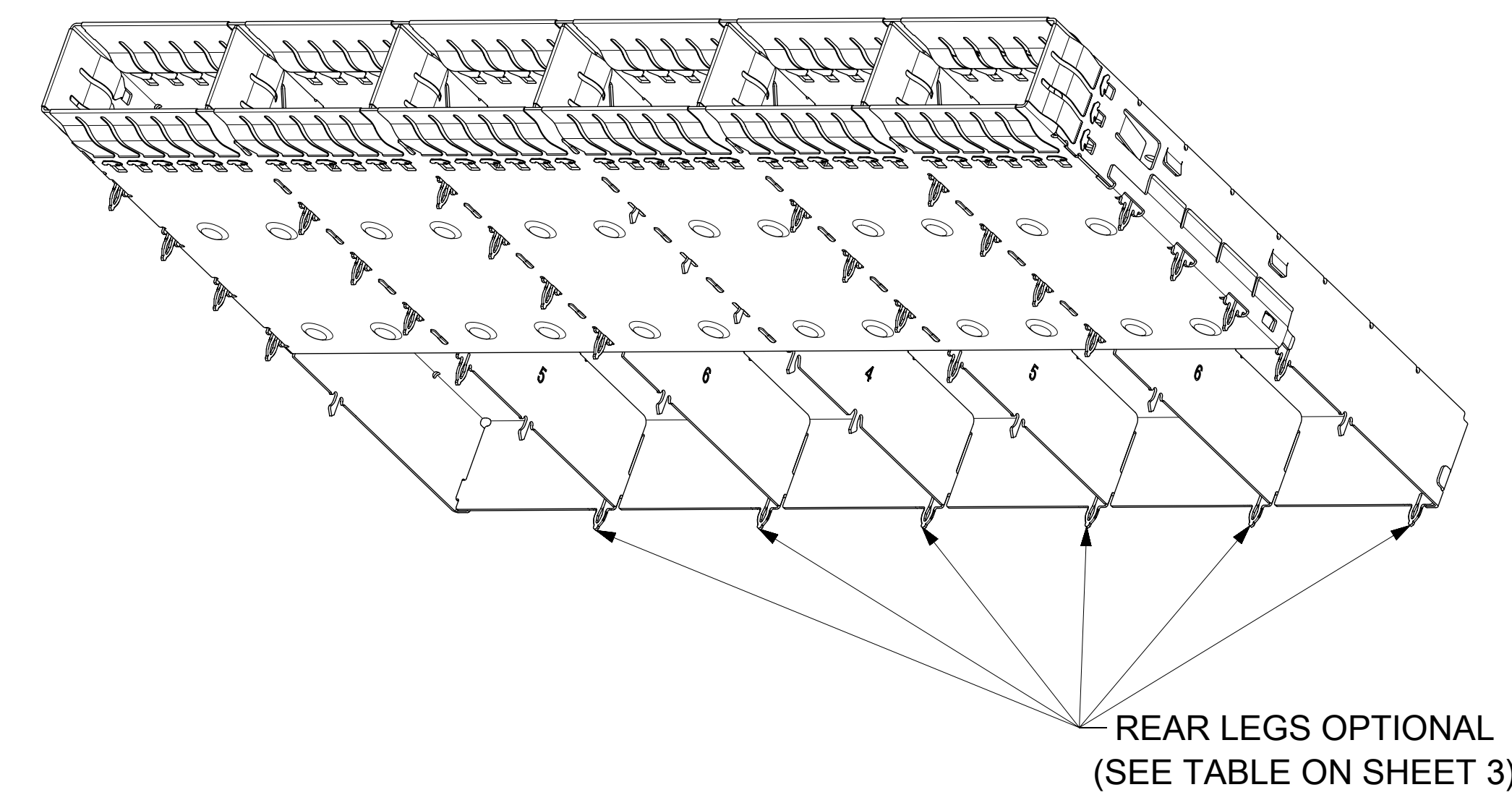
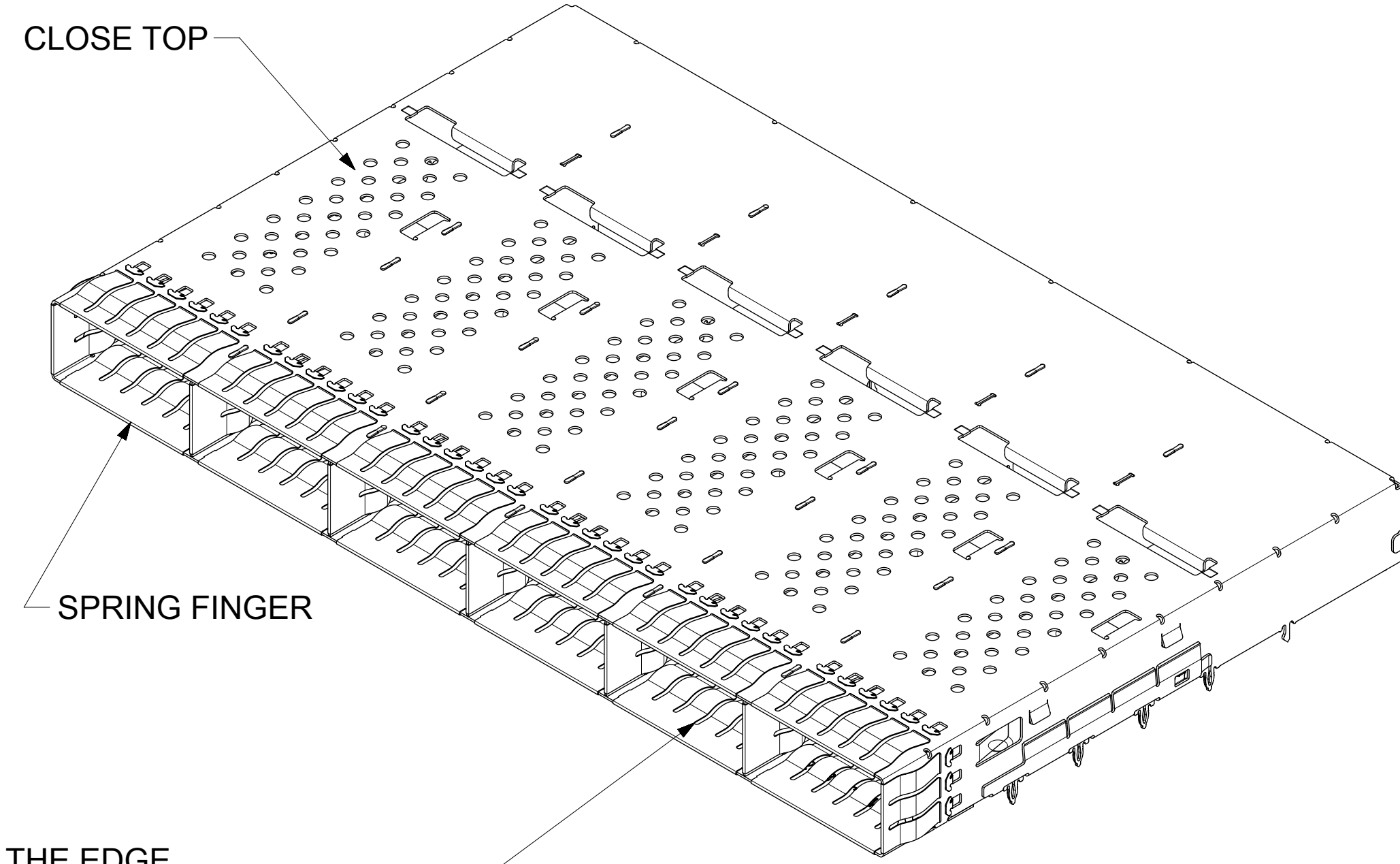
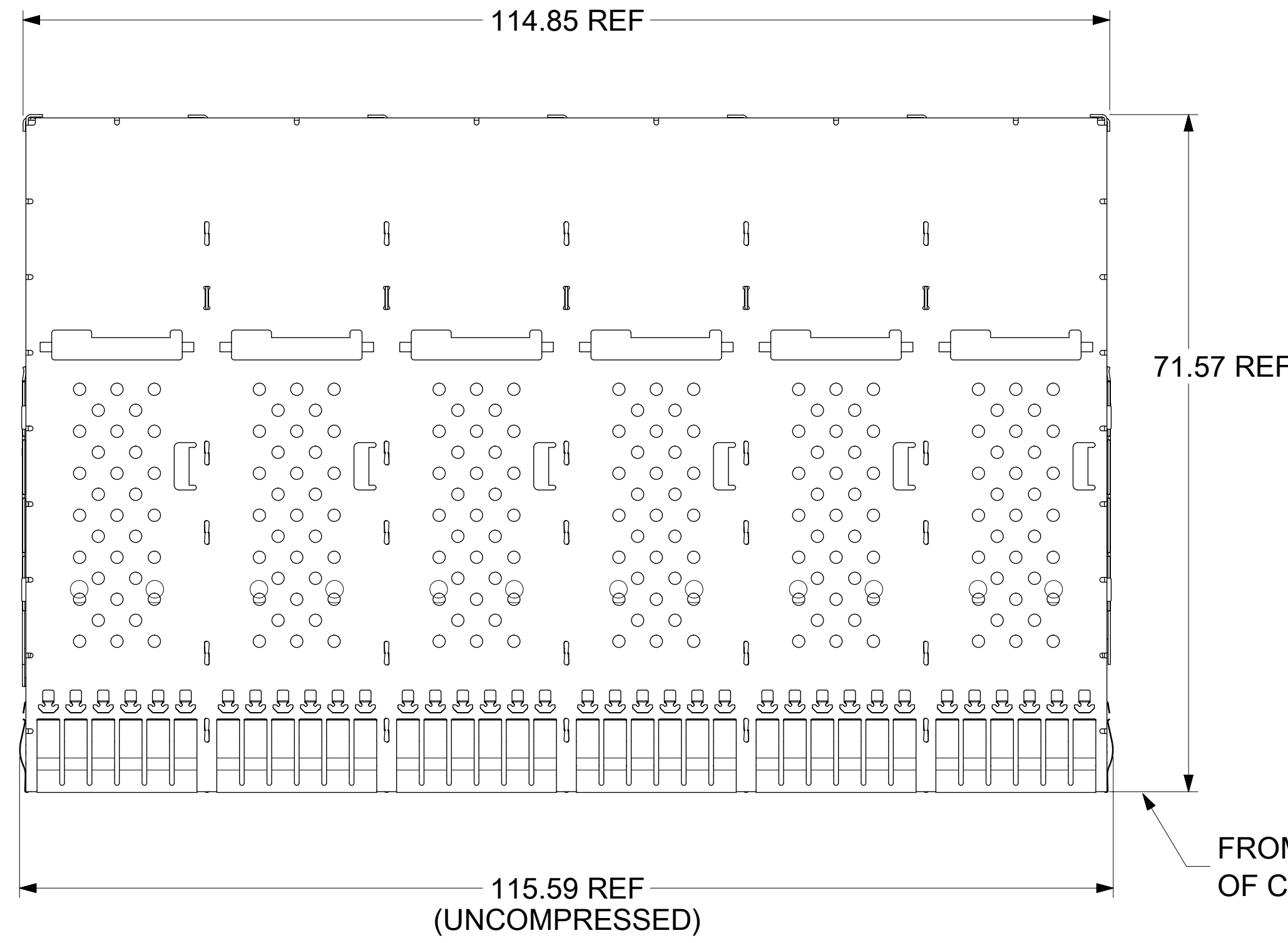
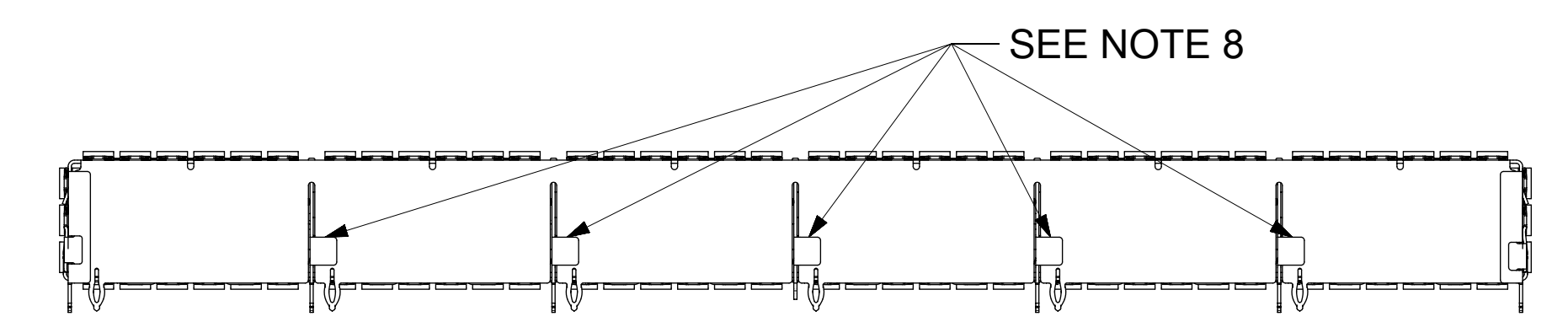
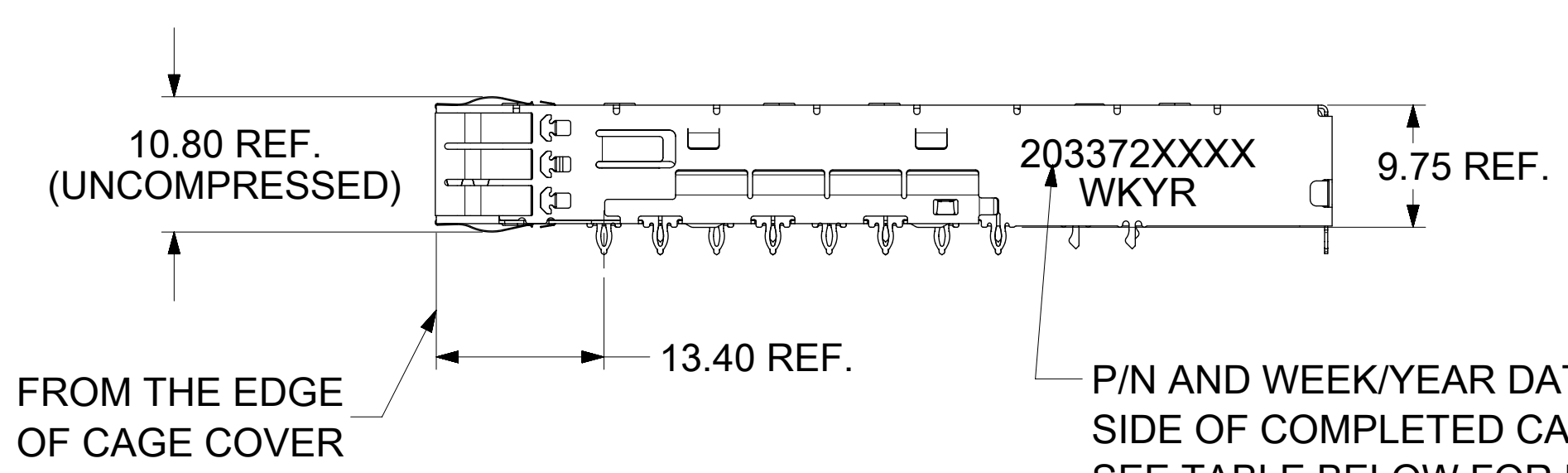
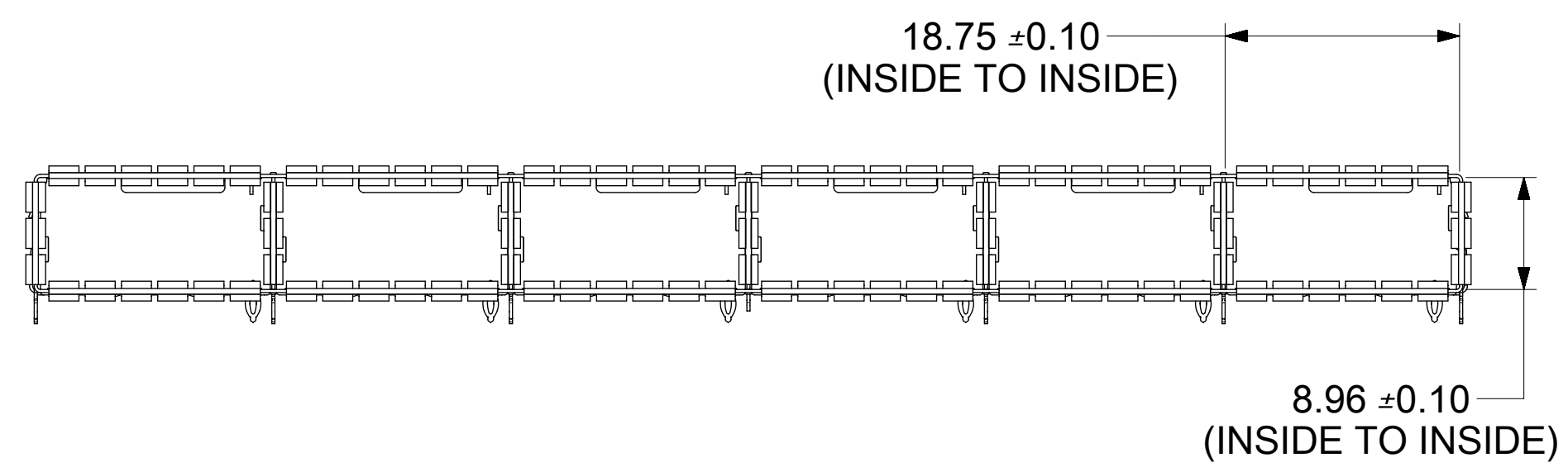


BASE CAGE DETAILS

2033721244 SHOWN



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



P/N AND WEEK/YEAR DATE CODE TO BE PRINTED ON SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

- NOTES:**
- MATERIAL: CAGE: STAINLESS STEEL
CENTER WALLS: STAINLESS STEEL
SPRING FINGERS: STAINLESS STEEL
HEAT SINK: ALUMINUM(BLACK ANODIZATION)
HEAT SINK CLIP: STAINLESS STEEL
 - DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
 - DURING FINAL INSPECTION, CAGE LEG LOCATIONS AND STRAIGHTNESS MUST BE CHECKED USING APPROPRIATE GO - NO GO GAGE
 - DURING FINAL INSPECTION, CAGE MUST BE INSPECTED TO MAKE SURE LEG CONFIGURATIONS AND PART NUMBERS ARE CORRECT, REFER TO SHEETS 3.
 - PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
 - PRESS-FIT LEGS 2.20mm LONG -
1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.
2.70mm MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
 - NO RoHS EXEMPTIONS.
 - WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION.

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)

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 REVISION TABLE	
mm	2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 629406	
ANGULAR TOL	± 2.0°	DRWN: JYEN01	2019/12/13
4 PLACES	±	CHK'D: SCHIEN	2019/12/20
3 PLACES	±	APPR: JCHIANG	2019/12/20
2 PLACES	± 0.13	INITIAL REVISION:	
1 PLACE	± 0.25	DRWN: MKEMPEGOWDA	2017/07/20
0 PLACES	±	APPR: RCHEN08	2017/08/15
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING SERIES
		D-SIZE	203372
		MATERIAL NUMBER	CUSTOMER
		SEE P/N TABLE	GENERAL MARKET

QSFP-DD 1X6 GANGED CAGE ASSY
SPRING FINGER WITH FIN H/S

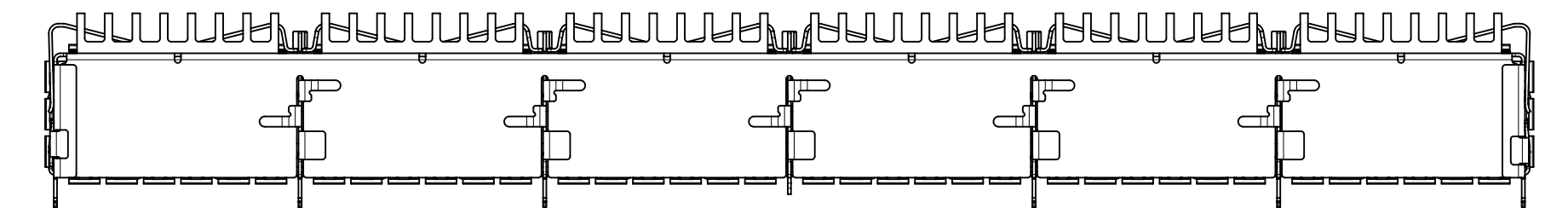
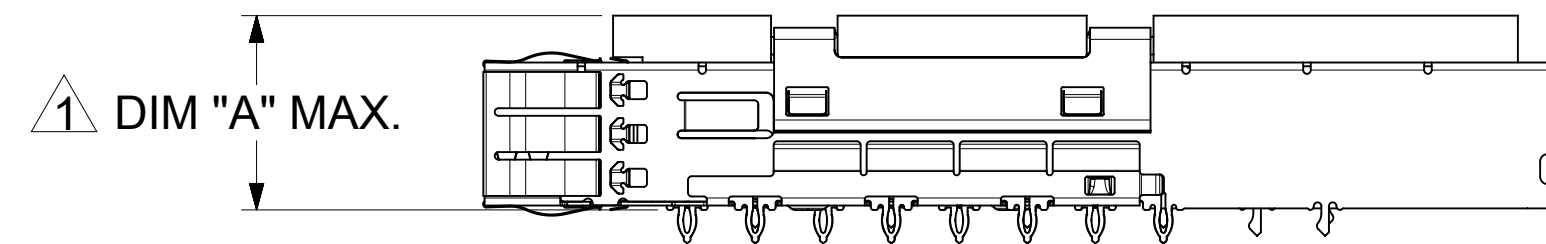
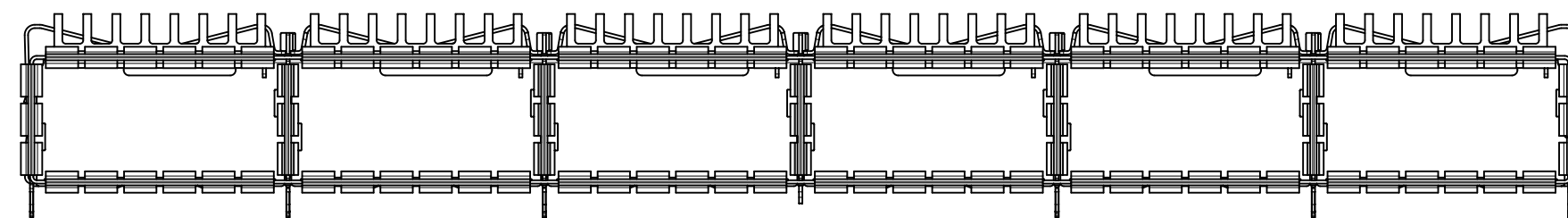
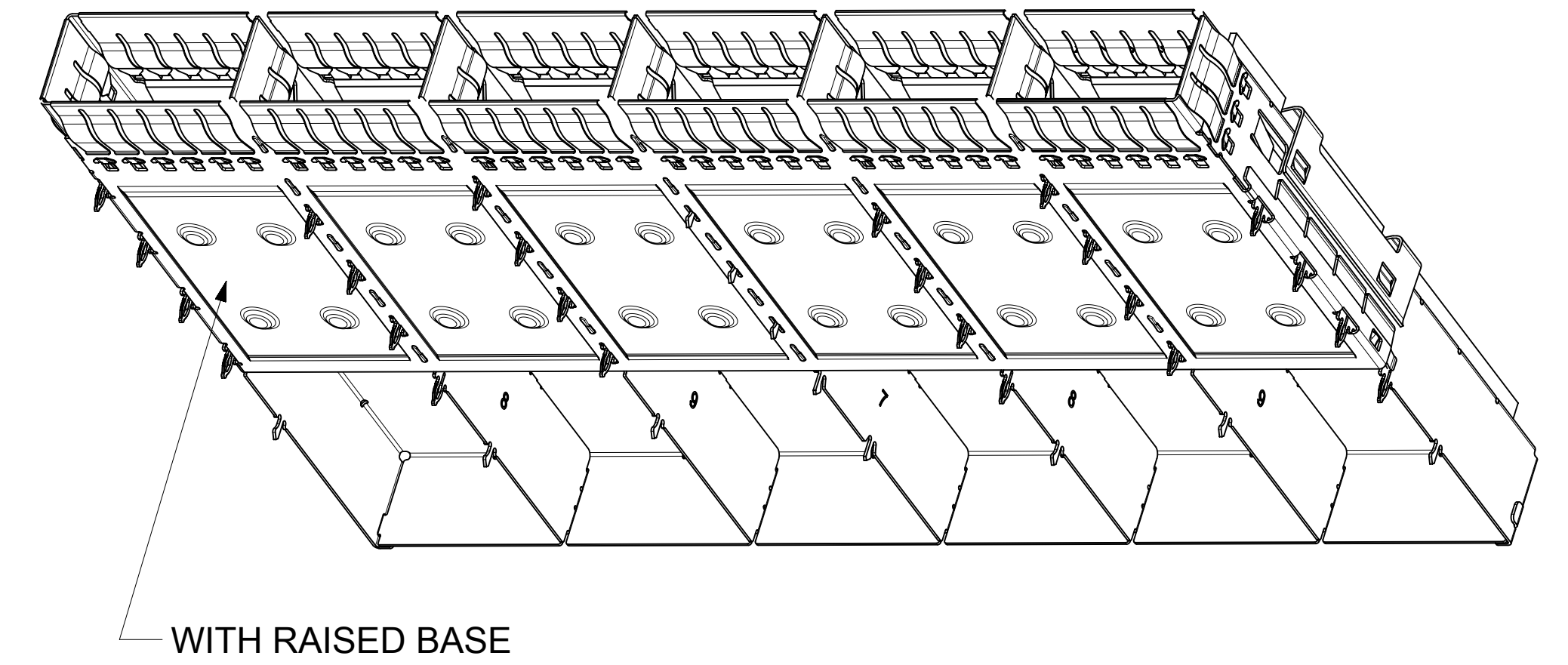
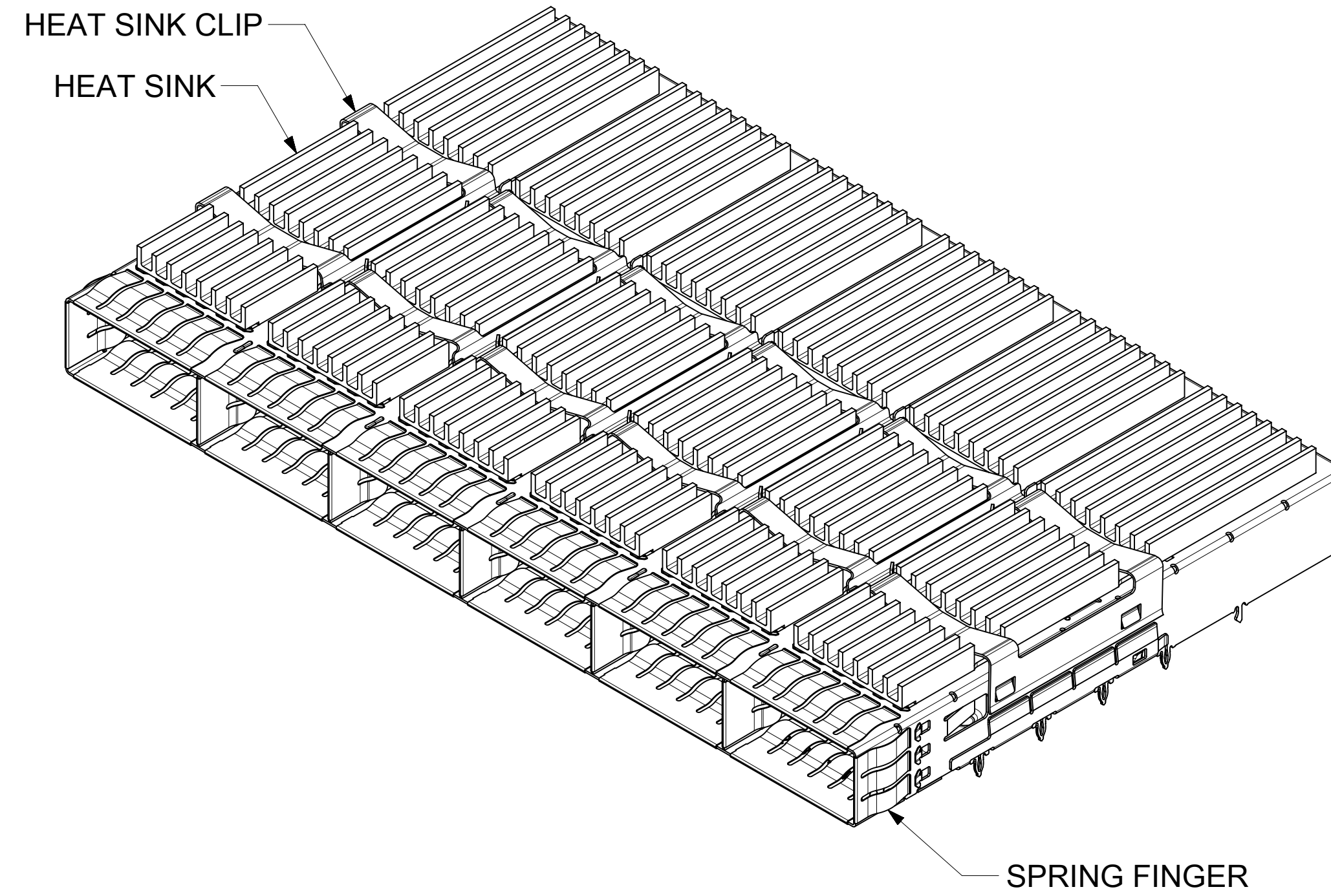
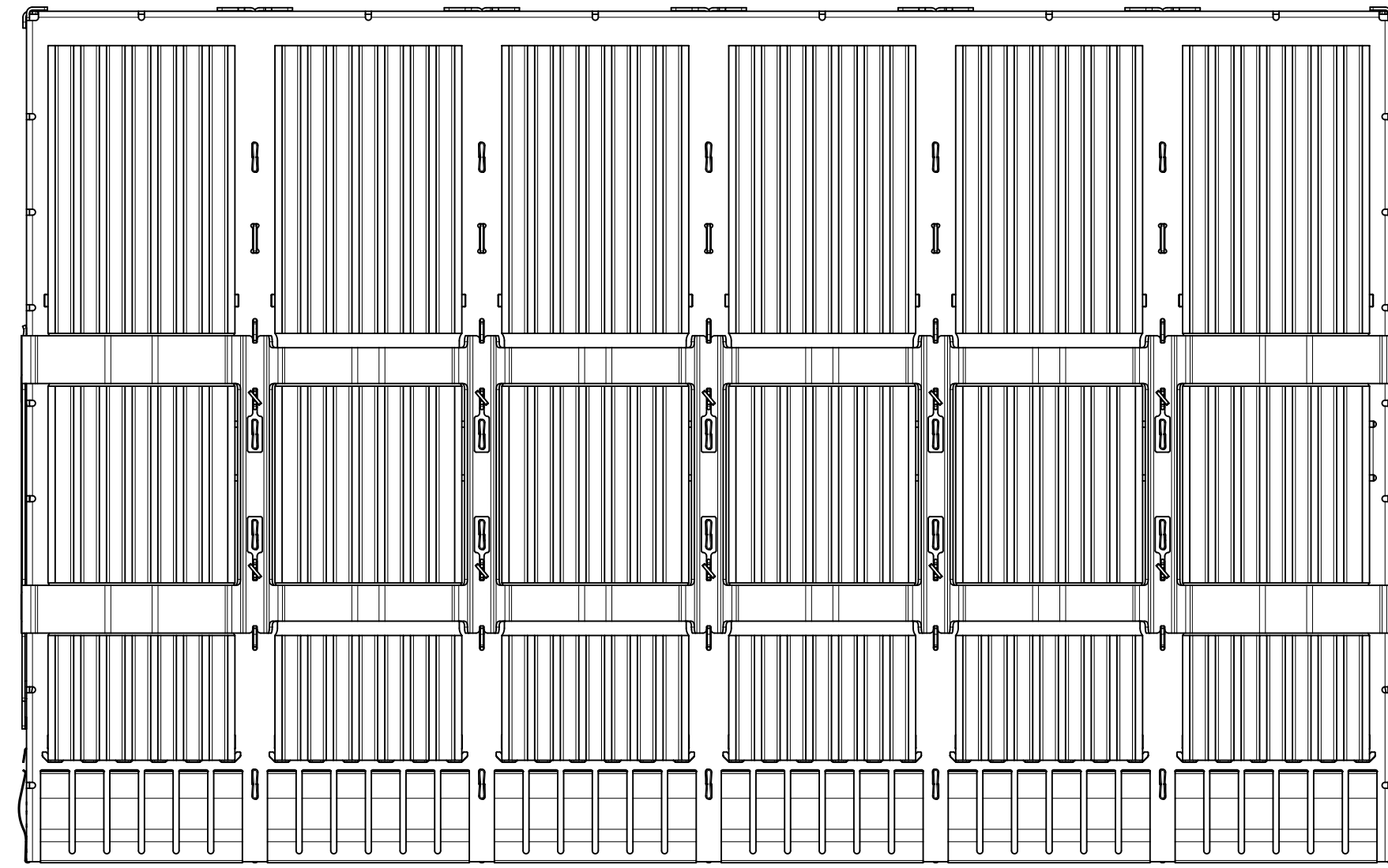
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033721201	PSD	ASY	D3

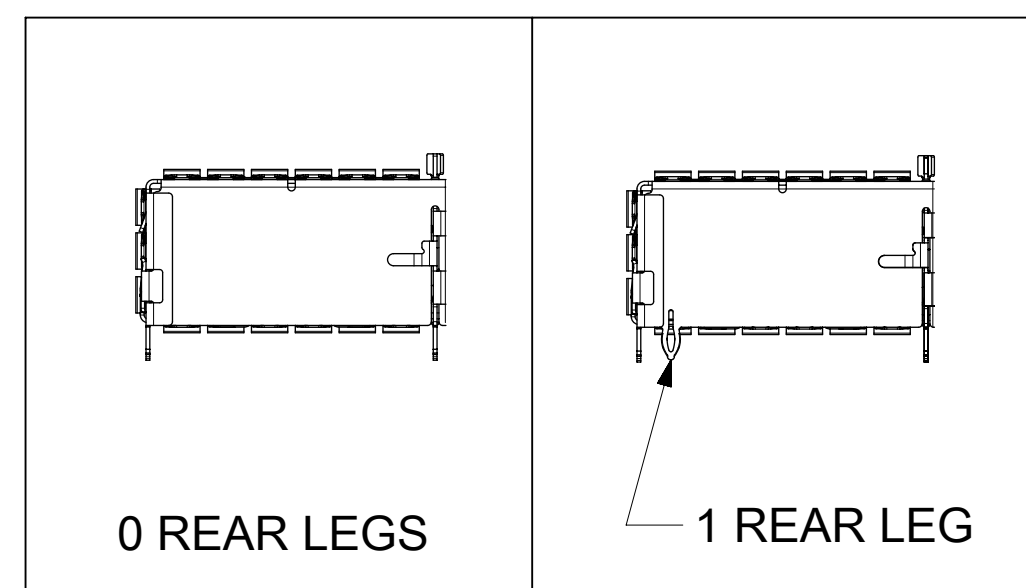
SHEET NUMBER: 1 OF 7

CAGE ASSEMBLY OPTIONS

2033722346 SHOWN



REAR LEG OPTIONS



HEAT SINK HEIGHT OPTIONS

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

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

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DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
mm	2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	$\pm 2.0^\circ$		
4 PLACES	\pm	EC NO: 629406	
3 PLACES	\pm	DRWN: JYEN01	2019/12/13
2 PLACES	± 0.13	CHK'D: SCHIEN	2019/12/20
1 PLACE	± 0.25	APPR: JCHIANG	2019/12/20
0 PLACES	\pm	INITIAL REVISION:	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: MKEMPEGOWDA	2017/07/20
THIRD ANGLE PROJECTION		APPR: RCHEN08	2017/08/15
DRAWING		SERIES	
D-SIZE		203372	
MATERIAL NUMBER		CUSTOMER	
SEE P/N TABLE		GENERAL MARKET	
DOCUMENT NUMBER		DOC TYPE	DOC PART
2033721201		PSD	ASY
REVISION		SHEET NUMBER	
D3		2 OF 7	

molex

QSPF-DD 1X6 GANGED CAGE ASSY
SPRING FINGER WITH FIN H/S

PRODUCT CUSTOMER DRAWING

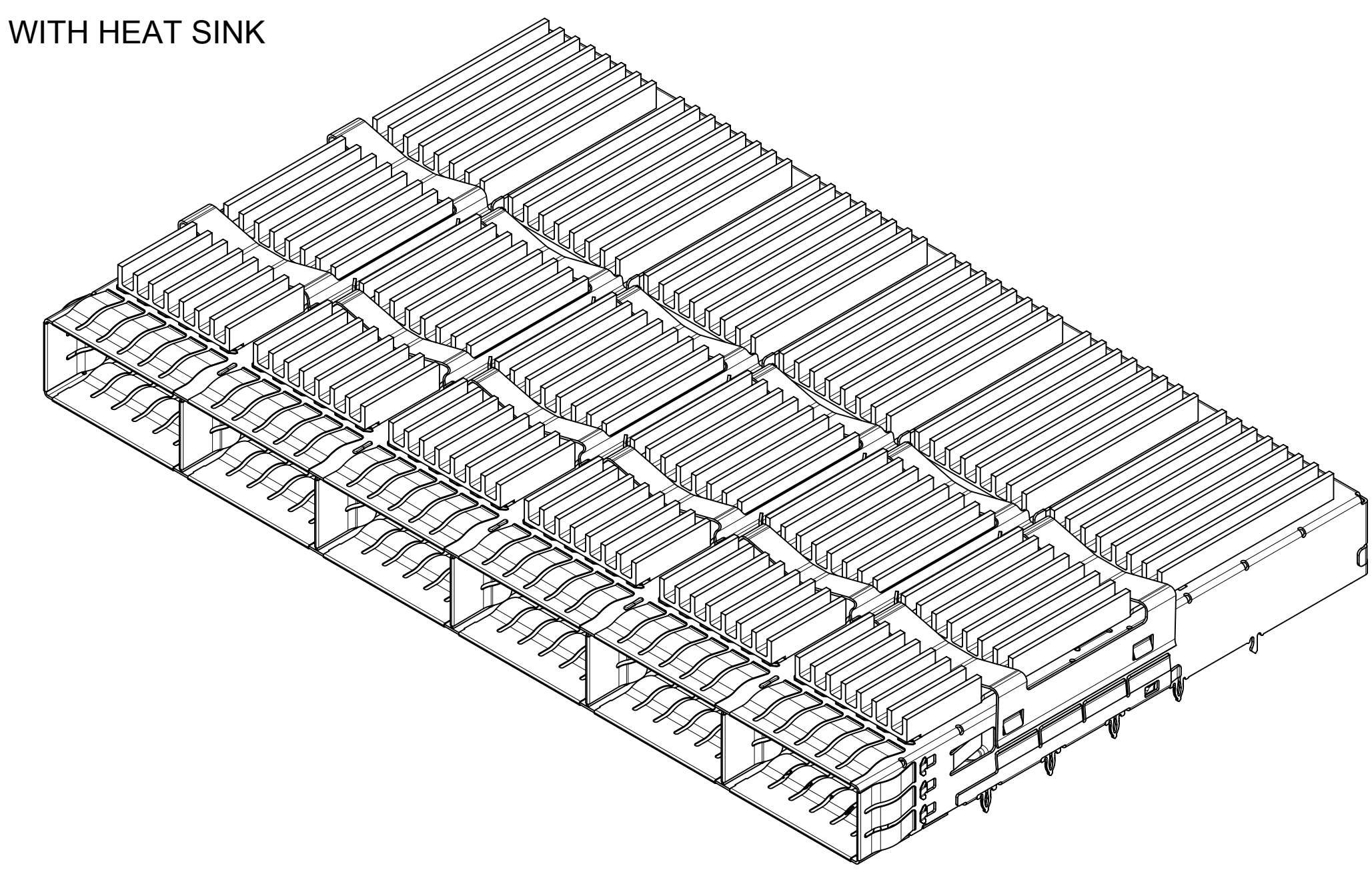
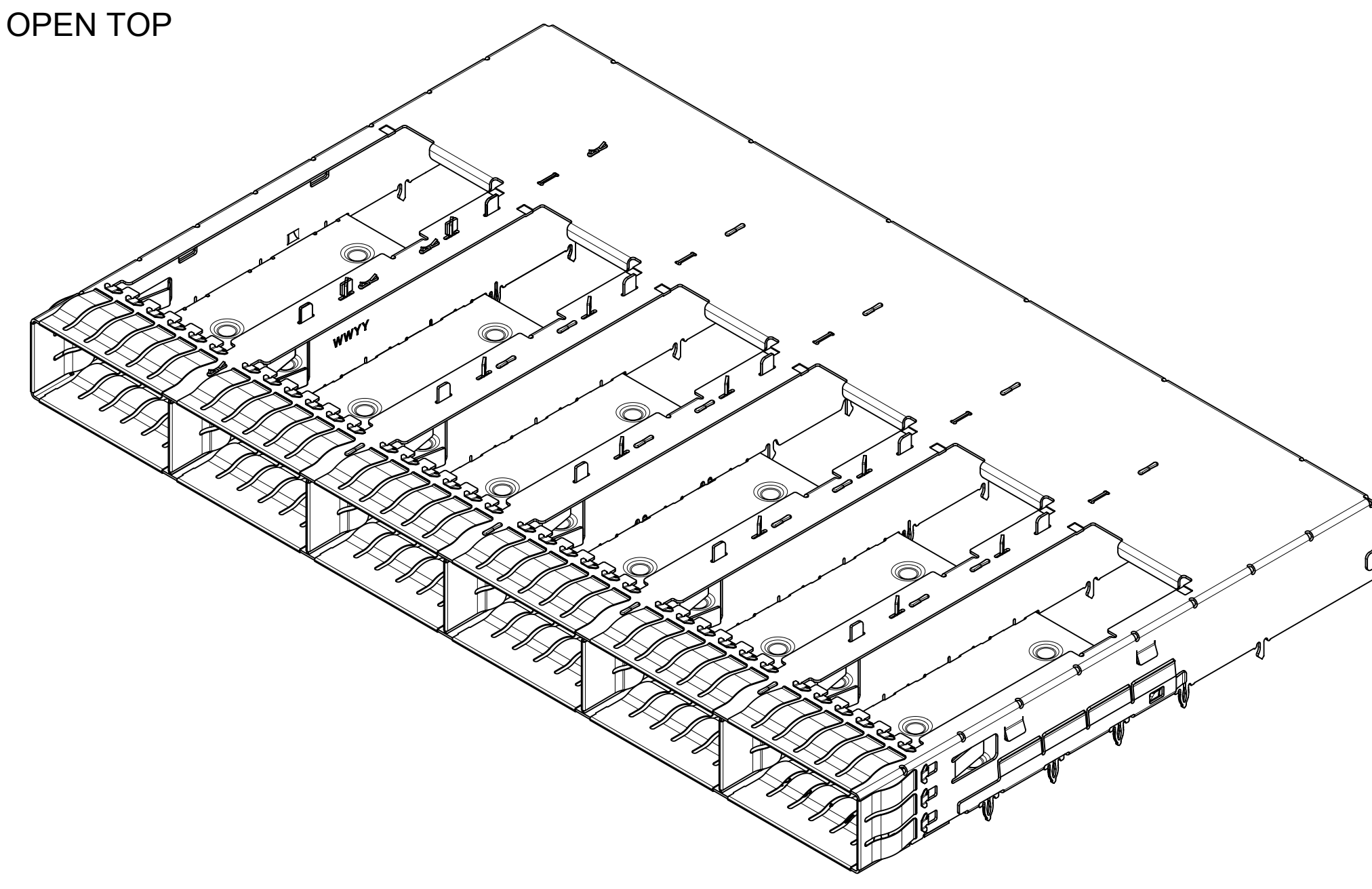
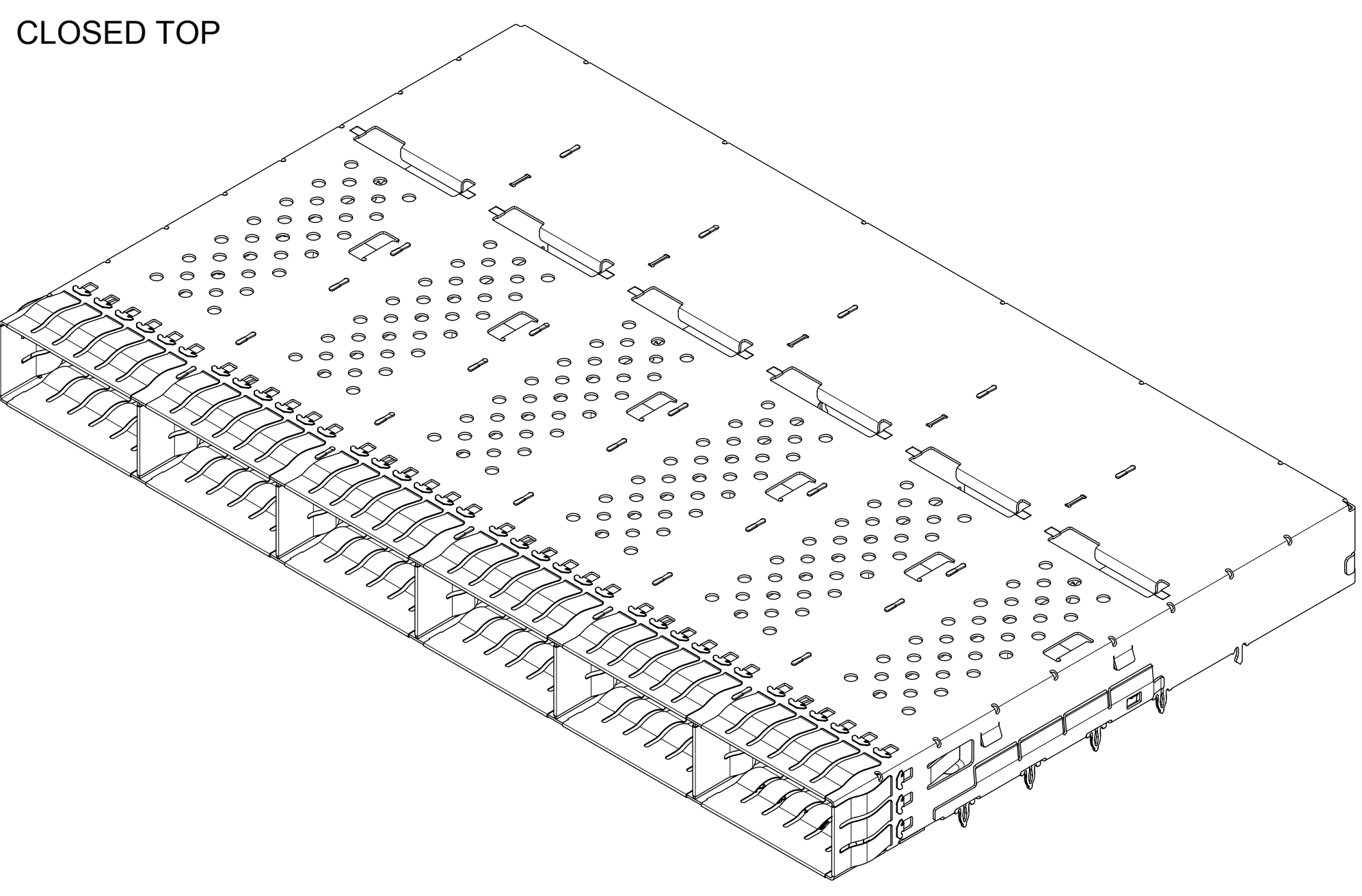
DOCUMENT NUMBER DOC TYPE DOC PART REVISION

2033721201 PSD ASY D3

MATERIAL NUMBER CUSTOMER SHEET NUMBER

SEE P/N TABLE GENERAL MARKET 2 OF 7

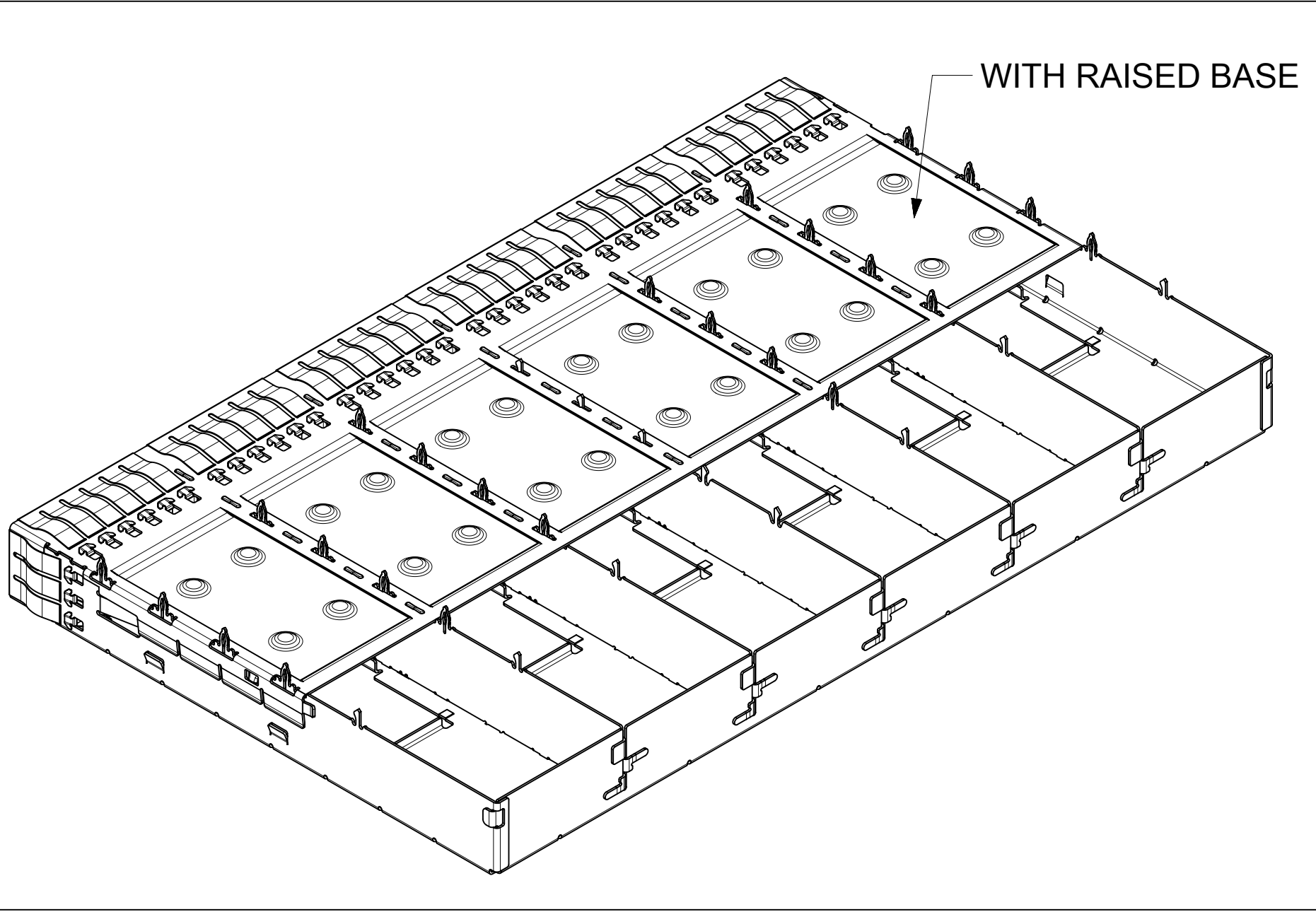
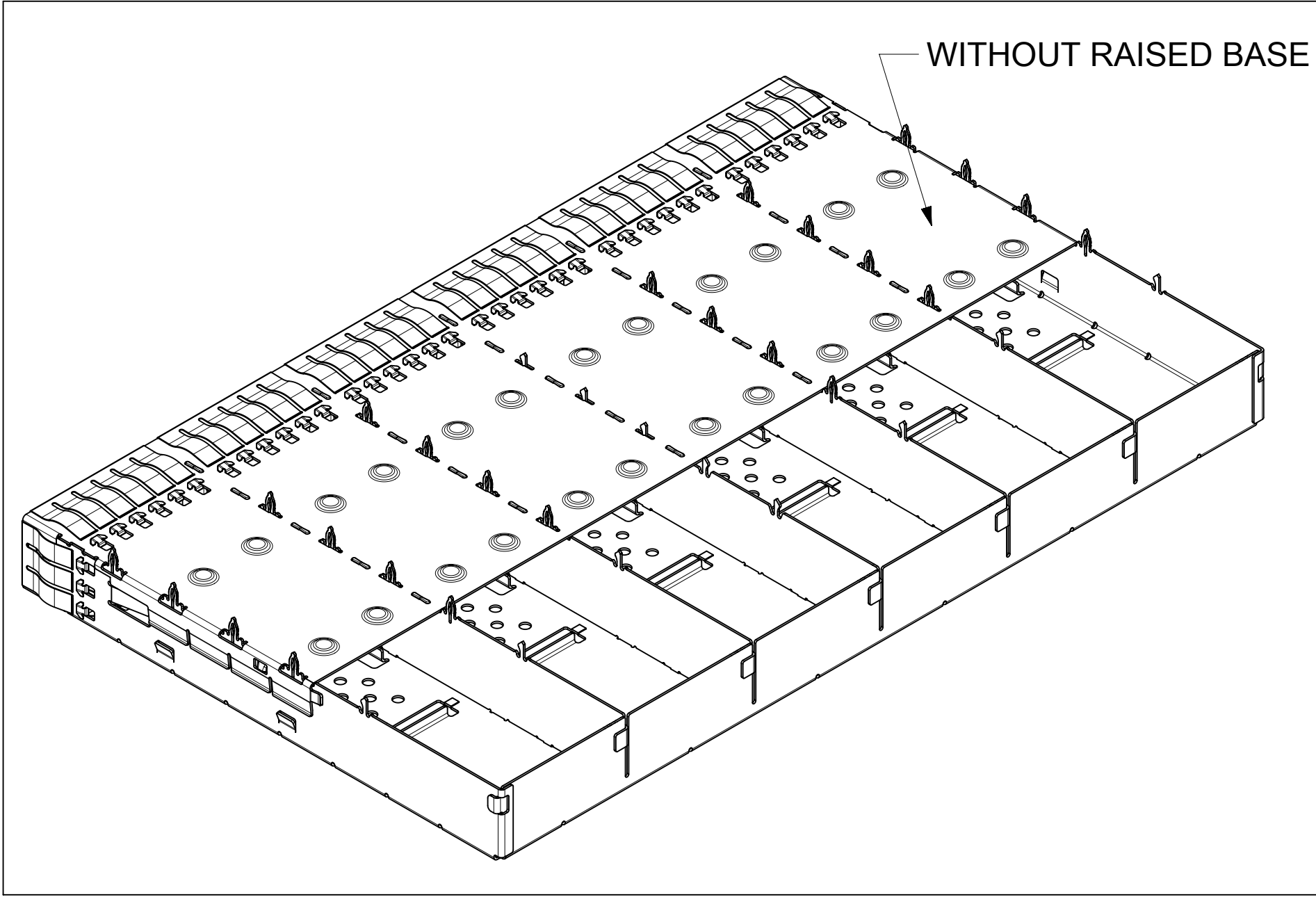
PART NUMBER SELECTION



MOLEX P/N	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033721243	0	NO
2033721244	1	NO

MOLEX P/N	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033721253	0	NO
2033721254	1	NO
2033722253	0	YES
2033722254	1	YES

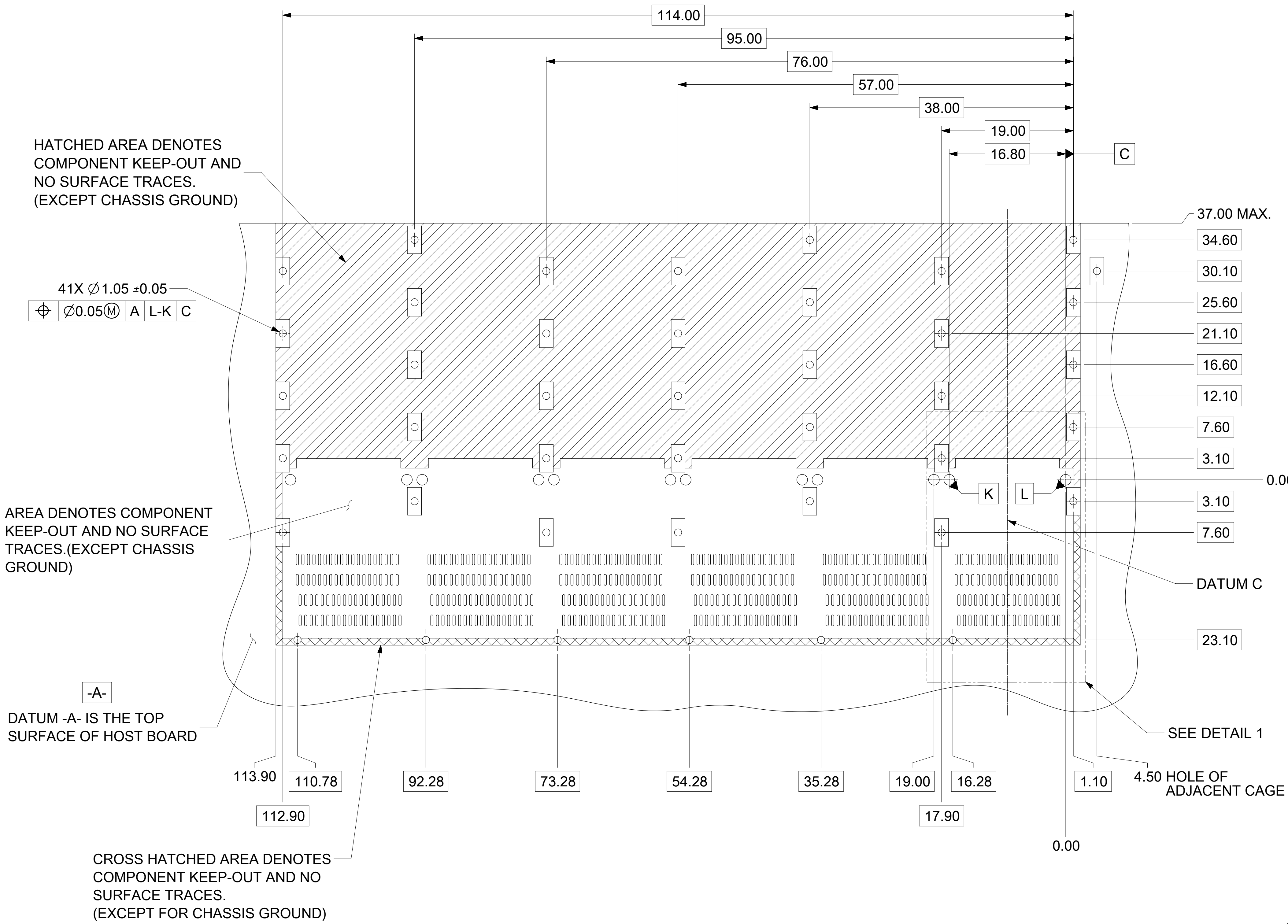
MOLEX P/N	HEAT SINK	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033721346	PCI	0	NO
2033721347	SAN	0	NO
2033721348	NET	0	NO
2033721349	PCI	1	NO
2033721350	SAN	1	NO
2033721351	NET	1	NO
2033722346	PCI	0	YES
2033722347	SAN	0	YES
2033722348	NET	0	YES
2033722349	PCI	1	YES
2033722350	SAN	1	YES
2033722351	NET	1	YES



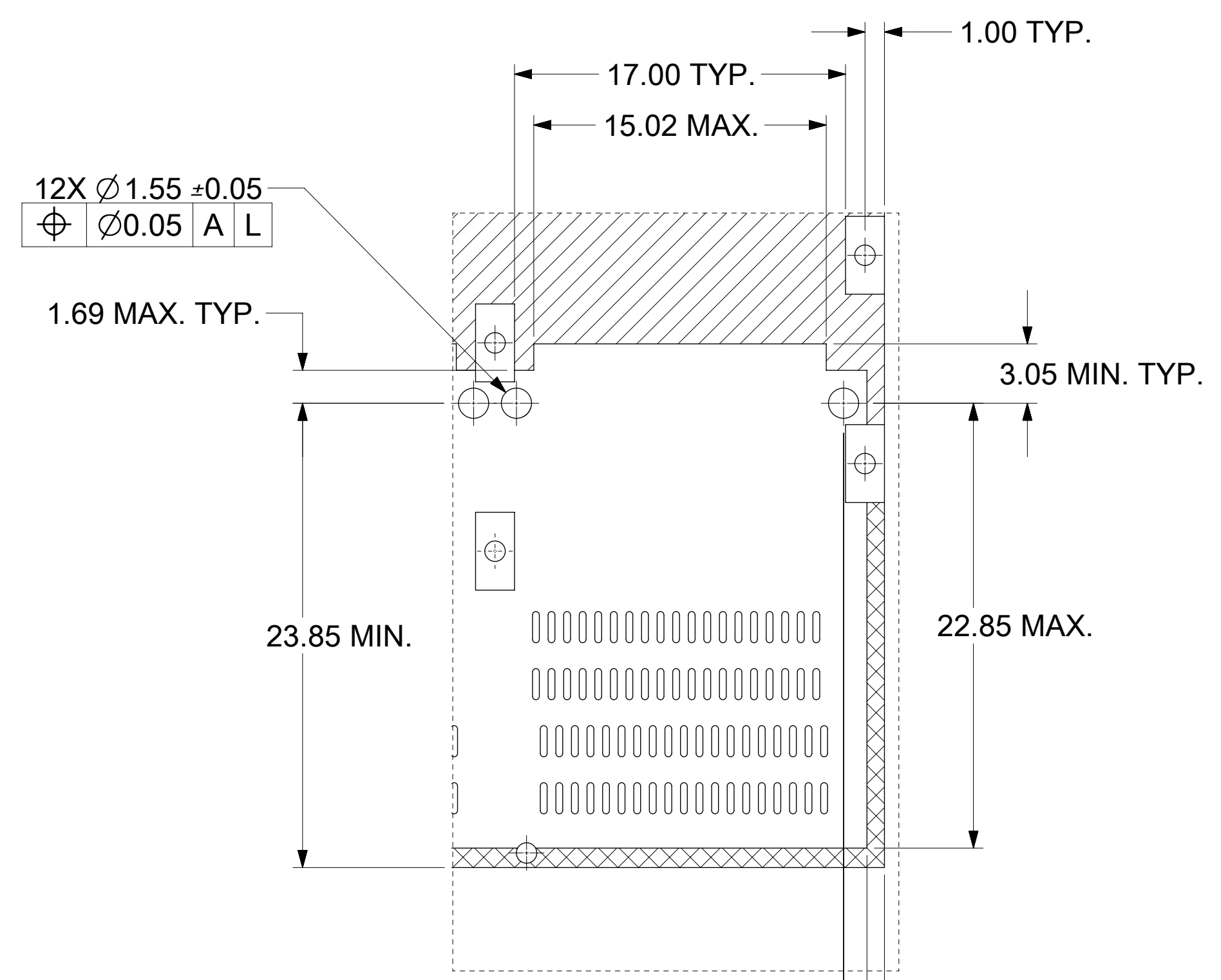
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DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
mm	2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 629406	
ANGULAR TOL	± 2.0°	DRWN: JYEN01	2019/12/13
4 PLACES	±	CHK'D: SCHIEN	2019/12/20
3 PLACES	±	APPR: JCHIANG	2019/12/20
2 PLACES	± 0.13	INITIAL REVISION:	
1 PLACE	± 0.25	DRWN: MKEMPEGOWDA	2017/07/20
0 PLACES	±	APPR: RCHEN08	2017/08/15
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING SERIES
			D-SIZE 203372
DOCUMENT STATUS		MATERIAL NUMBER	CUSTOMER
P1	RELEASE DATE 2019/12/20 10:48:55	2033721201	GENERAL MARKET
		DOC TYPE	DOC PART
		PSD	ASY
		REVISION	D3
		SHEET NUMBER	
		3 OF 7	

PCB LAYOUT FOR SINGLE SIDED MOUNTING

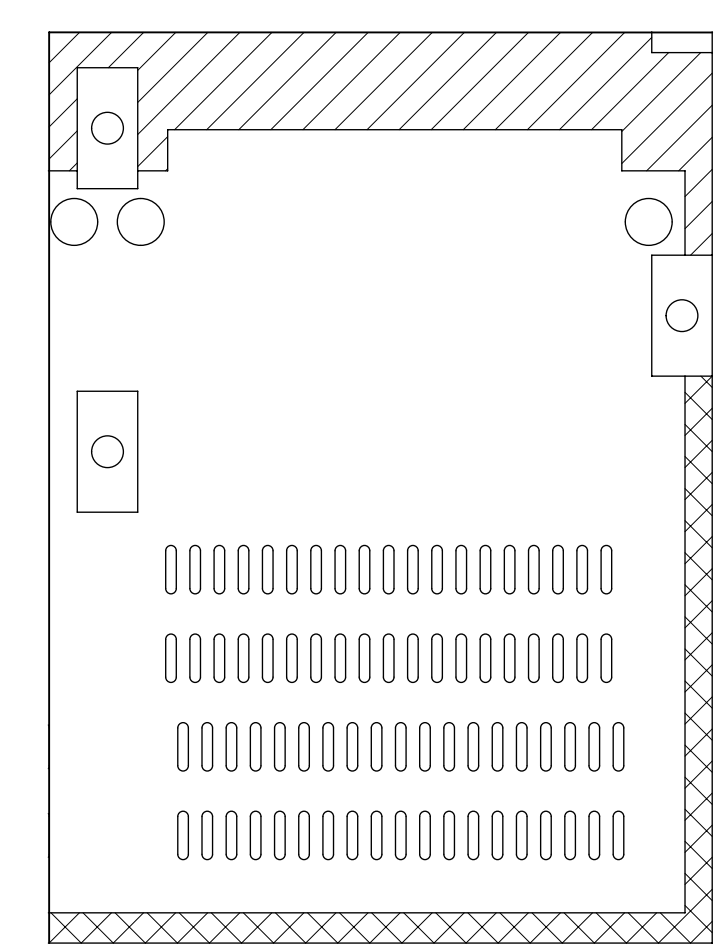


HOST CONNECTOR DETAIL



DETAIL 1
SCALE 4:1

NO REAR LEGS



PARTIAL 1
SCALE 4:1

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

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 REVISION TABLE					
mm		3:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 629406					
ANGULAR TOL ± 2.0°				DRWN: JYEN01 2019/12/13					
4 PLACES ±				CHK'D: SCHIEN 2019/12/20					
3 PLACES ±				APPR: JCHIANG 2019/12/20					
2 PLACES ± 0.13				INITIAL REVISION:					
1 PLACE ± 0.25				DRWN: MKEMPEGOWDA 2017/07/20					
0 PLACES ±				APPR: RCHEN08 2017/08/15					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
		D-SIZE		203372		SEE P/N TABLE		CUSTOMER	
						GENERAL MARKET		SHEET NUMBER	
								4 OF 7	

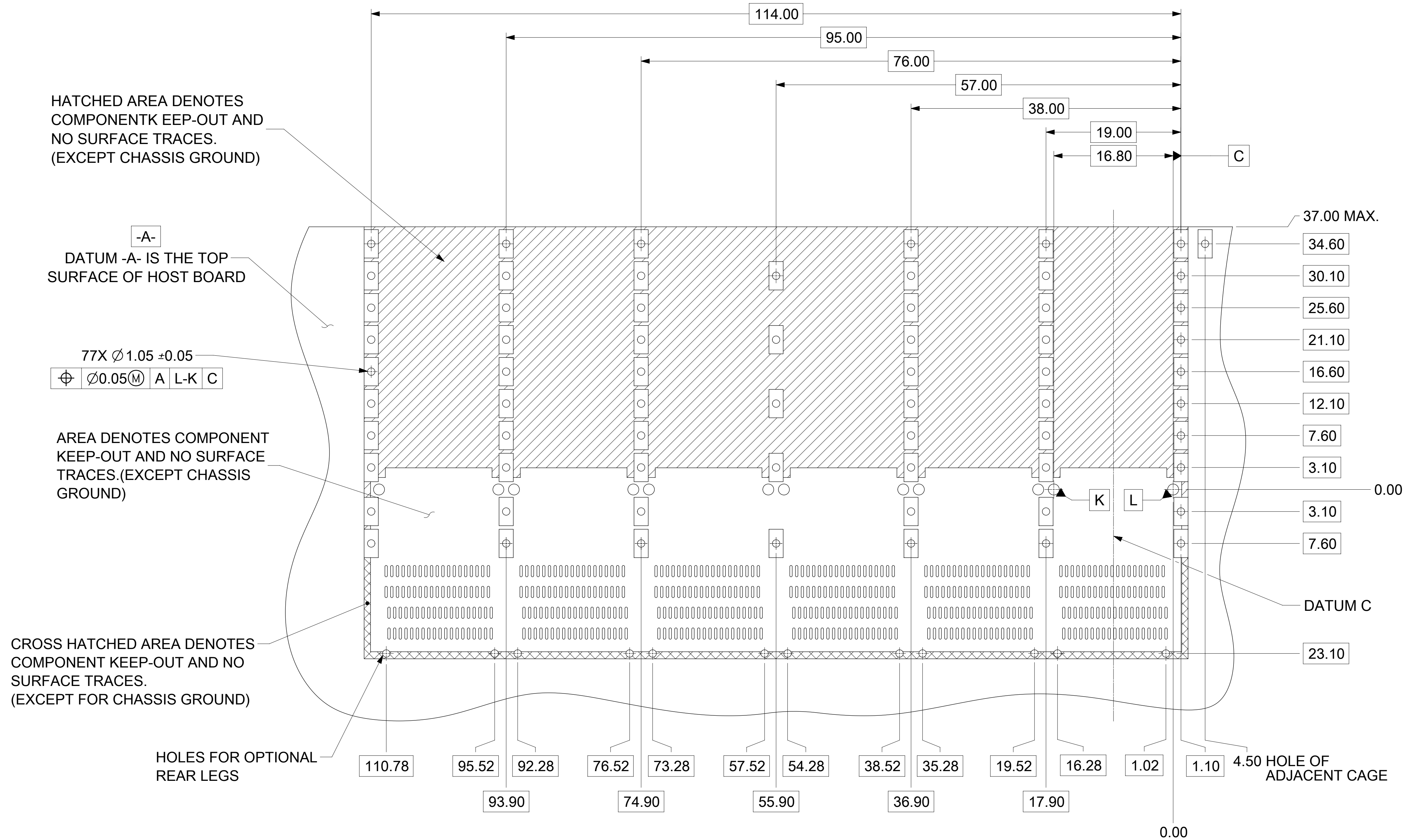
molex

QSFP-DD 1X6 GANGED CAGE ASSY
SPRING FINGER WITH FIN H/S

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033721201	PSD	ASY	D3

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



NOTE:
SEE SHEET 4 FOR
HOST CONNECTOR DETAIL

- 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 ACCOMODATE MOLEX CONNECTOR SERRIES 202718.

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DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE							
mm		3:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)											
ANGULAR TOL		± 2.0°		EC NO: 629406							
4 PLACES		±		DRWN: JYEN01 2019/12/13							
3 PLACES		±		CHK'D: SCHIEN 2019/12/20							
2 PLACES		± 0.13		APPR: JCHIANG 2019/12/20							
1 PLACE		± 0.25		INITIAL REVISION:							
0 PLACES		±		DRWN: MKEMPEGOWDA 2017/07/20							
				APPR: RCHEN08 2017/08/15							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				D-SIZE		203372		SEE P/N TABLE		CUSTOMER	
								GENERAL MARKET		SHEET NUMBER	
										5 OF 7	

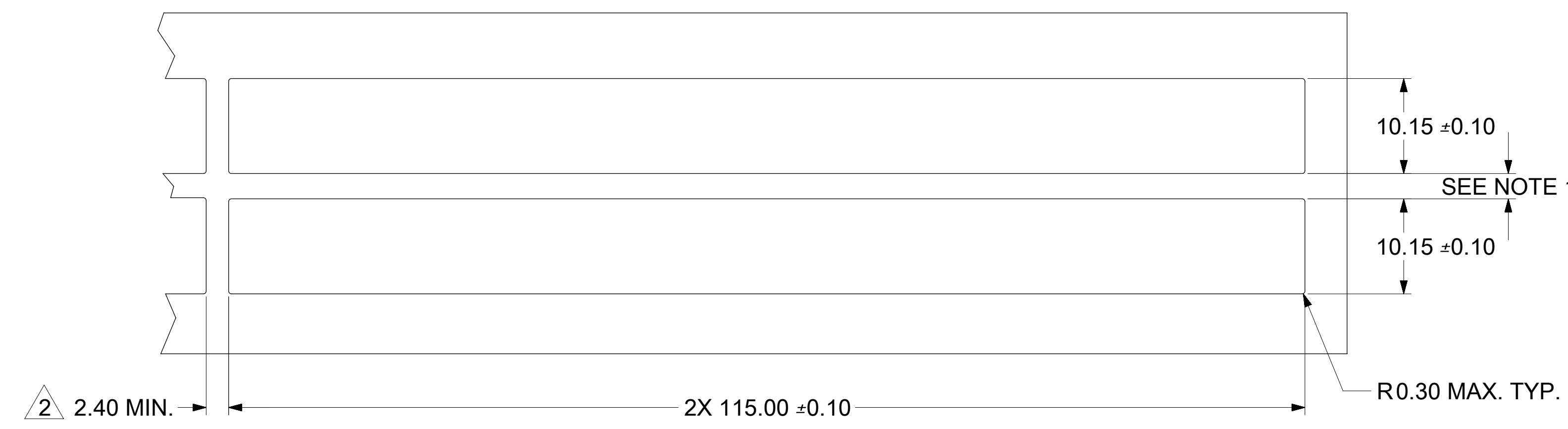
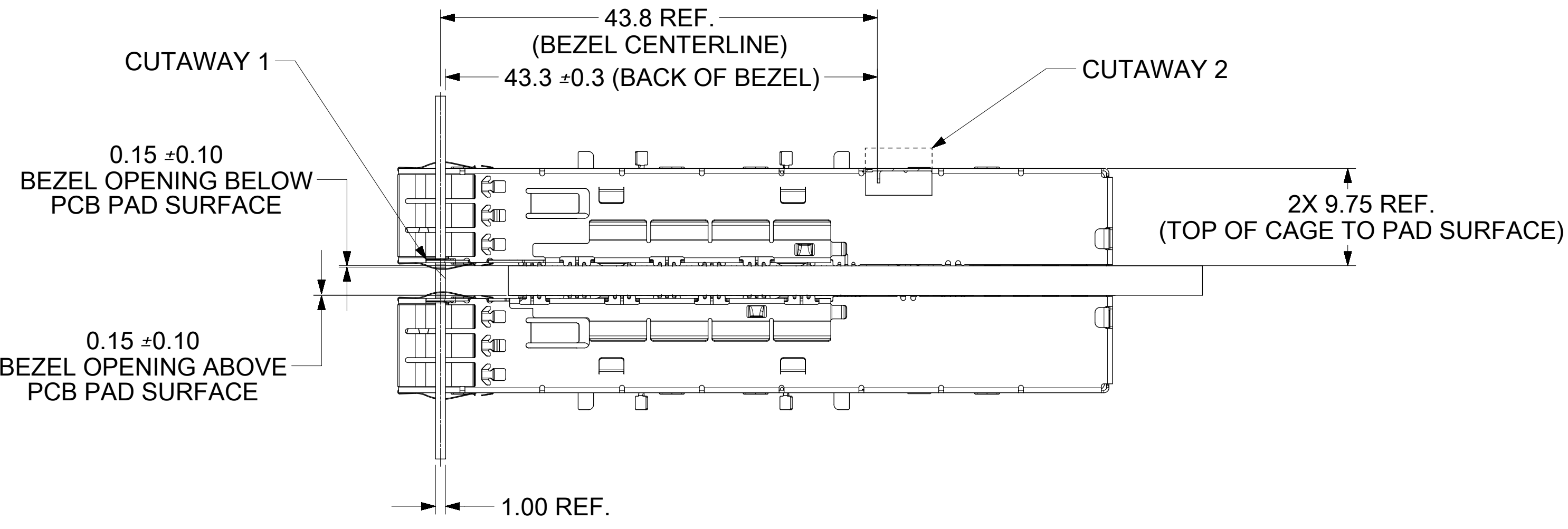
molex

QSFP-DD 1X6 GANGED CAGE ASSY
SPRING FINGER WITH FIN H/S

PRODUCT CUSTOMER DRAWING

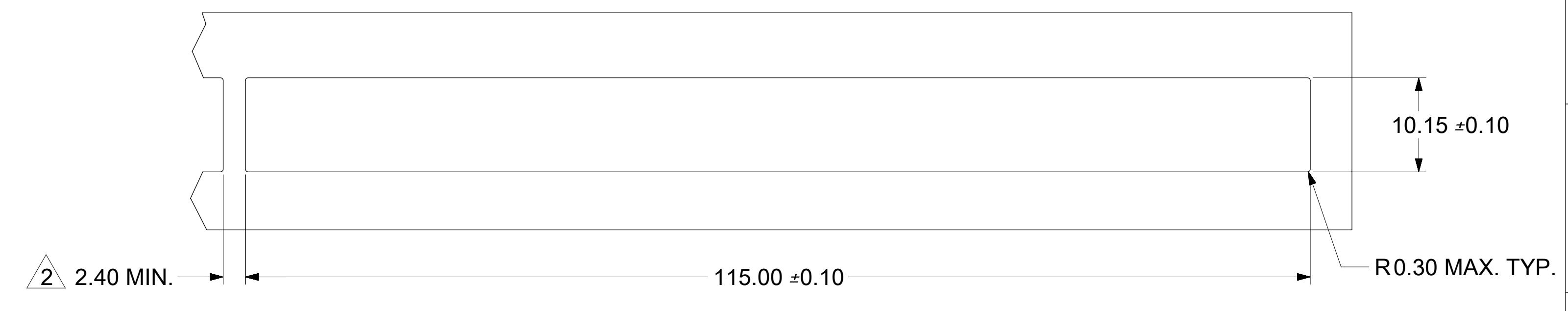
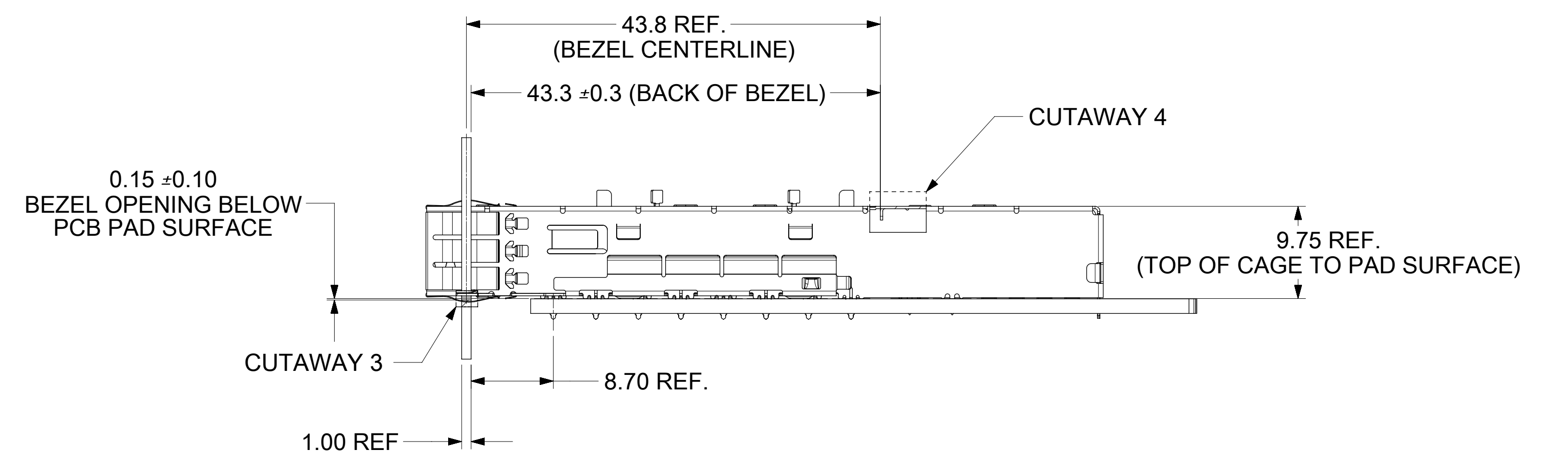
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033721201	PSD	ASY	D3

BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING




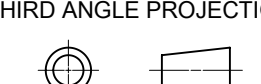
NOTE:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
 2. THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. (THIS DIMENSION VARIES BASED ON DISTANCE OF "HOLE OF ADJACENT CAGE" ON PCB LAYOUT.)

BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



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DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE																																			
mm		2.5:1		<table border="1"> <tr> <td colspan="4">molex</td> </tr> <tr> <td colspan="4">QSFP-DD 1X6 GANGED CAGE ASSY SPRING FINGER WITH FIN H/S</td> </tr> <tr> <td colspan="4">PRODUCT CUSTOMER DRAWING</td> </tr> <tr> <td>DOCUMENT NUMBER</td> <td>DOC TYPE</td> <td>DOC PART</td> <td>REVISION</td> </tr> <tr> <td>2033721201</td> <td>PSD</td> <td>ASY</td> <td>D3</td> </tr> <tr> <td>MATERIAL NUMBER</td> <td>CUSTOMER</td> <td colspan="2">SHEET NUMBER</td> </tr> <tr> <td>SEE P/N TABLE</td> <td>GENERAL MARKET</td> <td colspan="2">6 OF 7</td> </tr> </table>								molex				QSFP-DD 1X6 GANGED CAGE ASSY SPRING FINGER WITH FIN H/S				PRODUCT CUSTOMER DRAWING				DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION	2033721201	PSD	ASY	D3	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		SEE P/N TABLE	GENERAL MARKET	6 OF 7	
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER																															
				D-SIZE		203372		SEE P/N TABLE																															

REV	DATE	DESCRIPTION
A	2017/07/25	INITIAL RELEASE
A1	2017/08/30	SHEET 4: G11: UPDATED OPEN TOP ISO VIEW.
B	2017/11/03	SHEET 4: H18: AS PER THE QSFP-DD MSA TO CORRECTED TP TOLERANCE FROM 0.1 TO 0.05mm. K06: AS PER THE QSFP-DD MSA TO ADDED TP TOLERANCE AS 0.05MM AND CHANGED 1.55REF. TO 1.55±0.05mm.. SHEET 5: G17: AS PER THE QSFP-DD MSA TO CORRECTED TP TOLERANCE FROM 0.1 TO 0.05mm.
C	2018/03/19	SHEET 1: K17: ADDED DIMENSION 114.85 REF. SHEET 2: E04: ADDED A BACK VIEW. SHEET 4: H18: CHANGED "TYP." TO "41X" OF DIMENSION 1.05mm. H18: UPDATED TRUE POSITION DATUM FROM A, K AND L TO A, L-K AND C. J10: AS PER THE QSFP-DD MSA TO ADDED BASIC DIMENSION 16.80 AND DATUM C. K06 : CHANGED "TYP." TO "12X" OF DIMENSION 1.55mm. SHEET 5: G17: CHANGED "TYP." TO "77X" OF DIMENSION 1.05mm. G17: UPDATED TRUE POSITION DATUM FROM A, K AND L TO A, L-K AND C. J08: AS PER THE QSFP-DD MSA TO ADDED BASIC DIMENSION 16.80 AND DATUM C.
D	2019/05/02	OPEN TOP SERIES RELOCATED TO DRAWING NUMBER 2033722201. SHEET 3(C18) & SHEET(E18) : UPDATE RECOMMEND PCB LAYOUT OF TRACE KEEP-OUT ZONE.
D1	2019/07/15	SHEET 3: ADDED NEW P/Ns(-2XXX, WITH RAISED BASE).
D2	2019/08/05	SHEET 3 : 5G : ADDED A COLUMN FOR TYPES OF HEAT SINK.
D3	2019/12/13	SHEET 6 : F2 & E11 : CHANGED R0.30 TYP. TO R0.30 MAX. TYP. SHEET 6 : J8 & H17 : CHANGED BEZEL THICKNESS FROM 1.60 REF. TO 1.00 REF. SHEET 6 : K6 & L16 : CHANGED FROM 43.0 ±0.3 TO 43.3 ±0.3 SHEET 6 : J7 : CHANGED FROM 8.40 REF. TO 8.70 REF.

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DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE															
mm	1:1	 <p>QSFP-DD 1X6 GANGED CAGE ASSY SPRING FINGER WITH FIN H/S</p> <p>PRODUCT CUSTOMER DRAWING</p>															
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ANGULAR TOL	± 2.0°																
4 PLACES	±																
3 PLACES	±																
2 PLACES	± 0.13																
1 PLACE	± 0.25	EC NO: 629406	DRWN: JYEN01		2019/12/13		<table border="1"> <tr> <td>DOCUMENT NUMBER</td> <td>DOC TYPE</td> <td>DOC PART</td> <td>REVISION</td> </tr> <tr> <td>2033721201</td> <td>PSD</td> <td>ASY</td> <td>D3</td> </tr> </table>			DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION	2033721201	PSD	ASY	D3
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION														
2033721201	PSD	ASY	D3														
0 PLACES	±	DRWN: MKEMPEGOWDA	2017/07/20														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RCHEN08	2017/08/15														
THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER											
		D-SIZE	203372	SEE P/N TABLE	GENERAL MARKET	7 OF 7											