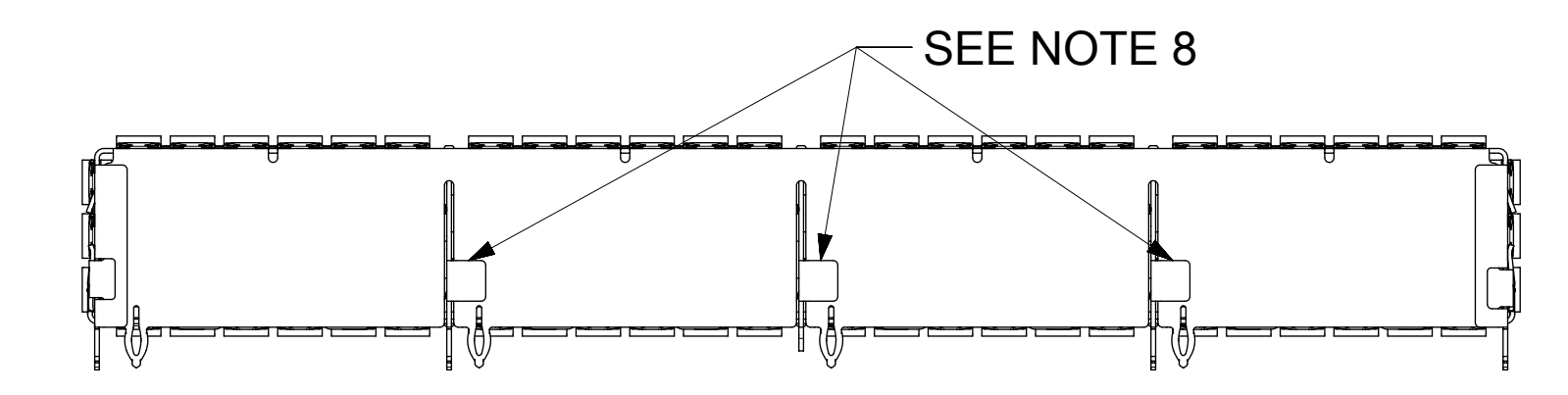
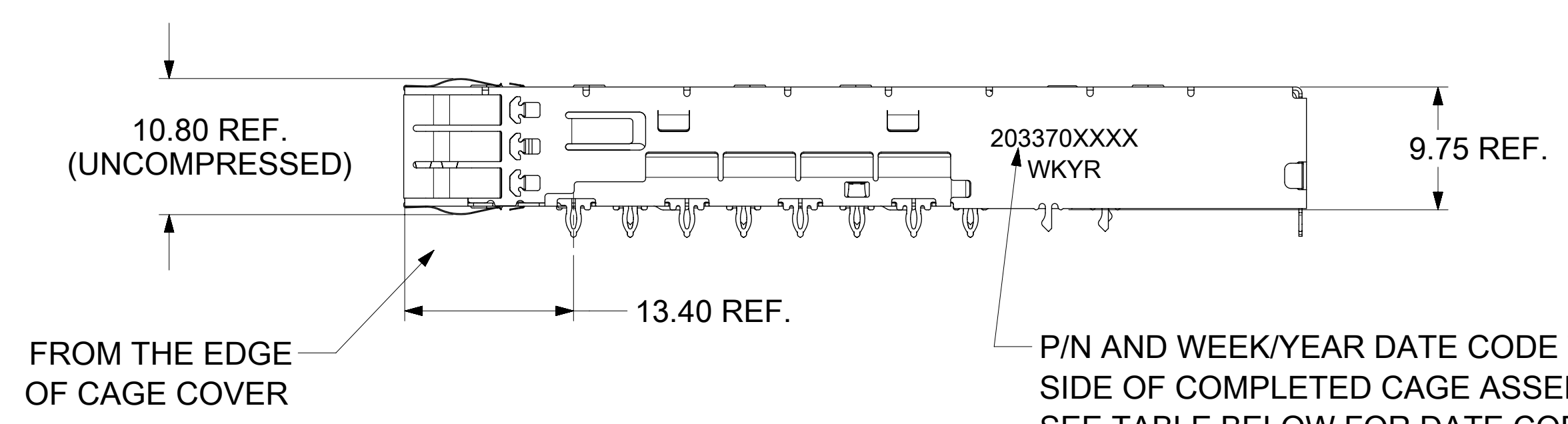
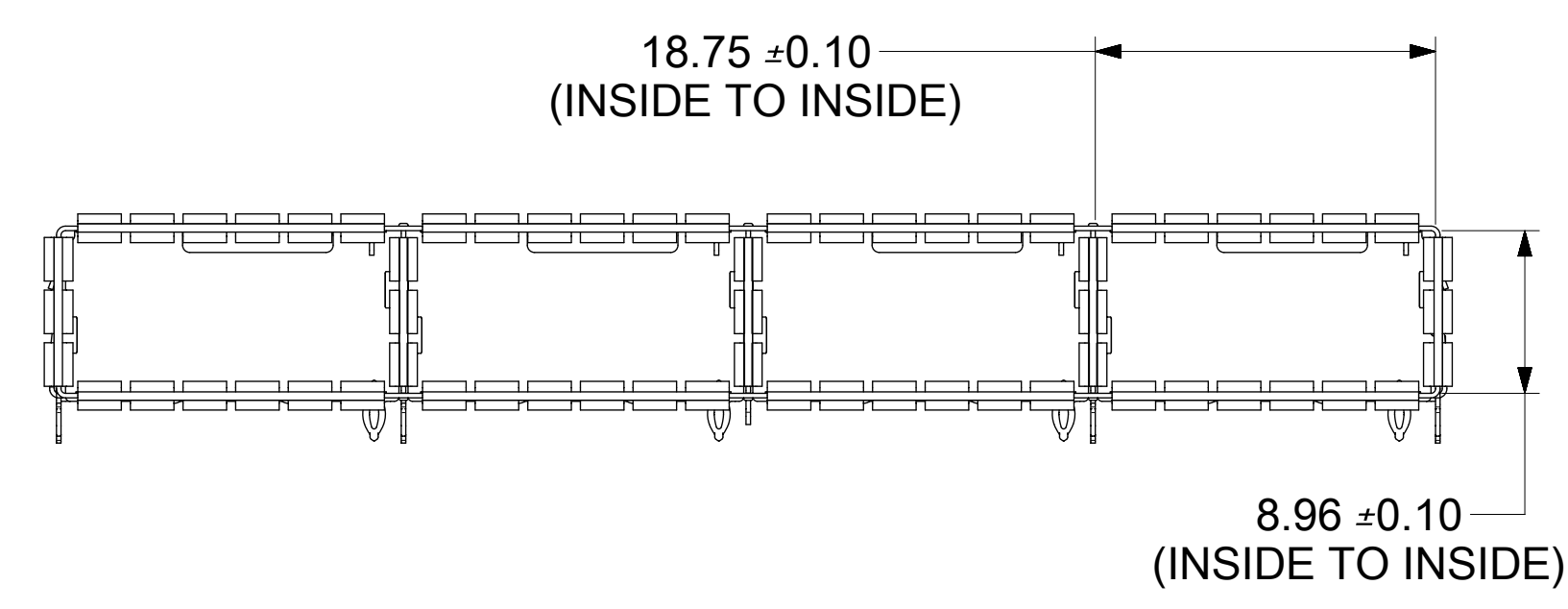
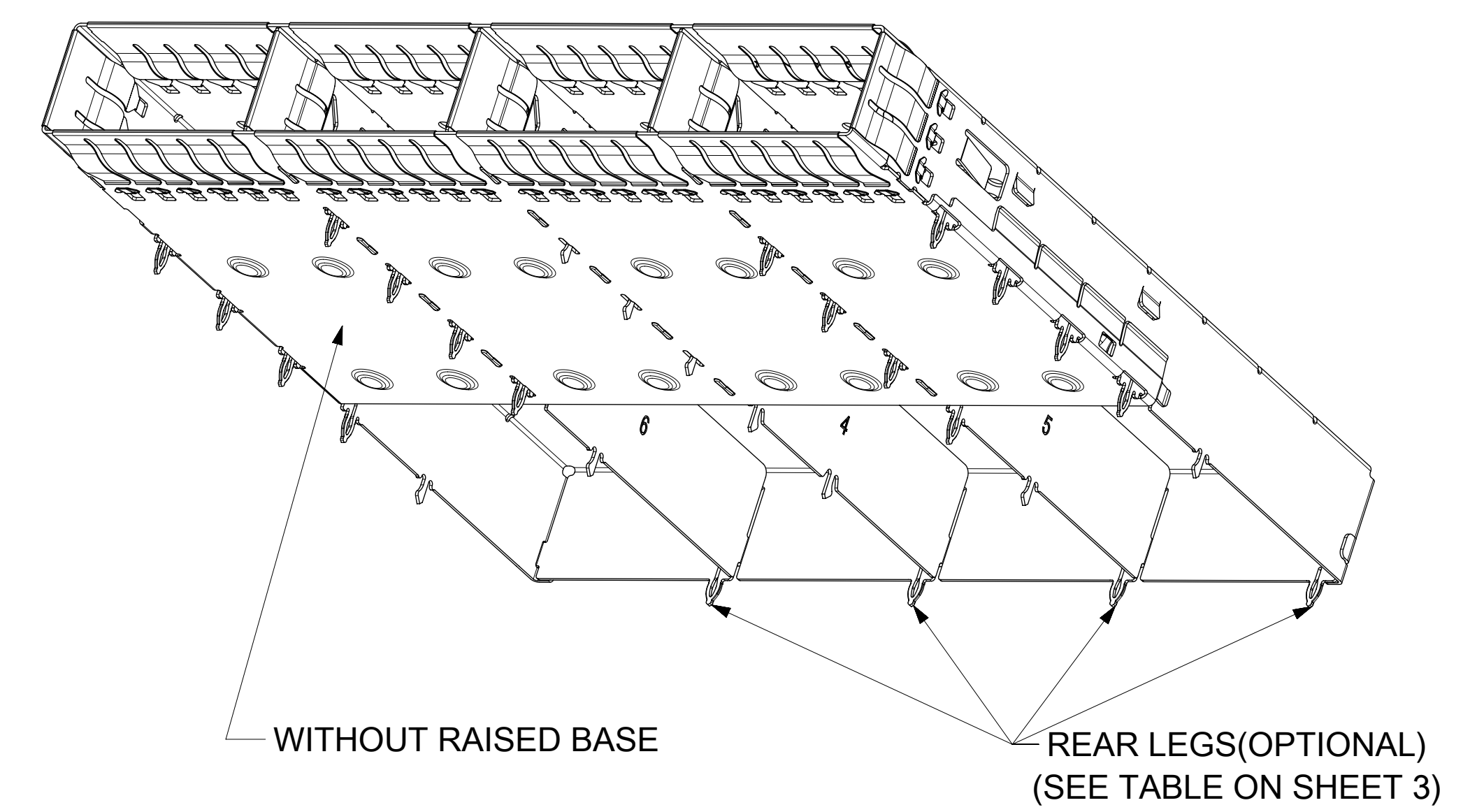
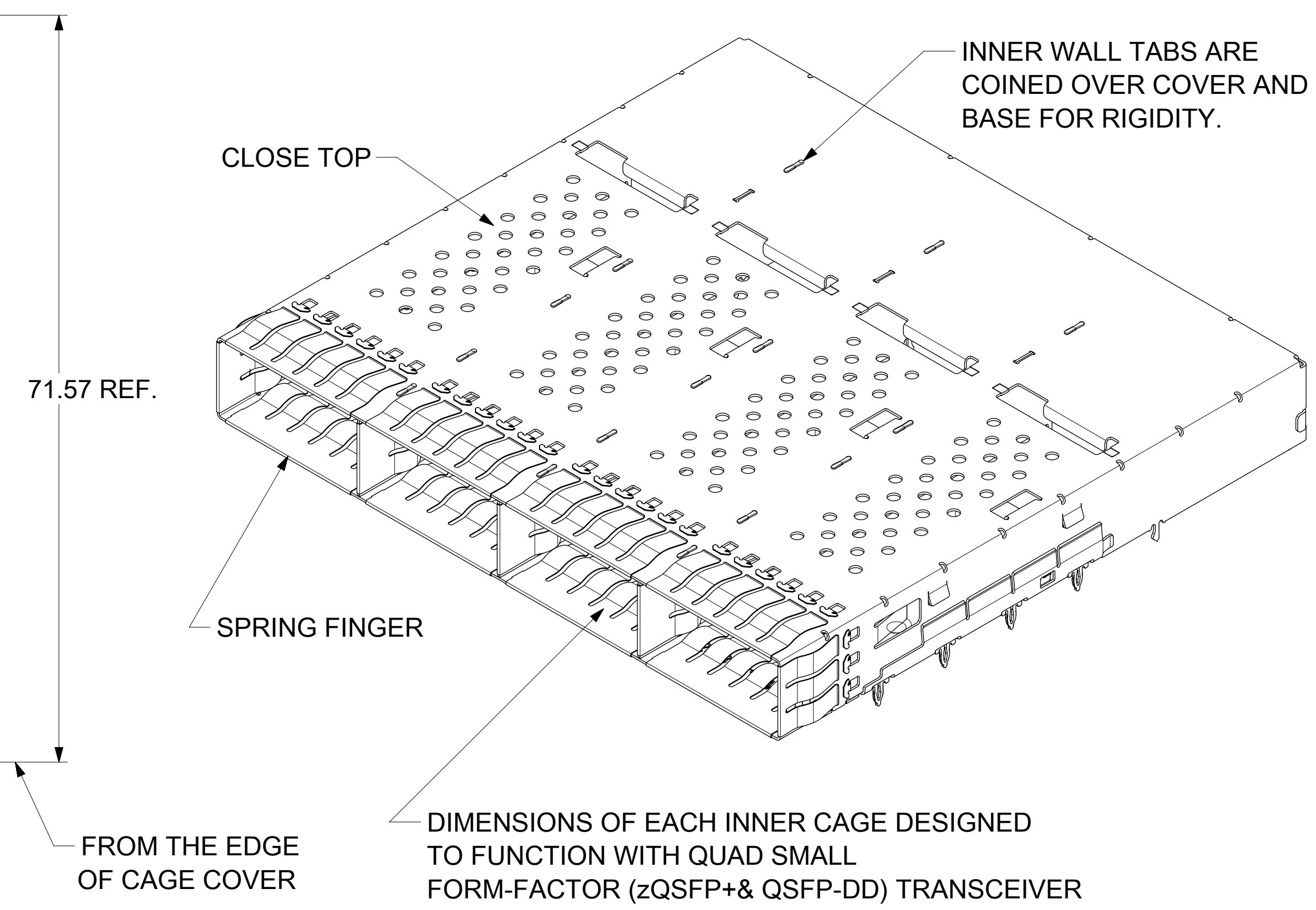
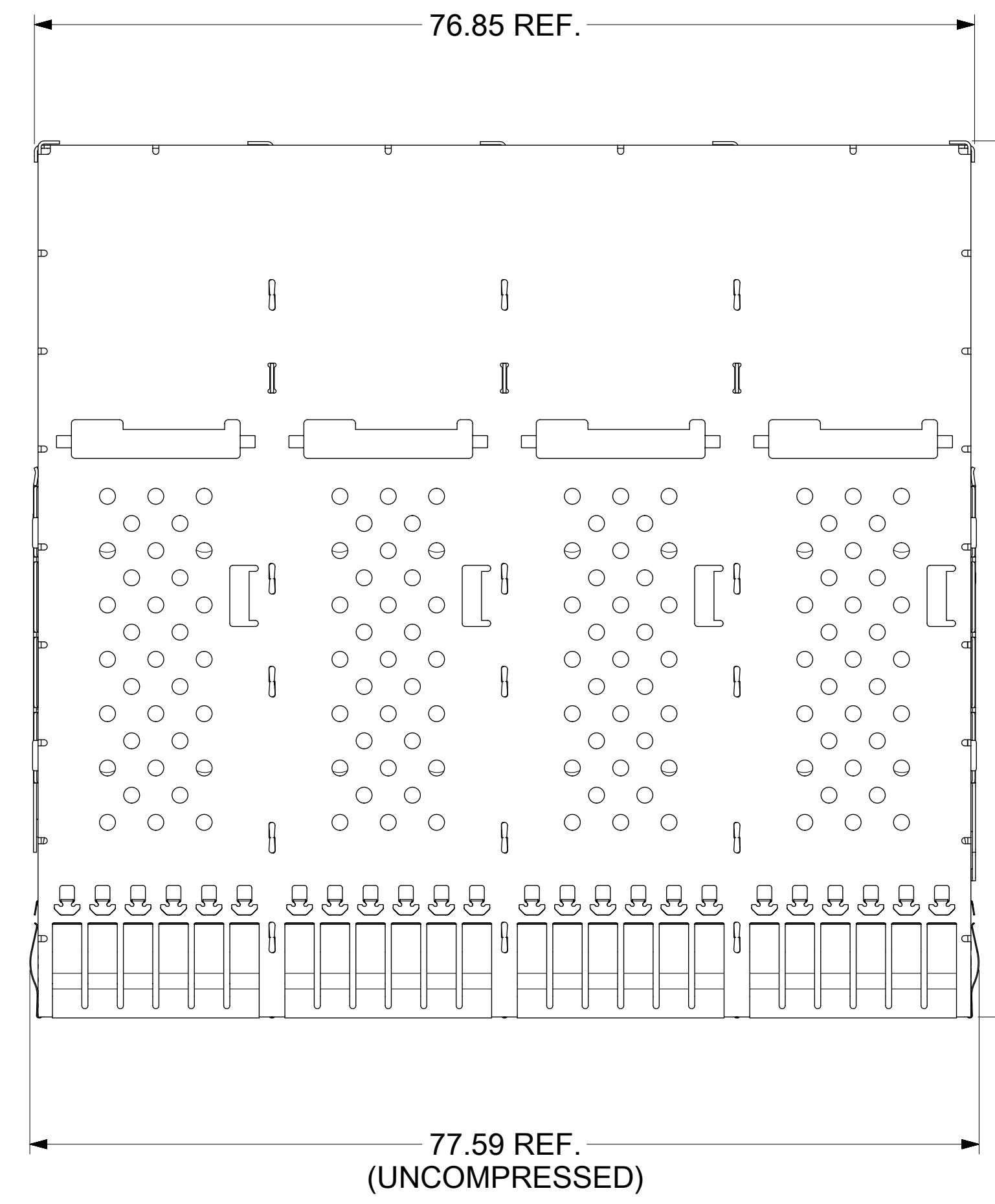


BASE CAGE DETAILS

2033701244 SHOWN



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 SHEET 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)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: SEE REVISION TABLE		
	DIMENSION UNITS	SCALE			
▽ = 0	mm	2.5:1			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± 2.0°				
▽ = 0	4 PLACES	±	EC NO: 629406		
▽ = 0	3 PLACES	±	DRWN: JYEN01 2019/12/13		
▽ = 0	2 PLACES	± 0.13	CHK'D: SCHIEN 2019/12/20		
▽ = 0	1 PLACE	± 0.25	APPR: JCHIANG 2019/12/20		
▽ = 0	0 PLACES	±	INITIAL REVISION:		
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: MKEMPEGOWDA 2017/07/21		
▽ = 0	THIRD ANGLE PROJECTION		APPR: RCHEN08 2017/08/15		
DRAWING		SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
D-SIZE		203370	SEE P/N TABLE	GENERAL MARKET	1 OF 7

molex

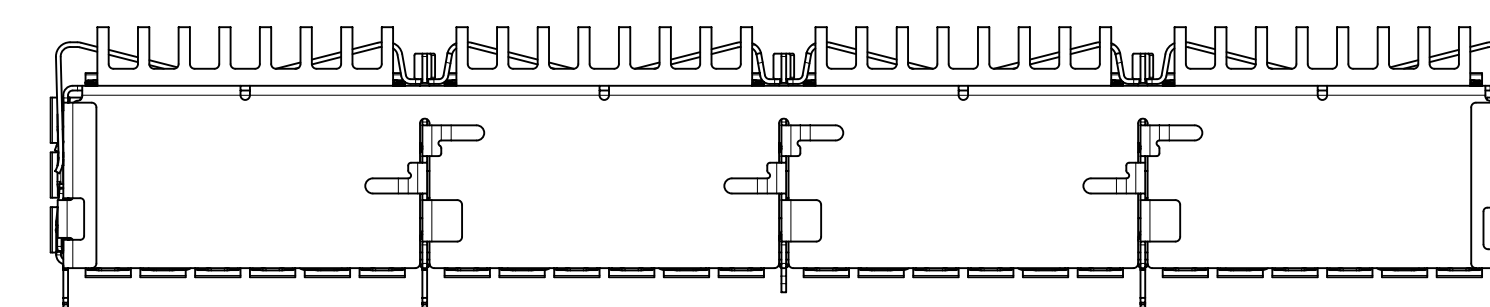
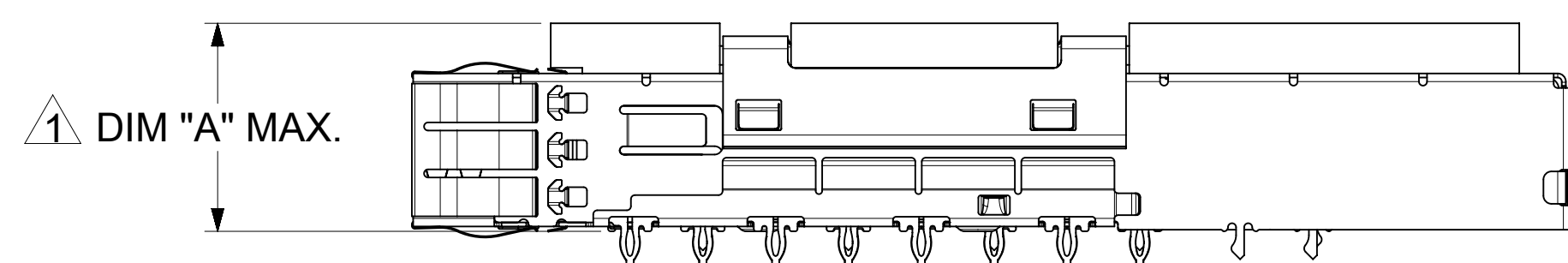
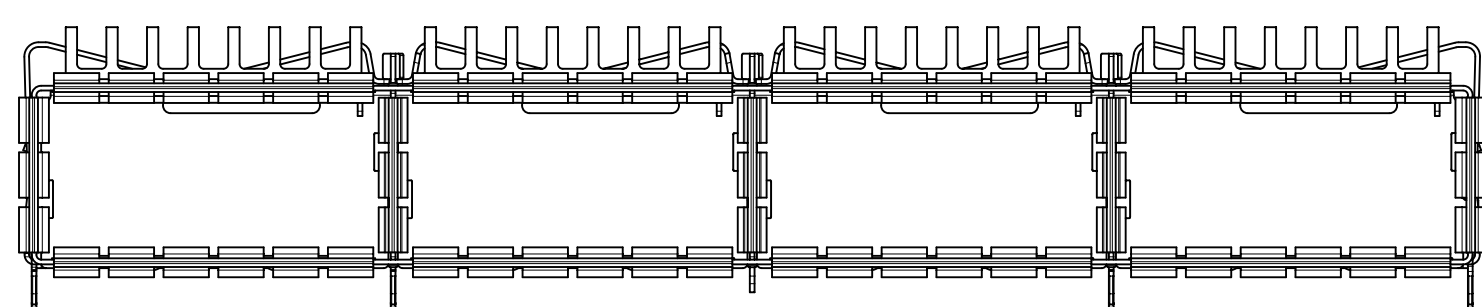
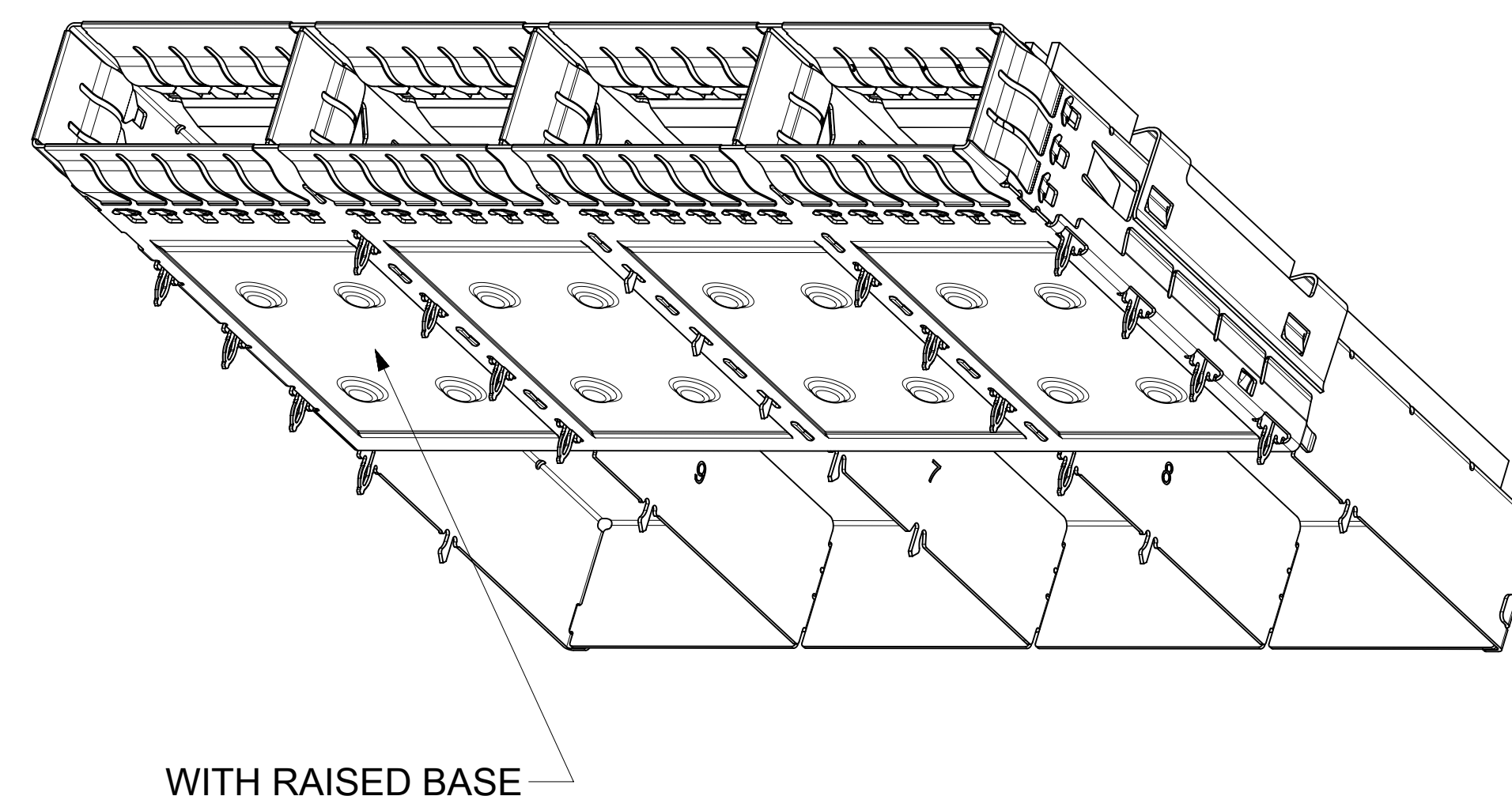
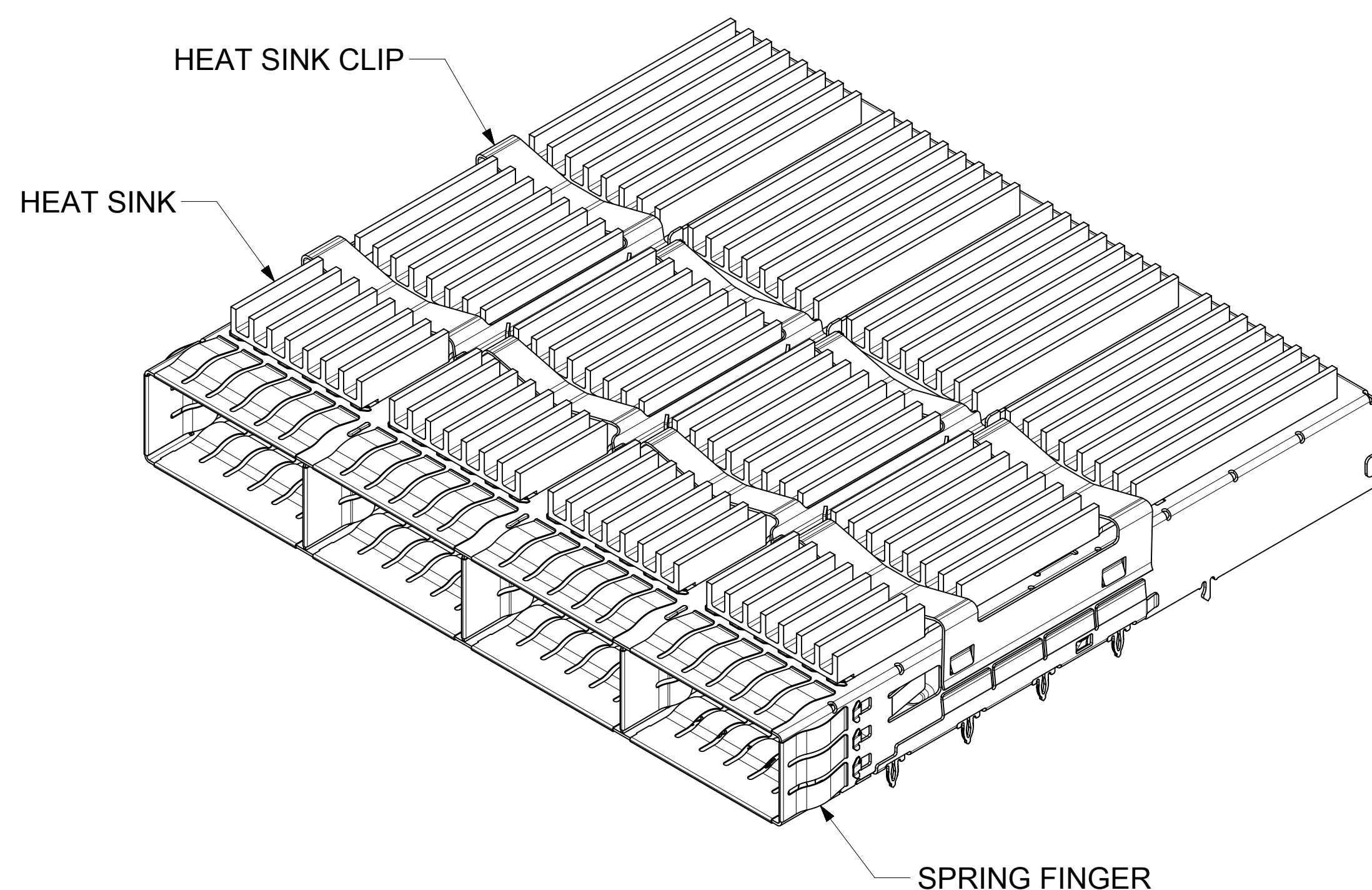
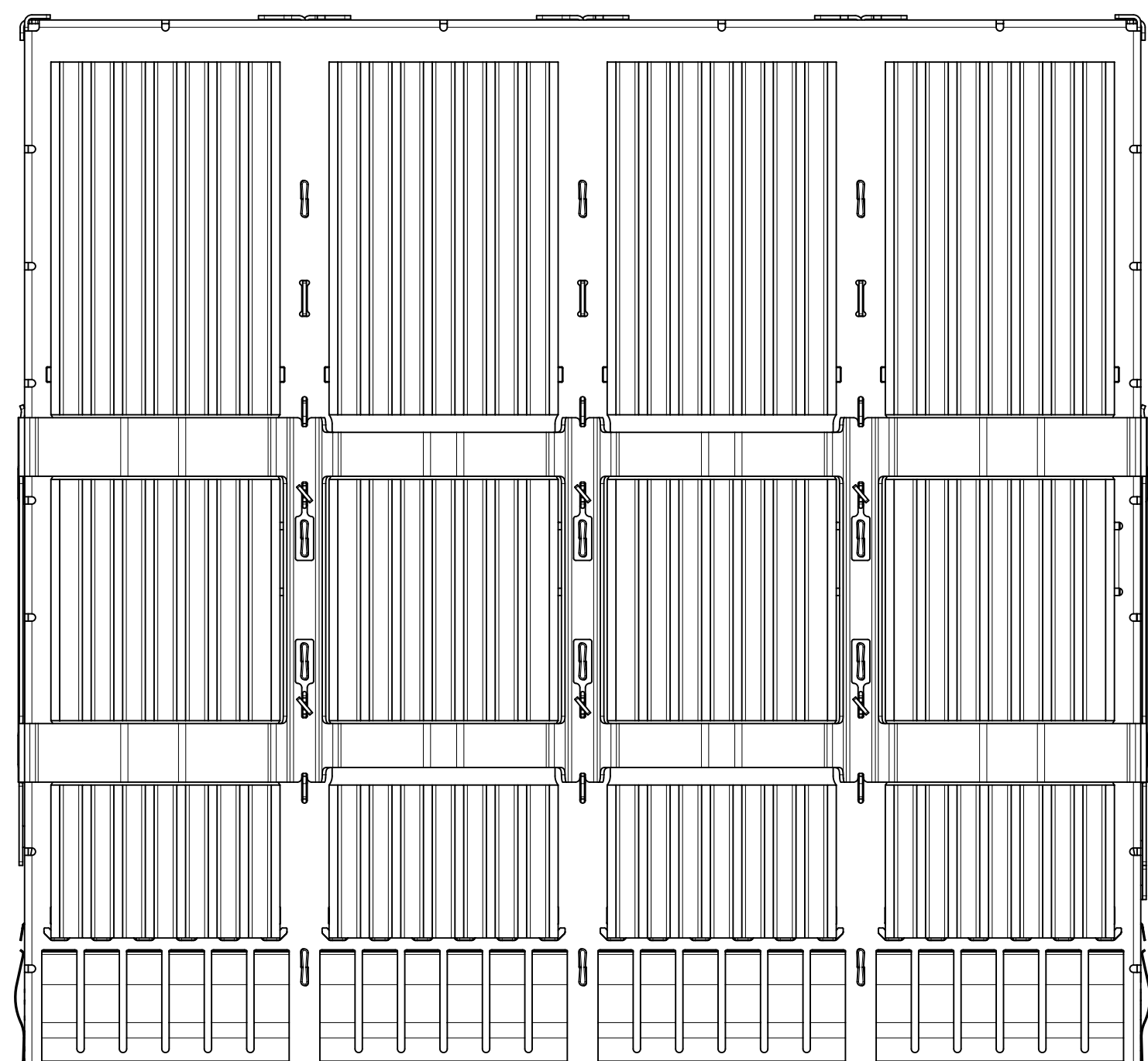
QSFP-DD 1X4 GANGED CAGE ASSY
SF WITH FIN H/S OPTIONS

PRODUCT CUSTOMER DRAWING

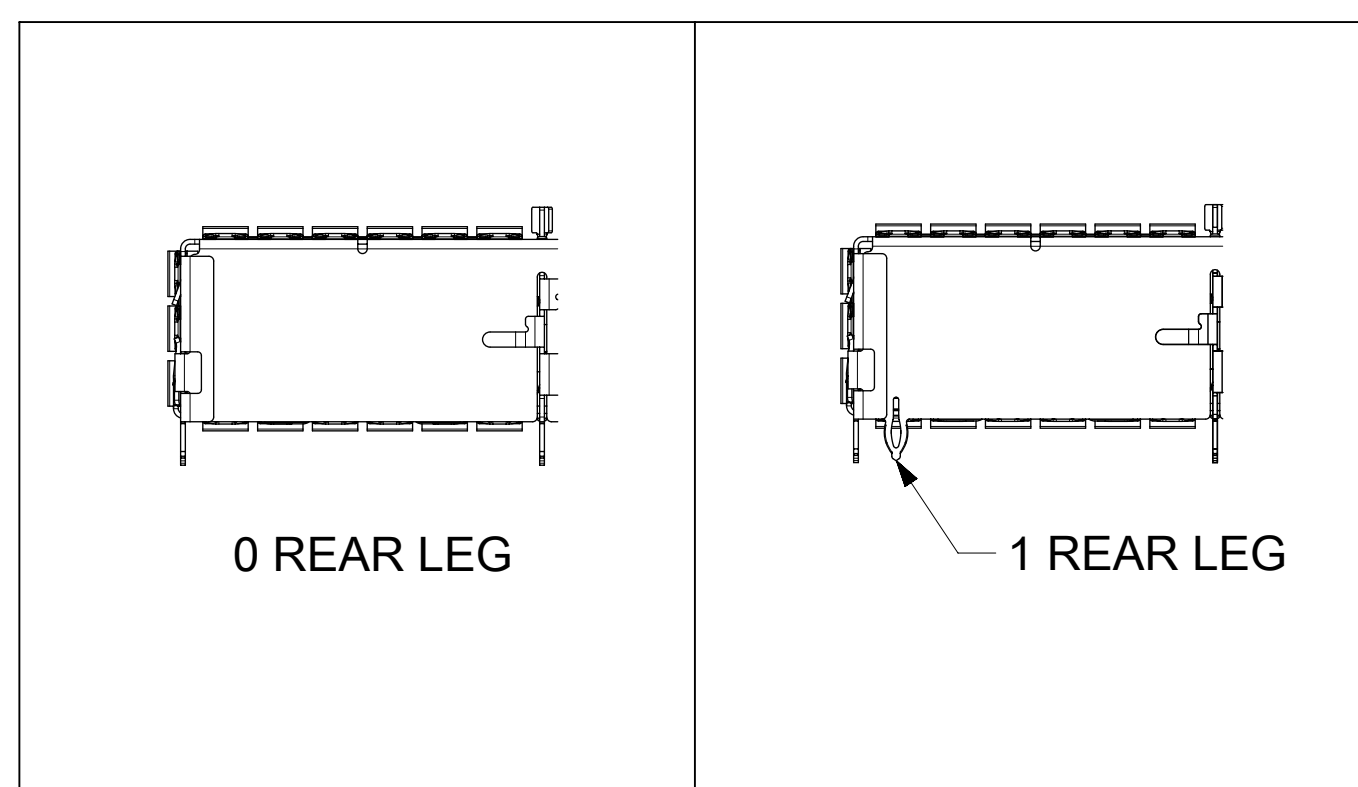
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033701201	PSD	ASY	D3

CAGE ASSEMBLY OPTIONS

2033702346 SHOWN



REAR LEG OPTIONS



HEAT SINK HEIGHT OPTIONS

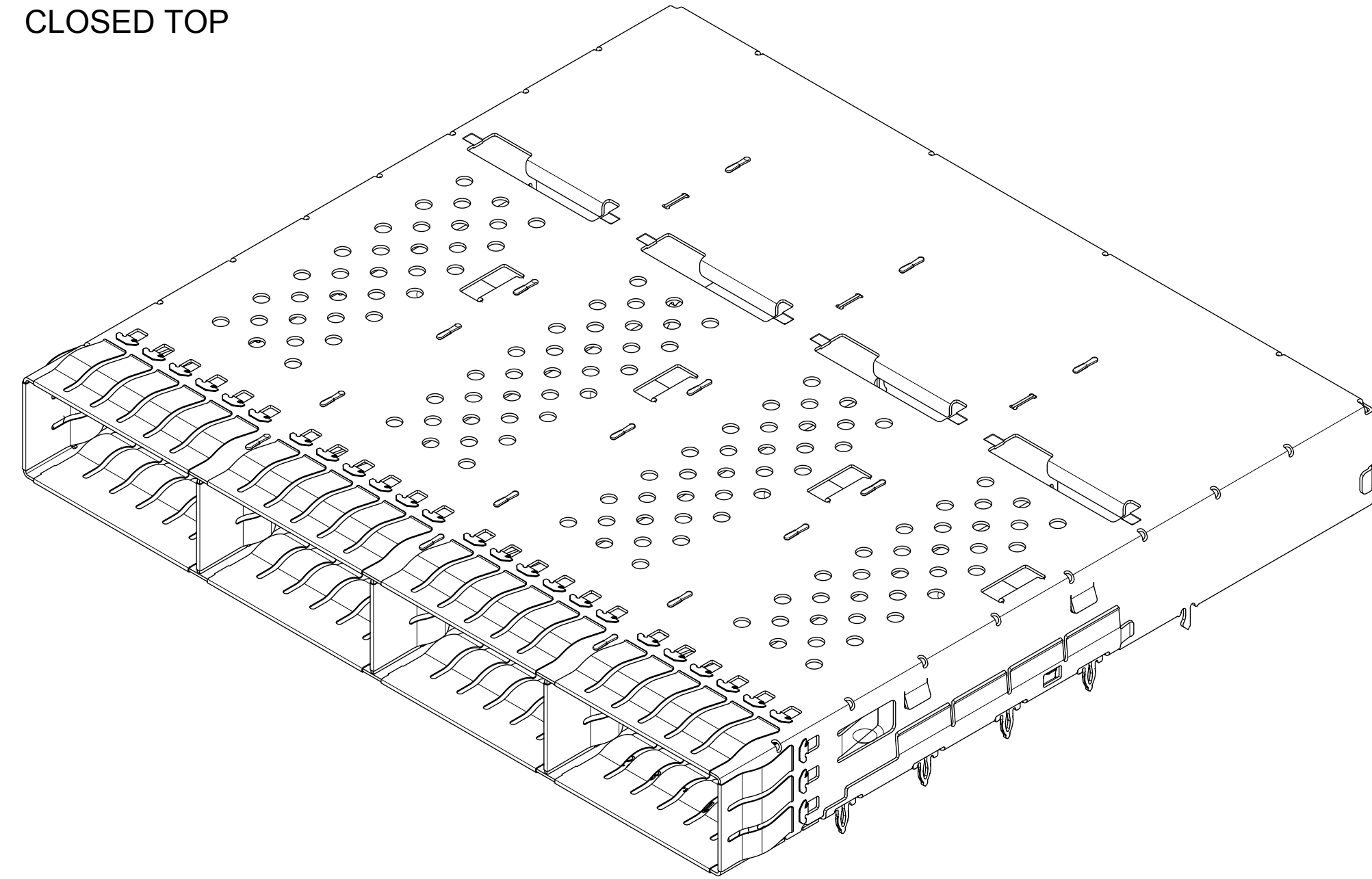
OVERALL HEAT SINK HEIGHT	DIM "A"
PCI	13.7
SAN	16.0
NET	23.0

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

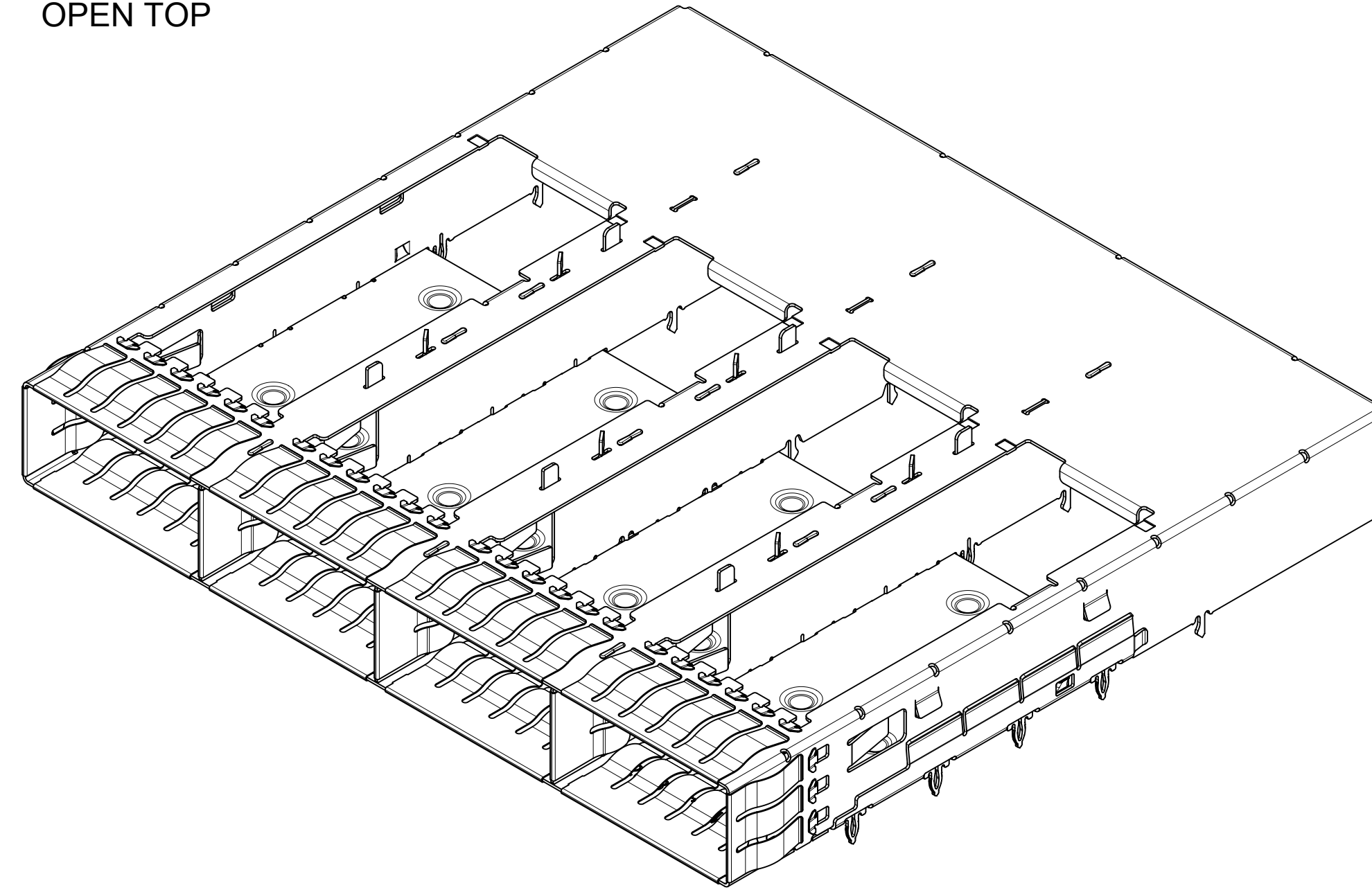
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
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$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	
$\nabla = 0$	ANGULAR TOL	$\pm 2.0^\circ$
$\nabla = 0$	4 PLACES	\pm
$\nabla = 0$	3 PLACES	\pm
$\nabla = 0$	2 PLACES	± 0.13
$\nabla = 0$	1 PLACE	± 0.25
$\nabla = 0$	0 PLACES	\pm
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION
$\nabla = 0$		$\nabla = 0$
CURRENT REV DESC: SEE REVISION TABLE		
EC NO: 629406		
DRWN: JYEN01		2019/12/13
CHK'D: SCHIEN		2019/12/20
APPR: JCHIANG		2019/12/20
INITIAL REVISION:		
DRWN: MKEMPEGOWDA		2017/07/21
APPR: RCHEN08		2017/08/15
D-DRAWING		SERIES
D-SIZE		203370
MATERIAL NUMBER		CUSTOMER
SEE P/N TABLE		GENERAL MARKET
DOCUMENT NUMBER		DOC TYPE
2033701201		PSD
DOC PART		REVISION
ASY		D3
SHEET NUMBER		
2 OF 7		

PART NUMBER SELECTION

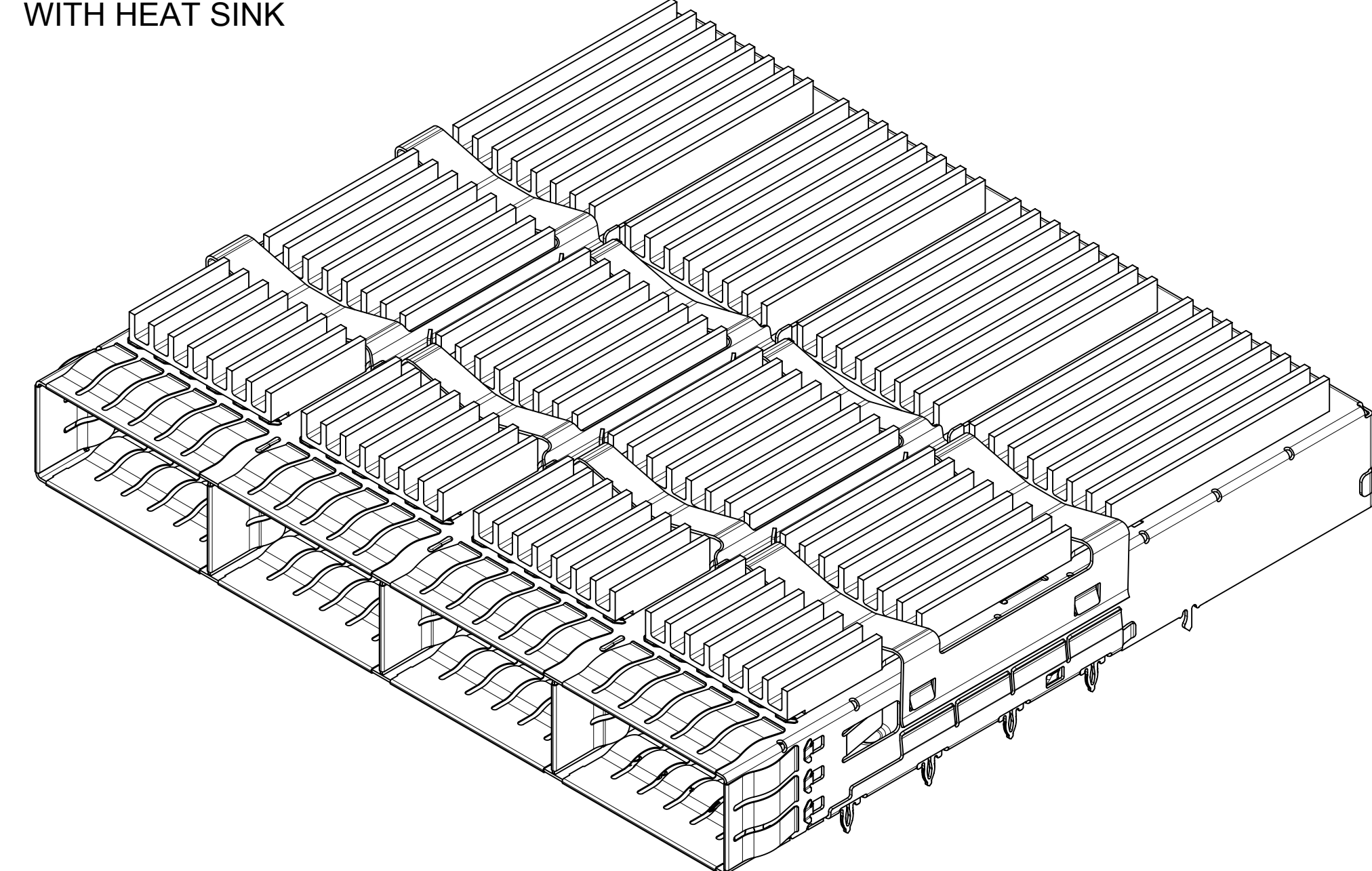
CLOSED TOP



OPEN TOP



WITH HEAT SINK



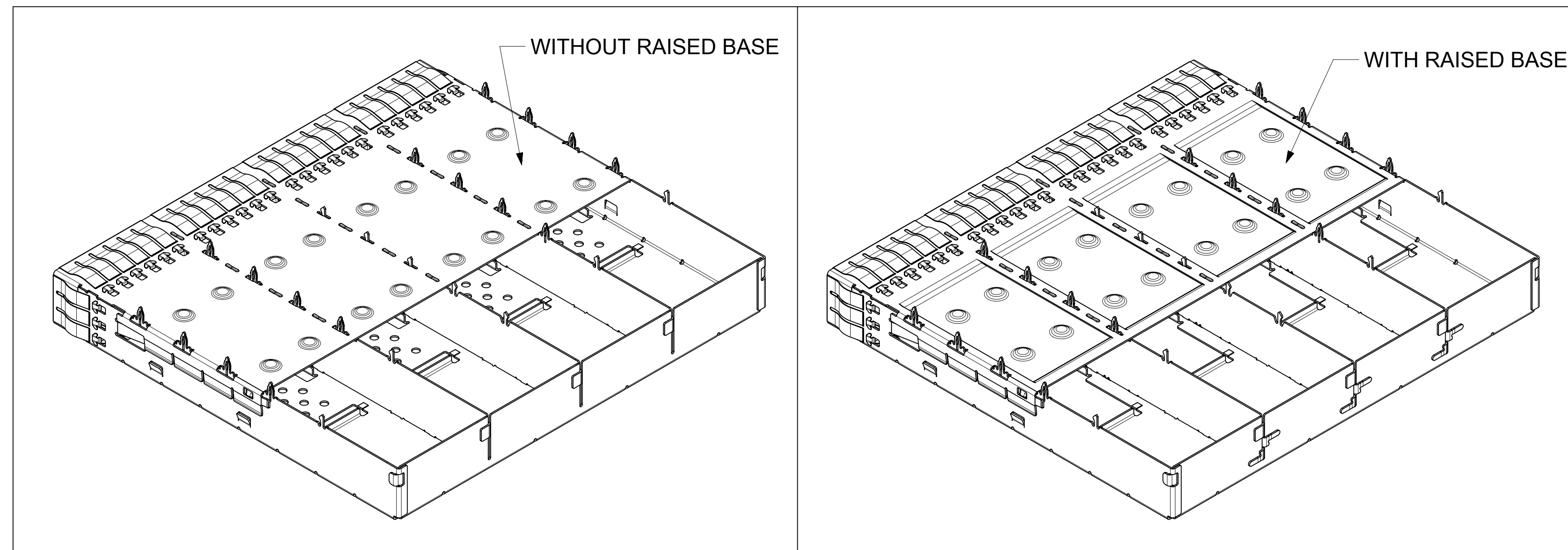
MOLEX P/N	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033701243	0	NO
2033701244	1	NO

MOLEX P/N	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033701253	0	NO
2033701254	1	NO
2033702253	0	YES
2033702254	1	YES

MOLEX P/N	HEAT SINK	# OF REAR LEGS PER PORT	WITH RAISED BASE
2033701346	PCI	0	NO
2033701347	SAN	0	NO
2033701348	NET	0	NO
2033701349	PCI	1	NO
2033701350	SAN	1	NO
2033701351	NET	1	NO
2033702346	PCI	0	YES
2033702347	SAN	0	YES
2033702348	NET	0	YES
2033702349	PCI	1	YES
2033702350	SAN	1	YES
2033702351	NET	1	YES

RAISED BASE OPTIONS

SCALE 2:1



SYMBOLS DIMENSION UNITS: mm SCALE: 2.5:1 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	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: SEE REVISION TABLE			
	EC NO: 629406 DRWN: JYEN01 2019/12/13 CHK'D: SCHIEN 2019/12/20 APPR: JCHIANG 2019/12/20			
INITIAL REVISION: DRWN: MKEMPEGOWDA 2017/07/21 APPR: RCHEN08 2017/08/15		DOCUMENT NUMBER: 2033701201 DOC TYPE: PSD DOC PART: ASY REVISION: D3		SHEET NUMBER: 3 OF 7
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NUMBER: 203370 CUSTOMER: GENERAL MARKET		

PCB LAYOUT FOR SINGLE SIDED MOUNTING

HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES. (EXCEPT CHASSIS GROUND)

DATUM -A- IS THE TOP SURFACE OF HOST BOARD

29X $\varnothing 1.05 \pm 0.05$
 $\varnothing 0.05$ M A L-K C

AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES. (EXCEPT CHASSIS GROUND)

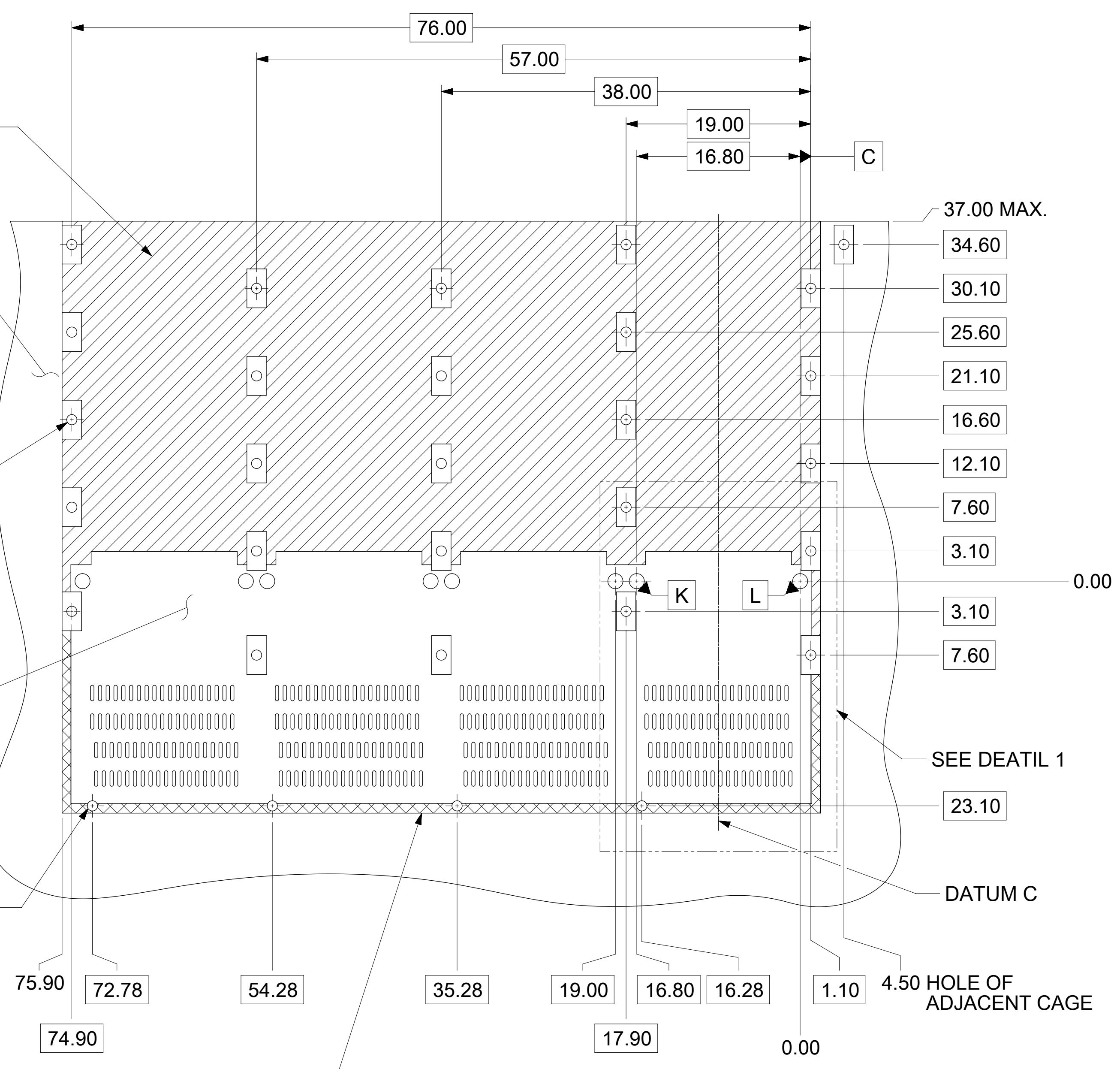
HOLES FOR OPTIONAL REAR LEGS

CROSS HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES. (EXCEPT FOR CHASSIS GROUND)

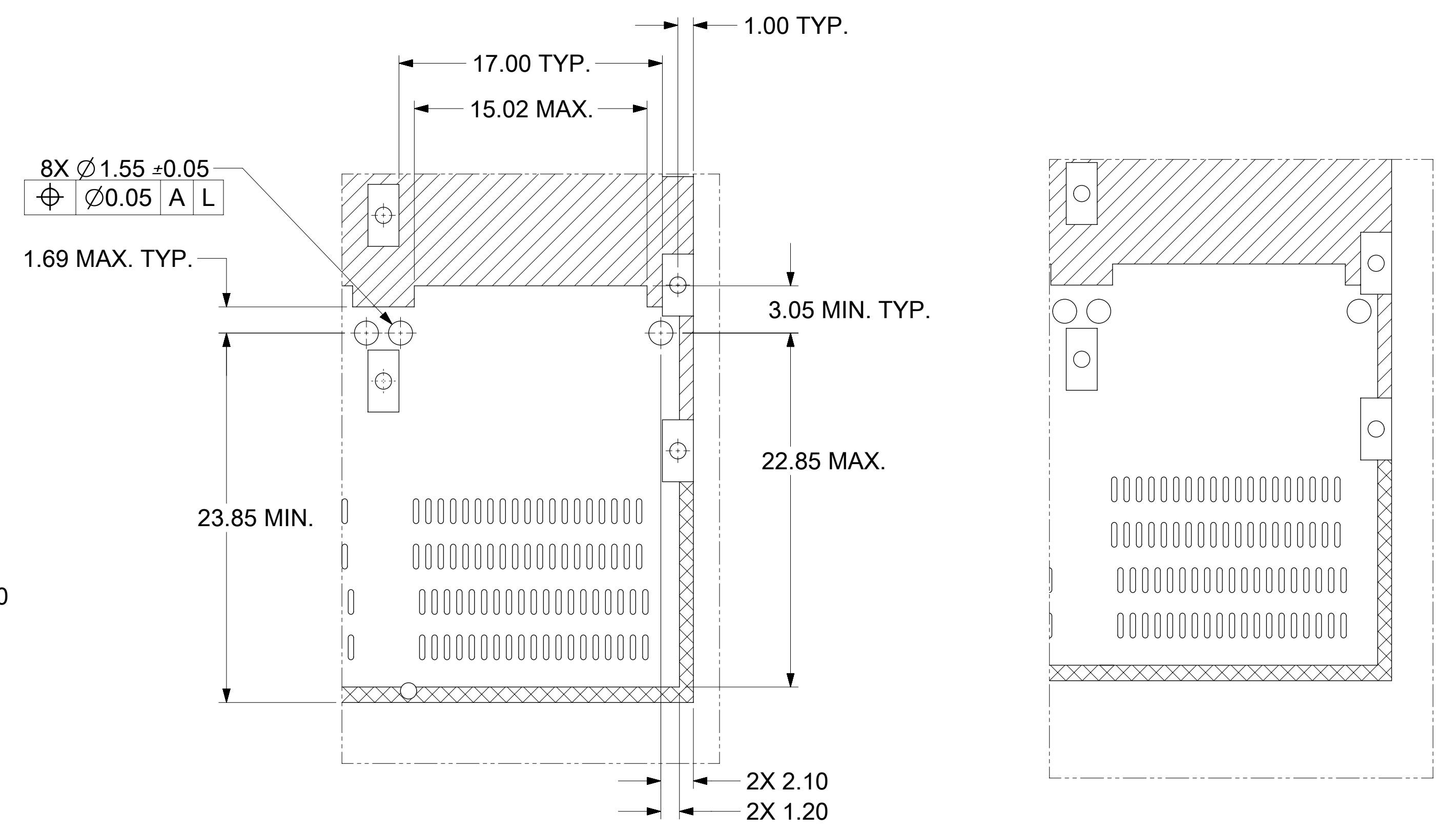
NOTES:

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm X 4.00mm RETANGLE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER QSFP-DD MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 202718.

DOCUMENT STATUS	P1	RELEASE DATE	2019/12/20	10:48:50
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HOST CONNECTOR DETAIL



1 REAR LEGS

DETAIL 1
SCALE 4:1

NO REAR LEGS

PARTIAL 1
SCALE 4:1

SYMBOLS	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
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$\nabla = 0$	ANGULAR TOL	$\pm 2.0^\circ$	
$\nabla = 0$	4 PLACES	\pm	EC NO: 629406
$\nabla = 0$	3 PLACES	\pm	DRWN: JYEN01 2019/12/13
$\nabla = 0$	2 PLACES	± 0.13	CHK'D: SCHIEN 2019/12/20
$\nabla = 0$	1 PLACE	± 0.25	APPR: JCHIANG 2019/12/20
$\nabla = 0$	0 PLACES	\pm	INITIAL REVISION:
$\square = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
$\nabla = 0$	THIRD ANGLE PROJECTION	DRAWING	SERIES
	$\nabla \leftarrow$	D-SIZE	203370
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
2033701201		GENERAL MARKET	4 OF 7

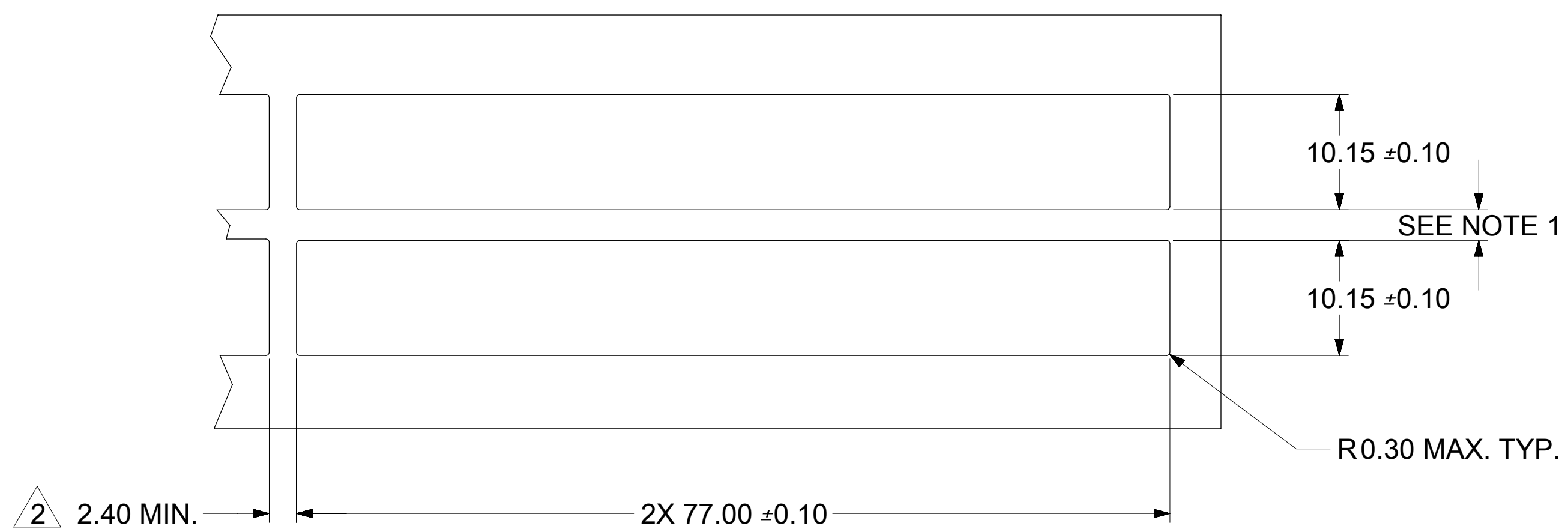
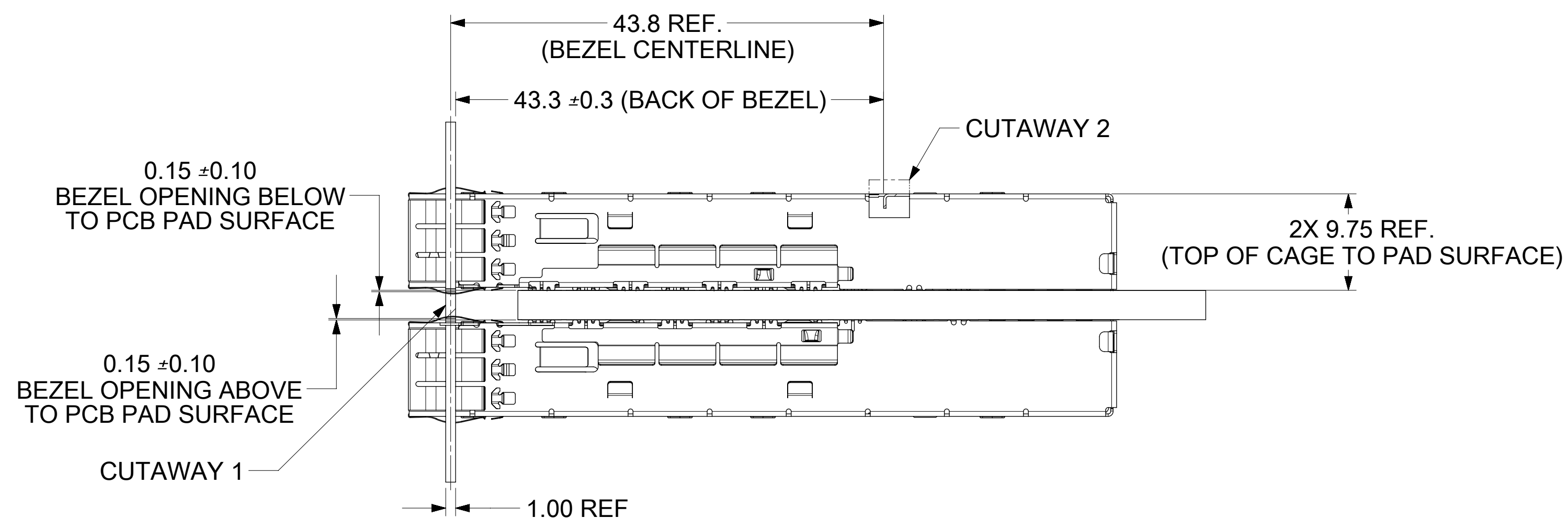
molex

QSFP-DD 1X4 GANGED CAGE ASSY
SF WITH FIN H/S OPTIONS

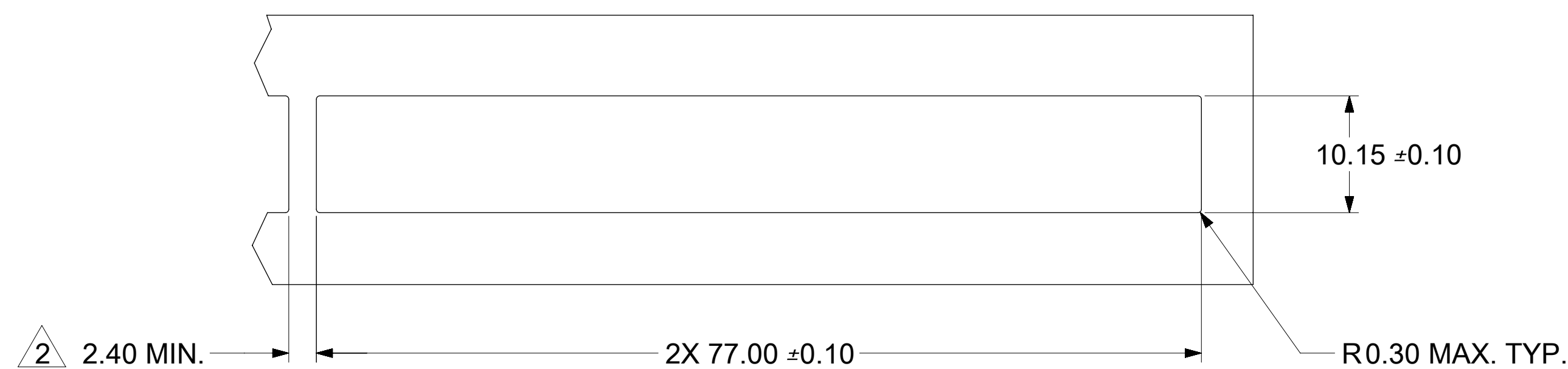
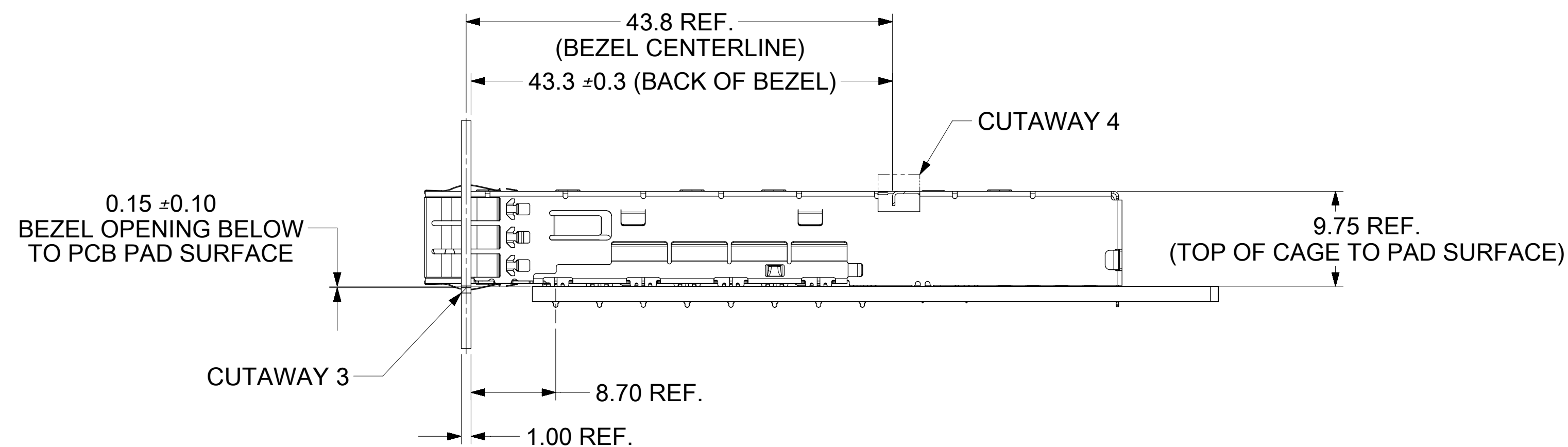
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033701201	PSD	ASY	D3

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.)

SYMBOLS	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
▽ = 0	mm	2.5:1	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL	± 2.0°	
▽ = 0	4 PLACES	±	EC NO: 629406
▽ = 0	3 PLACES	±	DRWN: JYEN01 2019/12/13
▽ = 0	2 PLACES	± 0.13	CHK'D: SCHIEN 2019/12/20
▽ = 0	1 PLACE	± 0.25	APPR: JCHIANG 2019/12/20
▽ = 0	0 PLACES	±	INITIAL REVISION:
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
		D-SIZE	203370
DOCUMENT NUMBER		CUSTOMER	SHEET NUMBER
2033701201		GENERAL MARKET	6 OF 7

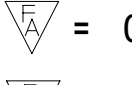
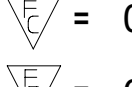
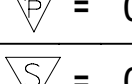

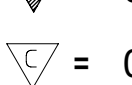
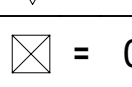

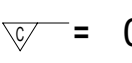
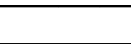
molex

QSFP-DD 1X4 GANGED CAGE ASSY
SF WITH FIN H/S OPTIONS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2033701201	PSD	ASY	D3

REV	DATE	DESCRIPTION
A	2017/07/25	INITIAL RELEASE
A1	2017/08/25	SHEET 3: G11: UPDATED OPEN TOP ISO VIEW.
A2	2017/09/27	MODIFIED THE DOCUMENT TYPE FROM RSD TO SD
B	2017/11/06	SHEET 4: G18: AS PER THE QSFP-DD MSA TO CORRECTED TP TOLERANCE FROM 0.1 TO 0.05mm. J09: AS PER THE QSFP-DD MSA TO ADDED TP TOLERANCE AS 0.05mm AND CHANGED 1.55REF. TO 1.55±0.05mm. SHEET 5: C18: AS PER THE QSFP-DD MSA TO CORRECTED TP TOLERANCE FROM 0.1 TO 0.05mm.
C	2018/02/27	SHEET 1: K17: ADDED DIMENSION 76.85 REF. SHEET 2: D04: ADDED A BACK VIEW. SHEET 4: H18: ADDED "29X" INTO DIMENSION 1.05mm. J09: CHANGED "TYP." TO "8X" OF DIMENSION 1.55mm. K12: AS PER THE QSFP-DD MSA TO ADDED BASIC DIMENSION 16.80 AND DATUM C. H17: UPDATED TRUE POSITION DATUM FROM A, K AND L TO A, L-K AND C. SHEET 5: G17: CHANGED "TYP." TO "53X" OF DIMENSION 1.05mm. K09: AS PER THE QSFP-DD MSA TO ADDED BASIC DIMENSION 16.80 AND DATUM C. G17: UPDATED TRUE POSITION DATUM FROM A, K AND L TO A, L-K AND C
D	2019/05/02	OPEN TOP SERIES PRODUCT RELLOCATED TO DRAWING NUMBER 2033702201. SHEET 3(D16) & SHEET 4(B16) : UPDATE RECOMMEND PCB LAYOUT OF TRACE KEEP-OUT ZONE.
D1	2019/07/10	SHEET 3: ADDED NEW P/Ns(-2XXX, WITH RAISED BASE).
D2	2019/08/01	SHEET 3 : G5 : ADDED A COLUMN FOR TYPES OF HEAT SINK.
D3	2019/12/13	SHEET 6 : E2 & E12 : CHANGED R0.30 TYP. TO R0.30 MAX. TYP. SHEET 6 : H6 & H16 : CHANGED BEZEL THICKNESS FROM 1.60 REF. TO 1.00 REF. SHEET 6 : K6 & K16 : CHANGED FROM 43.0 ±0.3 TO 43.3 ±0.3 SHEET 6 : H6 : CHANGED FROM 8.40 REF. TO 8.70 REF.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	 = 0	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE							molex		
	 = 0	mm	1:1	EC NO: 629406 DRWN: JYEN01 2019/12/13 CHK'D: SCHIEN 2019/12/20 APPR: JCHIANG 2019/12/20									QSFP-DD 1X4 GANGED CAGE ASSY SF WITH FIN H/S OPTIONS
	 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)									INITIAL REVISION: DRWN: MKEMPEGOWDA 2017/07/21 APPR: RCHEN08 2017/08/15		
	 = 0	ANGULAR TOL	± 2.0°	DOCUMENT NUMBER									
	 = 0	4 PLACES	±								2033701201		
	 = 0	3 PLACES	±	MATERIAL NUMBER									
	 = 0	2 PLACES	± 0.13								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
	 = 0	1 PLACE	± 0.25	THIRD ANGLE PROJECTION									
	 = 0	0 PLACES	±								DRAWING		
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING							SERIES			