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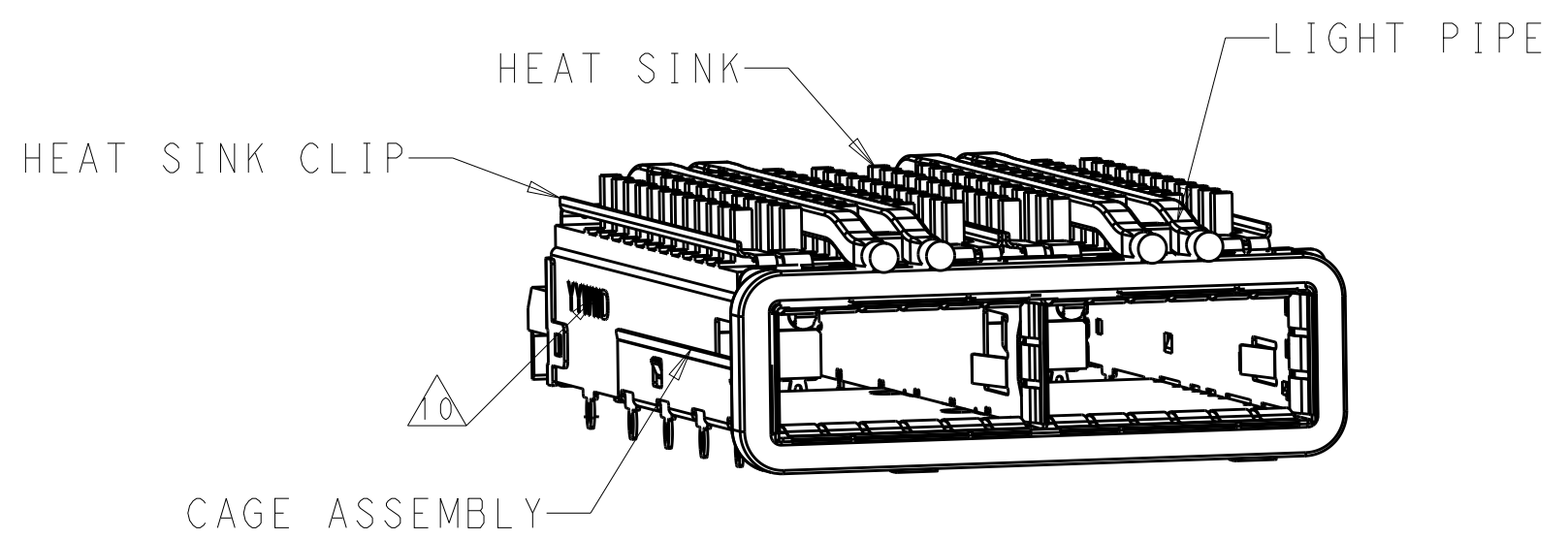
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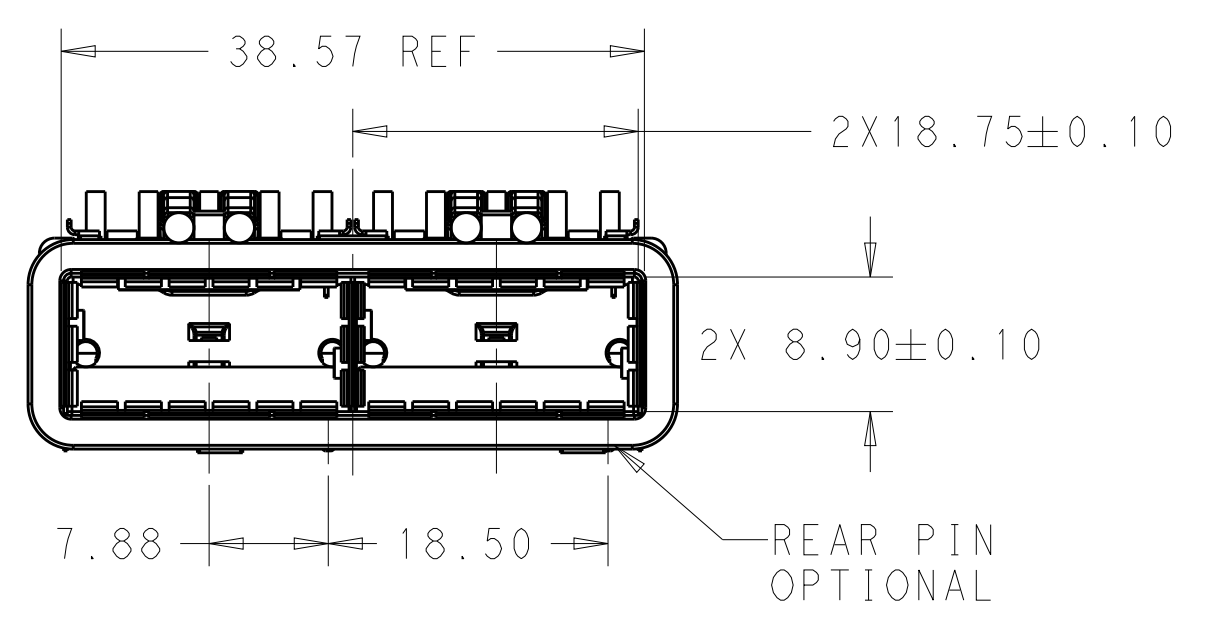
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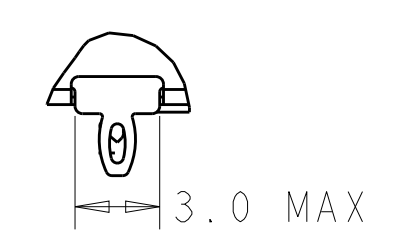


2-2170814-2 AS SHOWN
SCALE 2:1

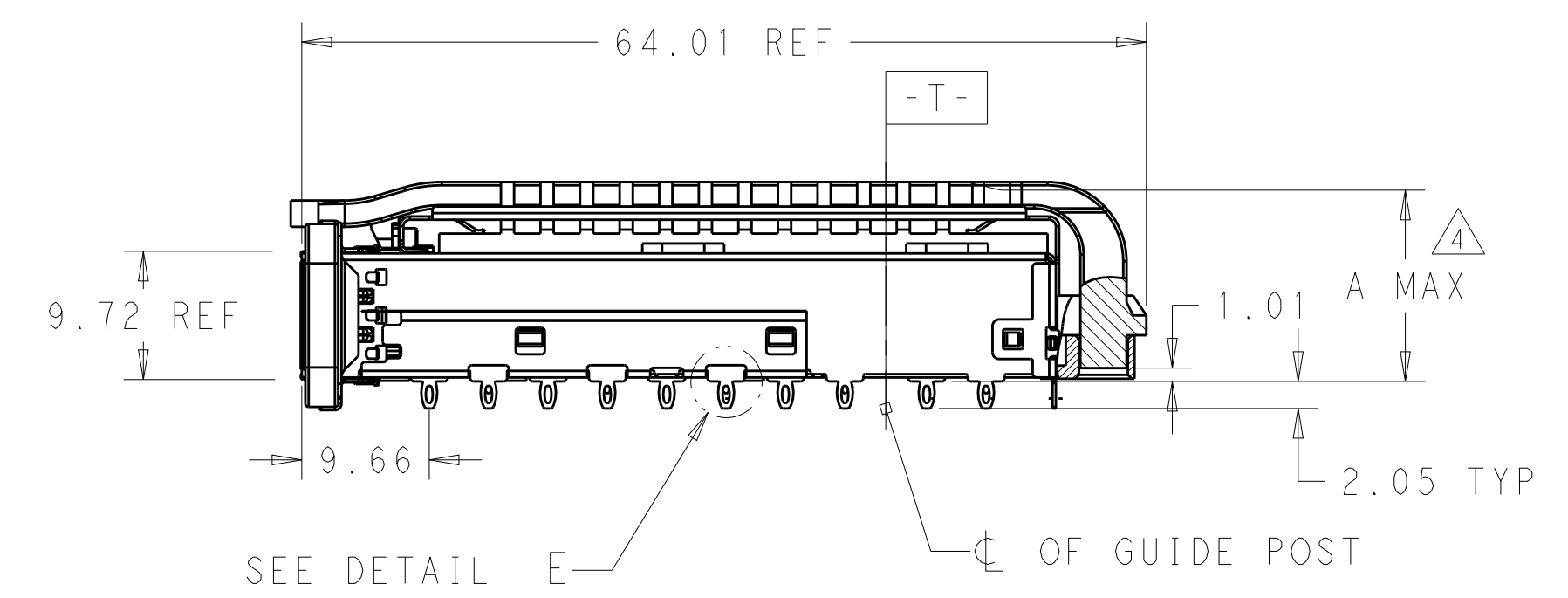
1. COMPONENTS
CAGE ASSEMBLY: NICKEL-SILVER ALLOY
HEAT SINK: ALUMINUM/BLACK ANODIZE
HEAT SINK CLIP: STAINLESS STEEL
EMI SPRING: COPPER ALLOY/NICKEL PLATE
LIGHT PIPE: CLEAR POLYCARBONATE
GASKET: PLATED FILLED SILICONE
2. REFERENCE APPLICATION SPECIFICATION 114-32023
FOR RECOMMENDED DRILL HOLE DIAMETER 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: 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 E
SCALE 4:1



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

SEAN HAN

09NOV2016

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, 1X2, QSFP28, GASKET

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170814

RESTRICTED TO

-

SCALE

1:1

SHEET

1

OF

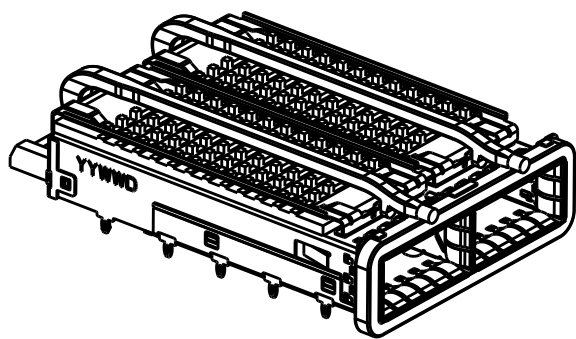
9

REV

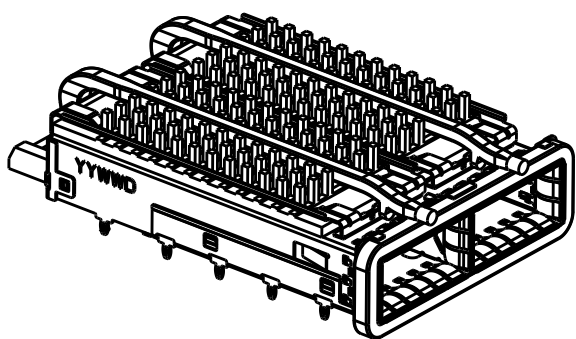
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LOC		DIST		REVISIONS				
P	LTR	DESCRIPTION			DATE	DWN	APVD	
	-	SEE SHEET 1			-	-	-	

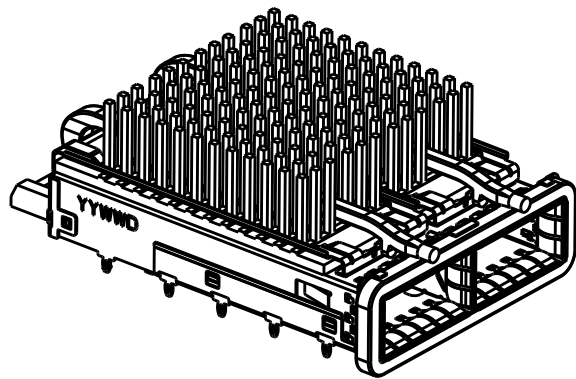
HEAT SINK OPTION



PCI HEAT SINK HEIGHT
SCALE 1:1

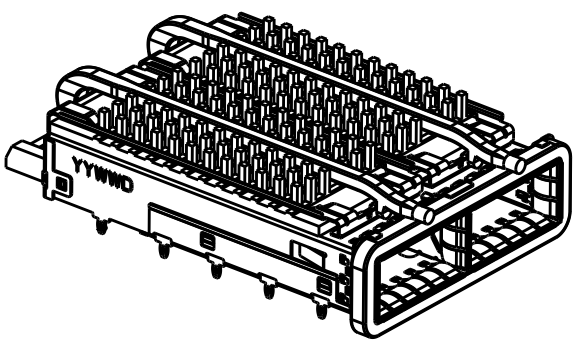


SAN HEAT SINK HEIGHT
SCALE 1:1

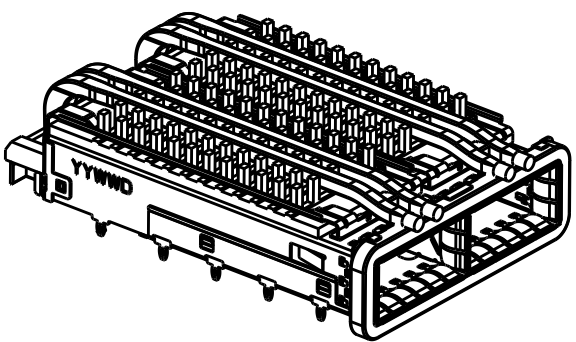


NETWORKING HEAT SINK HEIGHT
SCALE 1:1

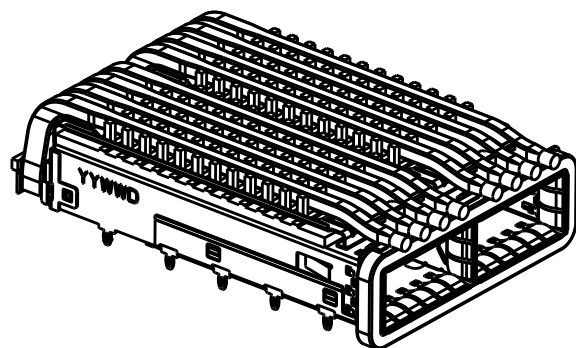
LIGHT PIPE OPTION



SINGLE LIGHT PIPE
SCALE 1:1

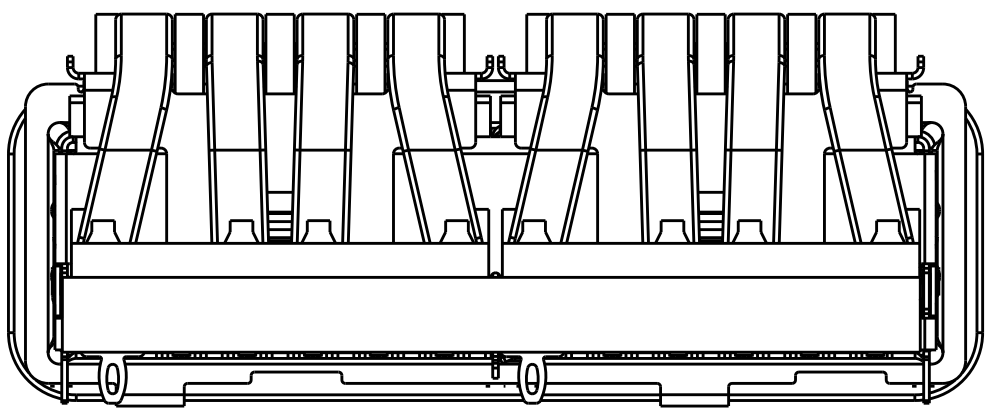


DUAL LIGHT PIPE
SCALE 1:1

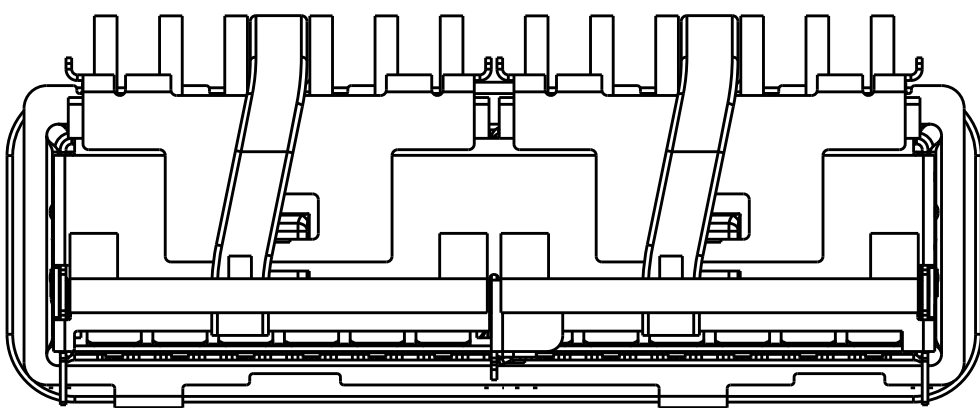


QUAD LIGHT PIPE
SCALE 1:1

OF REAR PIN OPTION



1 REAR PIN
SCALE 3:1



0 REAR PIN
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN	16SEP2014	TE Connectivity		
				CHK	16SEP2014			
				APVD	09NOV2016	NAME		
				PRODUCT SPEC		RECEPTACLE CAGE ASSEMBLY		
				APPLICATION SPEC		WITH HEAT SINKS AND LIGHT PIPES,		
				WEIGHT		THRU BEZEL, 1X2, QSFP28, GASKET		
				CUSTOMER DRAWING		SIZE	CAGE CODE	DRAWING NO
						A2	00779	C-2170814
						RESTRICTED TO		
						-		
						SCALE	SHEET	REV
						1:1	2 OF 9	A

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LOC

DIST

REVISIONS

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

0	23.0	NETWORKING	QUAD	4-2170814-6
0	16.0	SAN	QUAD	4-2170814-5
0	13.7	PCI	QUAD	4-2170814-4
1	23.0	NETWORKING	QUAD	4-2170814-3
1	16.0	SAN	QUAD	4-2170814-2
1	13.7	PCI	QUAD	4-2170814-1
0	23.0	NETWORKING	DUAL	2-2170814-6
0	16.0	SAN	DUAL	2-2170814-5
0	13.7	PCI	DUAL	2-2170814-4
1	23.0	NETWORKING	DUAL	2-2170814-3
1	16.0	SAN	DUAL	2-2170814-2
1	13.7	PCI	DUAL	2-2170814-1
0	23.0	NETWORKING	SINGLE	2170814-6
0	16.0	SAN	SINGLE	2170814-5
0	13.7	PCI	SINGLE	2170814-4
1	23.0	NETWORKING	SINGLE	2170814-3
1	16.0	SAN	SINGLE	2170814-2
1	13.7	PCI	SINGLE	2170814-1
# 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 ±

MATERIAL

SEE NOTES

material_2

FINISH

SEE NOTES

finish_spec_2

DWN 16SEP2014

CHK 16SEP2014

APVD 09NOV2016

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, 1X2, QSFP28, GASKET

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170814

RESTRICTED TO

-

SCALE

1:1

SHEET

3

OF

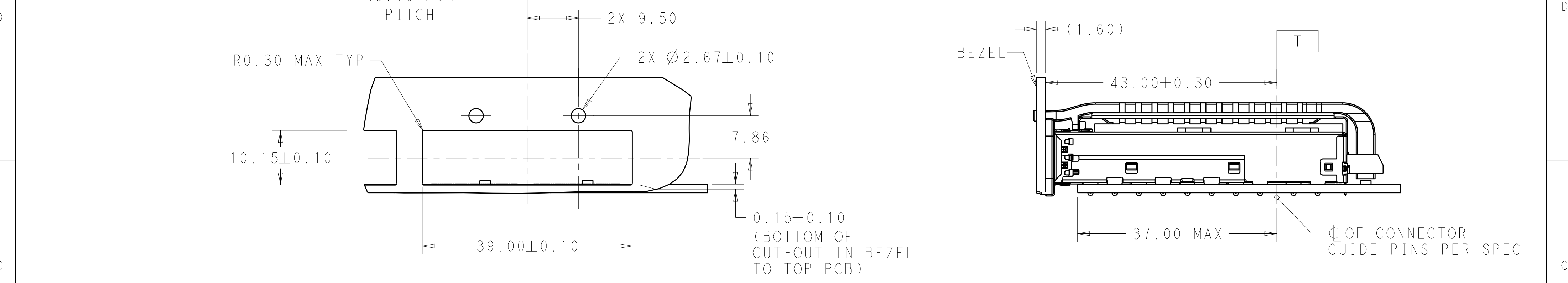
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REV

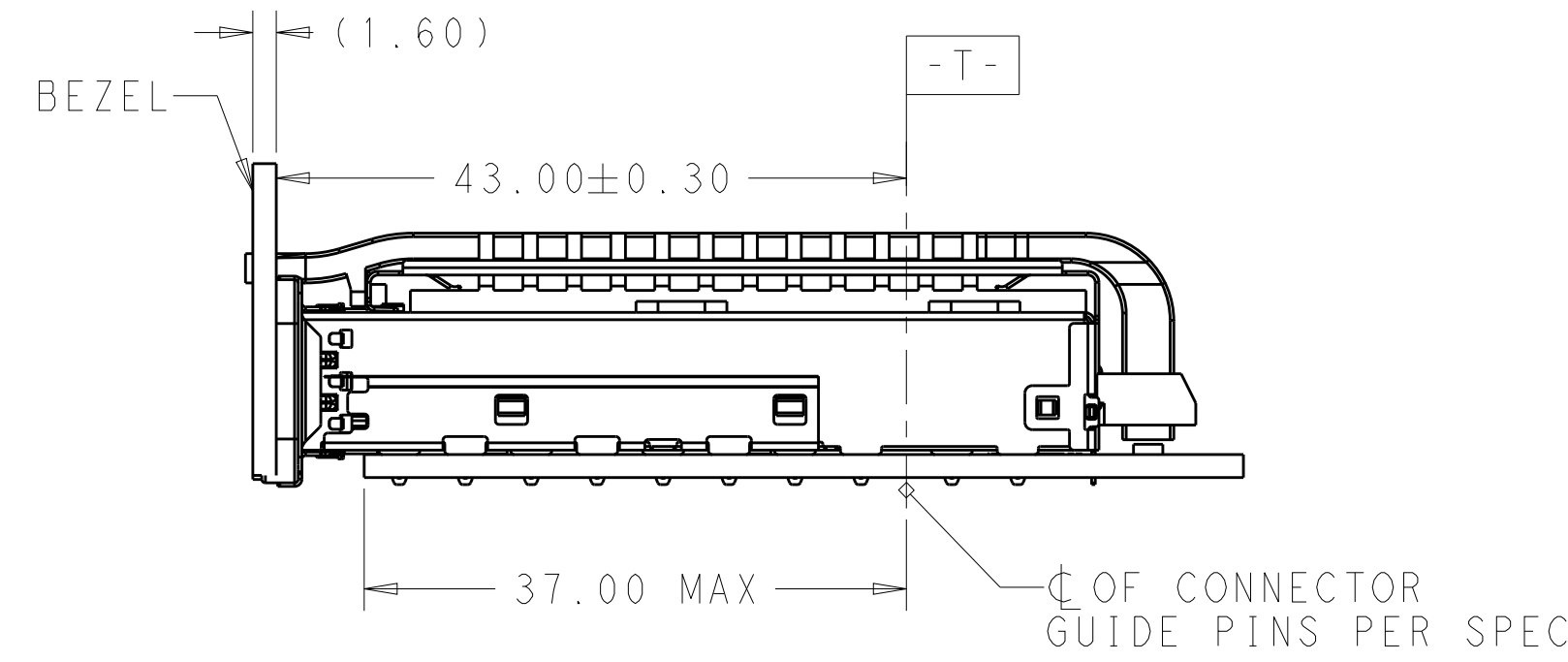
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1471-9 (3/11)

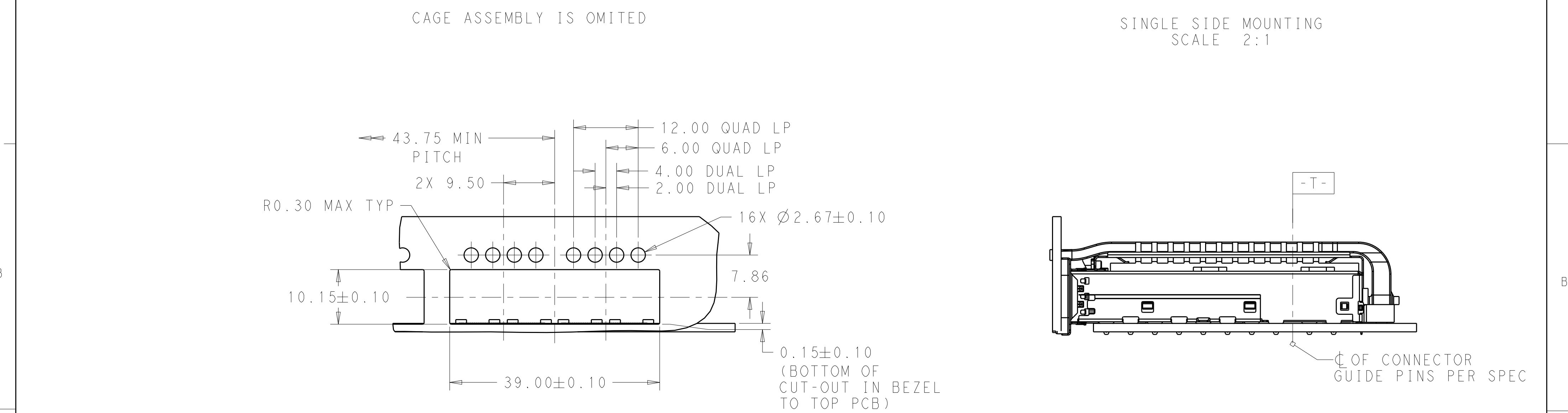
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



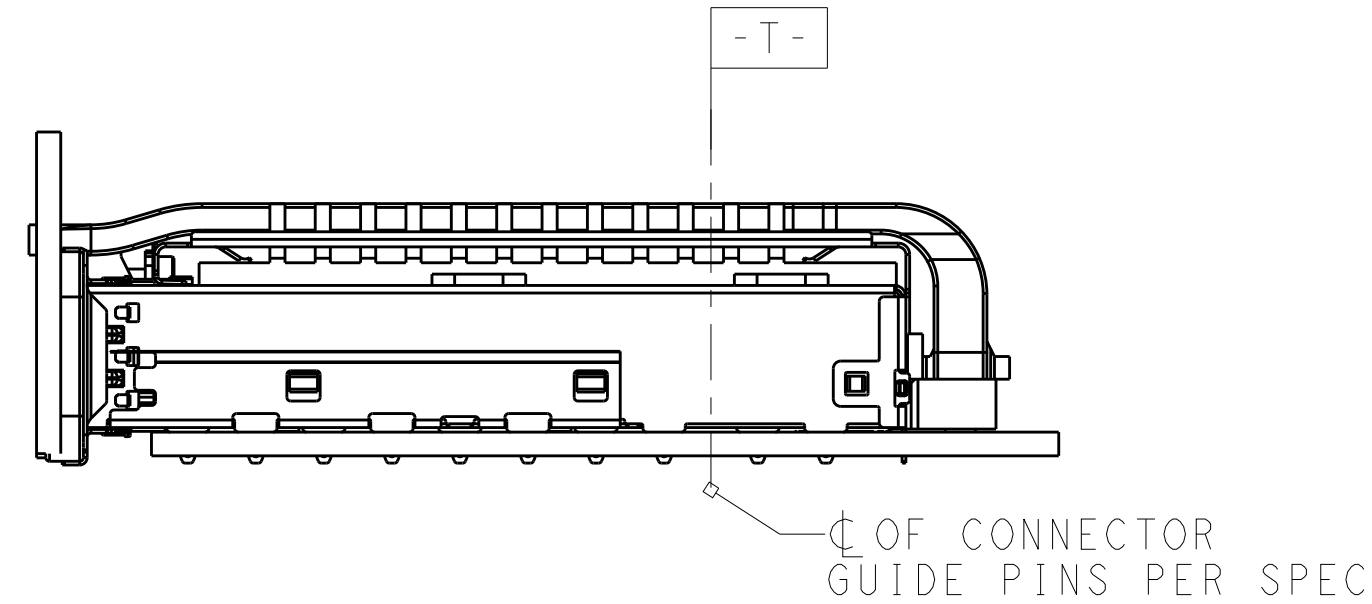
CAGE ASSEMBLY IS OMITED



SINGLE SIDE MOUNTING
SCALE 2:1



CAGE ASSEMBLY IS OMITED



SINGLE SIDE MOUNTING
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

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

FINISH

SEE NOTES
finish_spec_2

DWN

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16SEP2014

CHK

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09NOV2016

PRODUCT SPEC

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APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

TE Connectivity

NAME

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

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170814

RESTRICTED TO

-

SCALE

1:1

SHEET

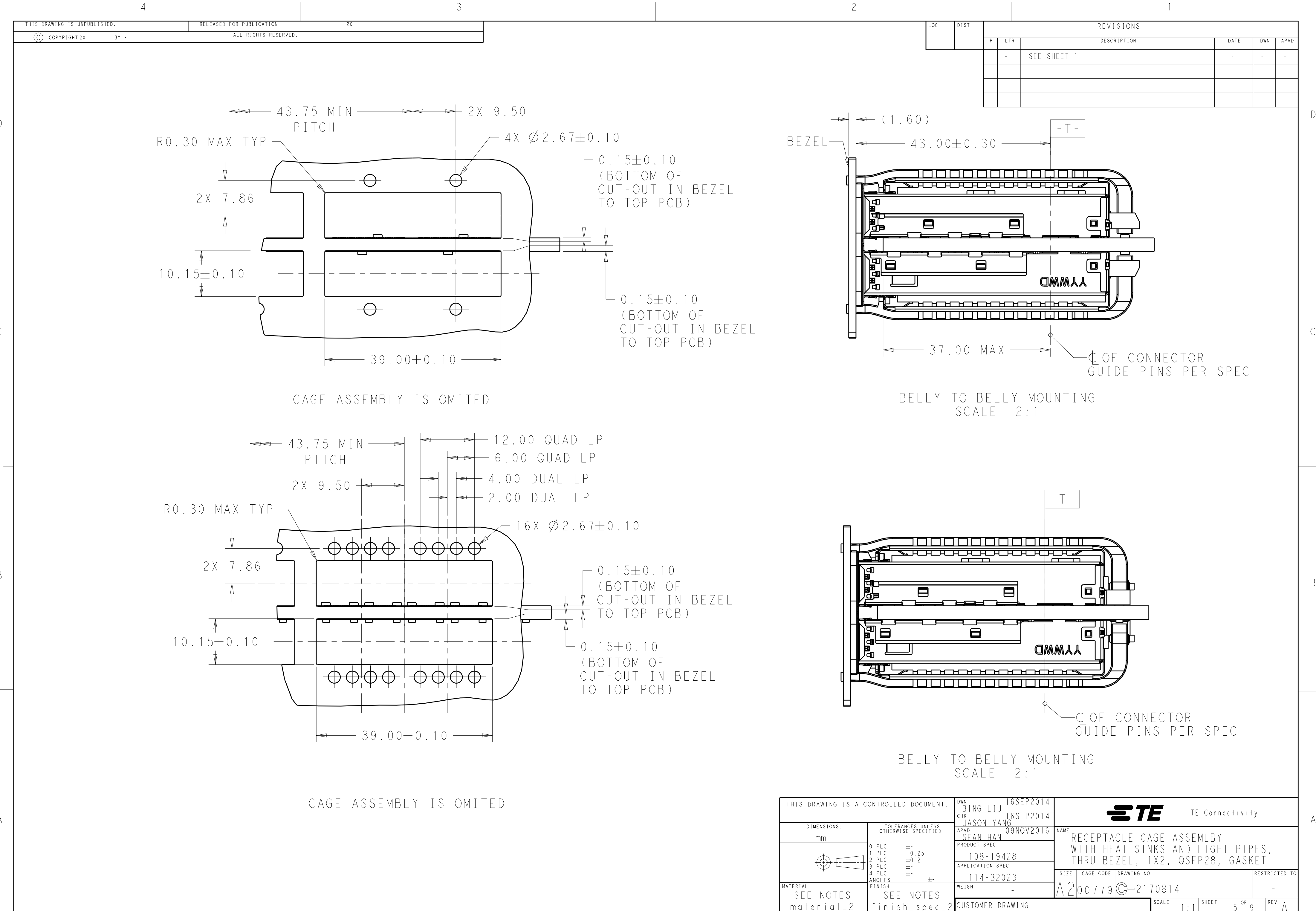
4

OF

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REV

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

43.75 MIN PITCH

2X 9.50

4X Ø2.67±0.10

0.15±0.10 (BOTTOM OF CUT-OUT IN BEZEL TO TOP PCB)

0.15±0.10 (BOTTOM OF CUT-OUT IN BEZEL TO TOP PCB)

39.00±0.10

10.15±0.10

2X 7.86

R0.30 MAX TYP

CAGE ASSEMBLY IS OMITED

43.75 MIN PITCH

12.00 QUAD LP

6.00 QUAD LP

4.00 DUAL LP

2.00 DUAL LP

2X 9.50

16X Ø2.67±0.10

0.15±0.10 (BOTTOM OF CUT-OUT IN BEZEL TO TOP PCB)

0.15±0.10 (BOTTOM OF CUT-OUT IN BEZEL TO TOP PCB)

39.00±0.10

10.15±0.10

2X 7.86

R0.30 MAX TYP

CAGE ASSEMBLY IS OMITED

(1.60)

BEZEL

43.00±0.30

-T-

37.00 MAX

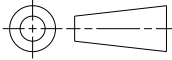
Ø OF CONNECTOR GUIDE PINS PER SPEC

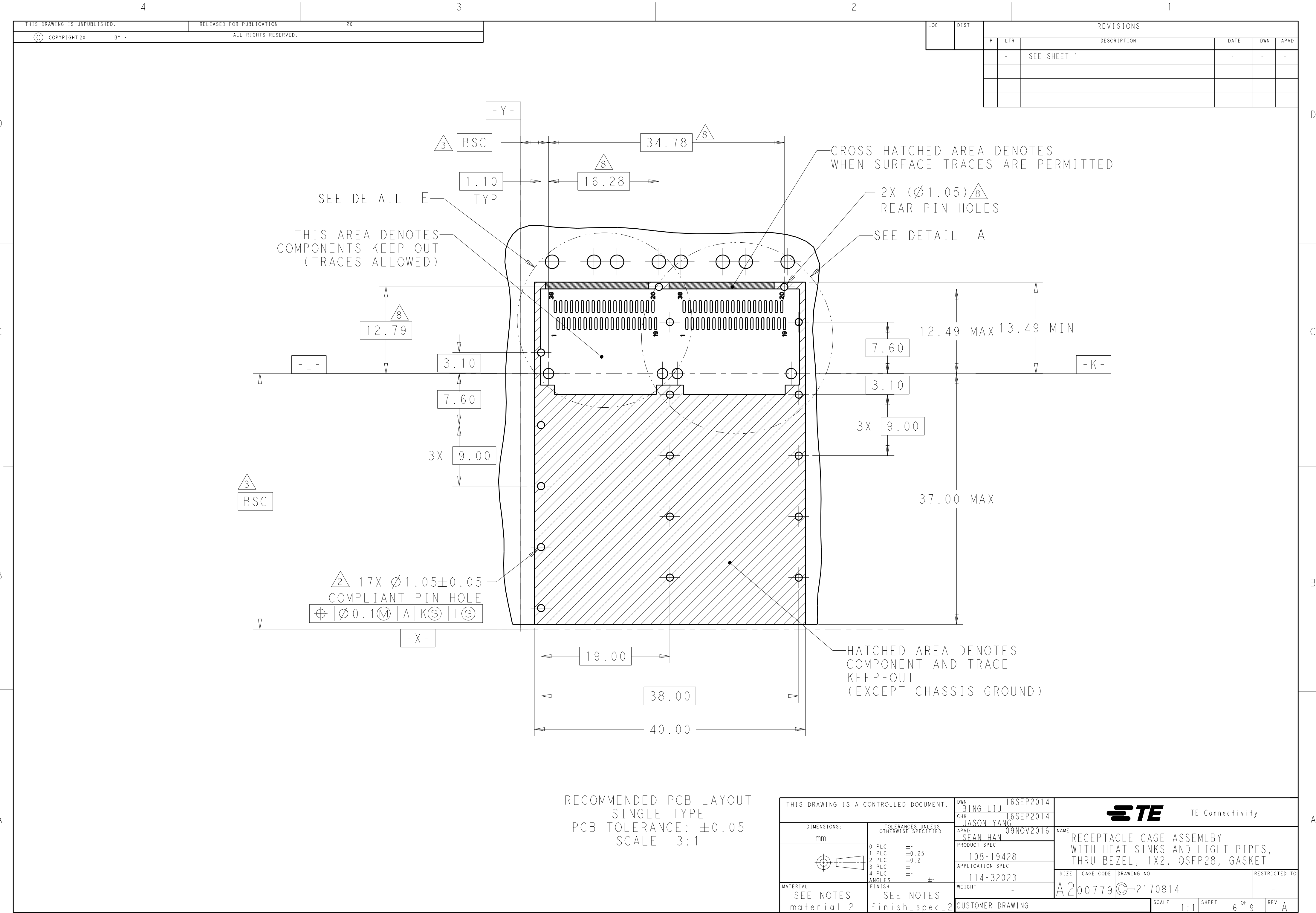
BELLY TO BELLY MOUNTING
SCALE 2:1

-T-

Ø OF CONNECTOR GUIDE PINS PER SPEC

BELLY TO BELLY MOUNTING
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN BING LIU 16SEP2014	 TE Connectivity	
DIMENSIONS: mm		CHK JASON YANG 16SEP2014		
		APVD SEAN HAN 09NOV2016		NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X2, QSFP28, GASKET
		PRODUCT SPEC 108-19428		SIZE A200779
MATERIAL SEE NOTES material_2		APPLICATION SPEC 114-32023		DRAWING NO C-2170814
FINISH SEE NOTES finish_spec_2		WEIGHT -		RESTRICTED TO -
CUSTOMER DRAWING		SCALE 1:1		SHEET 5 OF 9
				REV A



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

THIS AREA DENOTES COMPONENTS KEEP-OUT (TRACES ALLOWED)

SEE DETAIL E

SEE DETAIL A

CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED

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

2X (Ø1.05) REAR PIN HOLES

THIS AREA DENOTES COMPONENTS KEEP-OUT (TRACES ALLOWED)

17X Ø1.05±0.05 COMPLIANT PIN HOLE

Ø0.1M A K L S

1.10 TYP

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THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

20

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REVISIONS

DESCRIPTION

DATE

DWN

APVD

SEE SHEET 1

SEE DETAIL E

THIS AREA DENOTES COMPONENTS KEEP-OUT (TRACES ALLOWED)

SEE DETAIL A

CROSS HATCHED AREA DENOTES WHEN SURFACE TRACES ARE PERMITTED

2X (Ø1.05) REAR PIN HOLES

12.79

34.78

16.28

1.10 TYP

37.00 MAX

12.49 MAX 13.49 MIN

7.60

3.10

3X 9.00

19.00

38.00

40.00

3X 9.00

7.60

3.10

12.49

13.49

19.00

38.00

40.00

17X Ø1.05±0.05 COMPLIANT PIN HOLE

Ø0.1(M) | A | K | L

RECOMMENDED PCB LAYOUT

SINGLE TYPE

PCB TOLERANCE: ±0.05

SCALE 3:1

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

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

SEE NOTES

material_2

finish_spec_2

DWN BING LIU 16SEP2014

CHK JASON YANG 16SEP2014

APVD SEAN HAN 09NOV2016

PRODUCT SPEC 108-19428

APPLICATION SPEC 114-32023

WEIGHT -

CUSTOMER DRAWING

SCALE 1:1

SHEET 6 OF 9

REV A

TE Connectivity

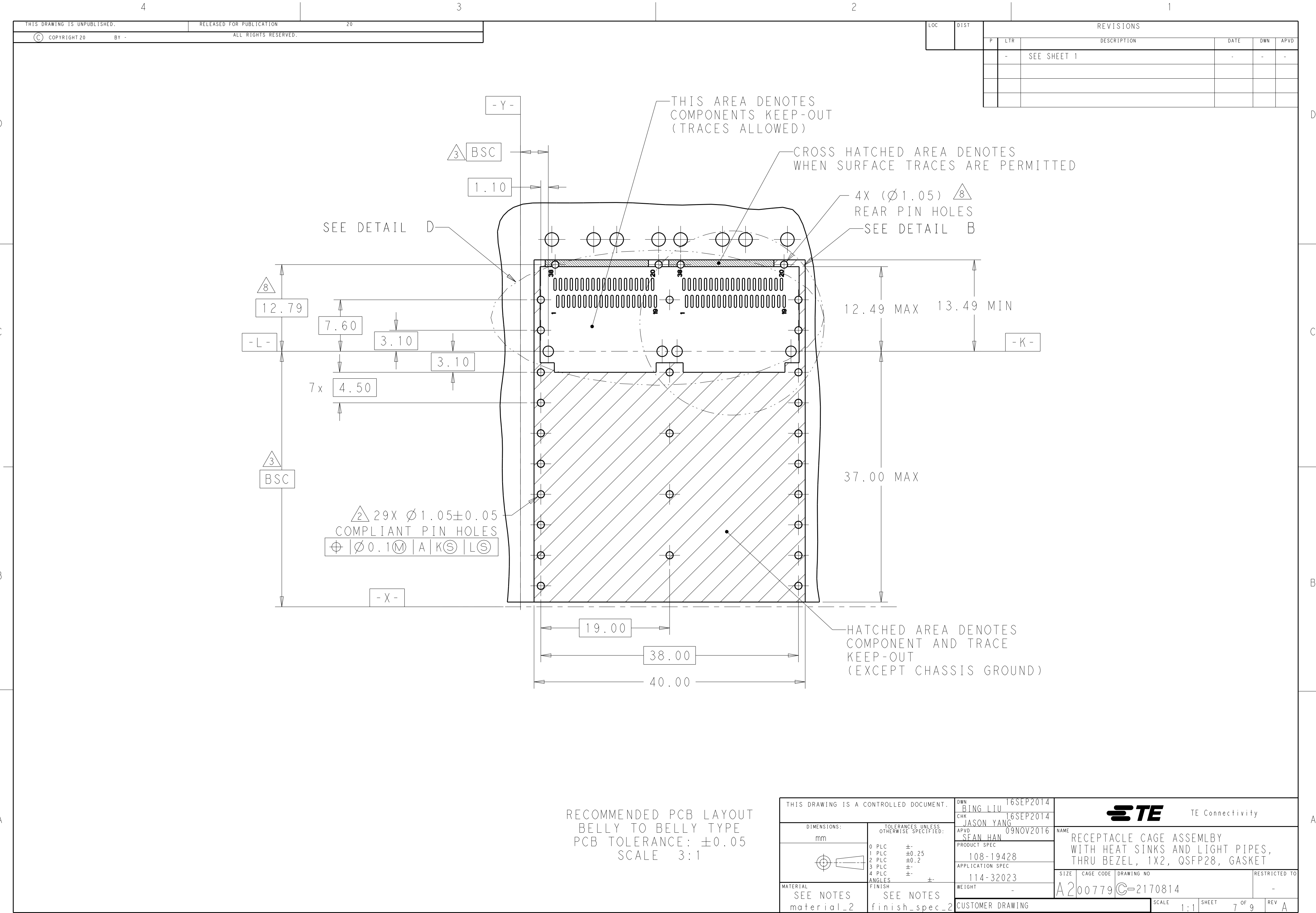
RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X2, QSFP28, GASKET

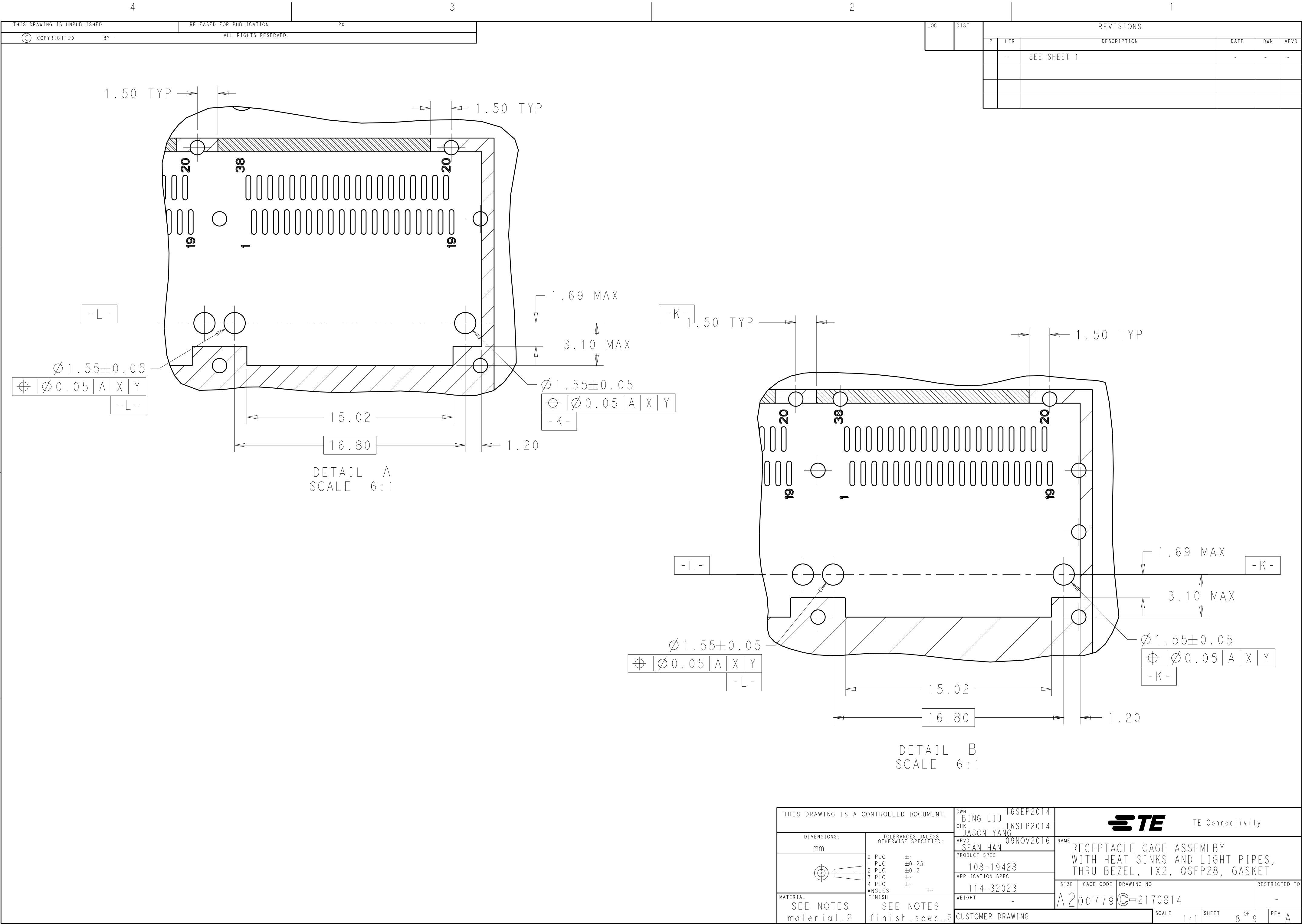
SIZE A2

CAGE CODE 00779

DRAWING NO C-2170814

RESTRICTED TO -





1.50 TYP

1.50 TYP

19

38

20

1

19

20

1.69 MAX

3.10 MAX

1.50 TYP

15.02

16.80

1.20

DETAIL A

SCALE 6:1

Ø1.55±0.05

⊕|Ø0.05|A|X|Y

-L-

-K-

1.50 TYP

1.50 TYP

19

38

20

1

19

20

1.69 MAX

3.10 MAX

1.50 TYP

15.02

16.80

1.20

DETAIL B

SCALE 6:1

Ø1.55±0.05

⊕|Ø0.05|A|X|Y

-L-

-K-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

BING LIU

16SEP2014

CHK

JASON YANG

16SEP2014

APVD

SEAN HAN

09NOV2016

DIMENSIONS:

mm

0 PLC

±

1 PLC

±0.25

2 PLC

±0.2

3 PLC

±

4 PLC

±

ANGLES

±

FINISH

SEE NOTES

finish_spec_2

SEE NOTES

PRODUCT SPEC

108-19428

APPLICATION SPEC

114-32023

WEIGHT

-

CUSTOMER DRAWING

NAME

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

SIZE

A2

CAGE CODE

00779

DRAWING NO

C-2170814

RESTRICTED TO

-

SCALE

1:1

SHEET

8

OF

9

REV

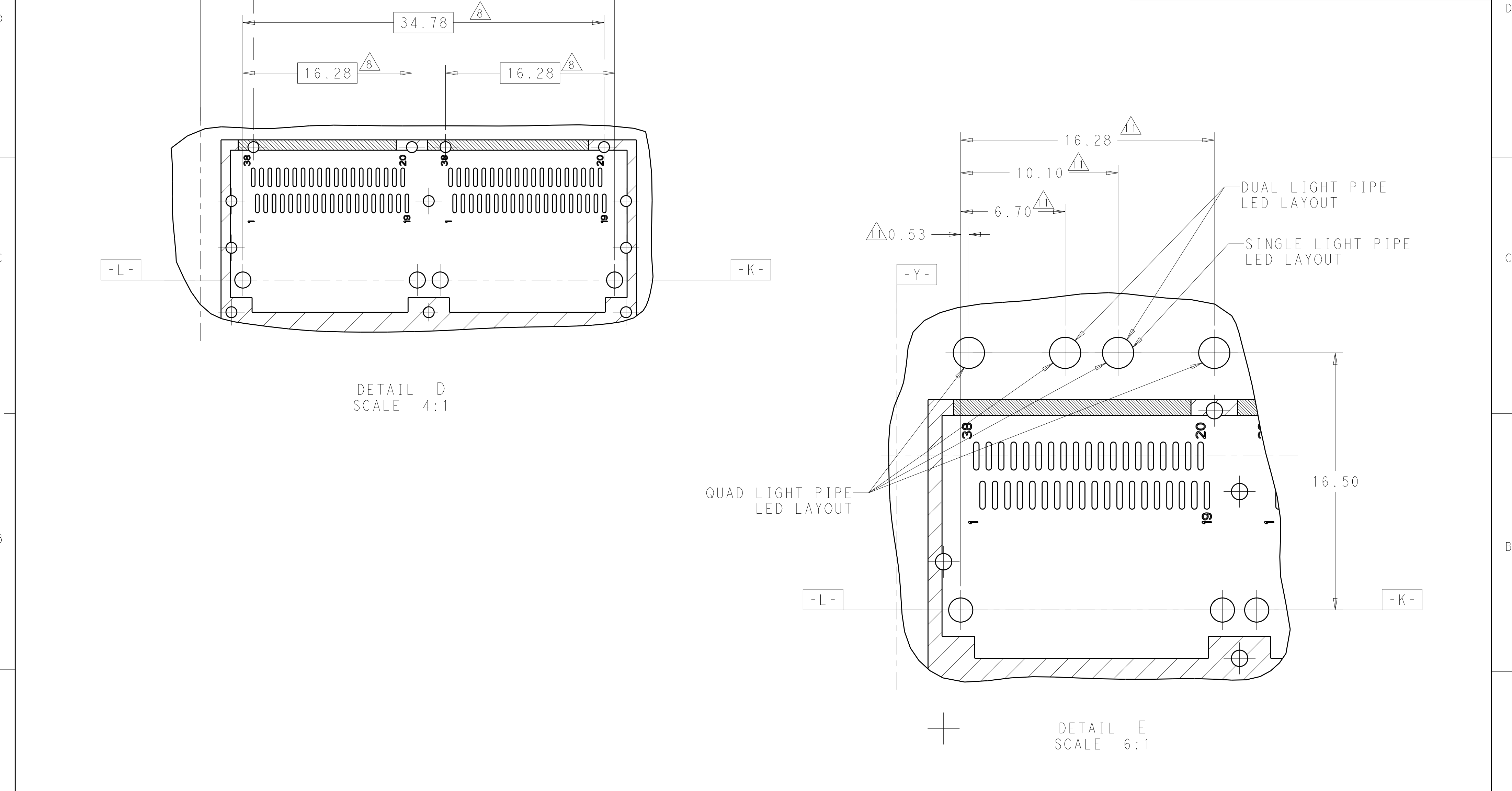
A

TE

TE Connectivity

1471-9 (3/11)

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



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN BING LIU 16SEP2014	TE Connectivity		
DIMENSIONS: mm		CHK JASON YANG 16SEP2014			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD SEAN HAN 09NOV2016	NAME RECEPTACLE CAGE ASSEMBLY WITH HEAT SINKS AND LIGHT PIPES, THRU BEZEL, 1X2, QSFP28, GASKET		
0 PLC ± 1 PLC ±0.25 2 PLC ±0.2 3 PLC ± 4 PLC ± ANGLES ±		PRODUCT SPEC 108-19428	SIZE A200779		
MATERIAL SEE NOTES material_2		APPLICATION SPEC 114-32023	DRAWING NO C-2170814		
FINISH SEE NOTES finish_spec_2		WEIGHT -	RESTRICTED TO -		
CUSTOMER DRAWING			SCALE 1:1	SHEET 9 OF 9	REV A