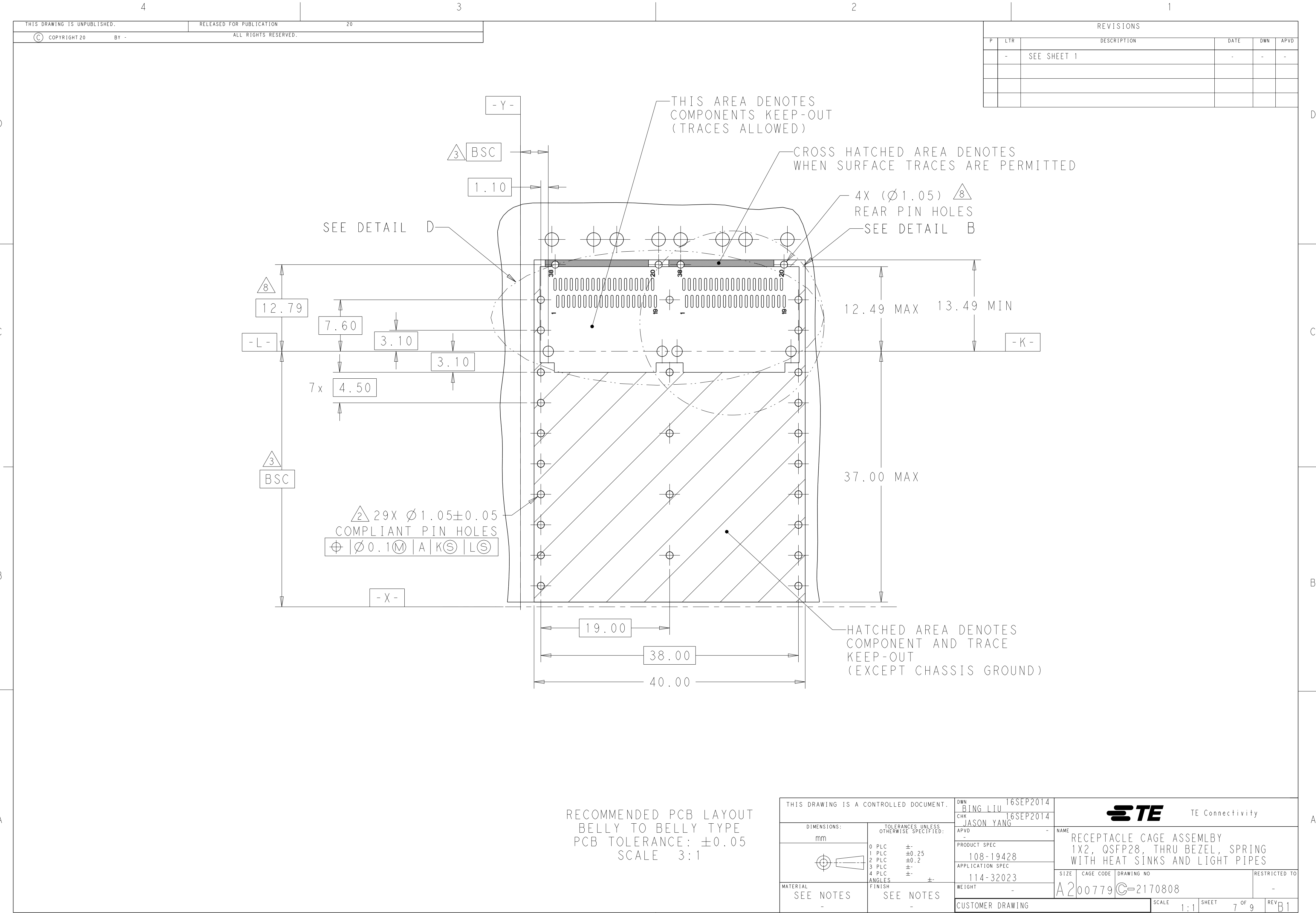
BELLY TO BELLY MOUNTING
SCALE 2:1

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DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD -	NAME RECEPTACLE CAGE ASSEMBLY 1X2, QSFP28, THRU BEZEL, SPRING WITH HEAT SINKS AND LIGHT PIPES			
			PRODUCT SPEC 108-19428				
0 PLC ±- 1 PLC ±0.25 2 PLC ±0.2 3 PLC ±- 4 PLC ±- ANGLES ±- FINISH		APPLICATION SPEC 114-32023	SIZE A2	CAGE CODE 00779	DRAWING NO C-2170808	RESTRICTED TO -	
MATERIAL SEE NOTES -		WEIGHT -					
		CUSTOMER DRAWING			SCALE 1:1	SHEET 5 OF 9	REV B1



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

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		CHK 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 -						
		PRODUCT SPEC 108-19428						
		APPLICATION SPEC 114-32023						
MATERIAL		FINISH		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO	
SEE NOTES -		SEE NOTES -		A2	00779	C-2170808	-	
CUSTOMER DRAWING						SCALE	SHEET	REV
						1:1	6 of 9	B1

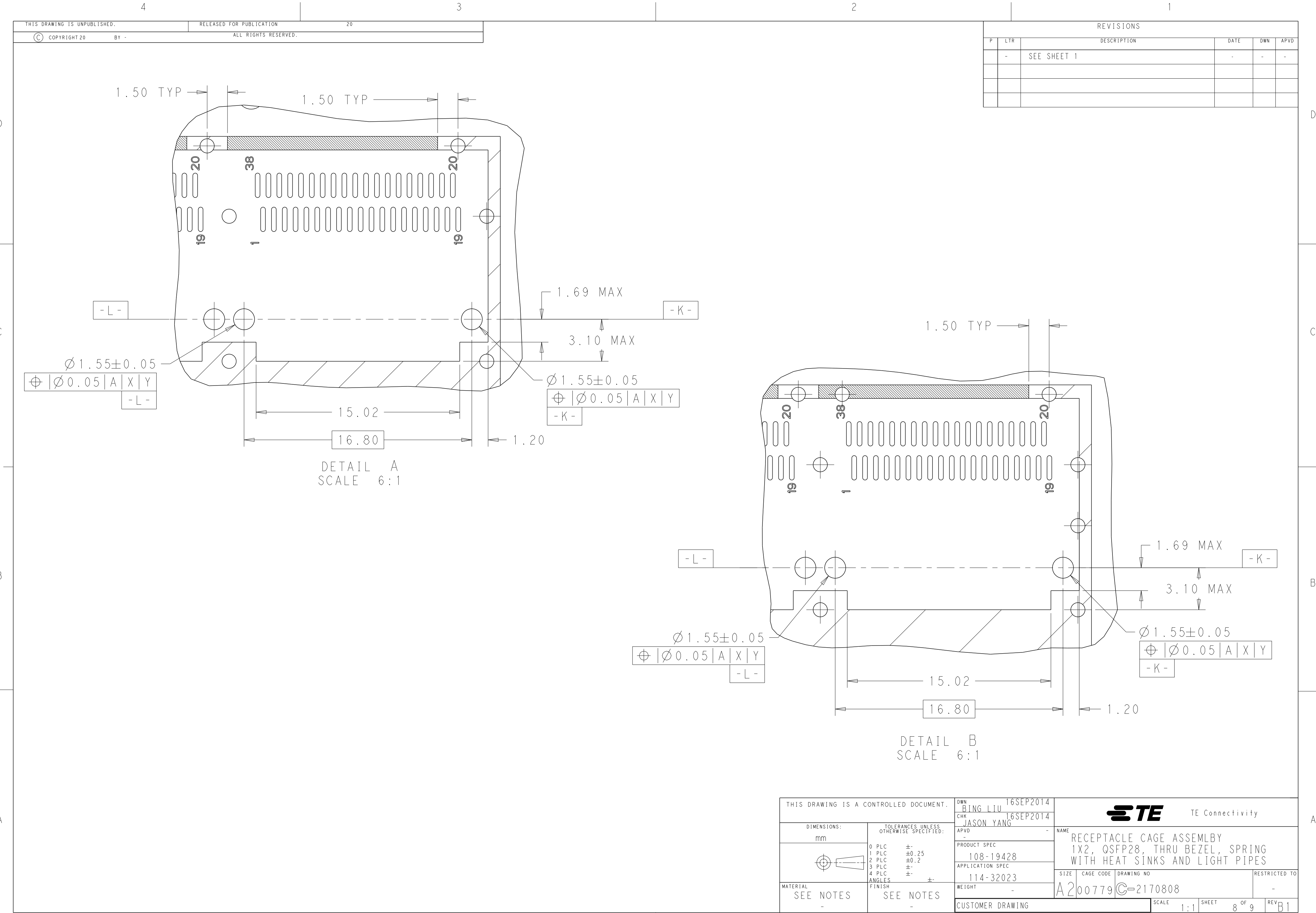


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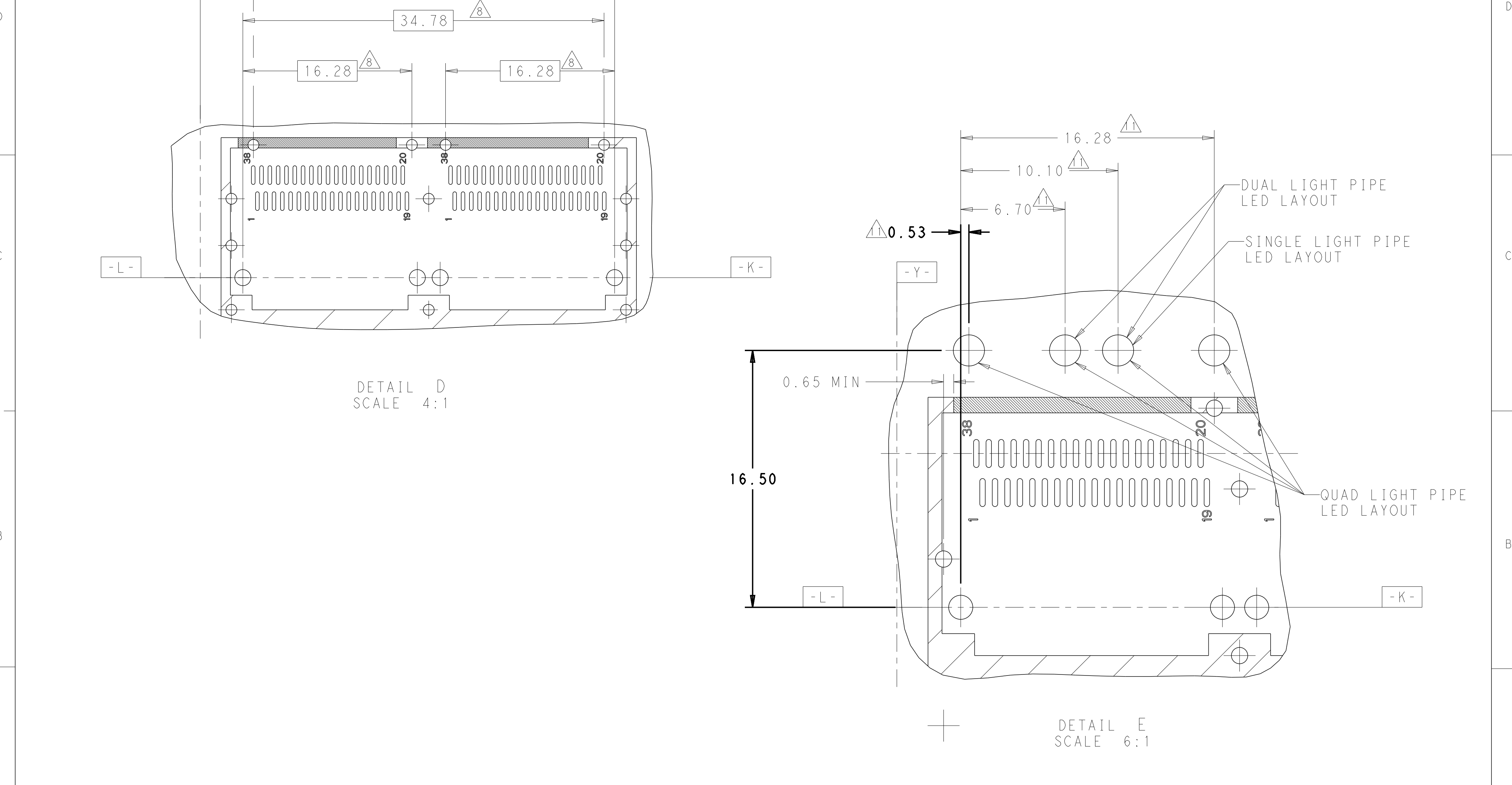
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

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

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		CHK JASON YANG 16SEP2014			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm				RECEPTACLE CAGE ASSEMBLY	
				1X2, QSFP28, THRU BEZEL, SPRING	
				WITH HEAT SINKS AND LIGHT PIPES	
				SIZE	CAGE CODE
				A2	00779
				DRAWING NO	RESTRICTED TO
				C-2170808	-
				SCALE	SHEET
				1:1	7 OF 9
				REV	B1



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



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DWN

BING LIU

16SEP2014

CHK

JASON YANG

16SEP2014

APVD

-

-

DIMENSIONS:

mm

0 PLC

±

1 PLC

±0.25

2 PLC

±0.2

3 PLC

±

4 PLC

±

ANGLES

±

FINISH

SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC

±

1 PLC

±0.25

2 PLC

±0.2

3 PLC

±

4 PLC

±

ANGLES

±

FINISH

SEE NOTES

MATERIAL

SEE NOTES

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

SCALE 1:1

SHEET 9 OF 9

REV B1

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

-

TE Connectivity