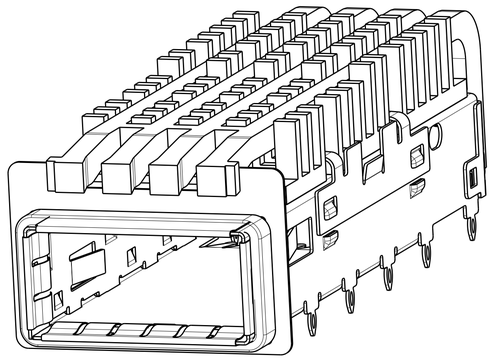
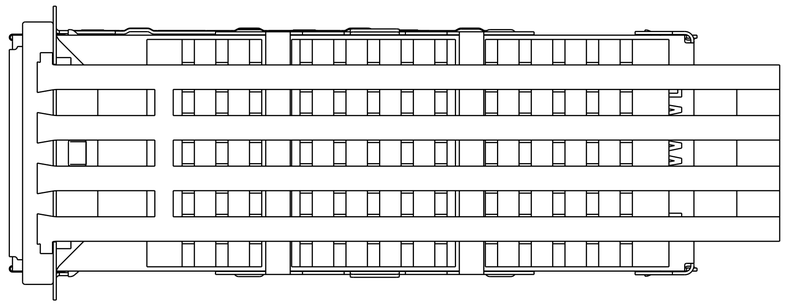
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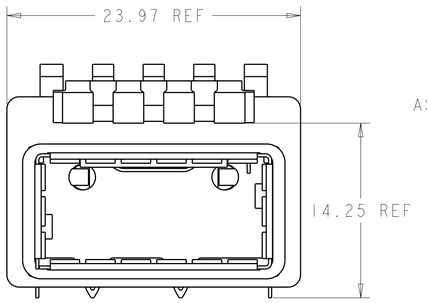
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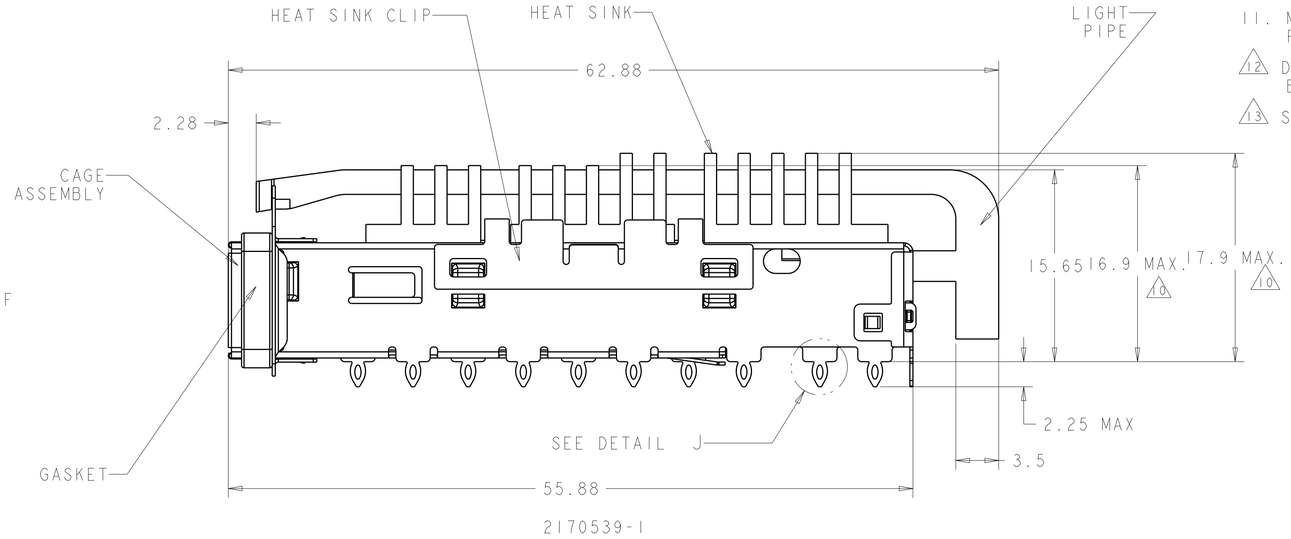
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
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	5	ADD 2170539-5	04MAY2014	HW	MC
	A	ADD SHEET 6 2170539-6	17SEP2015	RG	SH

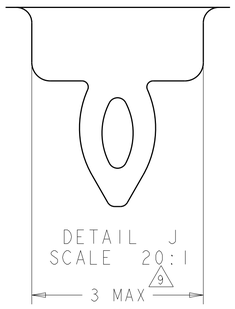


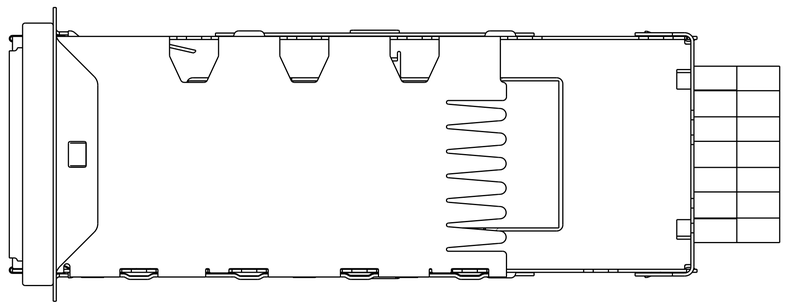






2170539-1





1. CAGE MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE, UL-94V-0 RATED.
EMI SPRING MATERIAL: COPPER ALLOY

2. MINIMUM PITCH DIMENSION.

3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.

4. REFERENCE APPLICATION SPEC 114-13217 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.

5. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

6. MINIMUM PC BOARD THICKNESS:
SINGLE SIDED = 1.45mm (shown, pg. 4)

7. HEAT SINK, CLIP, AND LIGHT PIPE SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.

8. DATUM -A- IS TOP SURFACE OF HOST BOARD.

9. SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.

10. DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE TO TOP OF HEAT SINK.

11. MAXIMUM HEIGHT OF CUSTOMER SUPPLIED LED OFF PC BOARD: 1.70mm.

12. DATE CODE (YYWWD) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINK APPLIES TO CAGE ASSEMBLY ONLY.

13. SPRING FINISH: MATT TIN 2µm MIN, NON-PLATED EDGES PERMISSIBLE.

DESCRIPTION	PART NO
SAN HEAT SINK WITH ONE PIN HEIGHT, HEAT SINK CLIP HORN SHAPE LP & SOLID GASKET	2170539-5
ONLY SOLID GASKET	2170539-4
SAN HEAT SINK WITH TWO PIN HEIGHT, HEAT SINK CLIP NRMAL LP & HOLLOW GASKET	2170539-3
ONLY HOLLOW GASKET	2170539-2
SAN HEAT SINK WITH TWO PIN HEIGHT, HEAT SINK CLIP HORN SHAPE LP & SOLID GASKET	2170539-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL -1

FINISH -

DWN	TIM XUE	14MAY2013
CHK	JASON YANG	14MAY2013
APVD	ALEX CAI	14MAY2013

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13217
WEIGHT -

TE Connectivity

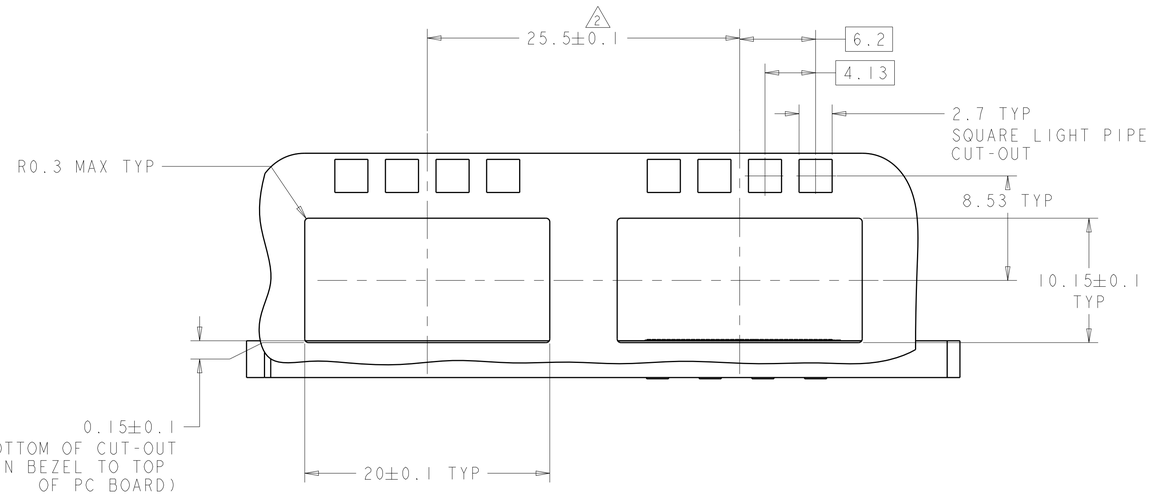
NAME: CAGE ASSEMBLY, QSFP+, W/ HEAT SINK, EMI GASKET AND LIGHT PIPE

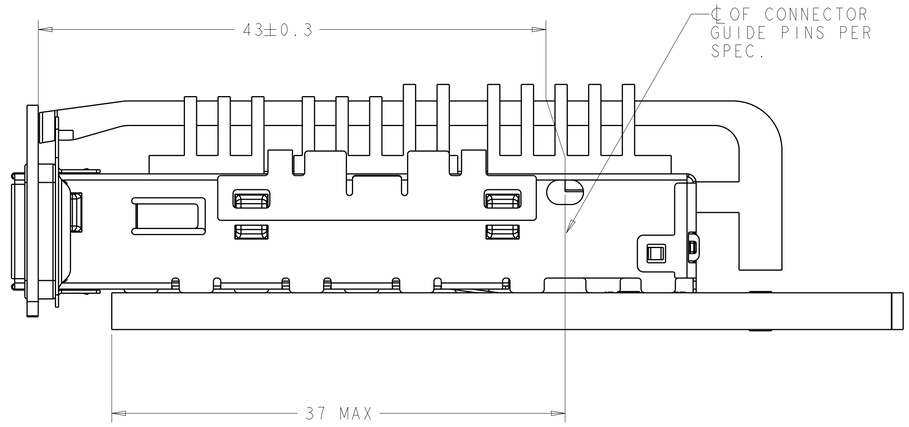
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2170539	-

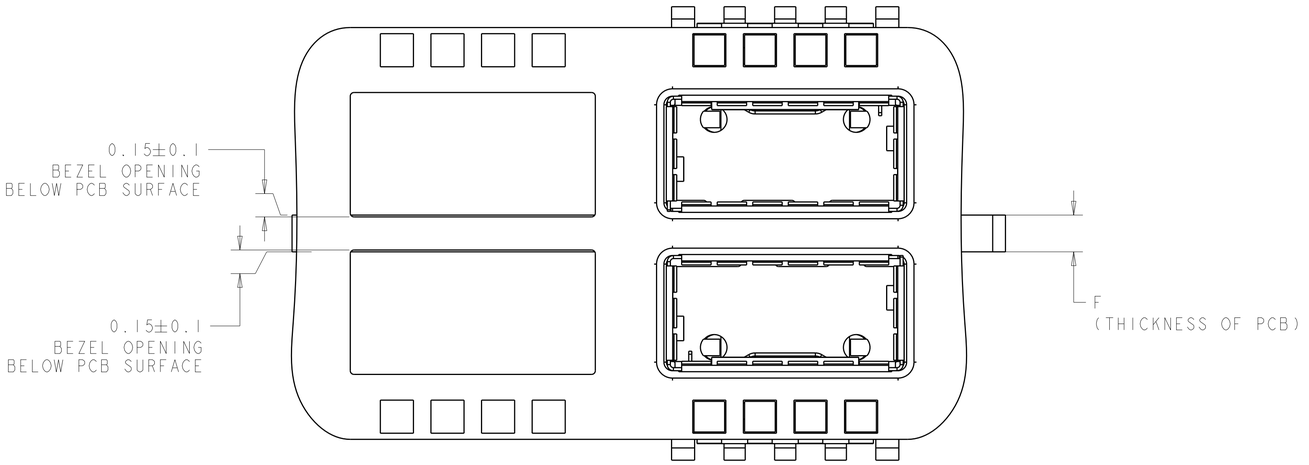
CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 6 | REV A

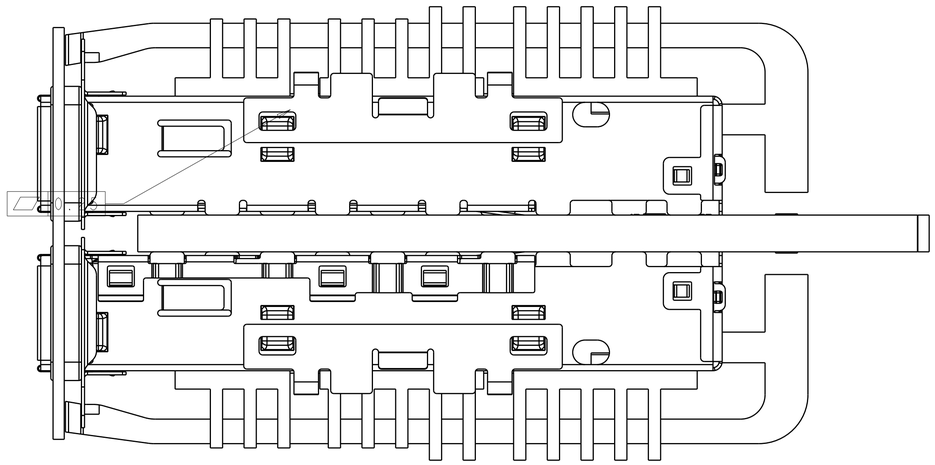
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LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN	APVD
			-	SEE SHEET 1	-	-	-









SCALE 4:1

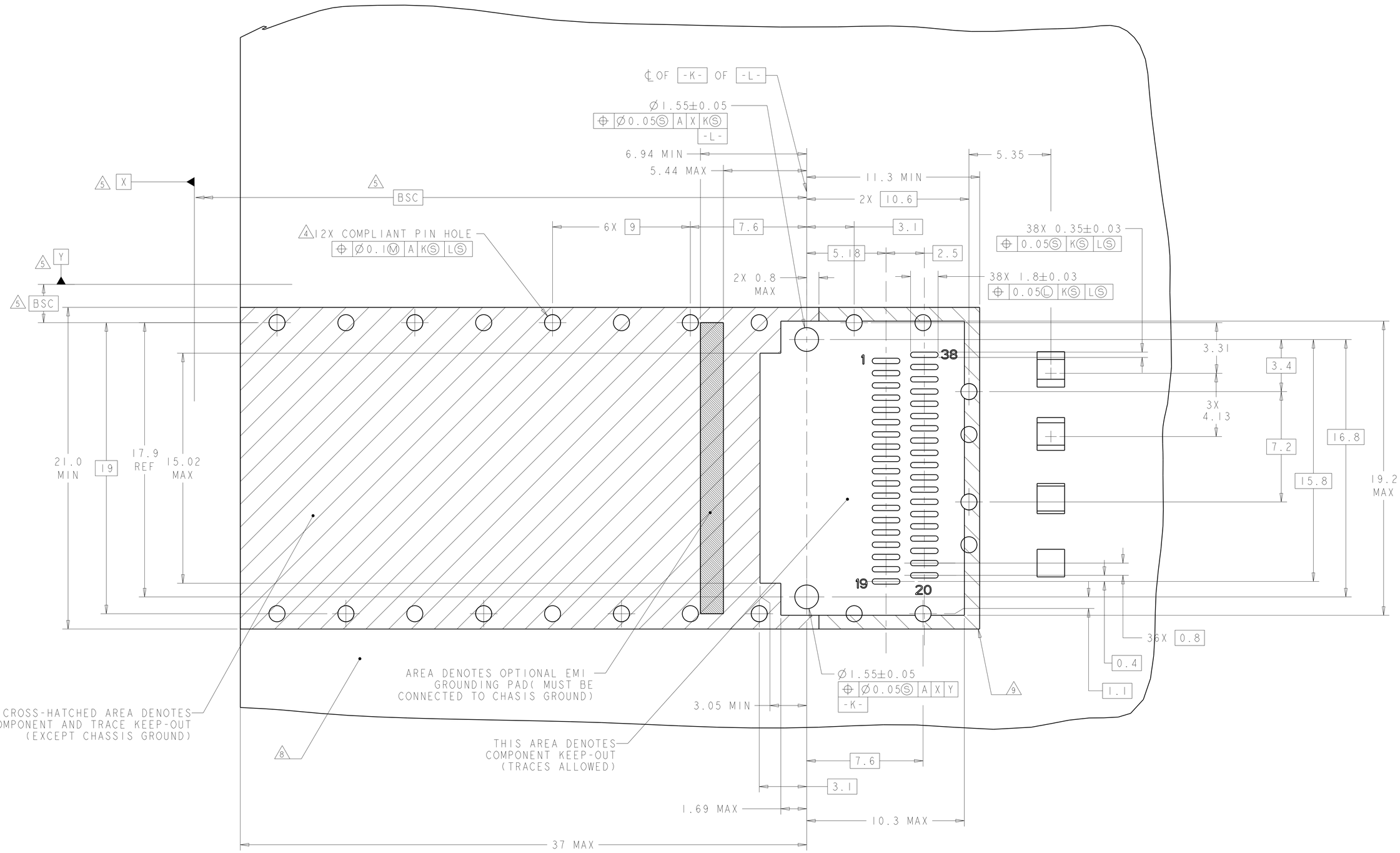
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 14MAY2013	TE Connectivity
		CHK JASON YANG 14MAY2013	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.5 2 PLC ±0.13 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±-	APVD ALEX CAI 14MAY2013	NAME CAGE ASSEMBLY, QSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE
		PRODUCT SPEC 108-2286	
		APPLICATION SPEC 114-13217	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2170539 · RESTRICTED TO -
MATERIAL - -	FINISH - -	WEIGHT -	
		Customer Drawing	SCALE 4:1 · SHEET 2 OF 6 · REV A

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LOC	DIST

REVISIONS

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



RECOMENDED PC BOARD LAYOUT
SCALE 8:1

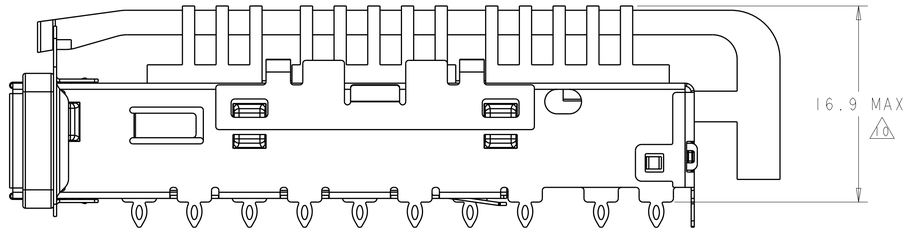
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TIM XUE 14MAY2013	TE Connectivity
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.5 2 PLC ±0.13 3 PLC ±0.013 4 PLC ±0.0001 ANGLES ±-	CHK JASON YANG 14MAY2013	NAME CAGE ASSEMBLY, QSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE
		APVD ALEX CAI 14MAY2013	
		PRODUCT SPEC 108-2286	
		APPLICATION SPEC 114-13217	SIZE A1 CAGE CODE 00779 DRAWING NO C-2170539 RESTRICTED TO -
MATERIAL - -	FINISH - -	WEIGHT -	Customer Drawing SCALE 4:1 SHEET 3 OF 6 REV A

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LOC	DIST

REVISIONS

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



SCALE 4:1

2170539-5
EXCEPT INDICATED DIMENSION
OTHER DIMENSIONS ARE SAME AS 2170539-1

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DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL -
FINISH -

DWN TIM XUE 14MAY2013
CHK JASON YANG 14MAY2013
APVD ALEX CAI 14MAY2013
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13217
WEIGHT -

TE Connectivity

NAME CAGE ASSEMBLY, QSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2170539	-

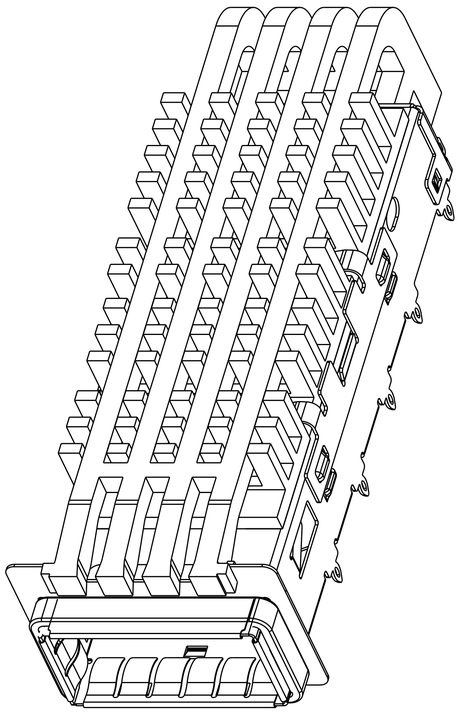
Customer Drawing | SCALE 4:1 | SHEET 4 OF 6 | REV A

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LOC	DIST

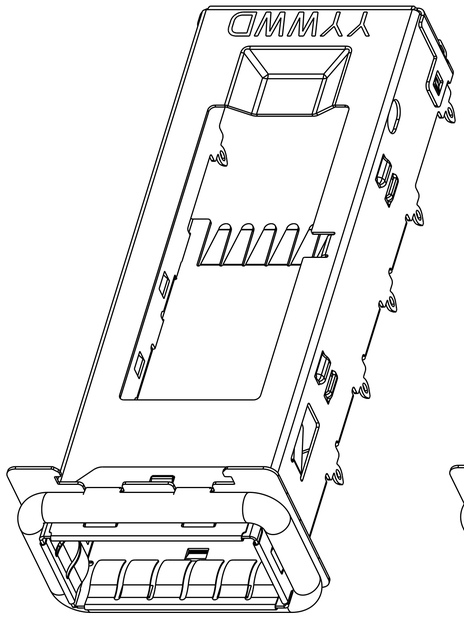
REVISIONS

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



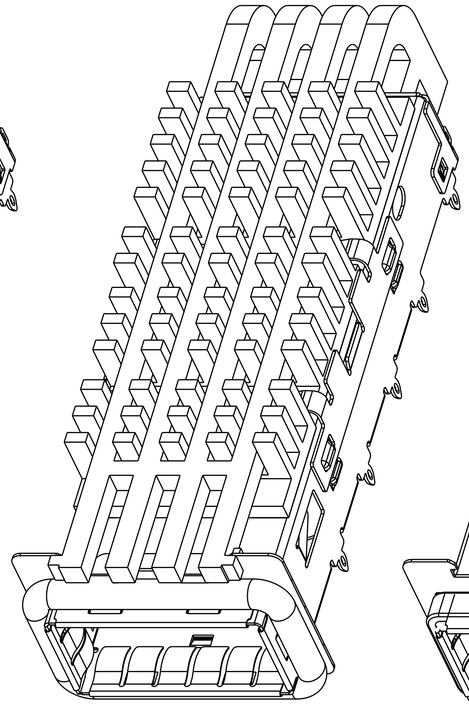
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2170539-1 AS SHOWN



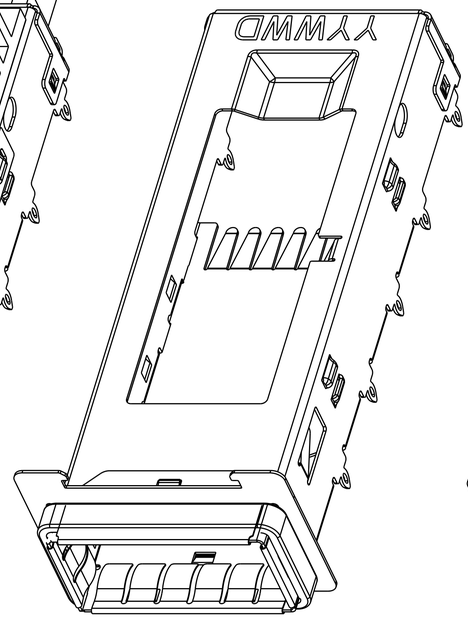
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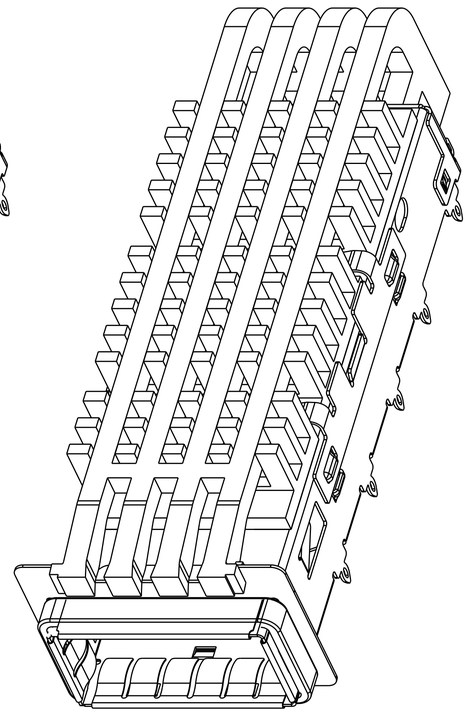
SCALE 4:1

2170539-3 AS SHOWN



SCALE 4:1

2170539-4 AS SHOWN



SCALE 4:1

2170539-5 AS SHOWN

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DIMENSIONS: mm

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0 PLC ±-
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3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL -

FINISH -

DWN TIM XUE 14MAY2013
CHK JASON YANG 14MAY2013
APVD ALEX CAI 14MAY2013
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13217
WEIGHT -

TE Connectivity

NAME CAGE ASSEMBLY, QSFP+, W/ HEAT SINK, EMI GASKET AND LIGHT PIPE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2170539	-

Customer Drawing

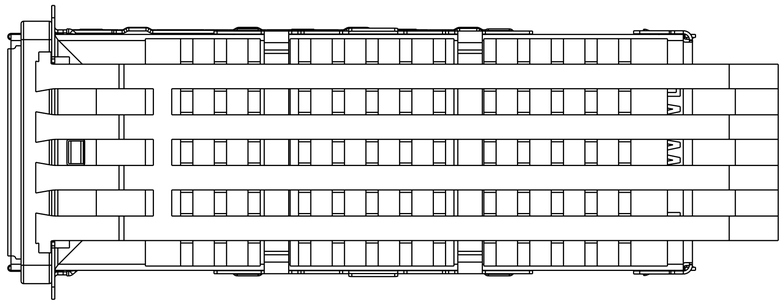
SCALE 4:1 SHEET 5 OF 6 REV A

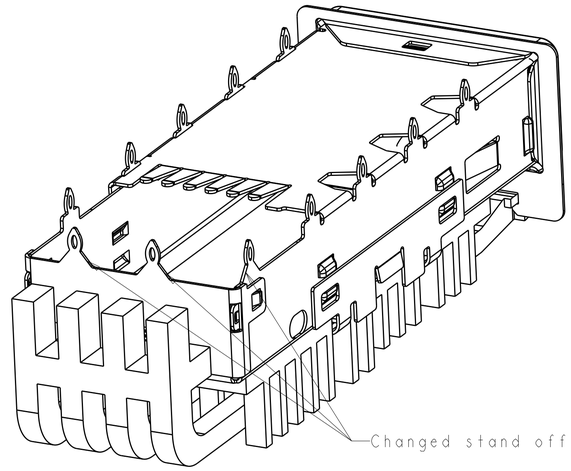
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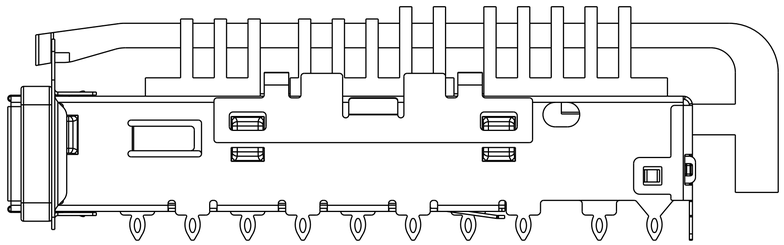
REVISIONS

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

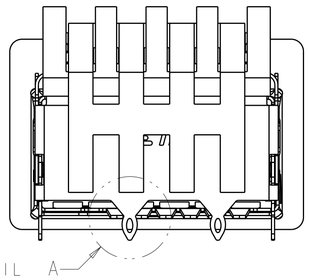




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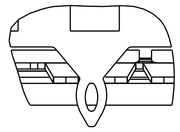


SCALE 4:1



SEE DETAIL A

2170539-6 ARE AS SHOWN, UN-SPECIFIED DIMENSIONS
ALL REFER 2170539-1



DETAIL A
SCALE 8:1

SAN HEAT SINK WITH TWO PIN HEIGHT, HEAT SINK CLIP HORN SHAPE LP & SOLID GASKET,CHANGED 3 STAND OFF SHAPE

2170539-6

DESCRIPTION

PART NO

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DWN TIM XUE 14MAY2013
CHK JASON YANG 14MAY2013
APVD ALEX CAI 14MAY2013

TE Connectivity

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
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ANGLES ±-

NAME CAGE ASSEMBLY, QSFP+, W/ HEAT SINK,EMI GASKET AND LIGHT PIPE

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13217
WEIGHT -

MATERIAL - -
FINISH - -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2170539	-

Customer Drawing | SCALE 4:1 | SHEET 6 OF 6 | REV A