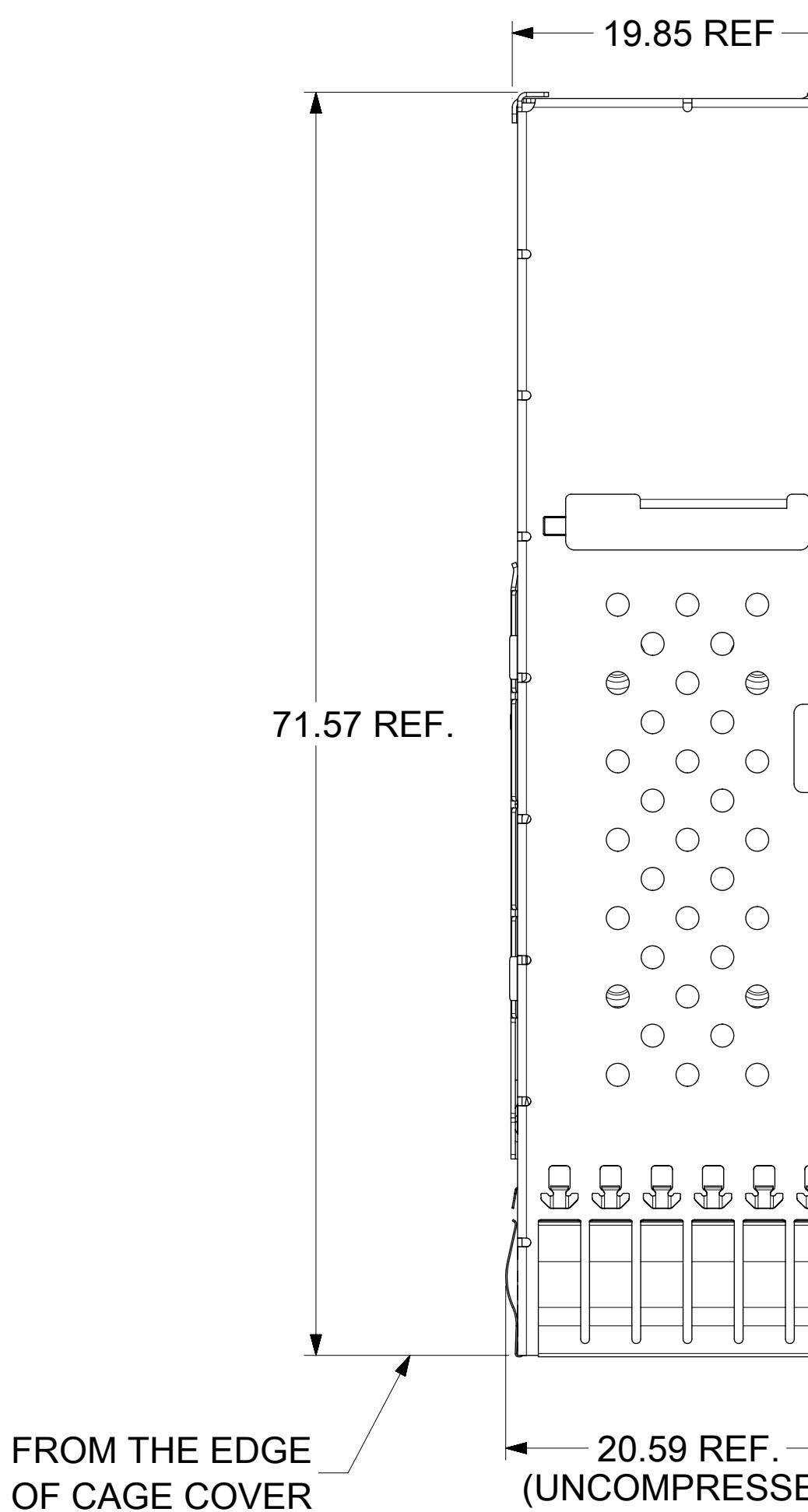
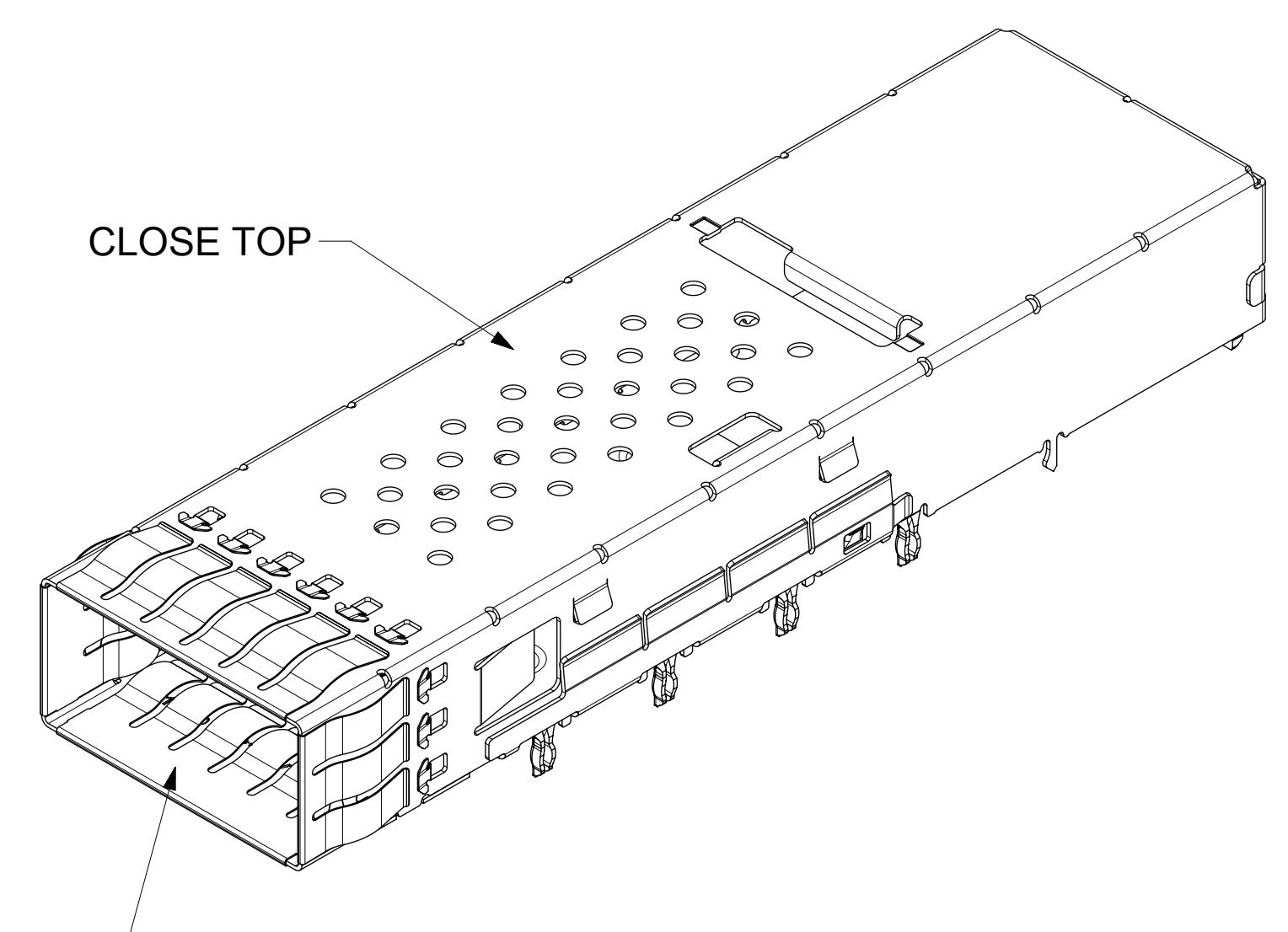
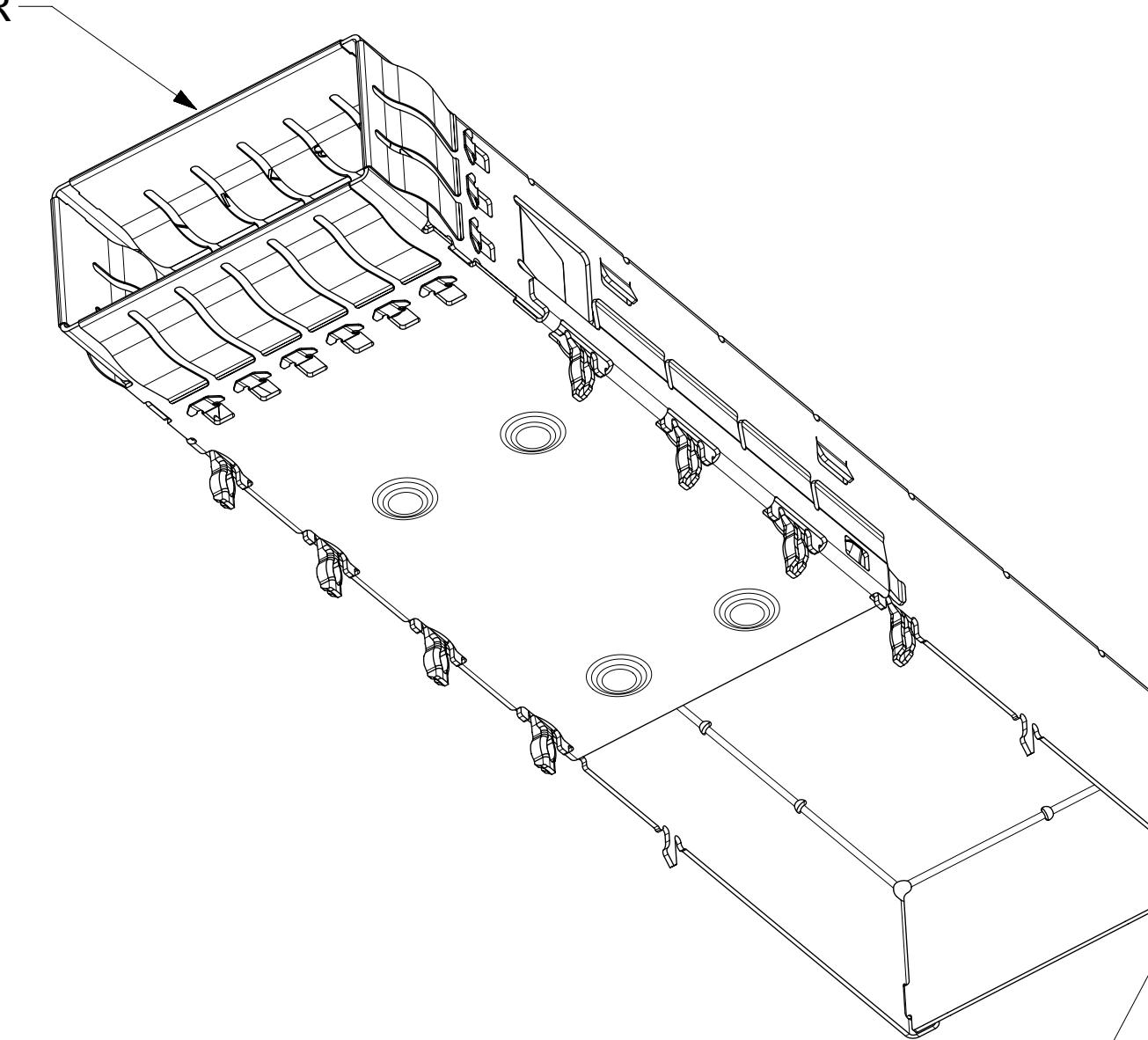


BASE CAGE DETAILS

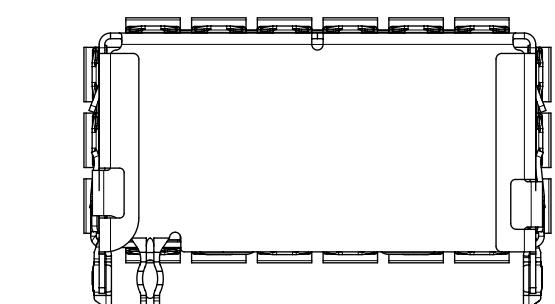
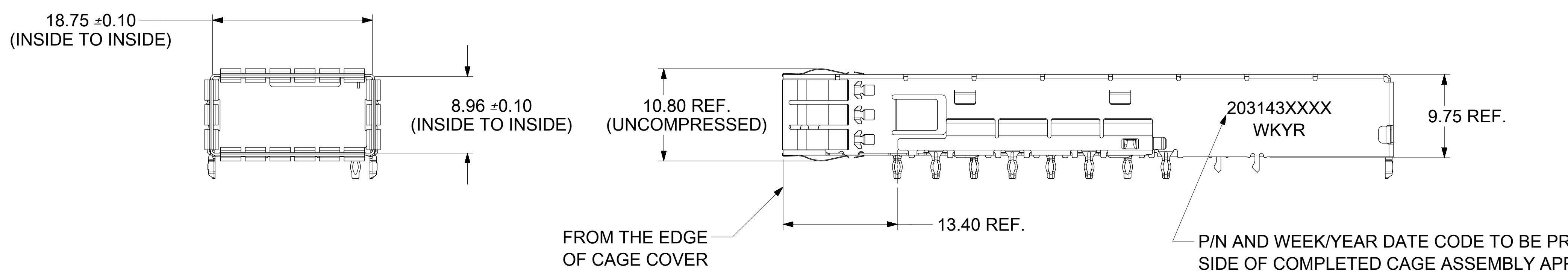
2031431244 SHOWN



SPRING FINGER



DIMENSIONS OF EACH INNER CAGE DESIGNED
TO FUNCTION WITH QUAD SMALL
FORM-FACTOR (zQSFP+ & QSFP-DD) TRANSCEIVER



WEEK/YEAR DATE CODE TABLE

WK	WEEK OF THE YEAR 01 THRU 52 OR 53 (EXAMPLE: 01= FIRST WEEK OF YEAR, 52 OR 53 = LAST WEEK OF YEAR)
YR	17, 18, 19 ETC.. (EXAMPLE: YEAR 2017= 17)

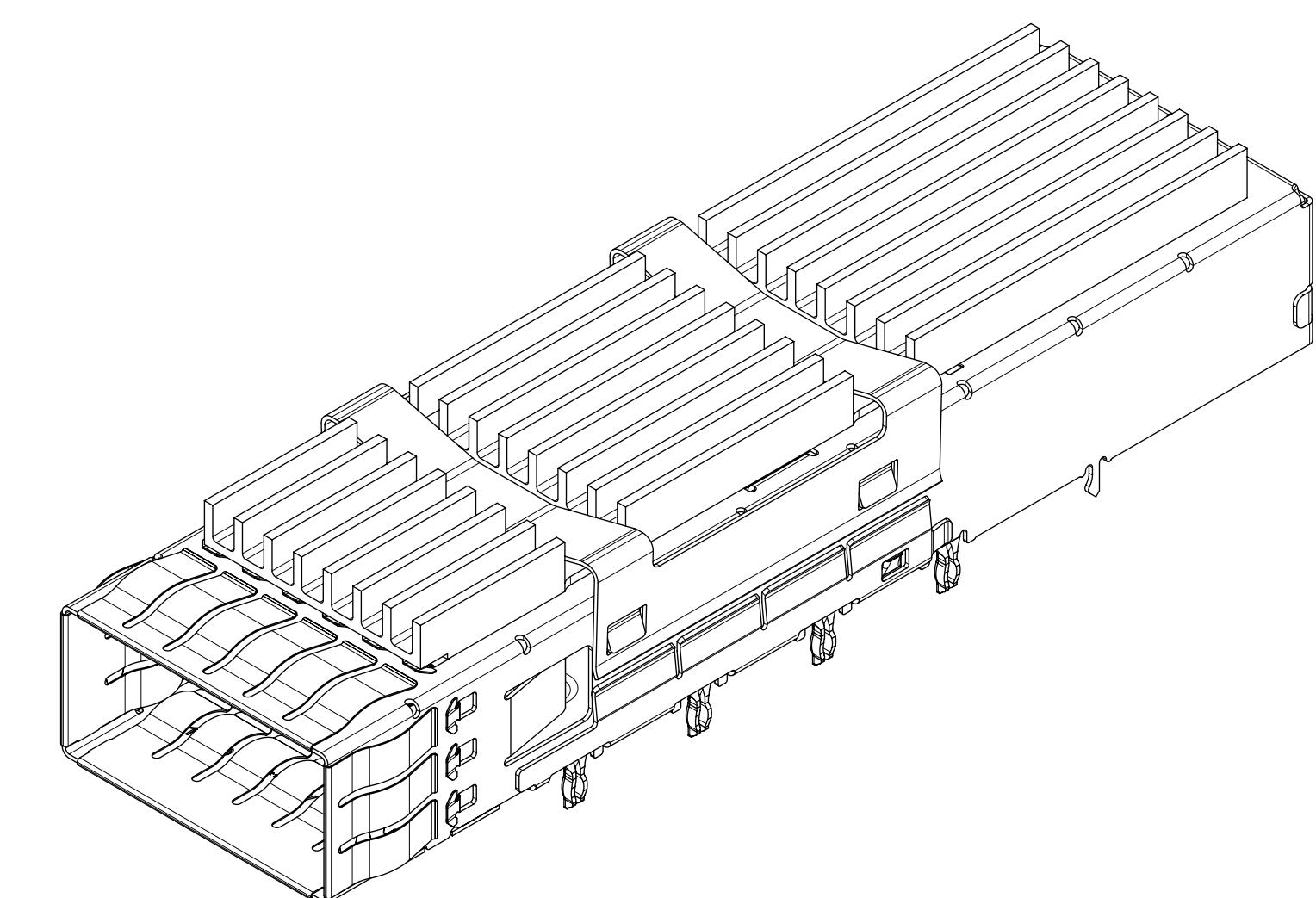
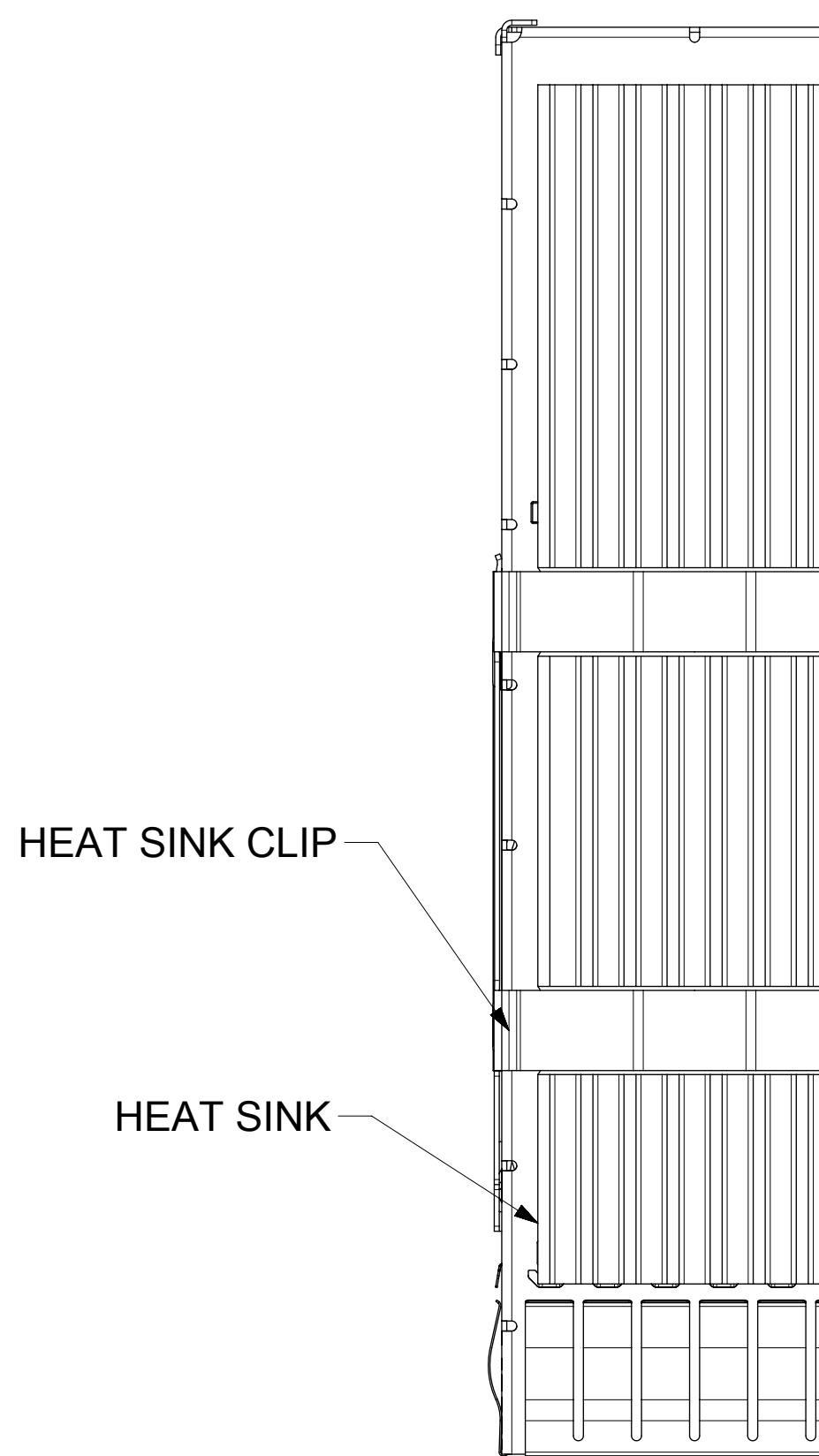
NOTES:

1. MATERIAL: CAGE: STAINLESS STEEL
SPRING FINGERS: STAINLESS STEEL
HEAT SINKS: ALUMINUM(BLACK ANODIZATION)
HEAT SINK CLIP: STAINLESS STEEL
2. DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
3. DURING FINAL INSPECTION, CAGE LEG LOCATIONS AND STRAIGHTNESS MUST BE CHECKED USING APPROPRIATE GO - NO GO GAGE
4. DURING FINAL INSPECTION, CAGE MUST BE INSPECTED TO MAKE SURE LEG CONFIGURATIONS AND PART NUMBERS ARE CORRECT, REFER TO SHEETS 2 AND 3.
5. PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
6. PRESS-FIT LEGS 2.44mm LONG -
 - 1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.
 - 2.70mm MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
7. NO RoHS EXEMPTIONS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DIMENSION UNITS		SCALE	CURRENT REV DESC: SEE P/N TABLE
mm	3:1		
		GENERAL TOLERANCES (UNLESS SPECIFIED)	
		ANGULAR TOL \pm 2.0°	
4 PLACES	\pm		
3 PLACES	\pm		
2 PLACES	\pm 0.13		
1 PLACE	\pm 0.25		
0 PLACES	\pm		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
EC NO: 173798			
DRWN: PGSHETTY		2018/02/01	
CHK'D: LLU20		2018/03/22	
APPR: RCHE08		2018/03/23	
INITIAL REVISION:			
DRWN: LLU20		2017/07/17	
APPR: RCHE08		2017/08/15	
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2031431201	PSD	ASY	C
molex			
QSFP-DD 1X1 CAGE ASSY SF WITH FIN H/S OPTIONS			
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2031431201	PSD	ASY	C
MATERIAL NUMBER	CUSTOMER		
SEE P/N TABLE	GENERAL MARKET		
4	3		
5	2		
6	1		
D-SIZE	203143		
7	8		
8	9		
9	10		
10	11		
11	12		
12	13		
13	14		
14	15		
15	16		
16	17		
17	18		
18	19		
19	20		

CAGE ASSEMBLY OPTIONS

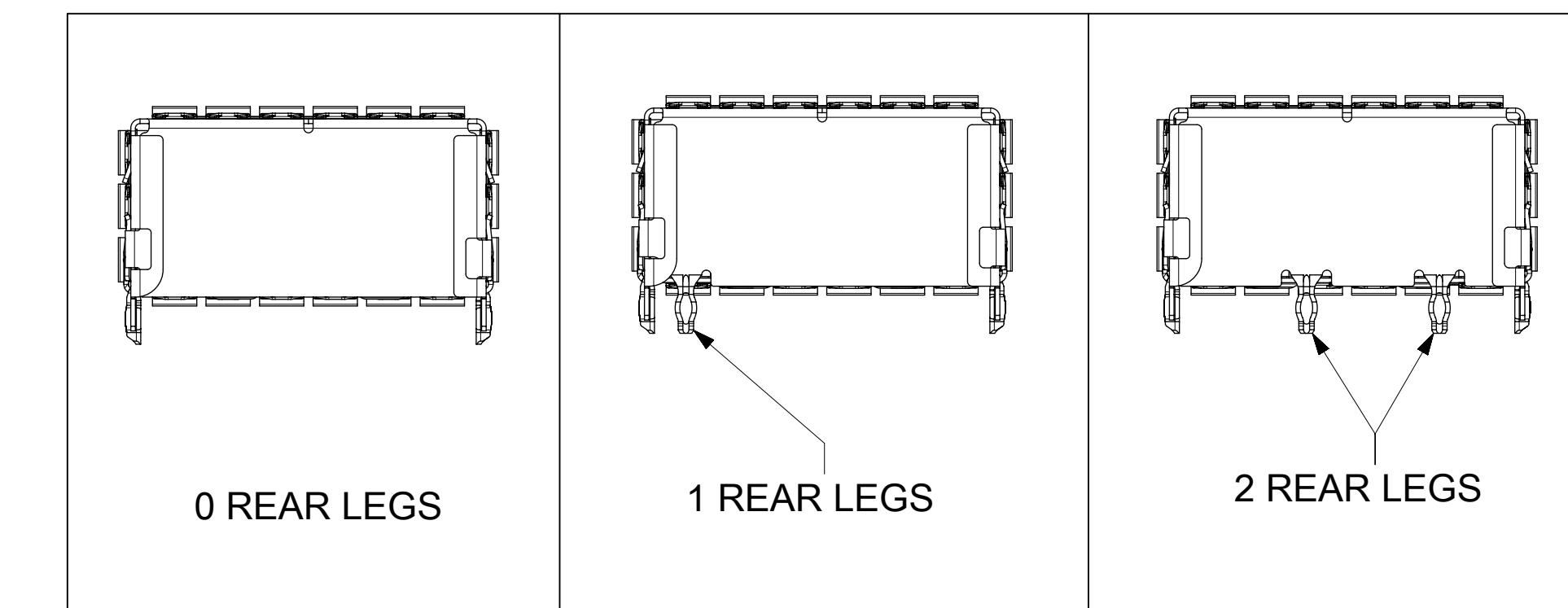
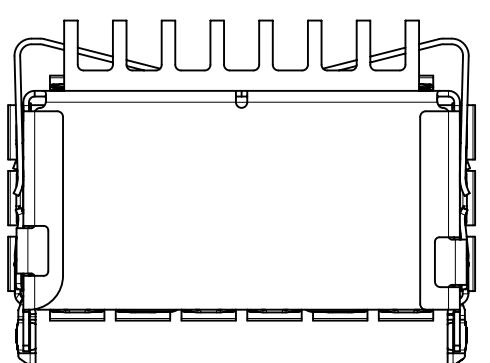
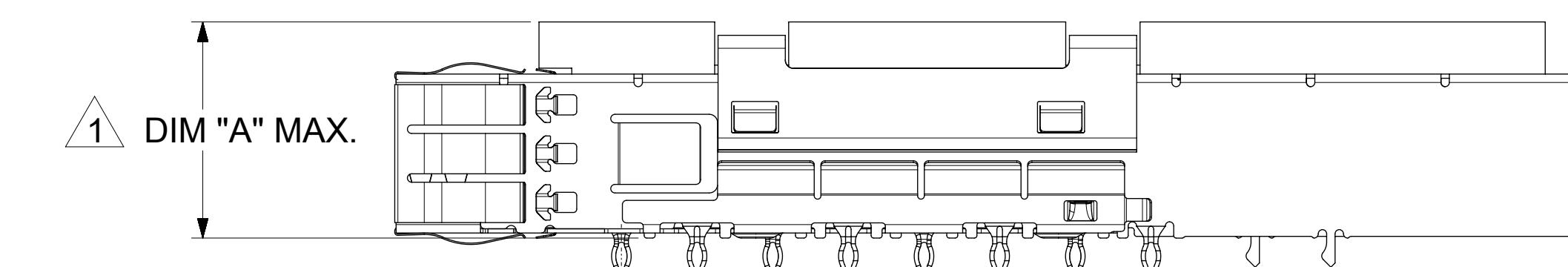
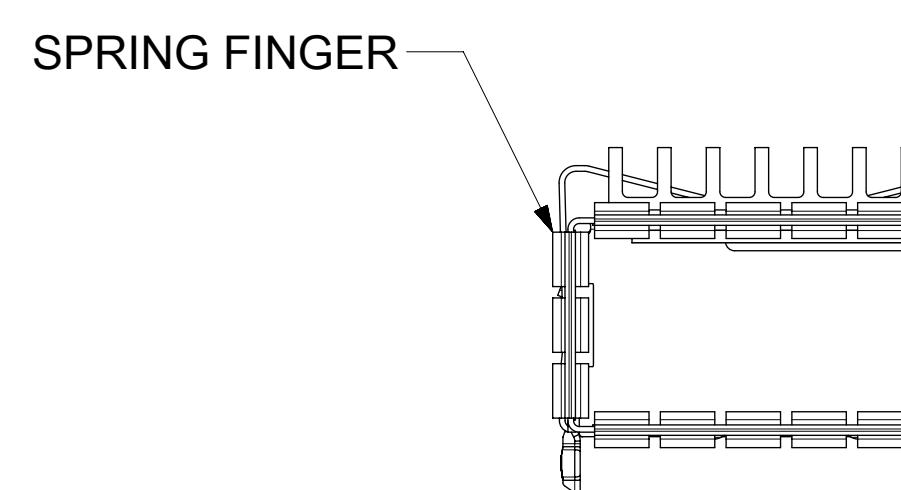
2031431439 SHOWN



HEAT SINK HEIGHT OPTIONS

OVERALL HEAT SINK HEIGHT	DIM "A"
PCI	13.7
SAN	16.0
NET	23.0

⚠ HEIGHT OF HEAT SINK WITH MODULE INSERTED.
⚠ DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE P/N TABLE	
DIMENSION UNITS	mm	SCALE	3:1
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	± 2.0°		
4 PLACES	±		
3 PLACES	±		
2 PLACES	± 0.13		
1 PLACE	± 0.25		
0 PLACES	±		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SERIES	MATERIAL NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CUSTOMER	REVISION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE P/N TABLE	GENERAL MARKET
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		203143	2 OF 7

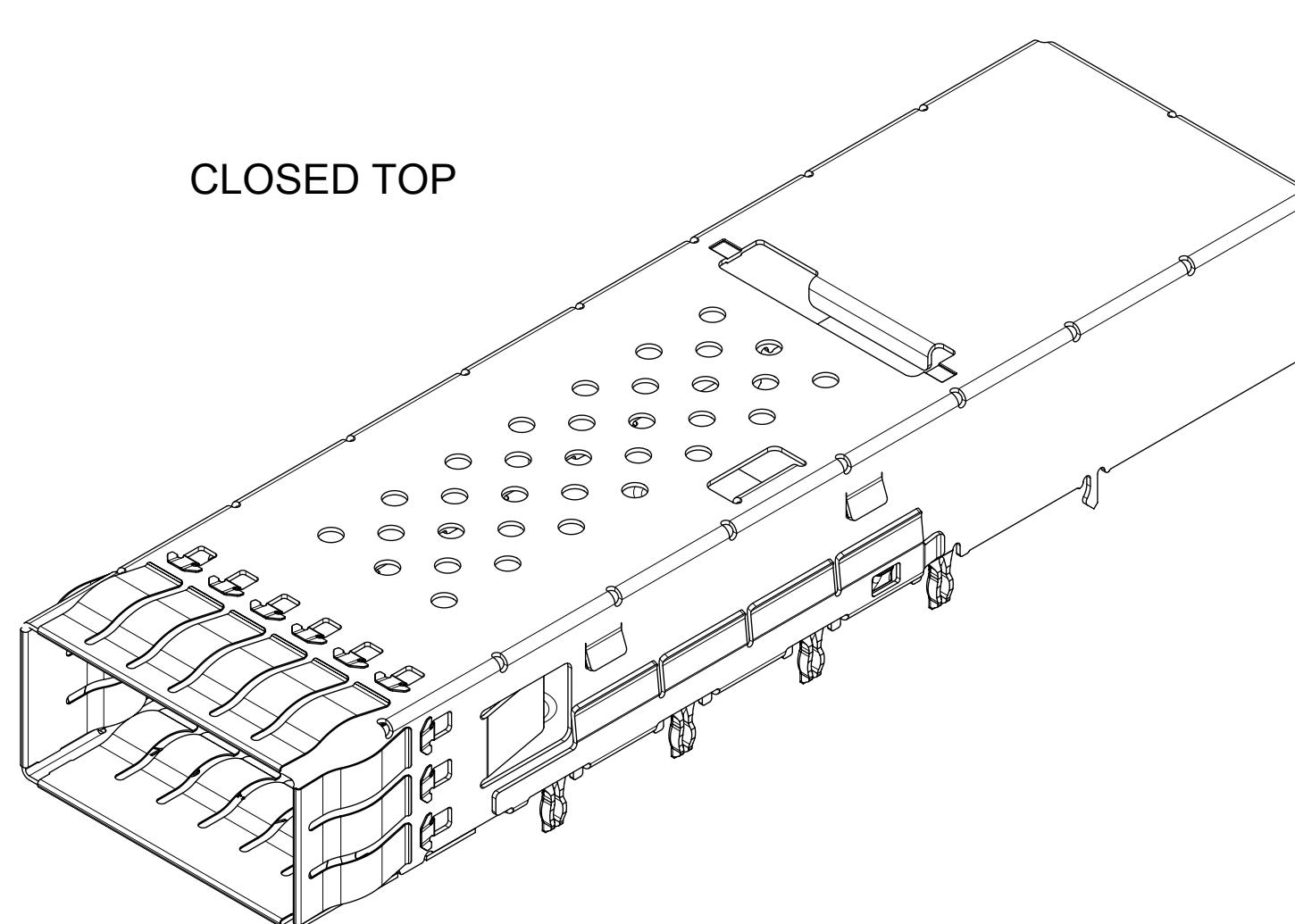
molex

QSFP-DD 1X1 CAGE ASSY
SF WITH FIN H/S OPTIONS

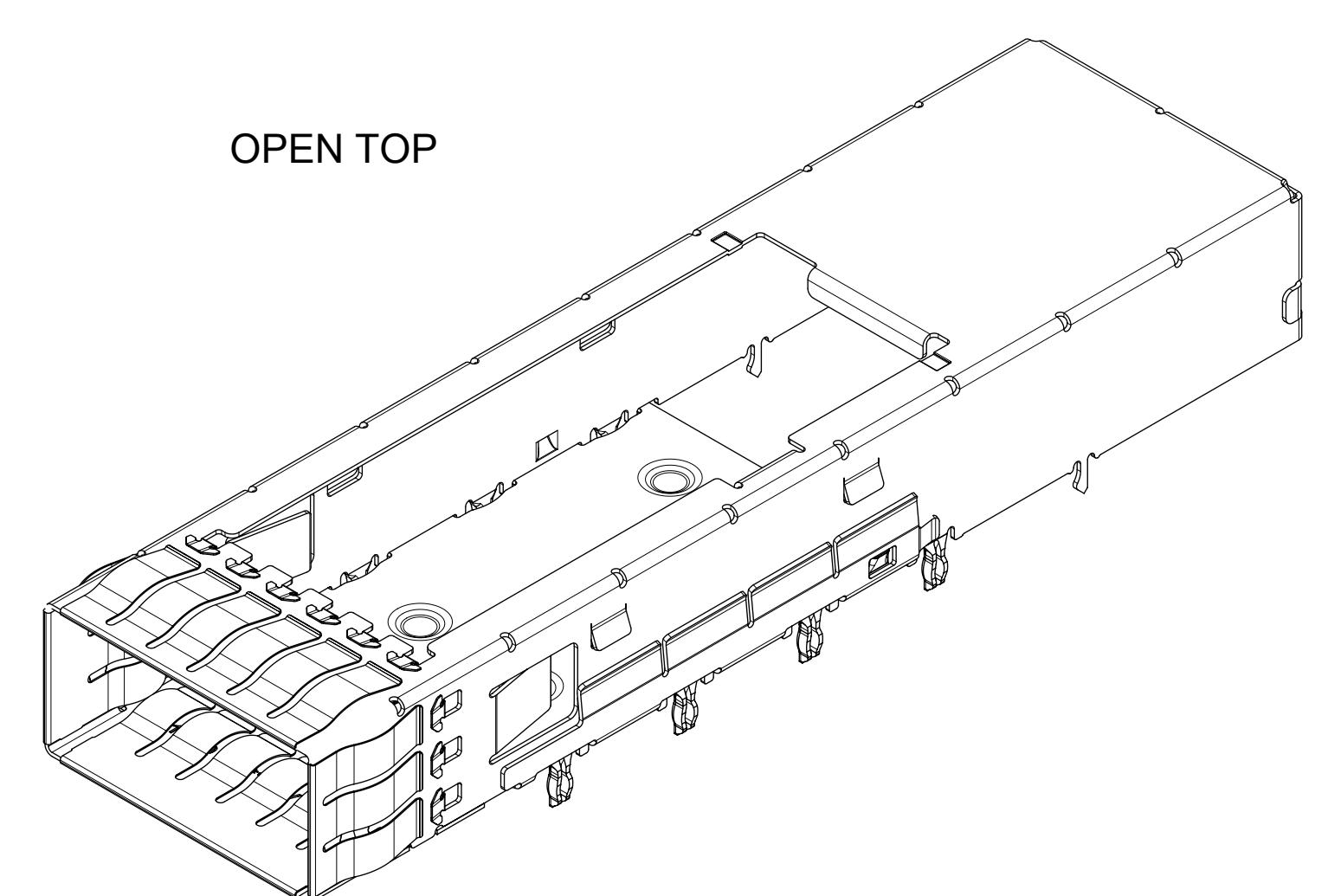
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 2031431201
DOC TYPE: PSD
DOC PART: ASY
REVISION: C

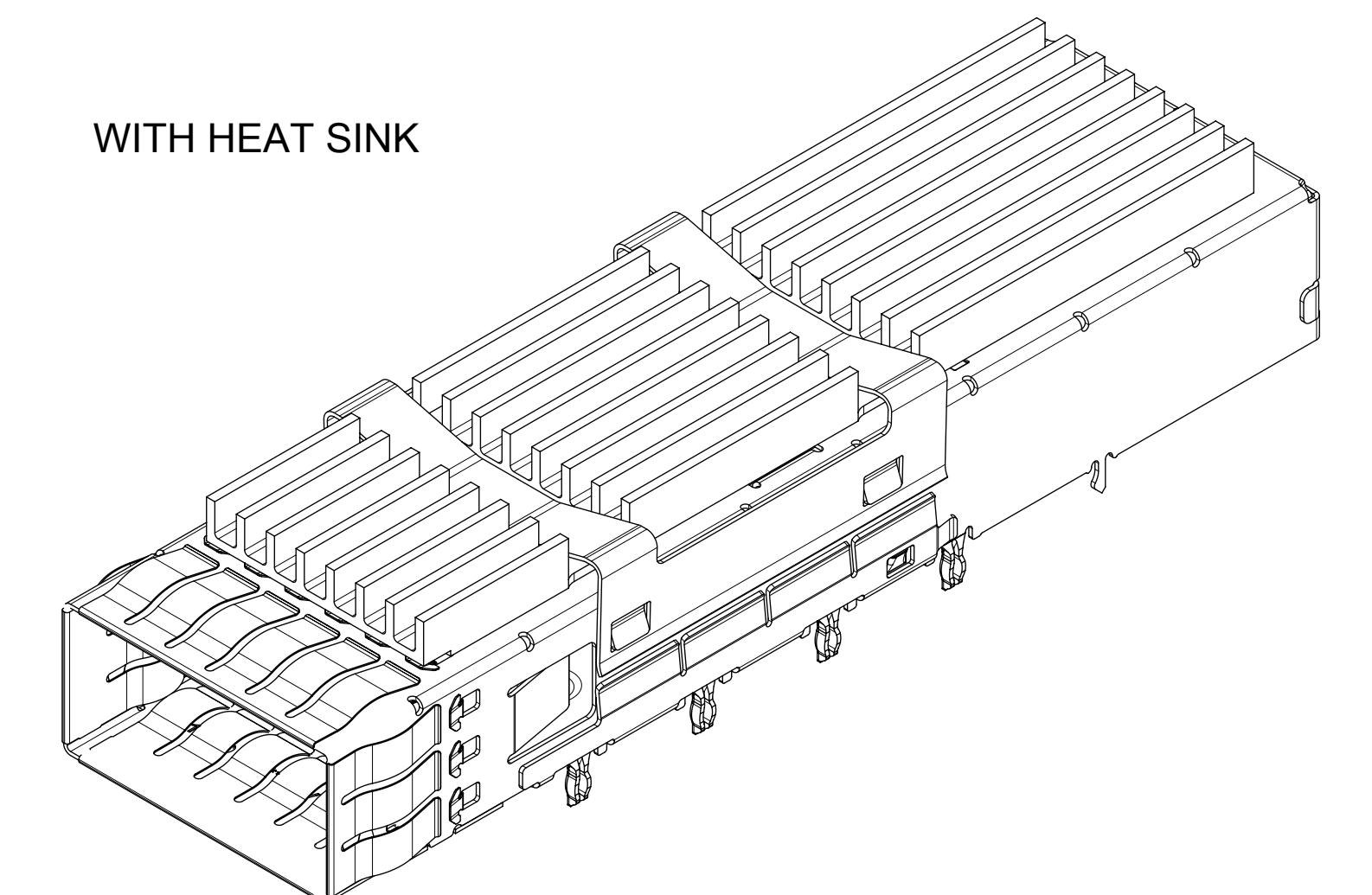
PART NUMBER SELECTION



CLOSED TOP



OPEN TOP



WITH HEAT SINK

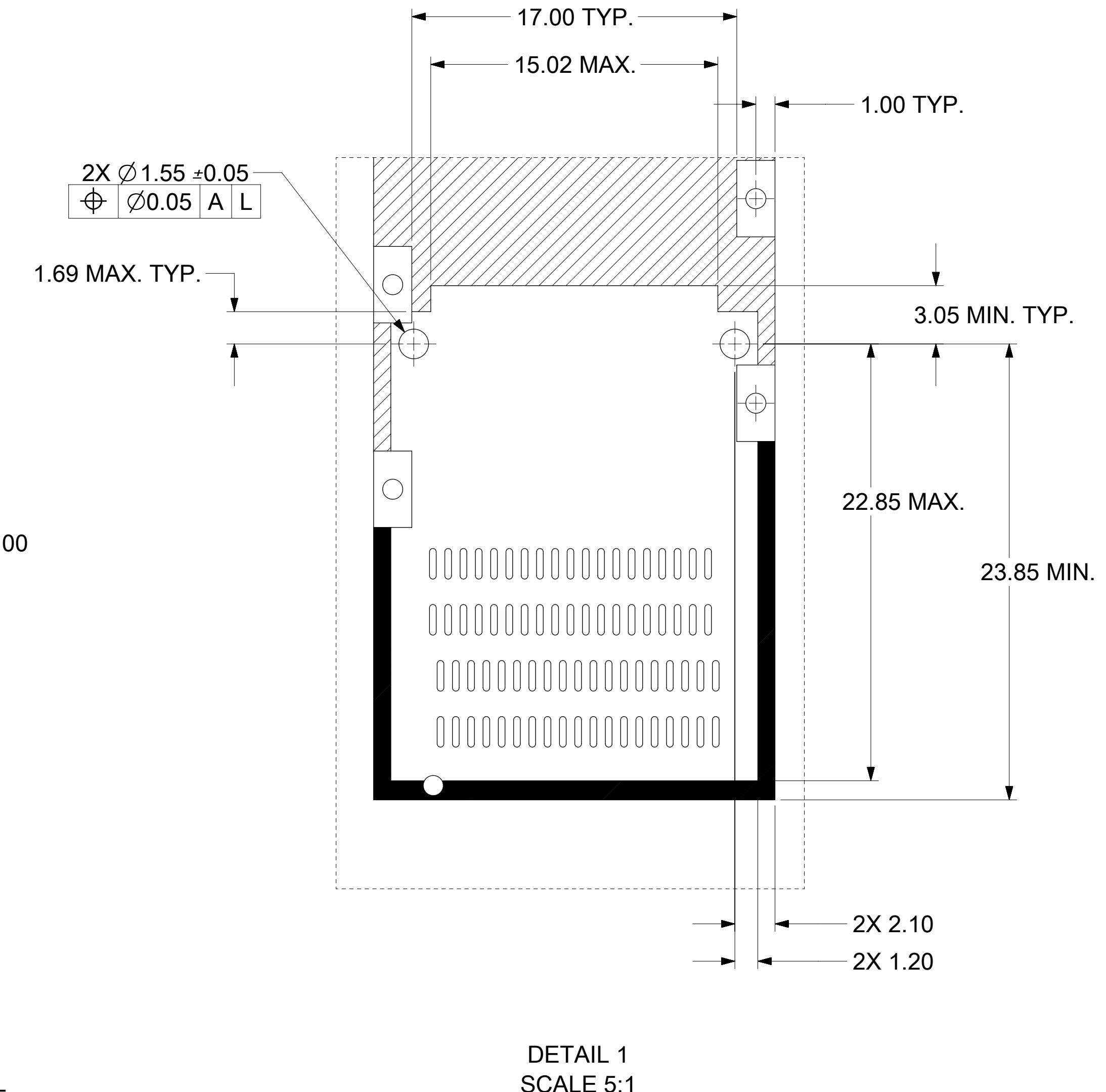
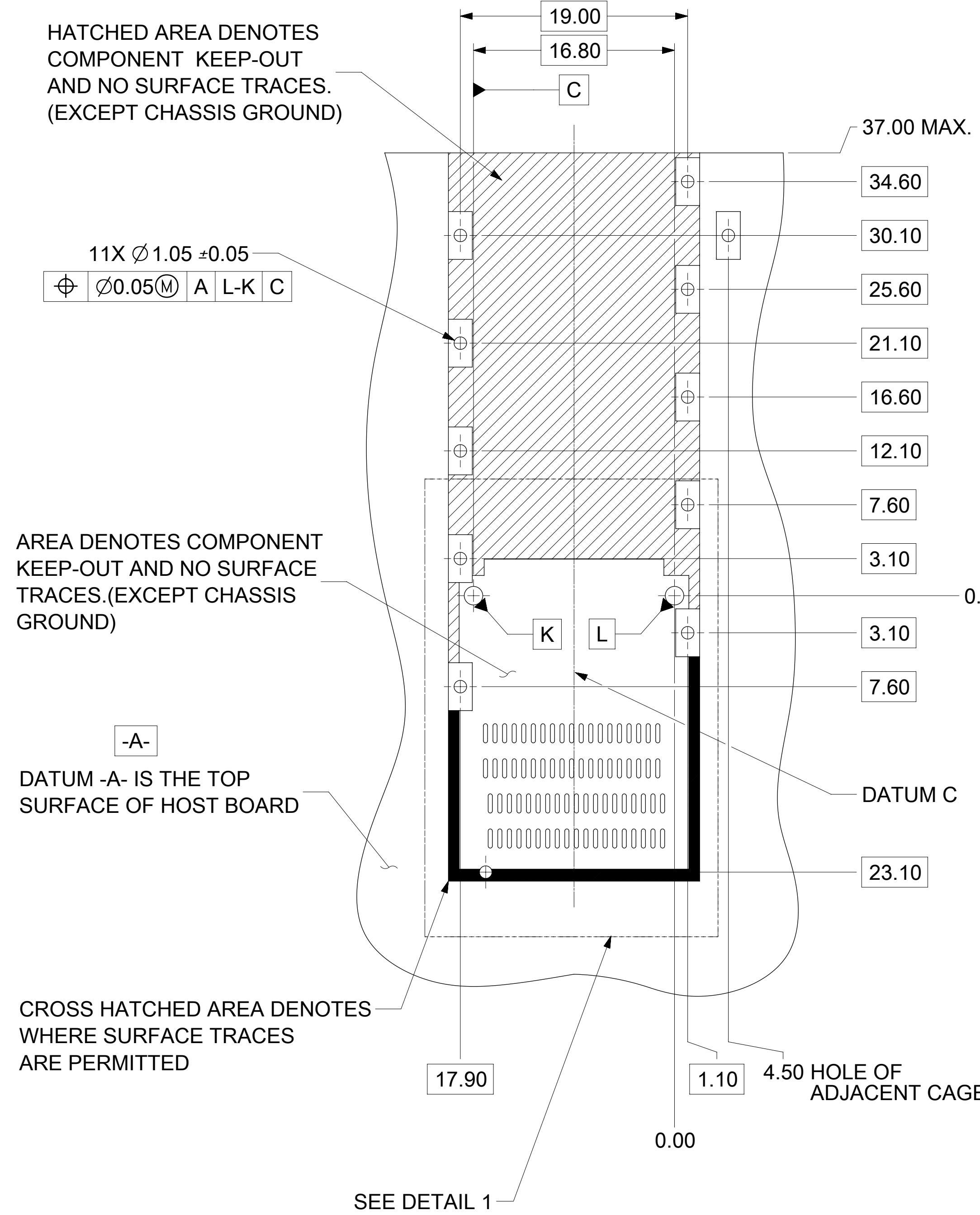
MOLEX P/N	# OF REAR LEGS PER PORT
2031431243	0
2031431244	1

MOLEX P/N	# OF REAR LEGS PER PORT
2031431254	0
2031431255	1
2031431256	2

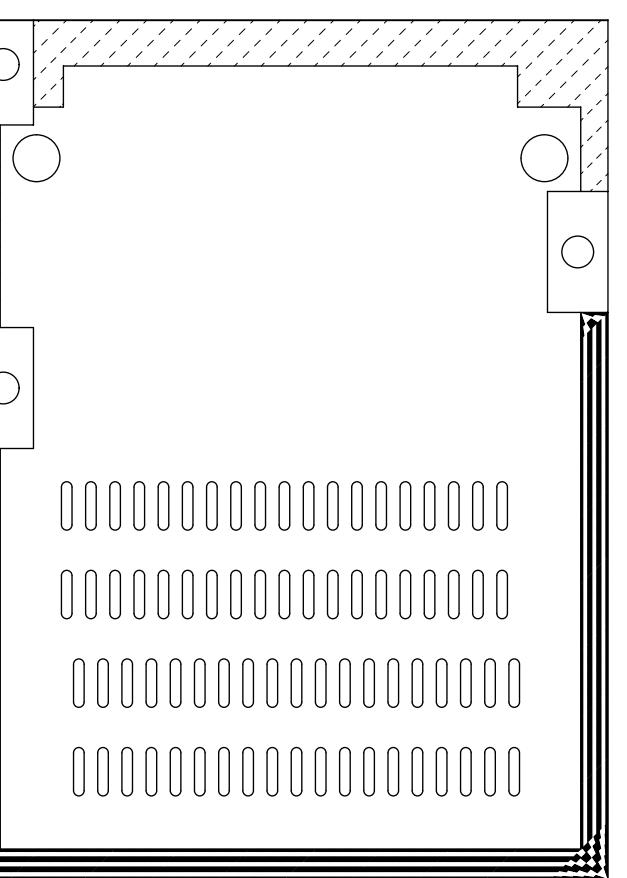
MOLEX P/N	HEAT SINK	# OF REAR LEGS PER PORT
2031431349	PCI	0
2031431350	SAN	0
2031431351	NET	0
2031431352	PCI	1
2031431353	SAN	1
2031431354	NET	1
2031431355	PCI	2
2031431356	SAN	2
2031431357	NET	2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE P/N TABLE
mm	3:1	molex
GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL $\pm 2.0^\circ$		
4 PLACES	\pm	EC NO: 173798
3 PLACES	\pm	DRWN: PGSHETTY 2018/02/01
2 PLACES	± 0.13	CHK'D: LLU20 2018/03/22
1 PLACE	± 0.25	APPR: RCHE08 2018/03/23
0 PLACES	\pm	INITIAL REVISION:
DRAFT WHERE APPLICABLE		
MUST REMAIN WITHIN DIMENSIONS		
DOCUMENT NUMBER	DOC TYPE	DOC PART
2031431201	PSD	ASY
REVISION		C
SEE P/N TABLE	GENERAL MARKET	3 OF 7
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
DRAWING	SERIES	
THIRD ANGLE PROJECTION		
D-SIZE	203143	

PCB LAYOUT FOR SINGLE SIDED MOUNTING

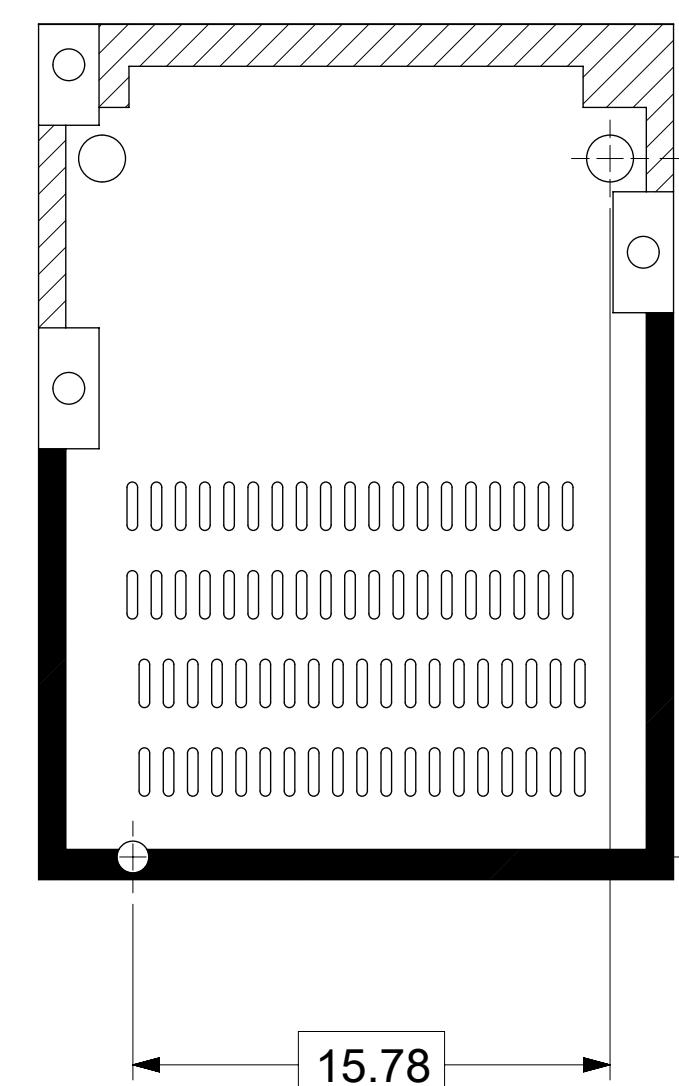


NO REAR LEGS



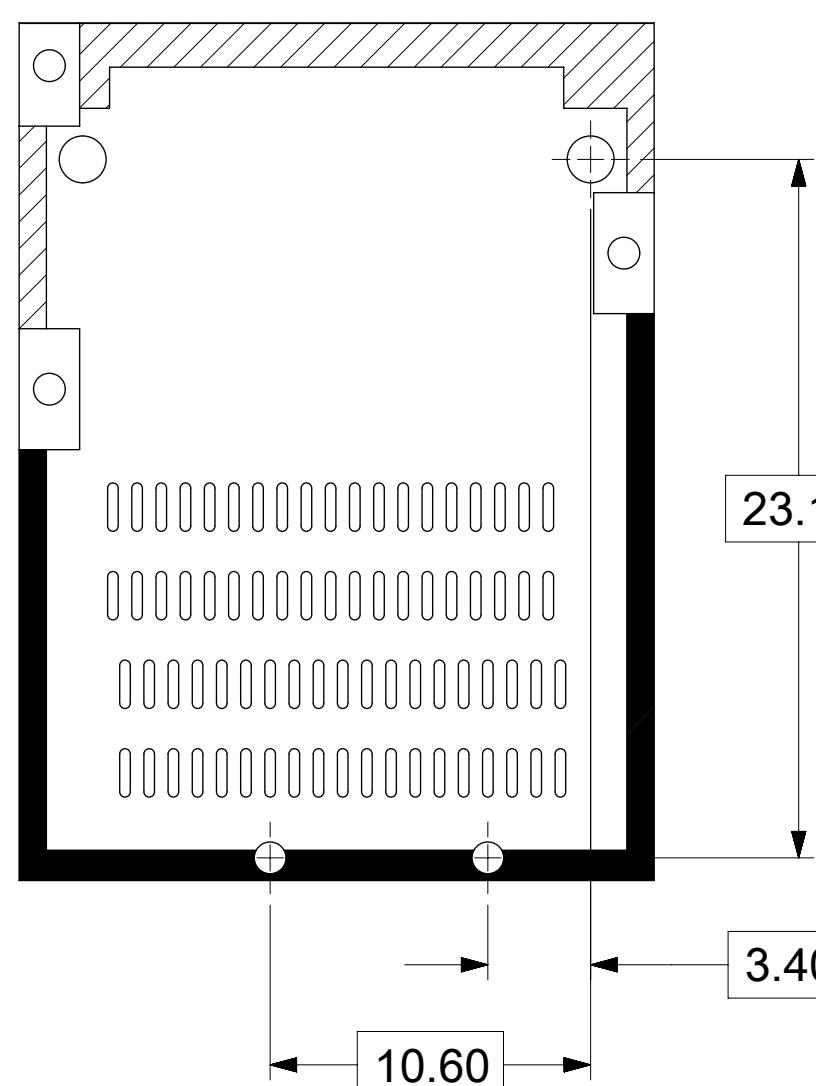
PARTIAL 1
SCALE 4:1

1 REAR LEG



PARTIAL 2
SCALE 4:1

2 REAR LEGS



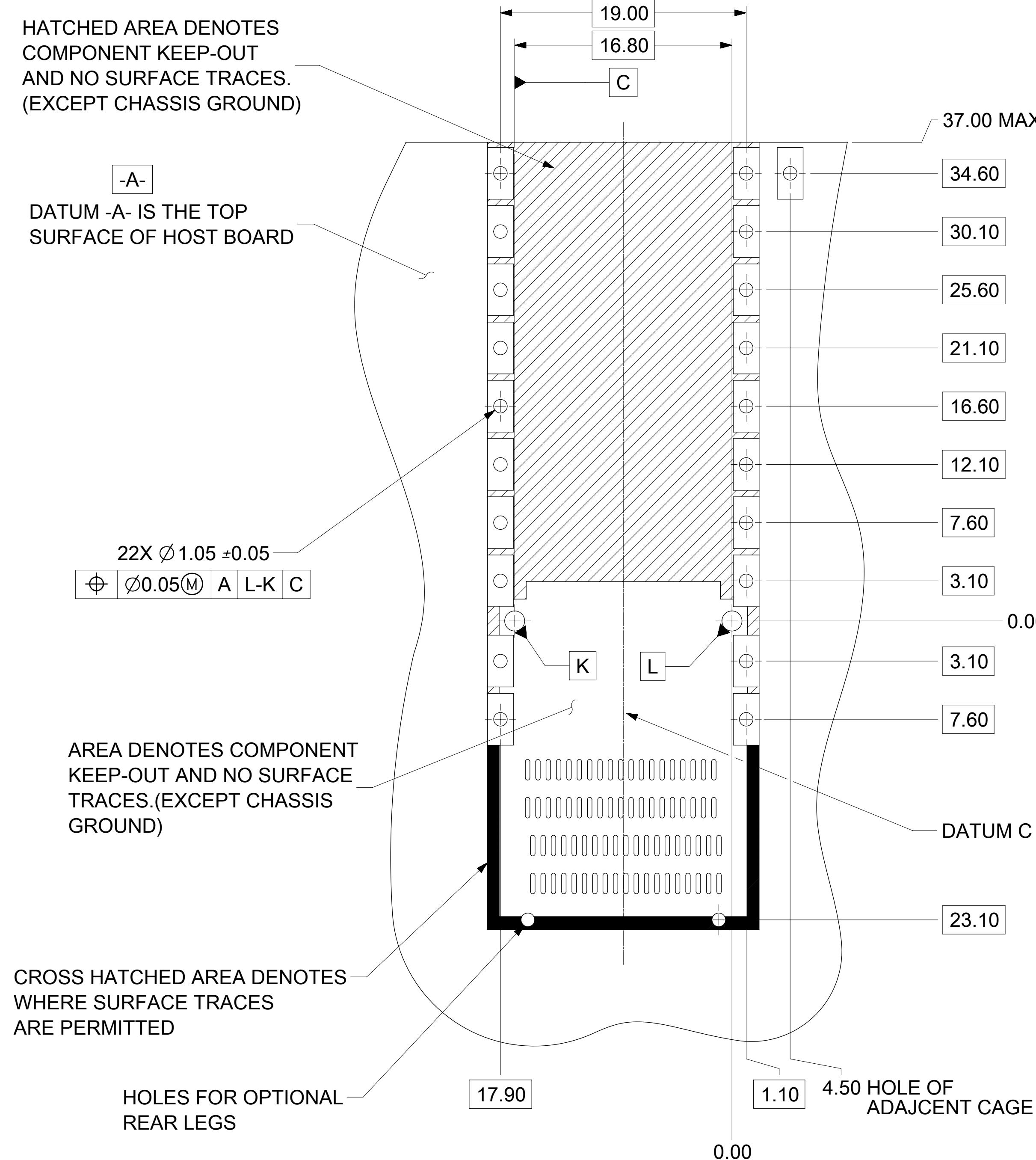
PARTIAL 3
SCALE 4:1

NOTES:

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00x4.00mm RECTANGLE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER QSFP-DD MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 202718.
4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

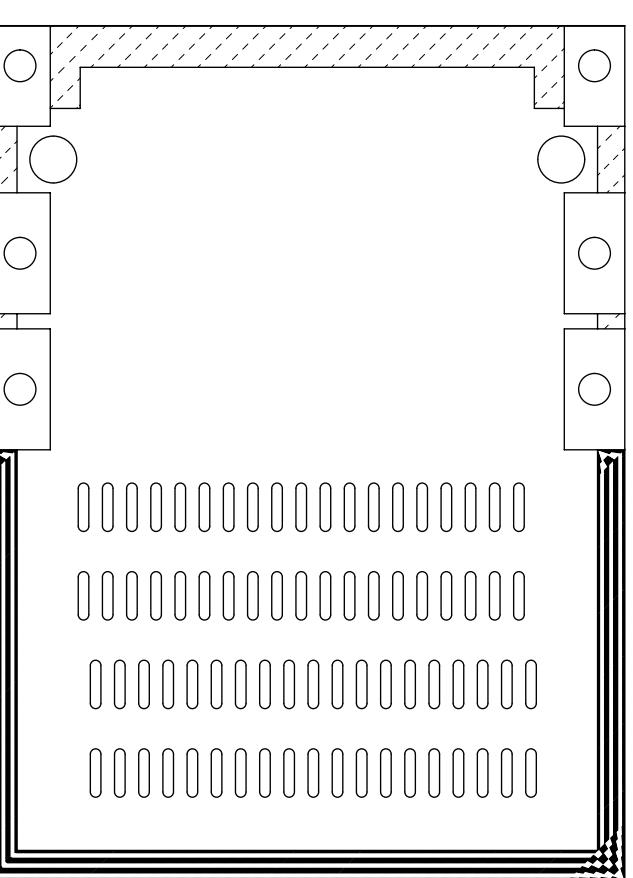
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE P/N TABLE		molex		
DIMENSION UNITS	mm 3.5:1	GENERAL TOLERANCES (UNLESS SPECIFIED)	ANGULAR TOL $\pm 2.0^\circ$	EC NO: 173798	DRWN: PGSHETTY	2018/02/01
4 PLACES	\pm	3 PLACES	\pm	CHK'D: LLU20	2018/03/22	
2 PLACES	± 0.13	1 PLACE	± 0.25	APPR: RCHE08	2018/03/23	
0 PLACES	\pm	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION:	DRWN: LLU20	2017/07/17
		APPR: RCHE08				2017/08/15
PRODUCT CUSTOMER DRAWING		DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION	
2031431201		PSD	ASY	C		
MATERIAL NUMBER	CUSTOMER	SEE P/N TABLE	GENERAL MARKET	4 OF 7	SHEET NUMBER	
D-SIZE	203143	4	3	2	1	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



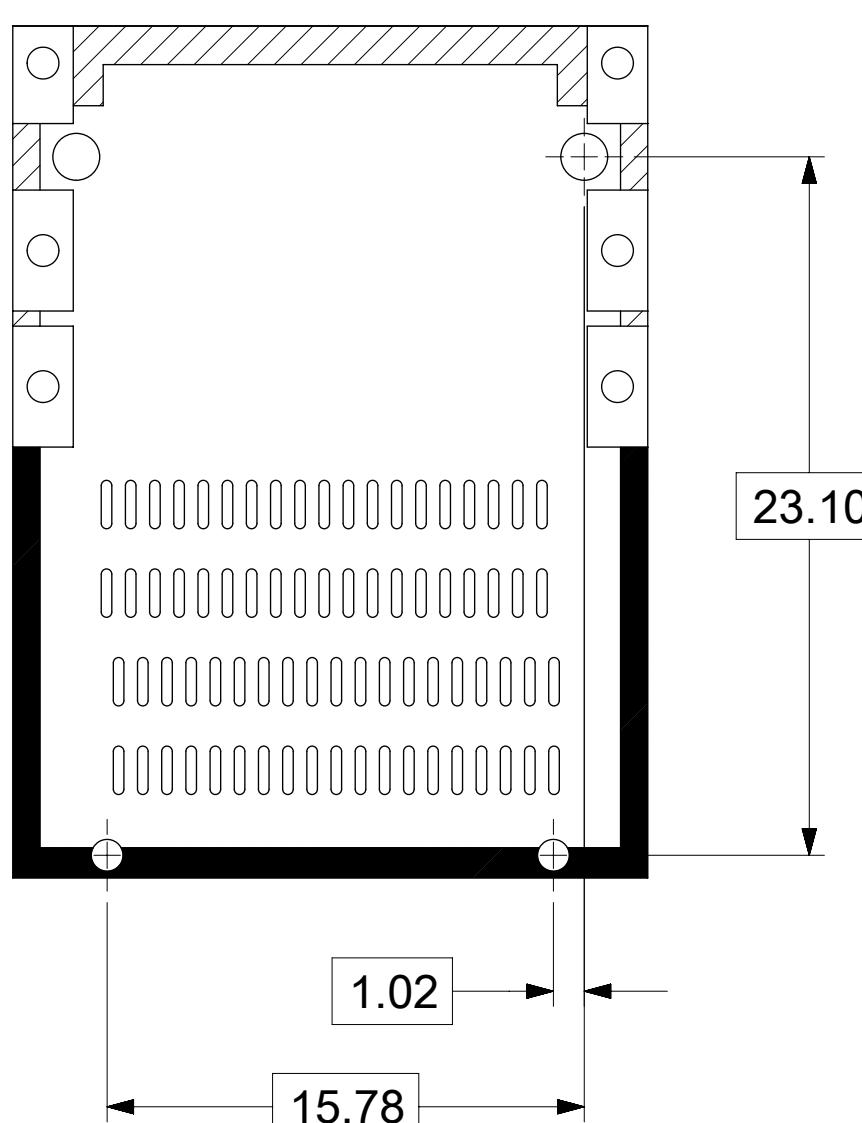
NOTE:
SEE SHEET 4 FOR
HOST CONNECTOR DETAIL
AND LED LOCATION DETAILS

NO REAR LEGS



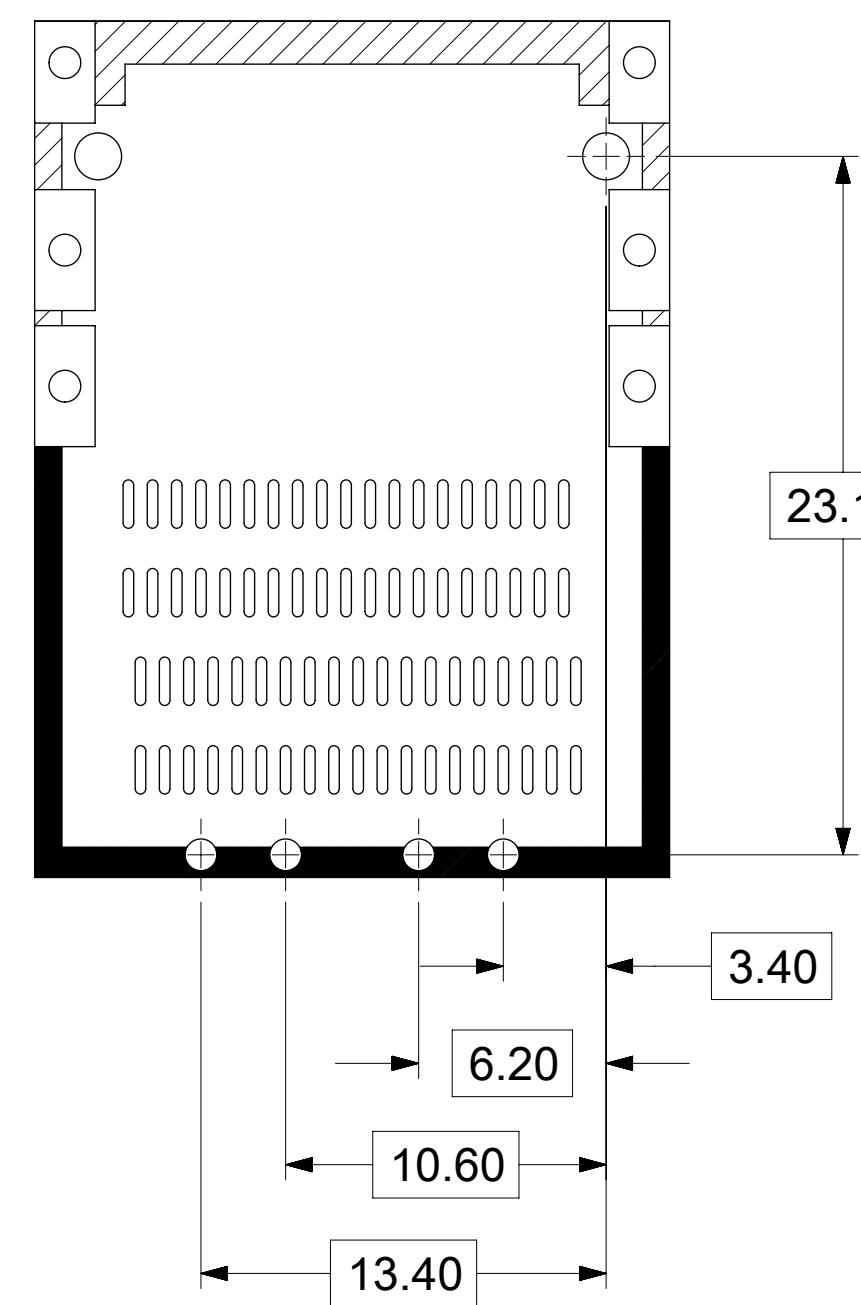
PARTIAL 1
SCALE 4:1

1 REAR LEG



PARTIAL 2
SCALE 4:1

2 REAR LEGS

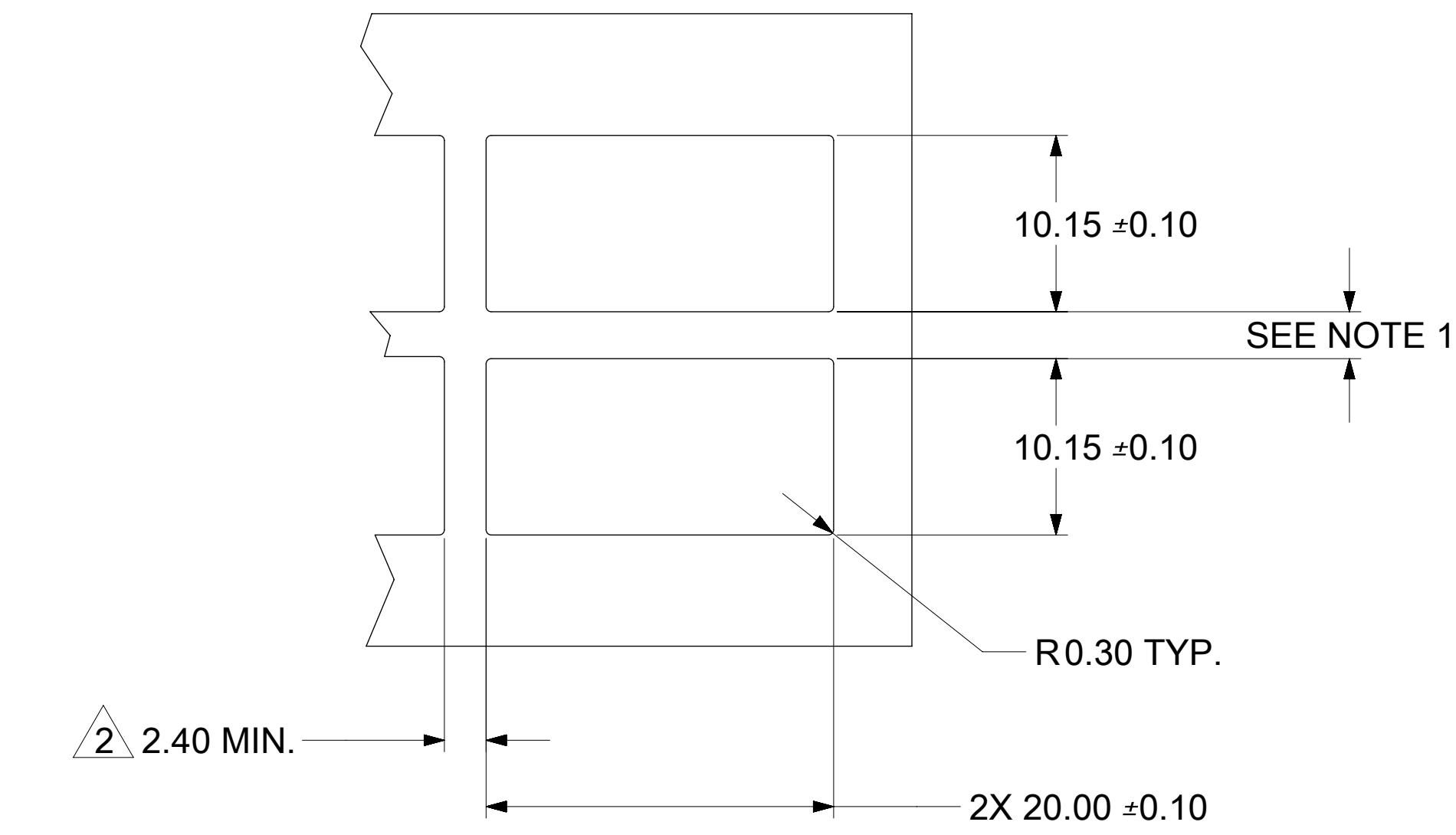
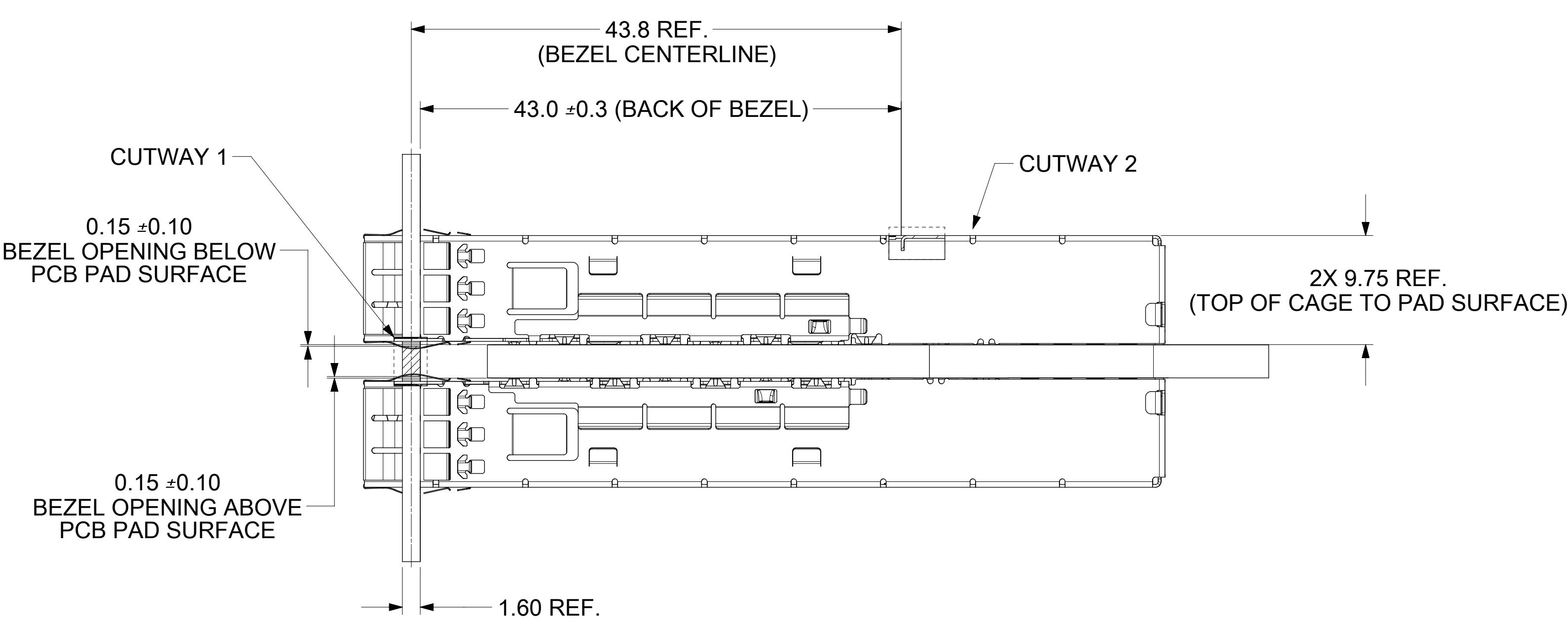


PARTIAL 3
SCALE 4:1

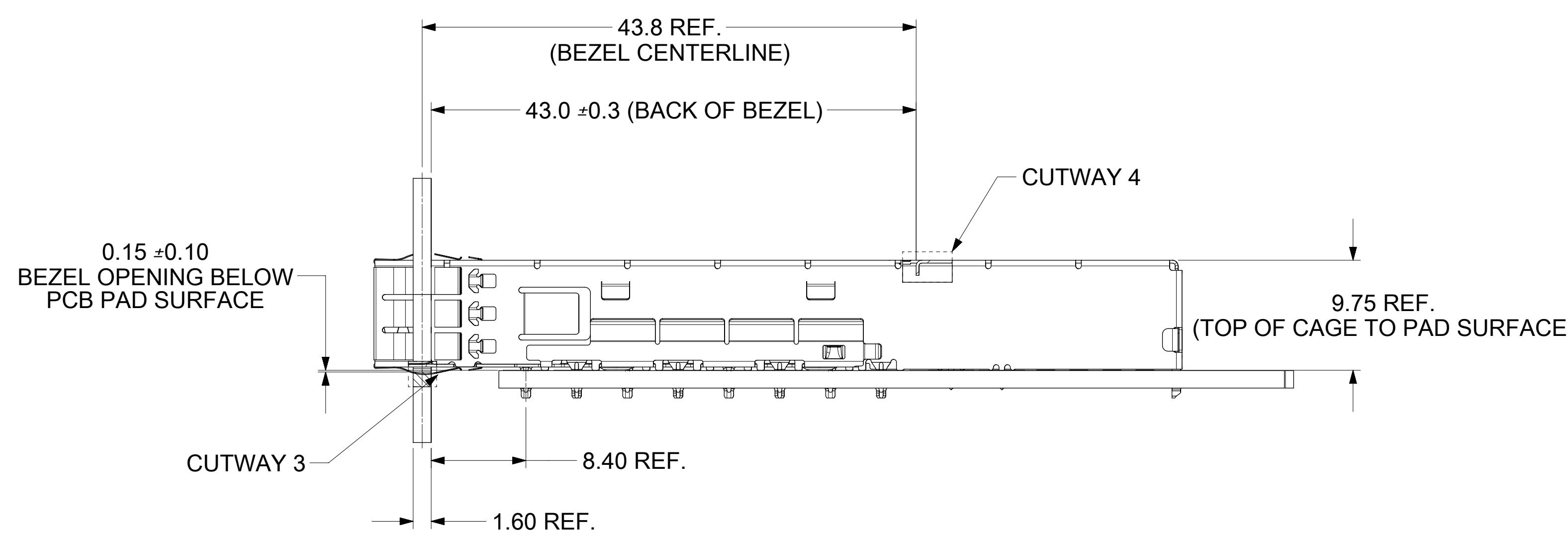
NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00x4.00mm RECTANGLE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER QSFP-DD WILL ACCOMMODATE MOLEX CONNECTOR SERIES 202718.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE P/N TABLE		molex		
DIMENSION UNITS	mm	SCALE	4:1	EC NO:	173798	
GENERAL TOLERANCES (UNLESS SPECIFIED)				DRWN:	PGSHETTY	2018/02/01
ANGULAR TOL	± 2.0°			CHK'D:	LLU20	2018/03/22
4 PLACES	±			APPR:	RCHEN08	2018/03/23
3 PLACES	±			INITIAL REVISION:		
2 PLACES	± 0.13			DRWN:	LLU20	2017/07/17
1 PLACE	± 0.25			APPR:	RCHEN08	2017/08/15
0 PLACES	±			PRODUCT CUSTOMER DRAWING		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DOCUMENT NUMBER	2031431201	DOC TYPE PSD
				DOC PART ASY	C	REVISION
				SEE P/N TABLE	GENERAL MARKET	5 OF 7
DOCUMENT STATUS		P1	RELEASE DATE	2018/03/23	10:54:21	

BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING



BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDE MOUNTING



NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
2. THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION.
(THIS DIMENSION VARIES BASED ON DISTANCE OF "HOLE OF ADJACENT CAGE" ON PCB LAYOUT.)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DIMENSION UNITS	SCALE
mm	3:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 2.0°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
EC NO: 173798	
DRWN: PGSHETTY	2018/02/01
CHK'D: LLU20	2018/03/22
APPR: RCHE08	2018/03/23
INITIAL REVISION:	
DRWN: LLU20	2017/07/17
APPR: RCHE08	2017/08/15
PRODUCT CUSTOMER DRAWING	
DOCUMENT NUMBER	DOC TYPE
2031431201	PSD
2031431201	ASY
2031431201	C
MATERIAL NUMBER	CUSTOMER
SEE P/N TABLE	GENERAL MARKET
4	6 OF 7

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DIMENSION UNITS SCALE CU

GENERAL TOLERANCES

**GENERAL TOLERANCES
(UNLESS SPECIFIED)**

ANGULAR TOL ± 2.0 ° EC NO: 173798
DWL: DSCULTRY

2 PLACES	± 0.13	APPROVED
		INITIAL REVISION:

1 PLACE \pm 0.25 DRWN: LLU20

0 PLACES ± APPR: RCHEN08

DRAFT WHERE APPLICABLE THIRD ANGLE PROJECTION

DO NOT REMOVE
WITHIN DIMENSIONS

molex

QSFP-DD 1X1 CAGE ASSY SF WITH FIN H/S OPTIONS

5.1.1.1.1.3. Options

PRODUCT CUSTOMER DRAWING

1431201 PSD A

GENERAL MARKET

A DOCUMENT STATUS P1 RELEASE DATE 2018/03/23 10:54