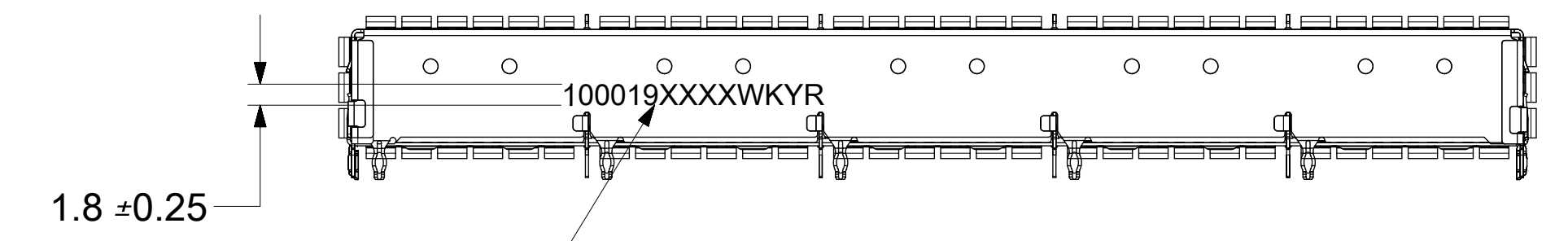
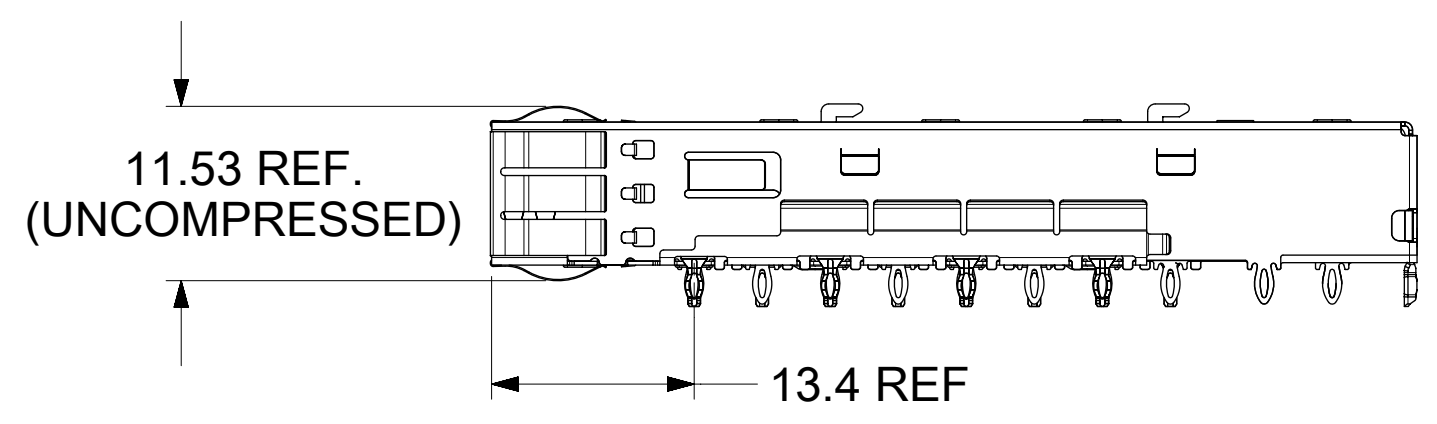
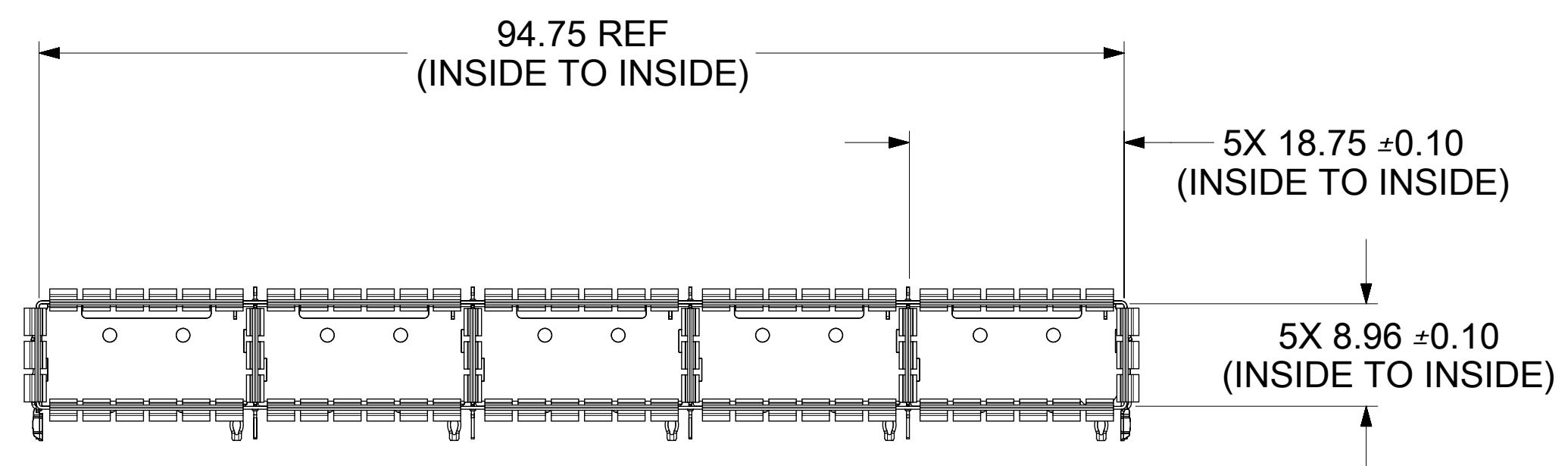
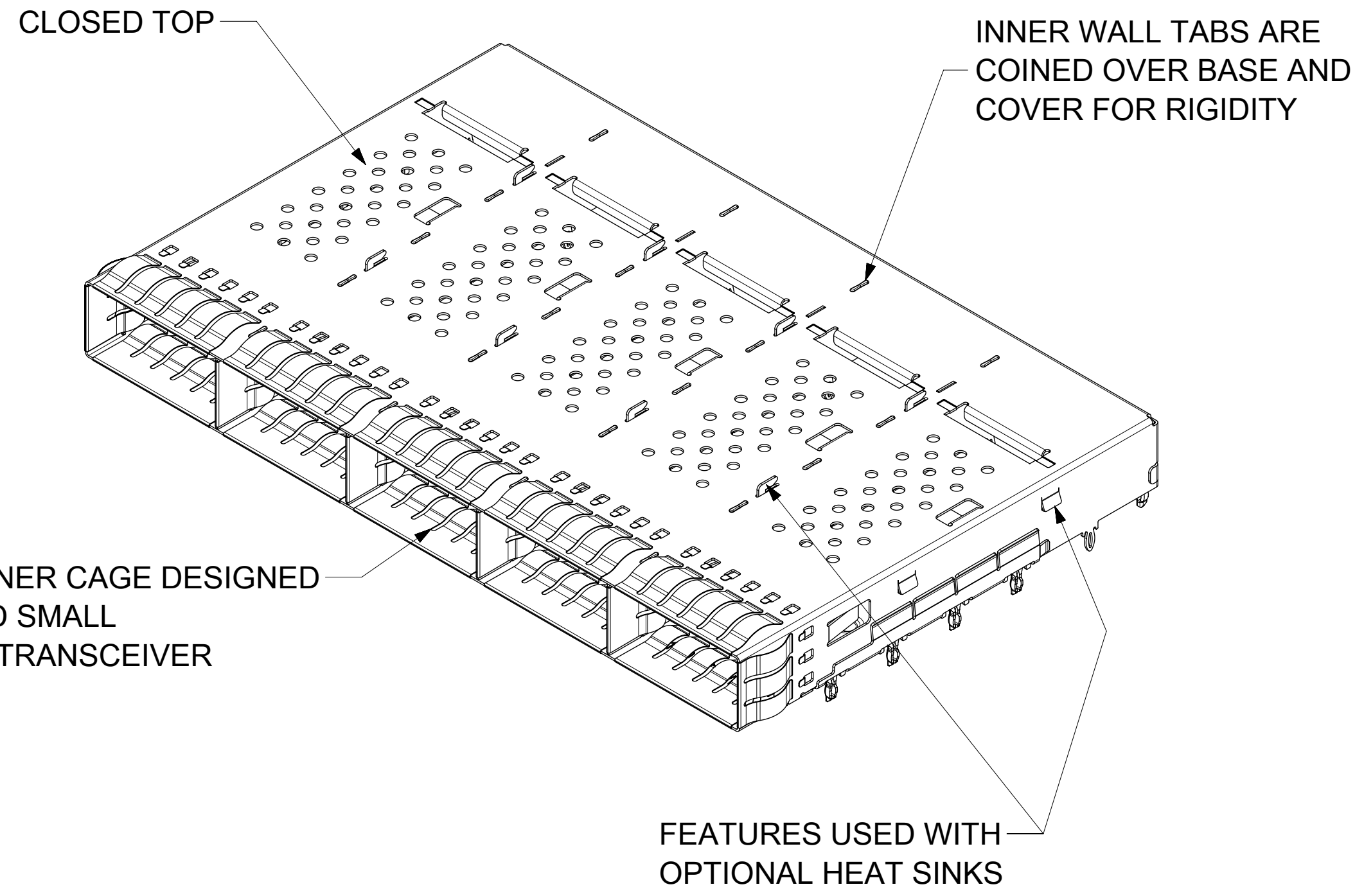
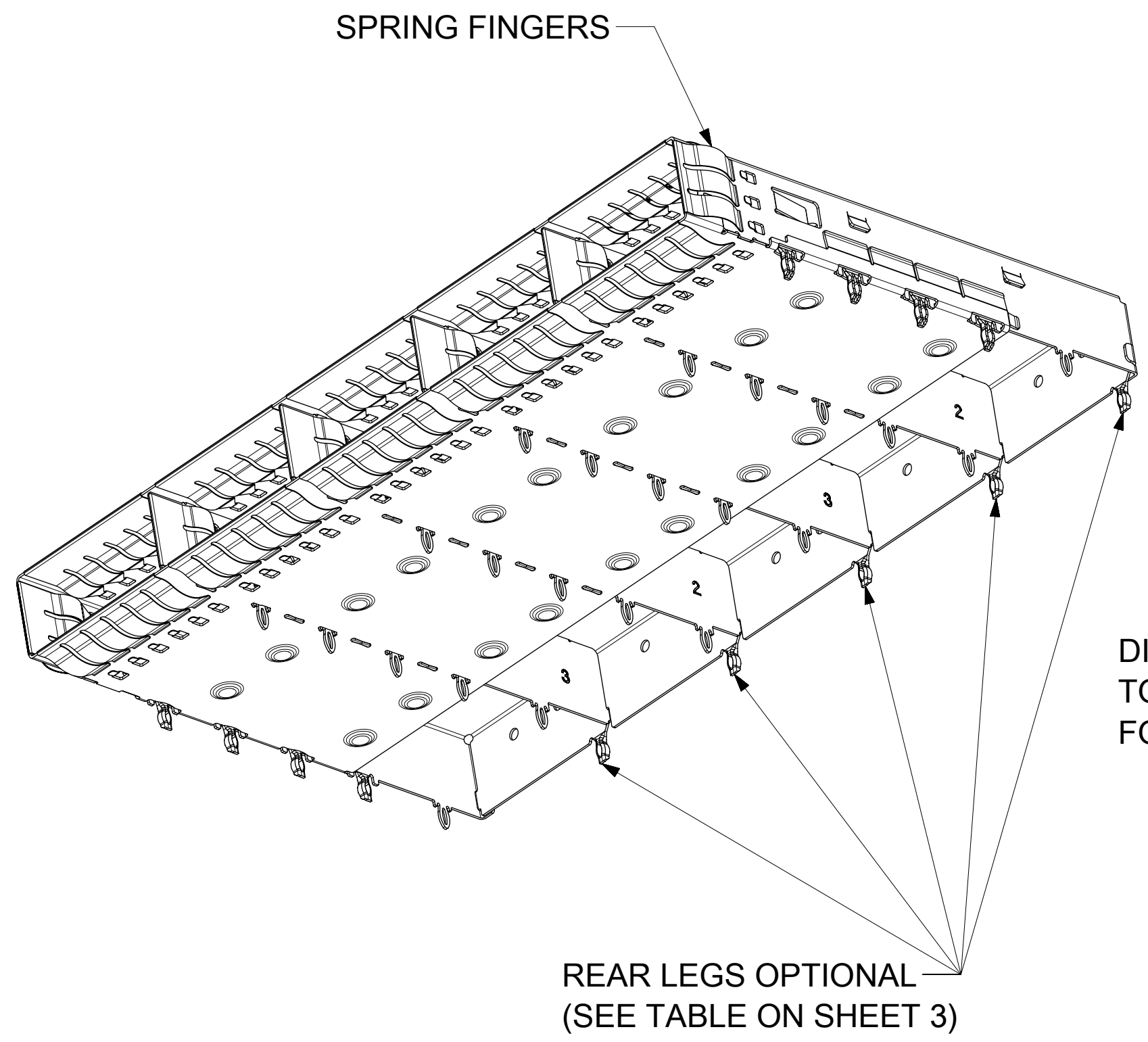
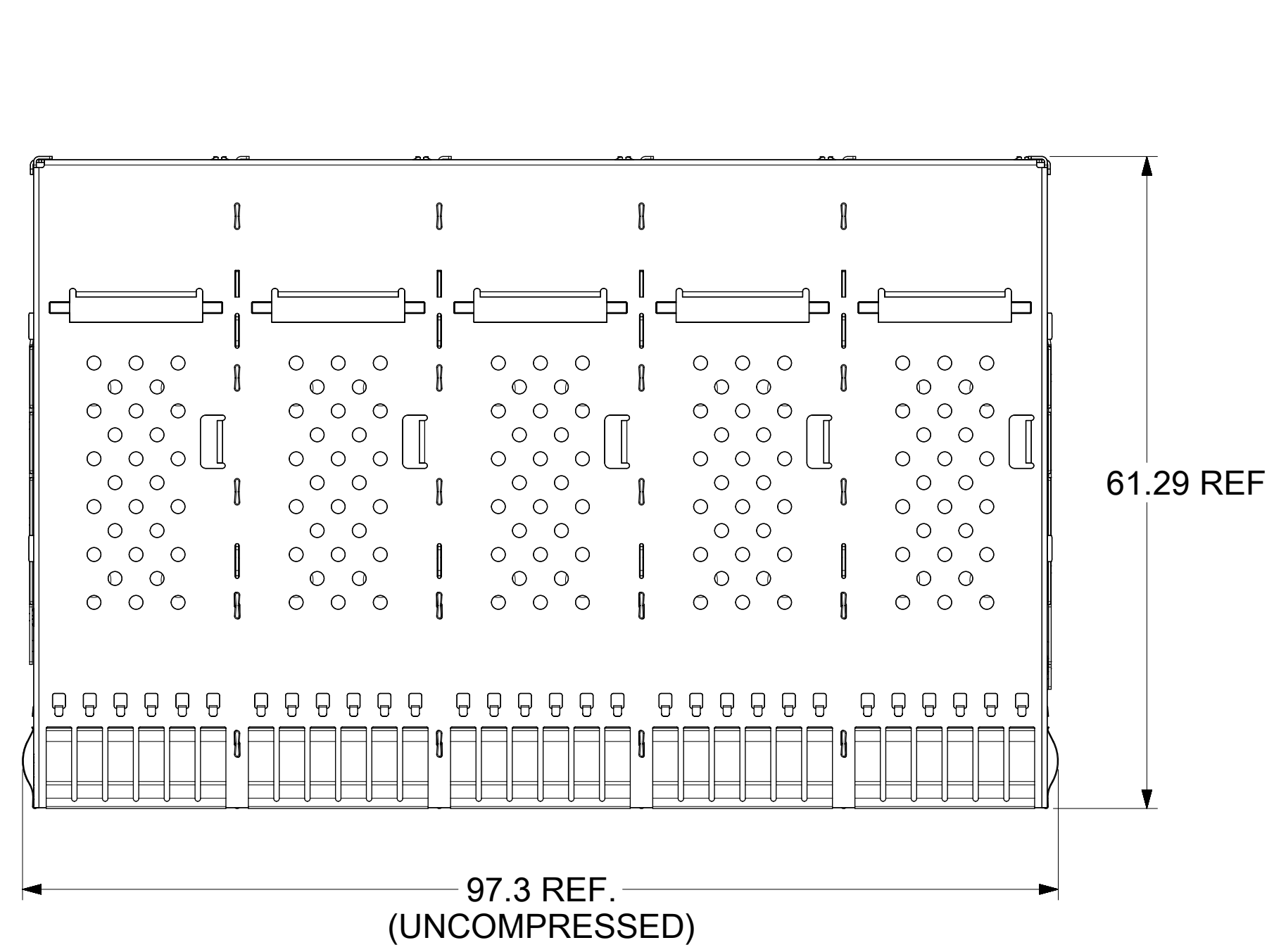


BASIC CAGE DETAILS

1000191242

SHOWN



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

WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	18, 19, 20 ETC.. (EXAMPLE: YEAR 2018= 18)

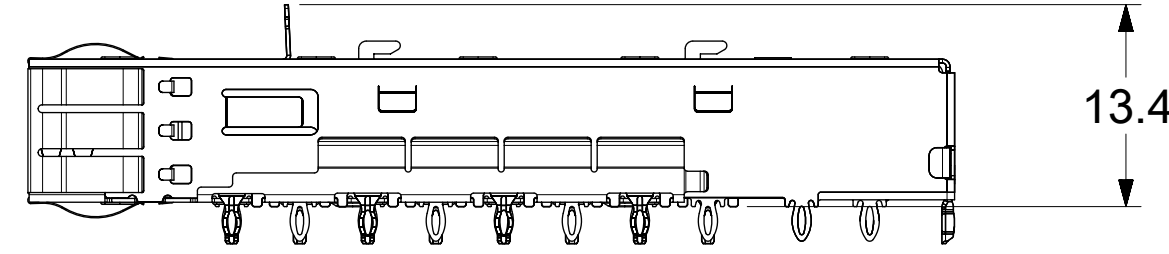
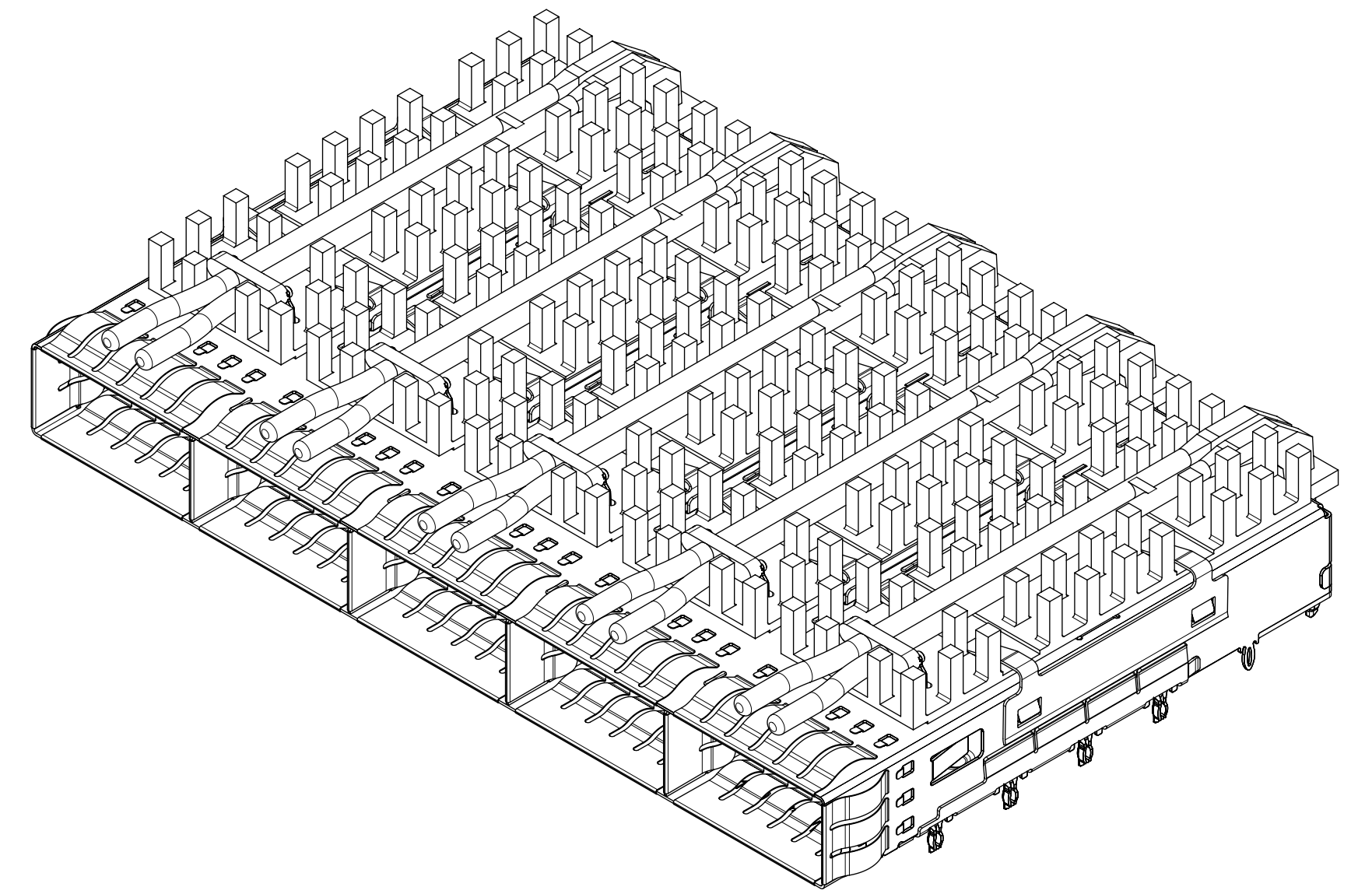
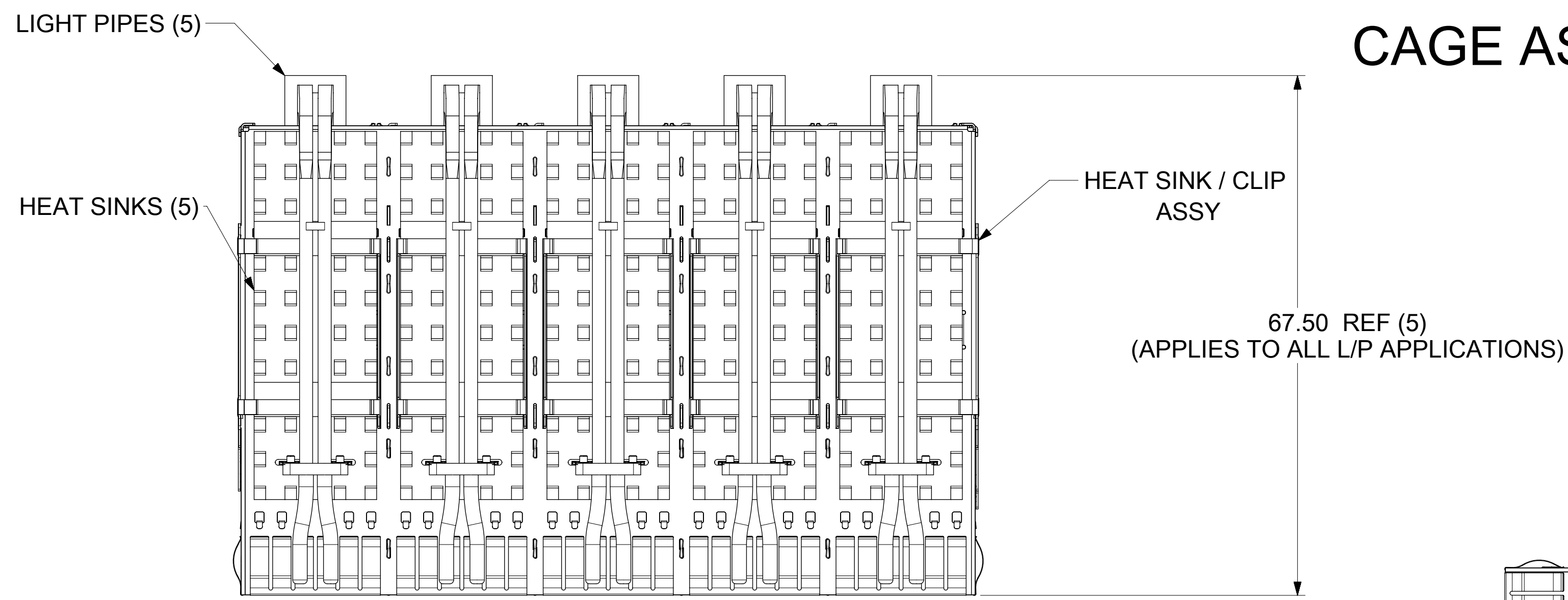
- NOTES:
- MATERIAL: CAGE: STAINLESS STEEL
CENTER WALLS: STAINLESS STEEL
SPRING FINGERS: BERYLLIUM COPPER; NICKEL PLATED
HEAT SINKS: NICKEL PLATED ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
LIGHT PIPES: POLYCARBONATE (UL 94-V-0)
 - DIMENSIONS MARKED ∇ ARE CRITICAL TO FUNCTION OF THE PART AND MUST BE INSPECTED
 - DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
 - DURING INCOMING INSPECTION, CAGE LEG LOCATIONS AND STRAIGHTNESS MUST BE CHECKED USING APPROPRIATE GO - NO GO GAGE
 - DURING INCOMING INSPECTION, CAGE MUST BE INSPECTED TO MAKE SURE LEG CONFIGURATIONS AND PART NUMBERS ARE CORRECT, USE SHEETS 3, 4 AND 5
 - PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
 - PRESS-FIT LEGS 2.44 LONG -
1.57 MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.
3.00 MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
 - NO RoHS EXEMPTIONS.

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	
∇ = 0	mm	SCALE			
∇ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 601540		
∇ = 0	ANGULAR TOL	± 2.0°	DRWN: MKEMPEGOWDA 2018/05/25		
∇ = 0	4 PLACES	±	CHK'D: TKUMARKC 2018/07/17		
∇ = 0	3 PLACES	±	APPR: RCHEN08 2018/07/18		
∇ = 0	2 PLACES	± 0.13	INITIAL REVISION:		
∇ = 0	1 PLACE	± 0.25	DRWN: KNAGANNA 2015/05/28		
∇ = 0	0 PLACES	±	APPR: RCHEN08 2016/01/11		
∇ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
∇ = 0				D-SIZE	100019
DOCUMENT STATUS		P1	RELEASE DATE	2018/07/18	01:26:03
DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION
1000191200		PSD		SD	H
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
SEE P/N TABLE		GENERAL MARKET		1 OF 7	

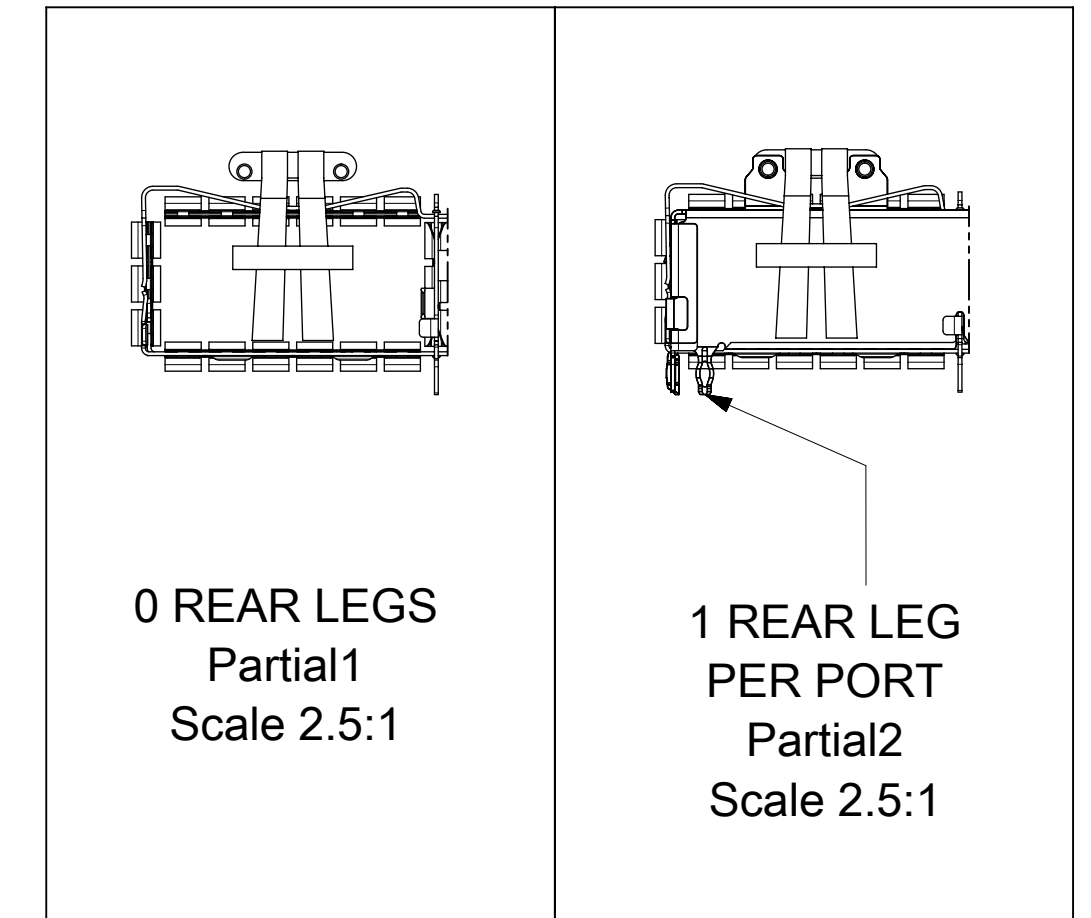
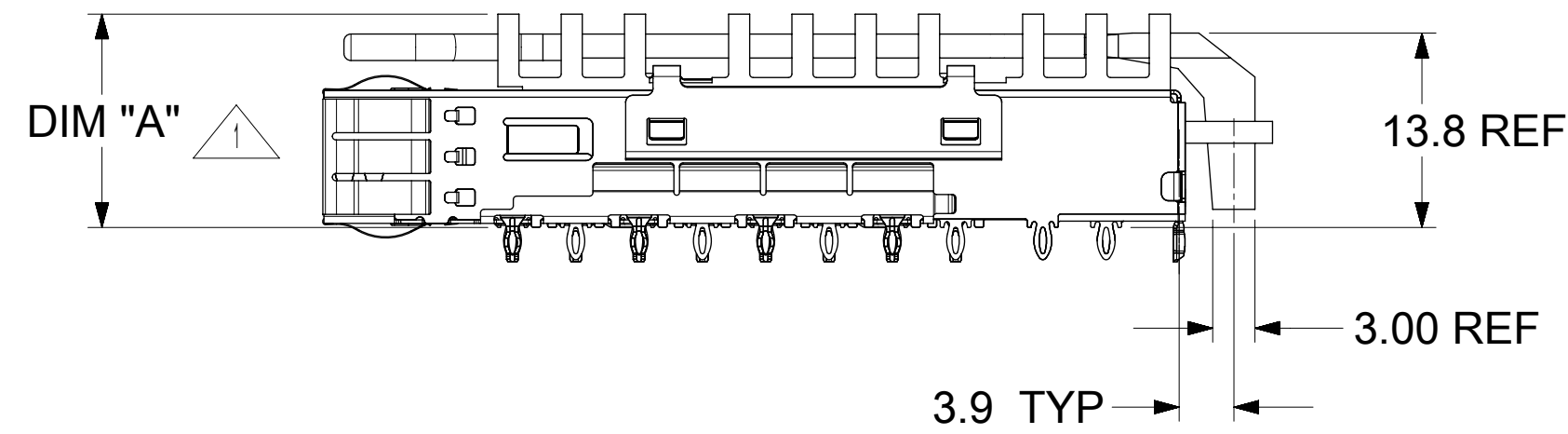
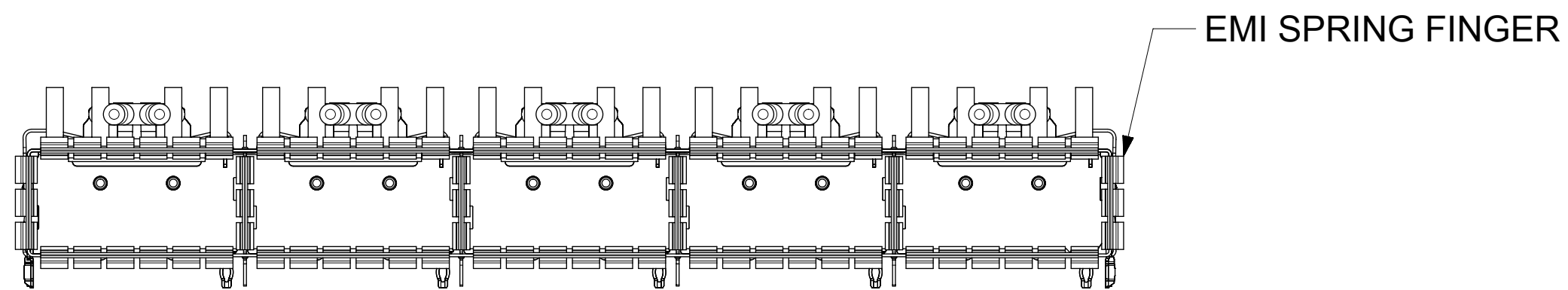
CAGE ASSEMBLY OPTIONS

1000191544

SHOWN

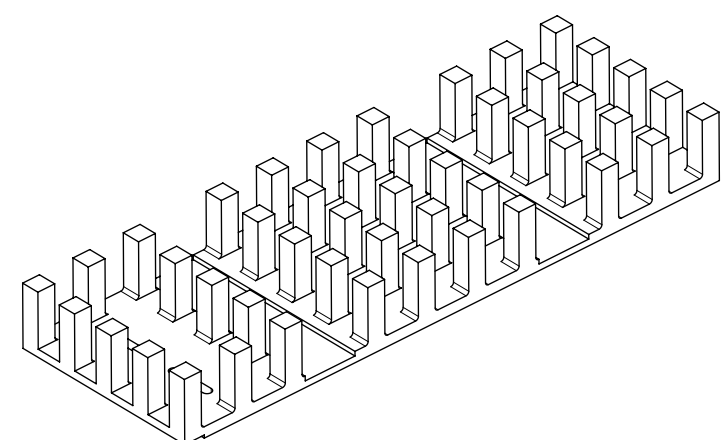


REAR LEG OPTIONS

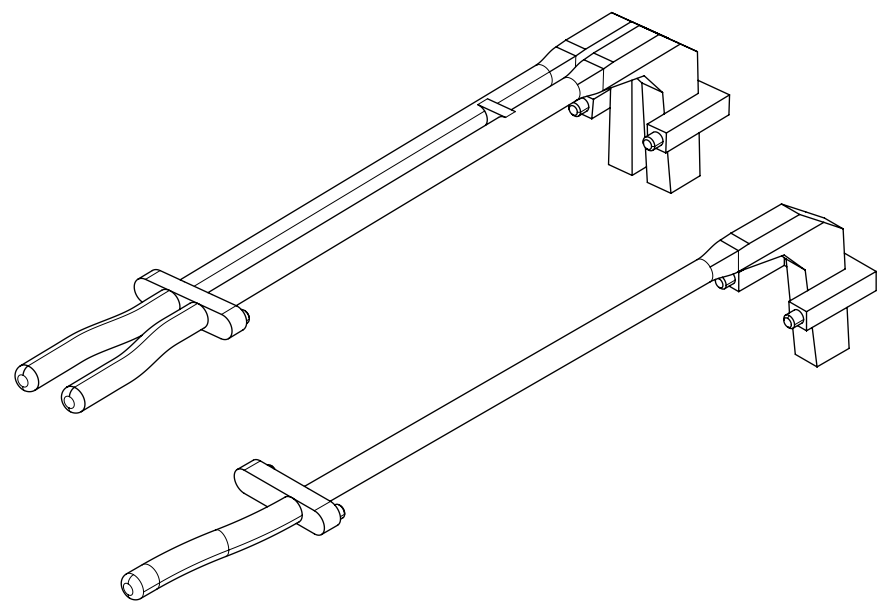


HEATSINK AND LIGHT PIPE COMBINATIONS

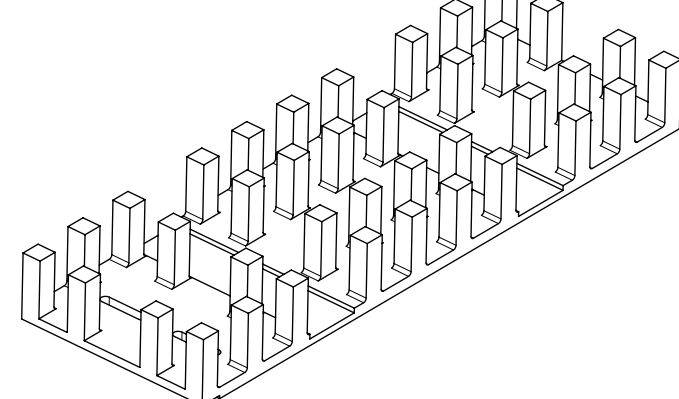
HEATSINK
USED
WITHOUT
LIGHTPIPE



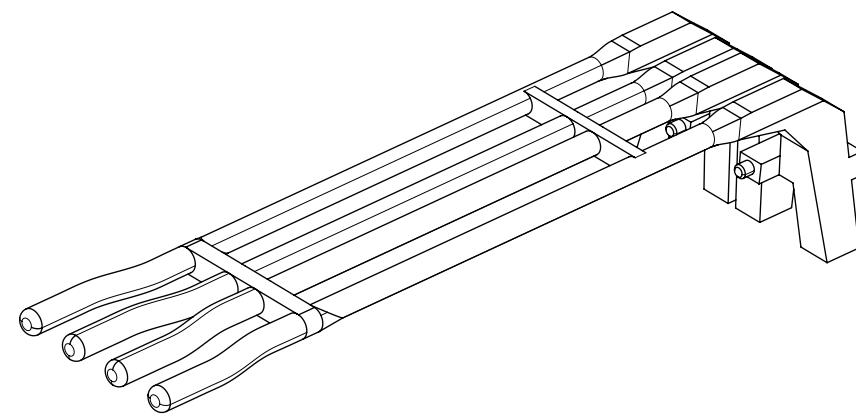
SINGLE / DUAL LIGHT PIPE



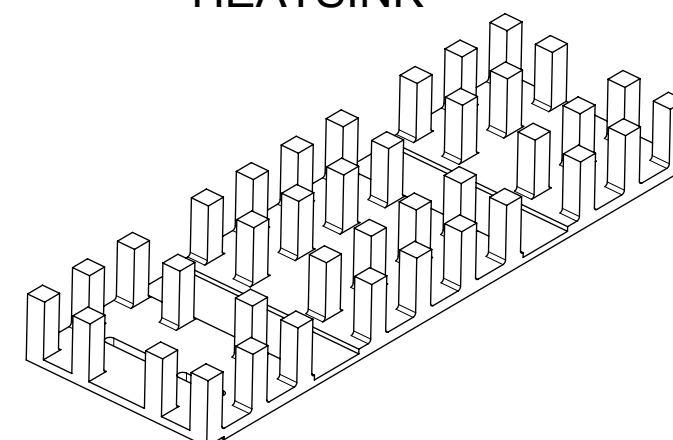
HEATSINK



QUAD LIGHT PIPE



HEATSINK



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

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

SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: mm SCALE:		CURRENT REV DESC: SEE REVISION TABLE		
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL $\pm 2.0^\circ$		EC NO: 601540 DRWN: MKEMPEGOWDA 2018/05/25 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18		
4 PLACES \pm 3 PLACES \pm 2 PLACES ± 0.13 1 PLACE ± 0.25 0 PLACES \pm		INITIAL REVISION: DRWN: KNAGANNA 2015/05/28 APPR: RCHEN08 2016/01/11		molex ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS PRODUCT CUSTOMER DRAWING	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING SERIES D-SIZE 100019	DOCUMENT NUMBER 1000191200	DOC TYPE DOC PART REVISION PSD SD H
DOCUMENT STATUS: P1 RELEASE DATE: 2018/07/18 01:26:03		MATERIAL NUMBER: SEE P/N TABLE CUSTOMER: GENERAL MARKET SHEET NUMBER: 2 OF 7			

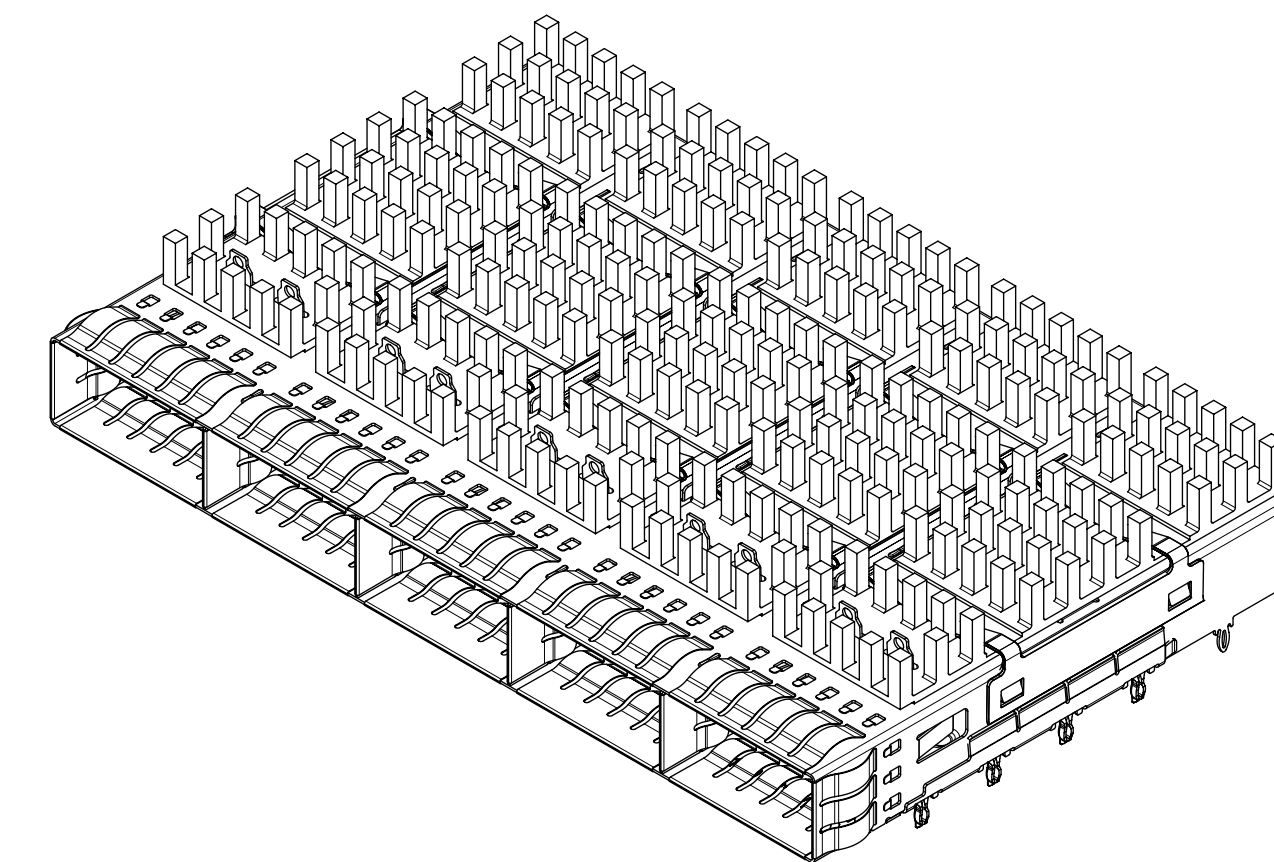
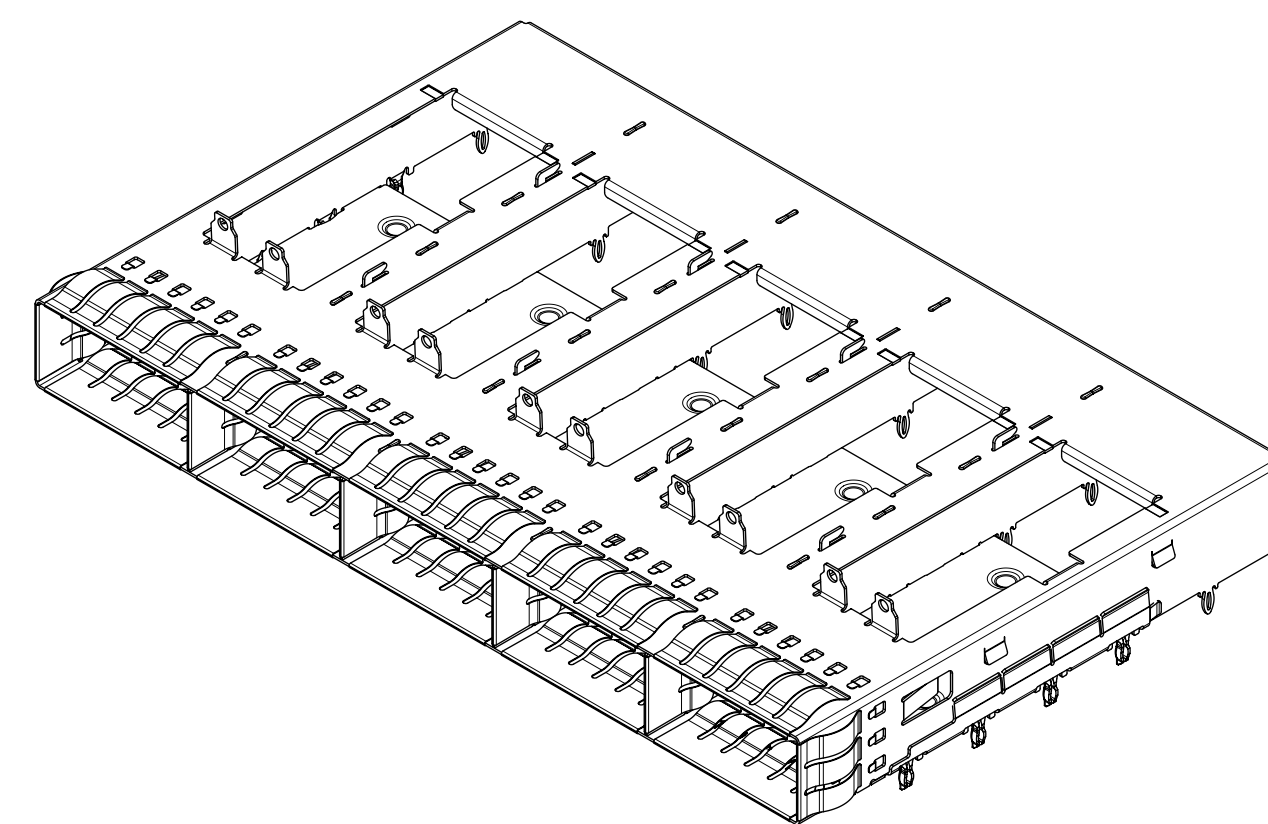
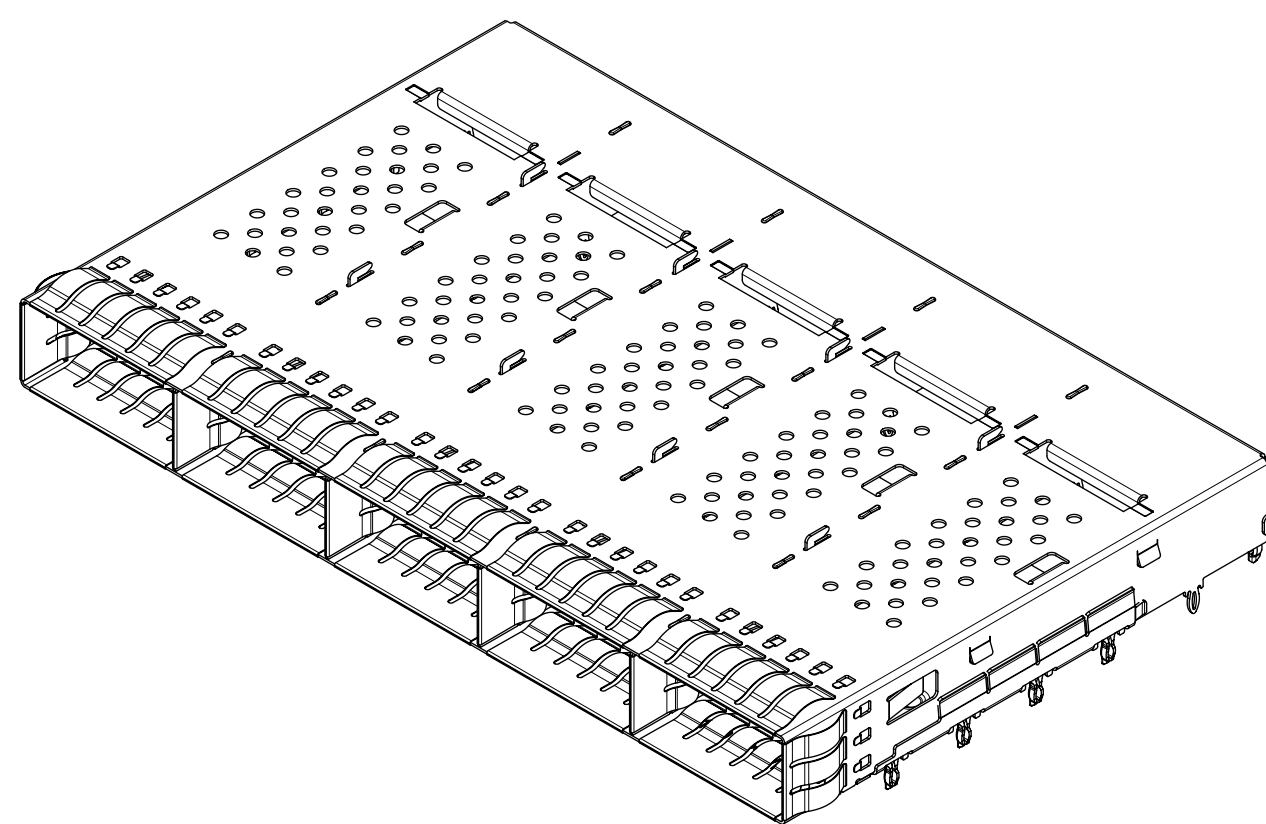
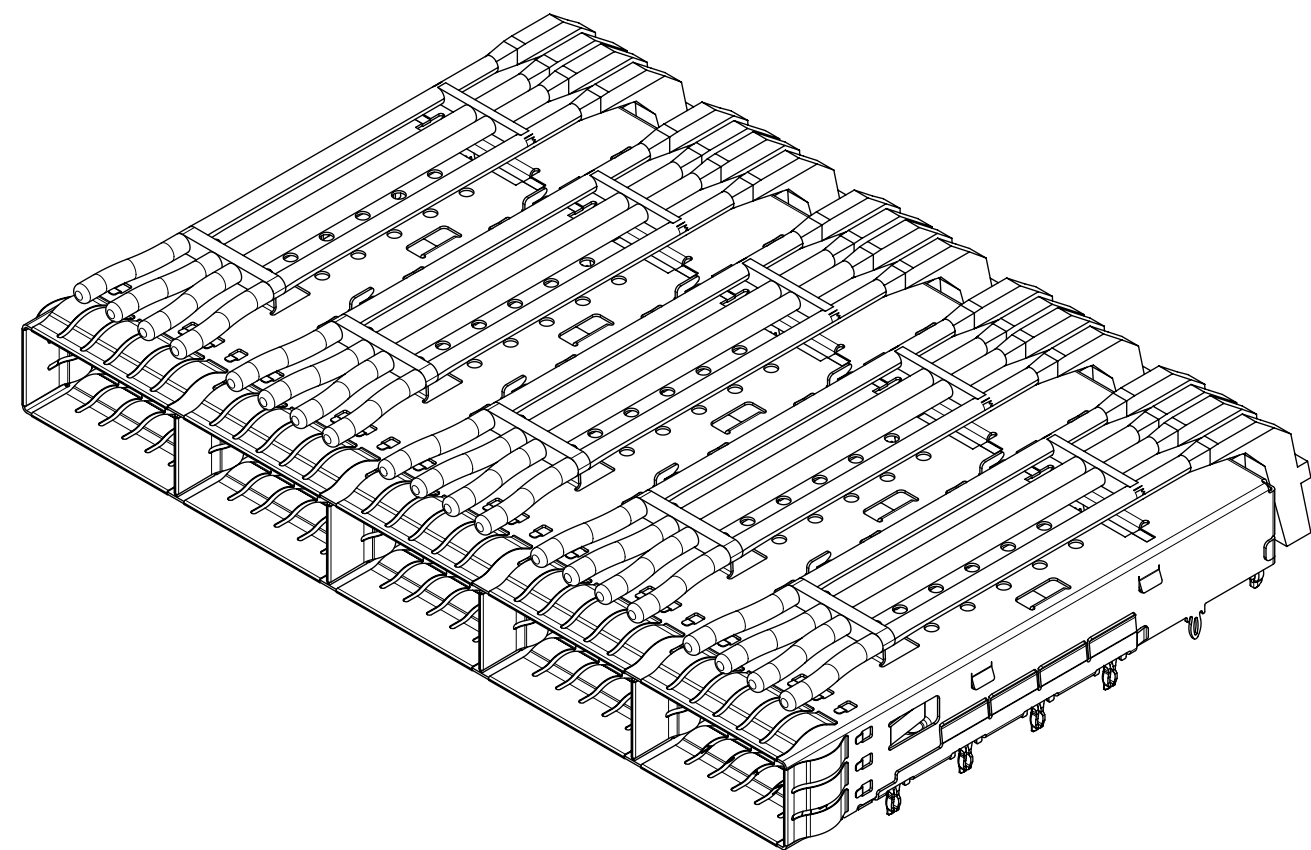
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP

NO HEATSINKS
NO LIGHT PIPES
OPEN TOP

WITH HEATSINKS
NO LIGHT PIPES



MOLEX P/N	LIGHT PIPES	#OF REAR LEGS PER PORT
1000191231	SINGLE	0
1000191232	SINGLE	1
1000191233	DUAL	0
1000191234	DUAL	1
1000191235	QUAD	0
1000191236	QUAD	1

MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000191240	0
1000151242	1

MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000191250	0
1000191252	1

MOLEX P/N	HEAT SINKS	#OF REAR LEGS PER PORT
1000191340	PCI	0
1000191341	SAN	0
1000191342	NET	0
1000191343	PCI	1
1000191344	SAN	1
1000191345	NET	1

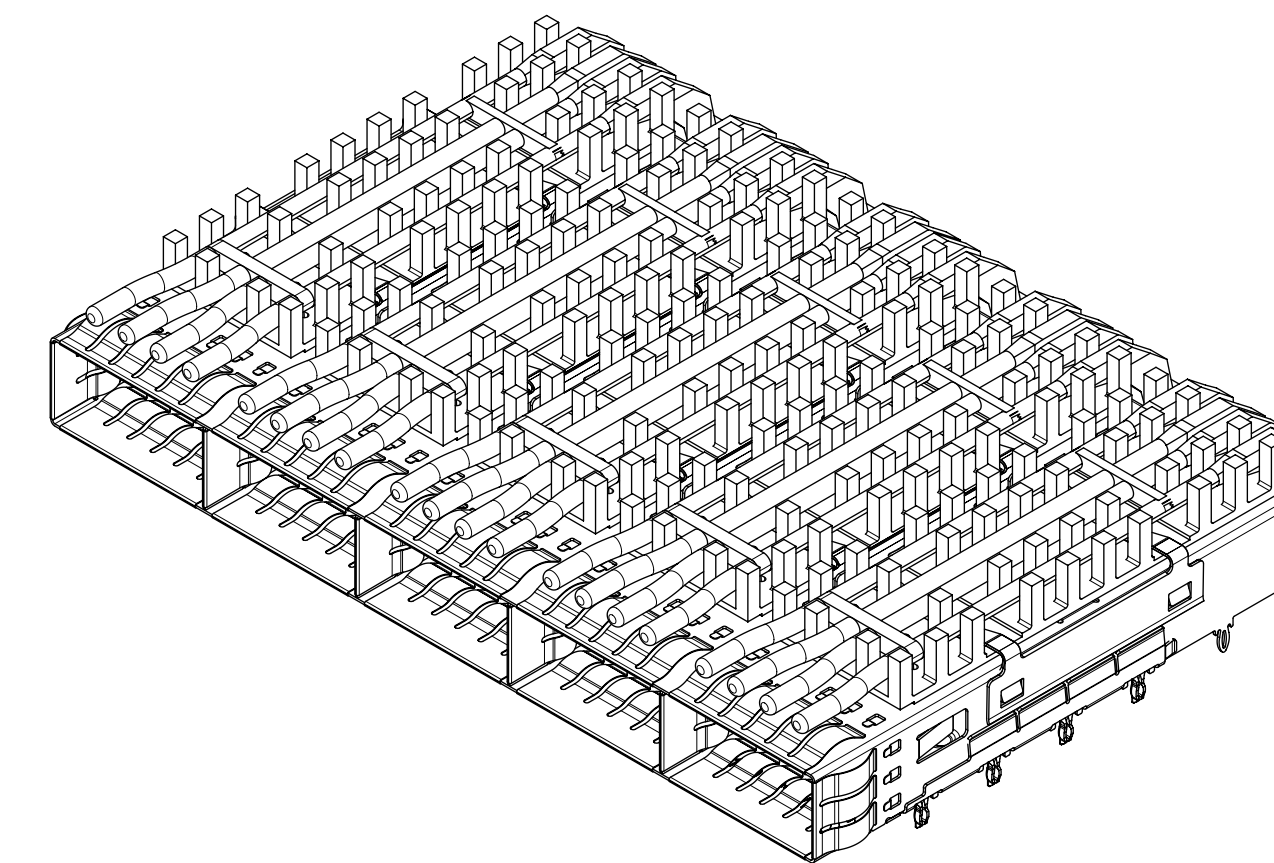
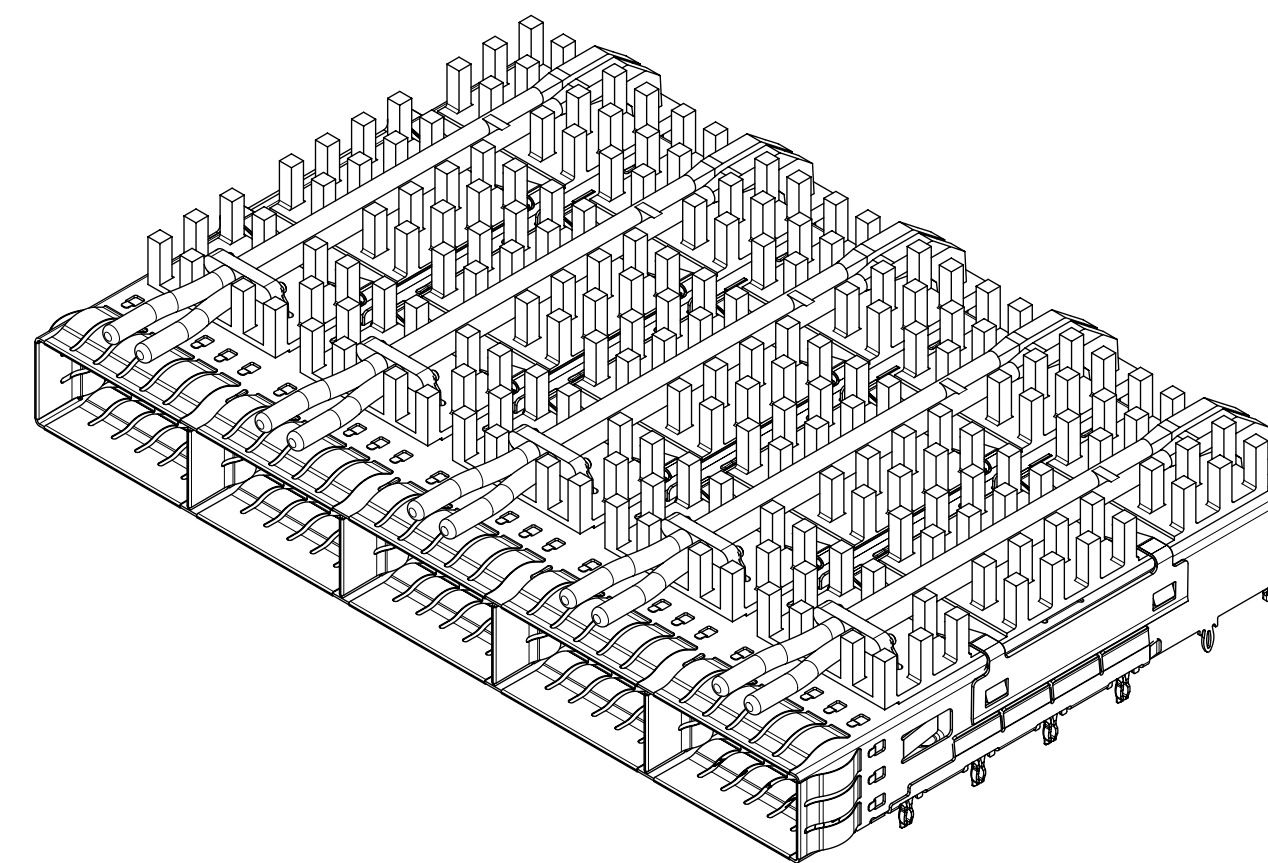
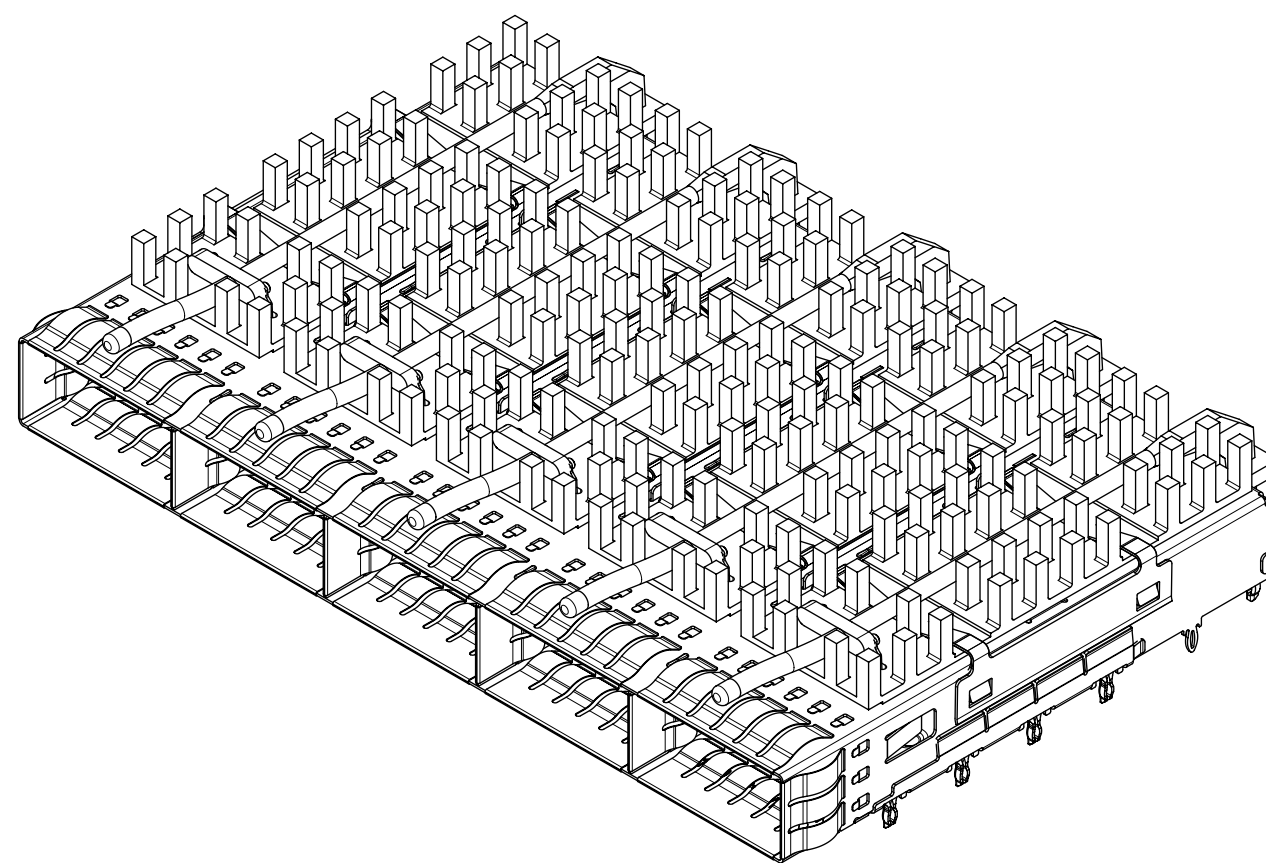
WITH HEATSINKS AND LIGHT PIPES

SINGLE LIGHT PIPE

DUAL LIGHT PIPE

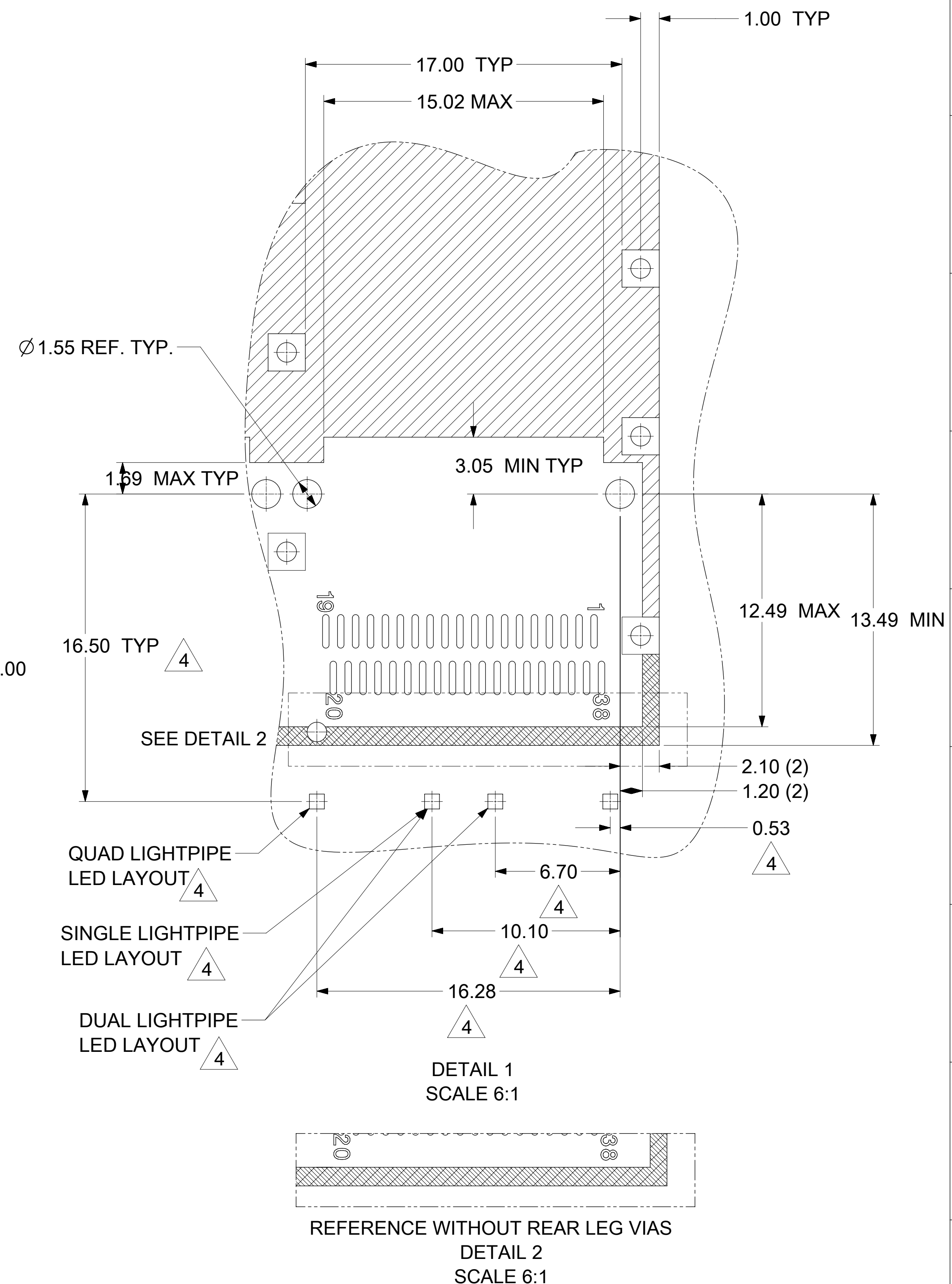
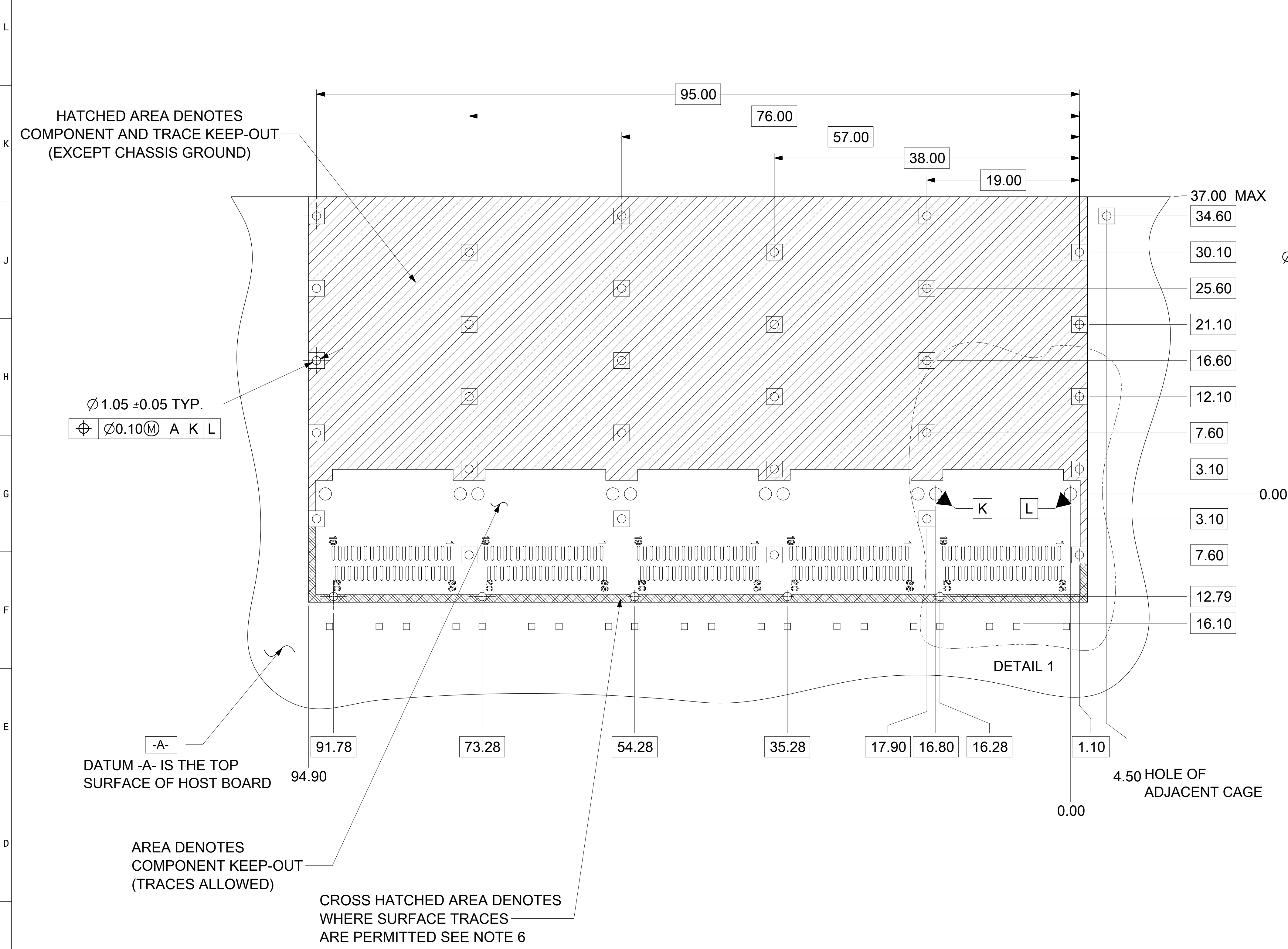
QUAD LIGHT PIPE

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000191440	SINGLE	PCI	0
1000191441	SINGLE	SAN	0
1000191442	SINGLE	NET	0
1000191443	DUAL	PCI	0
1000191444	DUAL	SAN	0
1000191445	DUAL	NET	0
1000191446	QUAD	PCI	0
1000191447	QUAD	SAN	0
1000191448	QUAD	NET	0
1000191540	SINGLE	PCI	1
1000191541	SINGLE	SAN	1
1000191542	SINGLE	NET	1
1000191543	DUAL	PCI	1
1000191544	DUAL	SAN	1
1000191545	DUAL	NET	1
1000191546	QUAD	PCI	1
1000191547	QUAD	SAN	1
1000191548	QUAD	NET	1



SYMBOLS DIMENSION UNITS: mm SCALE: CURRENT REV DESC: SEE REVISION TABLE 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: 601540 DRWN: MKEMPEGOWDA 2018/05/25 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18 INITIAL REVISION: DRWN: KNAGANNA 2015/05/28 APPR: RCHEN08 2016/01/11		 ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS PRODUCT CUSTOMER DRAWING	
	DOCUMENT NUMBER: 1000191200 DOC TYPE: PSD DOC PART: SD REVISION: H			
	MATERIAL NUMBER: SEE P/N TABLE CUSTOMER: GENERAL MARKET		SHEET NUMBER: 3 OF 7	
	D-SIZE 100019			

PCB LAYOUT FOR SINGLE SIDED MOUNTING

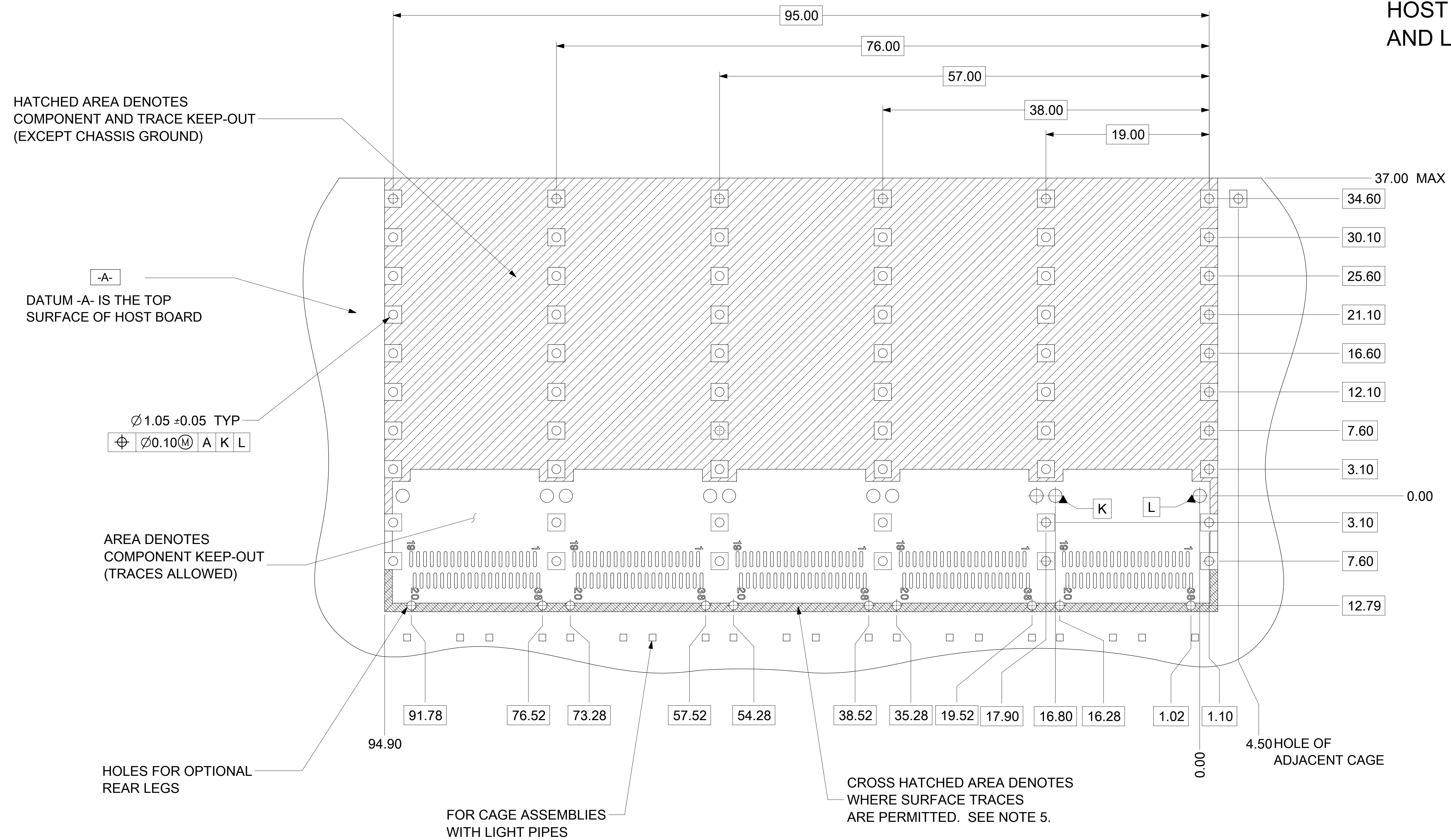


- NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMMODATE MOLEX CONNECTOR SERRIES 170432.
 4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
 5. REFERENCE WHEN REAR LEGS ARE PRESENT. IF NO REAR LEGS, VIA AREA CAN BE USED FOR SURFACE TRACES. SEE SINGLE SIDE LAYOUT, DETAIL 2.

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	mm			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 601540			
▽ = 0	ANGULAR TOL ± 2.0°		DRWN: MKMEPEGOWDA 2018/05/25			
▽ = 0	4 PLACES ±		CHK'D: TKUMARKC 2018/07/17			
▽ = 0	3 PLACES ±		APPR: RCHEN08 2018/07/18			
▽ = 0	2 PLACES ± 0.13		INITIAL REVISION:			
▽ = 0	1 PLACE ± 0.25		DRWN: KNAGANNA 2015/05/28			
▽ = 0	0 PLACES ±		APPR: RCHEN08 2016/01/11			
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
▽ = 0			D-DRAWING	D-SIZE	100019	SEE P/N TABLE
			CUSTOMER		GENERAL MARKET	
DOCUMENT STATUS			DOCUMENT NUMBER		DOC TYPE	
P1			1000191200		PSD	
RELEASE DATE			DOC PART		SD	
2018/07/18 01:26:03			REVISION		H	
			SHEET NUMBER		4 OF 7	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

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



NOTES:

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERRIES 170432.
4. REFERENCE WHEN REAR LEGS ARE PRESENT. IF NO REAR LEGS, VIA AREA CAN BE USED FOR SURFACE TRACES. SEE SINGLE SIDE LAYOUT, DETAIL 2 ON SHEET 4.

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
▽ = 0	mm	DIMENSION UNITS	SCALE
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	CURRENT REV DESC: SEE REVISION TABLE	
▽ = 0	ANGULAR TOL ± 2.0°	EC NO: 601540	
▽ = 0	4 PLACES ±	DRWN: MKEMPEGOWDA	2018/05/25
▽ = 0	3 PLACES ±	CHK'D: TKUMARKC	2018/07/17
▽ = 0	2 PLACES ± 0.13	APPR: RCHEN08	2018/07/18
▽ = 0	1 PLACE ± 0.25	INITIAL REVISION:	
▽ = 0	0 PLACES ±	DRWN: KNAGANNA	2015/05/28
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPR: RCHEN08	2016/01/11
THIRD ANGLE PROJECTION		DRAWING	SERIES
D-SIZE		100019	MATERIAL NUMBER
SEE P/N TABLE		GENERAL MARKET	CUSTOMER
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000191200		PSD	SD
REVISION		SHEET NUMBER	
H		5 OF 7	

molex

ZQSFP+ 1X5 GANGED CAGE
ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS

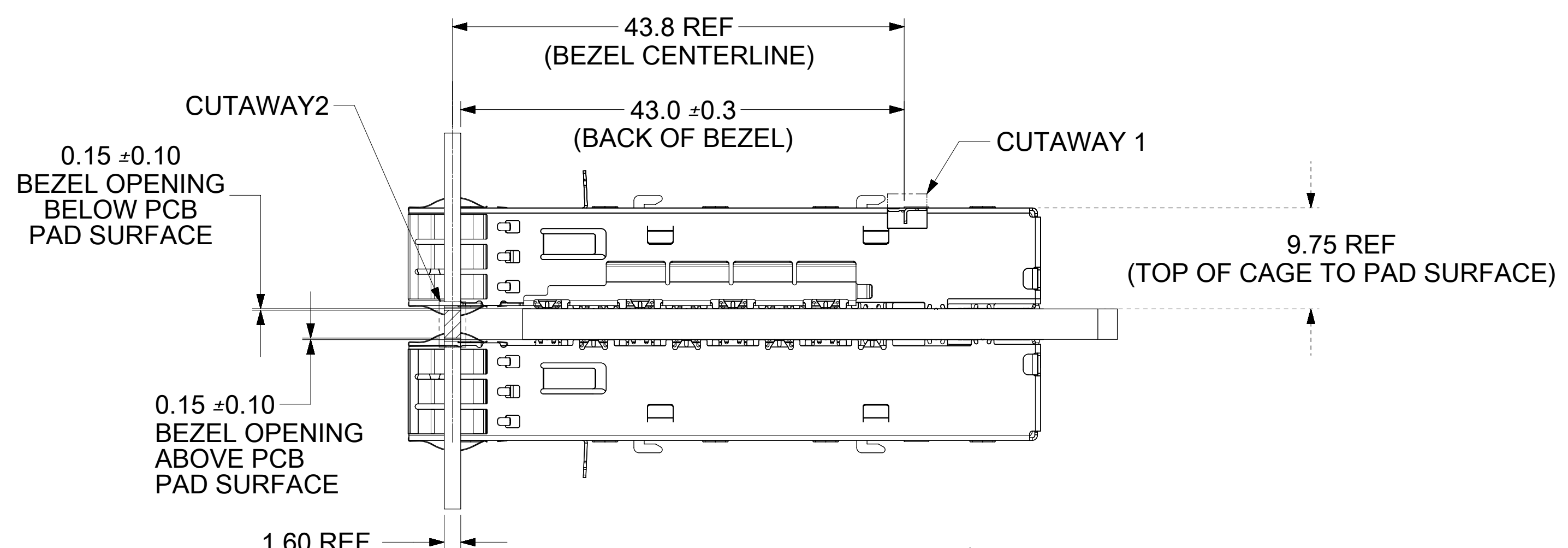
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER DOC TYPE DOC PART REVISION

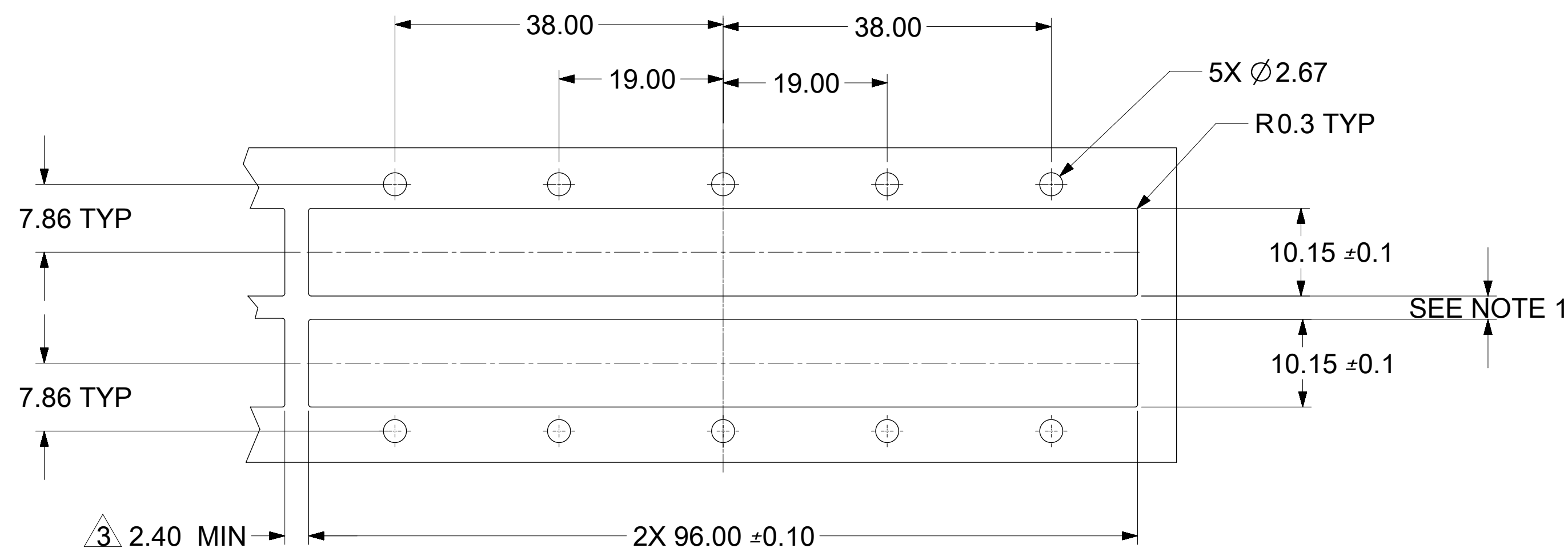
1000191200

SEE P/N TABLE GENERAL MARKET

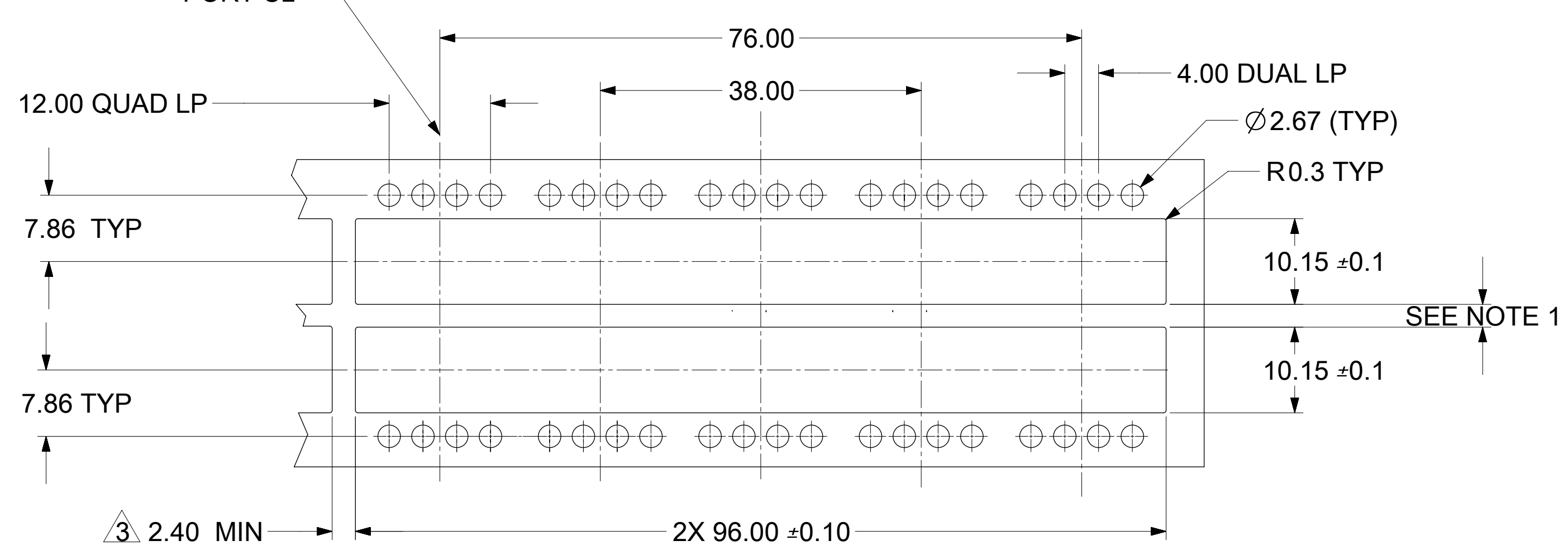
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



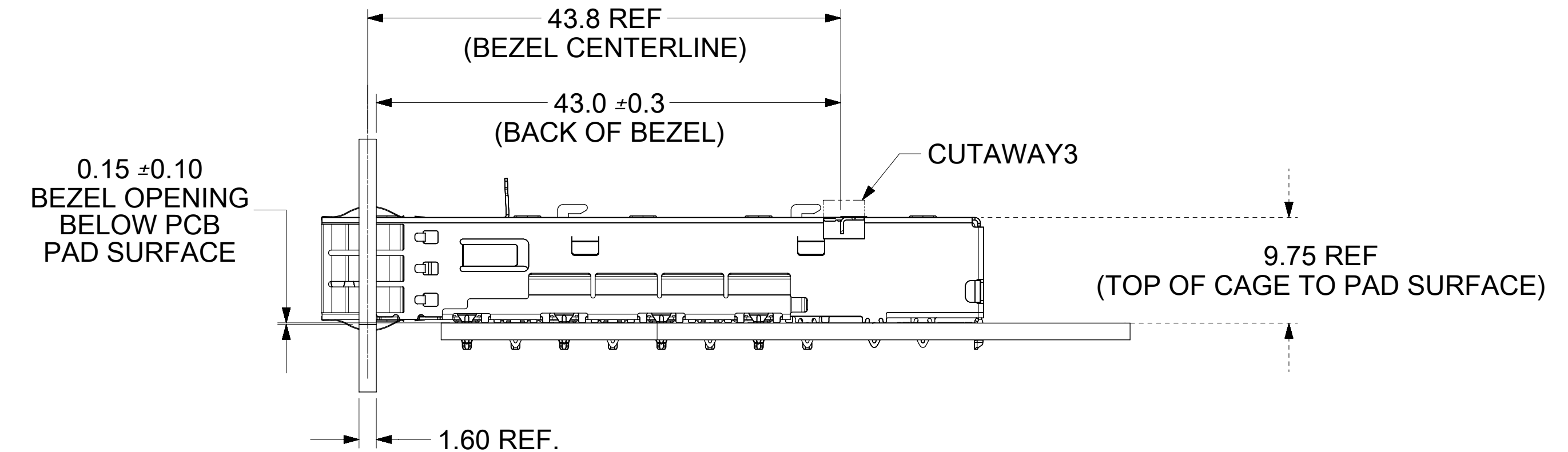
SINGLE LIGHT PIPE



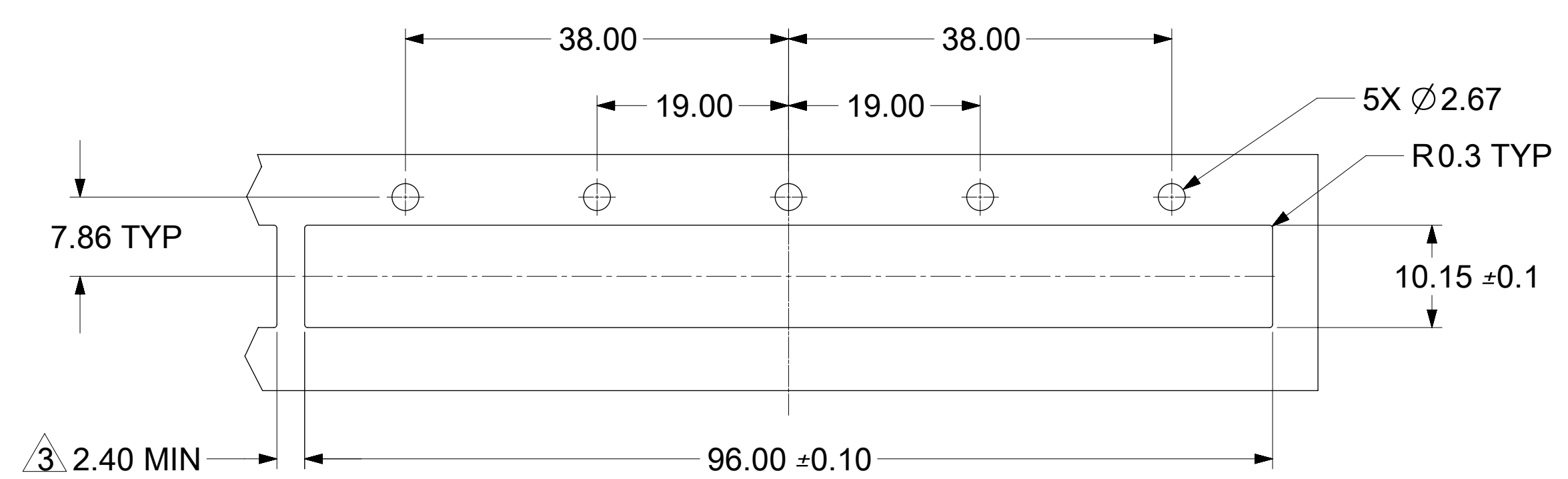
DUAL/QUAD LIGHT PIPE



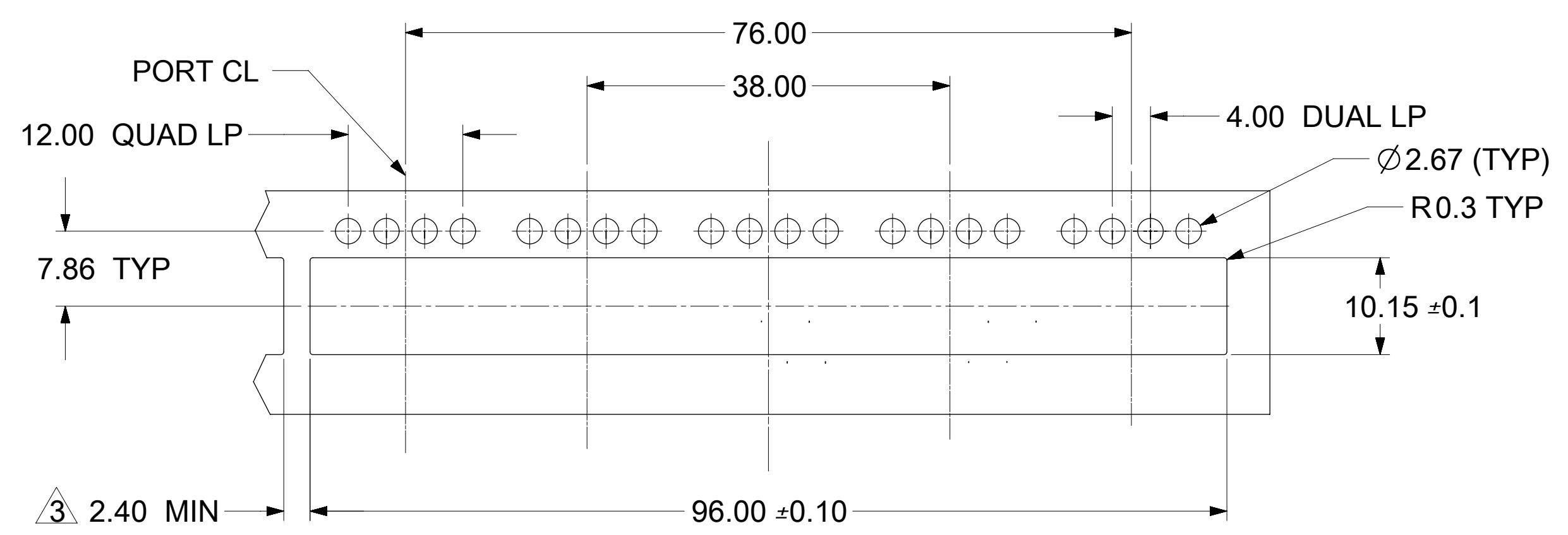
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



SINGLE LIGHT PIPE



DUAL/QUAD LIGHT PIPE



NOTE:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
 2. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
 3. 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		EC NO: 601540 DRWN: MKEMPEGOWDA 2018/05/25 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18 INITIAL REVISION: DRWN: KNAGANNA 2015/05/28 APPR: RCHEN08 2016/01/11
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL ± 2.0°		
▽ = 0	4 PLACES	±	
▽ = 0	3 PLACES	±	
▽ = 0	2 PLACES	± 0.13	DOCUMENT NUMBER 1000191200
▽ = 0	1 PLACE	± 0.25	
▽ = 0	0 PLACES	±	DOC PART SD
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		REVISION H
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SHEET NUMBER 6 OF 7
		D-SIZE	MATERIAL NUMBER SEE P/N TABLE
		SERIES 100019	CUSTOMER GENERAL MARKET

molex

ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER DOC TYPE DOC PART REVISION

1000191200 PSD SD H

MATERIAL NUMBER CUSTOMER SHEET NUMBER

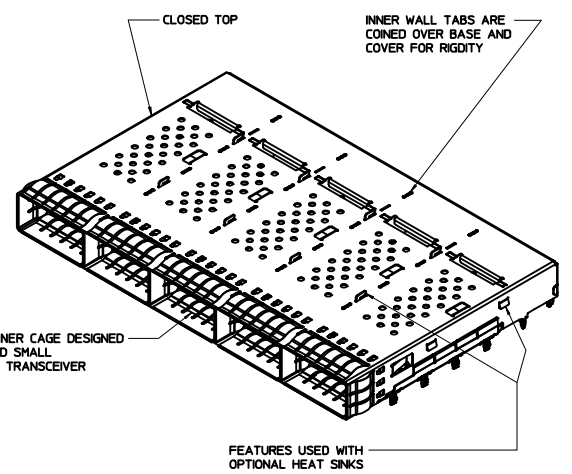
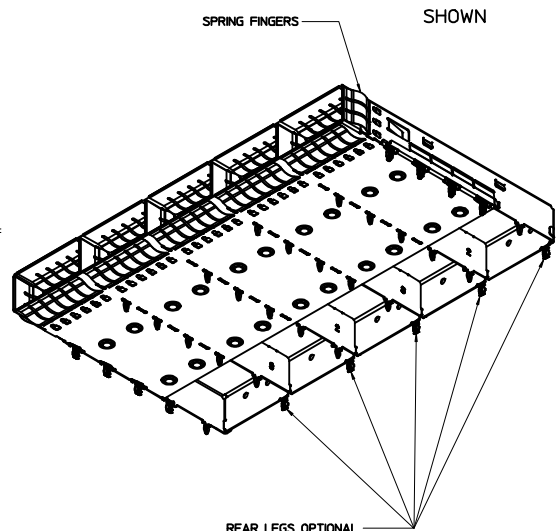
SEE P/N TABLE GENERAL MARKET 6 OF 7

REV	DATE	DESCRIPTION
A	2013/03/29	RELEASE
B	2013/06/26	ADDED DIM 12.77 AT G-9 ON SHEET 4.
C	2014/03/17	SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED ALLOWABLE AREA WHERE SURFACE TRACES ARE PERMITTED. REMOVED "HOLE PATTERN REPEATS FOR EACH PORT." FROM NOTE 4
D	2014/07/15	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	2014/10/06	SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J12: DIM 67.48 CHANGED TO REF SHEET 4: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS SHEET 5: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS H17: MADE HOLE DIAMETER DIMENSION TYP SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
F	2015/04/14	SHEET 4: REVISED DIM "WAS" 12.77 "NOW" 12.79 @G9 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 @E4, @F3,@F6, @G3, @G6,AND @I7 REMOVED NOTE 4 RENUMBERED NOTE 6 TO NOTE 5 SHEET 5: REVISED DIM "WAS" 12.77 "NOW" 12.79 @F7 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REMOVED NOTE 4 @A20 REMOVED SEE NOTE 4 AND ADDED DIMS @K7, @K8, @L9, @L10, AND @L11 SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL @E17 AND @ EF8
G	2015/04/22	REMASTERED FROM SD-100019-1200_REV'F'
G1	2016/01/07	CHANGED DOCUMENT FROM RSD TO SD
G2	2018/03/02	SHEET 1: D10: ADDED DIM 13.4 REF SHEET 4: E07: CORRECTED TYPO NOTIFICATIN FROM "QUAD LIGHTPIPE LED LAYOUT" TO "SNGEL LIGHTPIPE LED LAYOUT" F07: CORRECTED TYPO NOTIFICATION FROM "SINGEL LIGHTPIPE LED LAYOUT" TO QUAD LIGHTPIPE LED LAYOUT" SHEET 5: D09: ADDED BASIC DIM 19.52, 35.28 & 38.52 D11: ADDED BASIC DIM 54.28 & 57.52 D13: ADDED BASIC DIM 73.28 & 76.52 D14: ADDED BASIC DIM 91.78 D15: DELETE D15 ON SHEET 5 SHEET 6: J18: ADDED DIM 0.15±0.10 (BEZEL OPENING ABOVE PCB PAD SURFACE) K12: CORRECTED THE DIM FROM 9.78 REF TO 9.75 REF K03: CORRECTED THE DIM FROM 9.78 REF TO 9.75 REF G12: CORRECTED THE TOL OF DIM 10.15 FROM ±0.20 TO ±0.1 F12: CORRECTED THE TOL OF DIM 10.15 FROM ±0.20 TO ±0.1 C12: CORRECTED THE TOL OF DIM 10.15 FROM ±0.20 TO ±0.1 G03: CORRECTED THE TOL OF DIM 10.15 FROM ±0.20 TO ±0.1 D03: CORRECTED THE TOL OF DIM 10.15 FROM ±0.20 TO ±0.1 G03: ADDED DIM R0.3 TYP IN ALL BEZEL VIEWS D11: CORRECTED THE DIM 2.75 MIN TO 2.40 MIN IN ALL BEZEL VIEWS A12: ADDED NOTE 3: "THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. (THIS DIMENSION VARIES BASED ON DISTANCE OF " HOLE OF ADIACENT CAGE" ON PCB LAYOUT.)
H	2018/05/28	SHEET 4: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION. SHEET 5: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION.

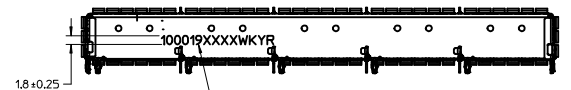
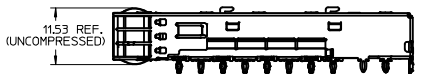
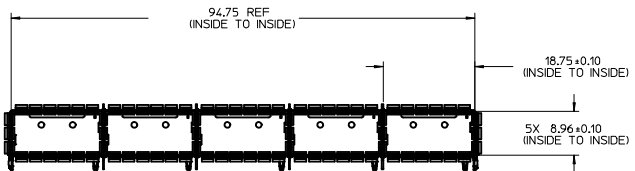
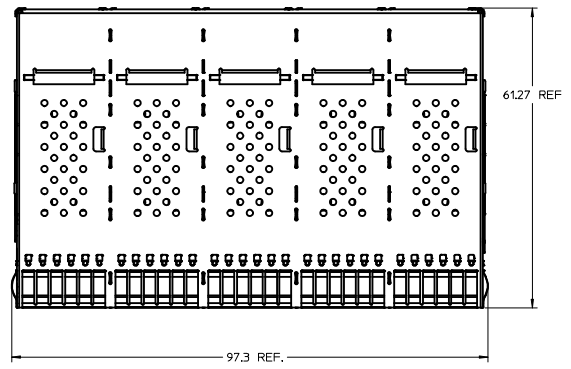
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
	DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE					
	mm				<p>molex</p> <p>ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>DOCUMENT NUMBER: 1000191200 DOC TYPE: PSD DOC PART: SD REVISION: H</p> <p>EC NO: 601540 DRWN: MKEMPEGOWDA 2018/05/25 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18</p> <p>INITIAL REVISION: DRWN: KNAGANNA 2015/05/28 APPR: RCHEN08 2016/01/11</p> <p>DRAFT WHERE APPLICABLE THIRD ANGLE PROJECTION DRAWING SERIES MATERIAL NUMBER CUSTOMER SHEET NUMBER MUST REMAIN WITHIN DIMENSIONS D-SIZE 100019 SEE P/N TABLE GENERAL MARKET 7 OF 7</p>					
	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										

BASE CAGE DETAILS

1000191242



DIMENSIONS OF EACH INNER CAGE DESIGNED TO FUNCTION WITH QUAD SMALL FORM-FACTOR (ZQSFP+) TRANSCEIVER



P/N AND WEEK/YEAR DATE CODE TO BE PRINTED ON BACK 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: BERYLLIUM COPPER, NICKEL PLATED
HEAT SINKS: NICKEL PLATED ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
LIGHT PIPES: POLYCARBONATE (UL 94-V-0)
 - DIMENSIONS MARKED ▼ ARE CRITICAL TO FUNCTION OF THE PART AND MUST BE INSPECTED
 - DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
 - DURING INCOMING INSPECTION, CAGE LEG LOCATIONS AND STRAIGHTNESS MUST BE CHECKED USING APPROPRIATE GO - NO GO GAGE
 - DURING INCOMING INSPECTION, CAGE MUST BE INSPECTED TO MAKE SURE LEG CONFIGURATIONS AND PART NUMBERS ARE CORRECT, USE SHEETS 3, 4 AND 5
 - PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
 - PRESS-FIT LEGS 2.44 [0.096] LONG -
1.57 [0.062] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.
3.00 [0.118] MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
 - NO ROHS EXEMPTIONS.

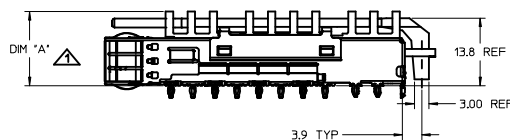
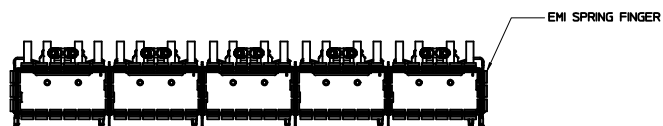
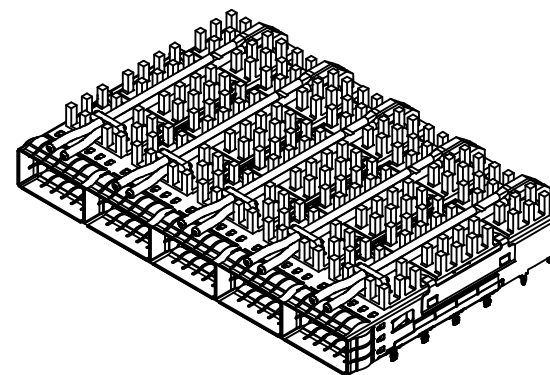
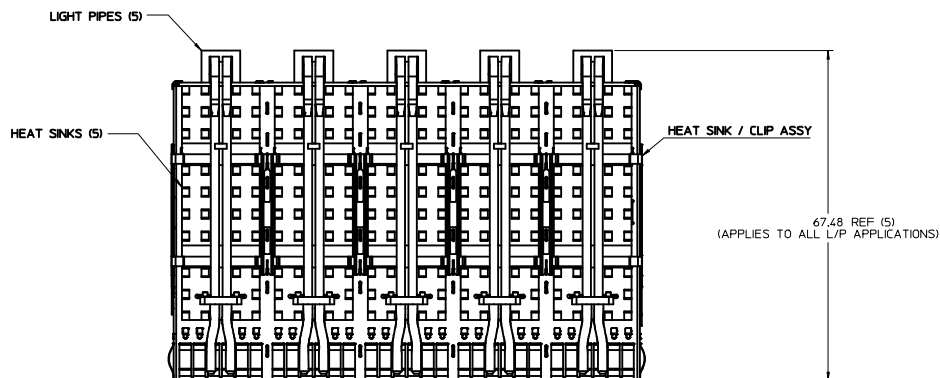
WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	12, 13, 14 ETC.. (EXAMPLE: YEAR 2012= 12)

SEE REVISION TABLE IEC NO: CPG2015-5449 TDRWNS:WALLACE01 2015/04/14 CHYKD:JEFF HATTON 2015/04/15 APPR:K.LLOYD 2015/04/22	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	BREED 2013/01/21	TITLE	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY DATE	TPRICE 2013/01/21	ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS	
	ANGULAR ± 2°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY DATE	K.LLOYD 2013/04/08	MATERIAL NO. SEE DRAWING DOCUMENT NO. SD-100019-1200	
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

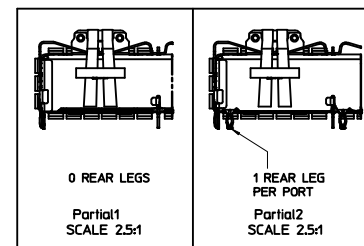
CAGE ASSEMBLY OPTIONS

1000191544

SHOWN



REAR LEG OPTIONS

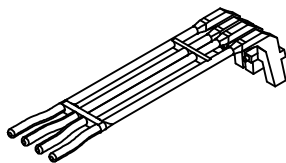
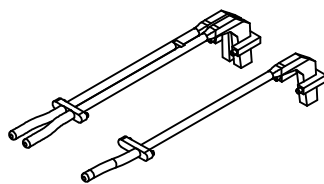


HEATSINK AND LIGHT PIPE COMBINATIONS

HEATSINK
USED
WITHOUT
LIGHTPIPE

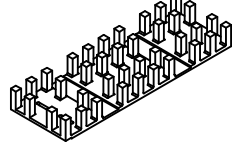
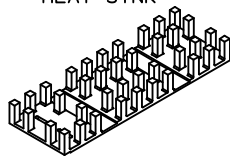
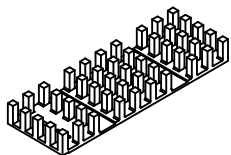
SINGLE / DUAL LIGHTPIPE

QUAD LIGHTPIPE



HEAT SINK

HEAT SINK



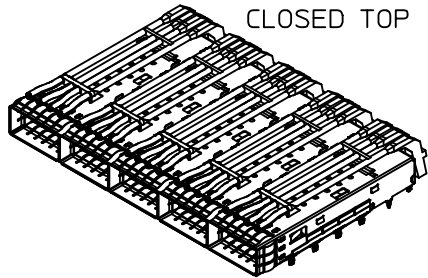
OVERALL HEAT SINK HEIGHT	DIM "A"
PCI	13.7 REF
SAN	16.0 REF
NET	23.0 REF

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

SEE REVISION TABLE EC NO: CPG2015-5449 DRAWN: WALLACE01 2015/04/14 CHKD: JEFF HATTON 2015/04/15 APPR: K LLOYD 2015/04/22	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM ONLY	2:1	METRIC	☉
		4 PLACES	±0.13	BREED	2013/01/21	TITLE: ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS	
		3 PLACES	±0.25	CHECKED BY	DATE	molex	
		2 PLACES	±0.25	APPROVED BY	DATE	SD-100019-1200	
		1 PLACE	±0.25	K LLOYD	2013/04/08	SHEET NO. 2 OF 7	
		0 PLACE	±0.25	MATERIAL NO. SEE DRAWING		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

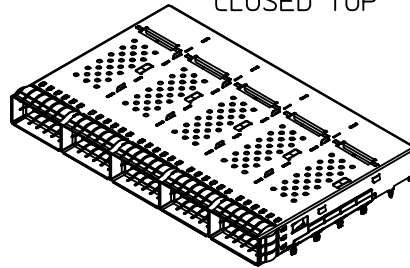
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



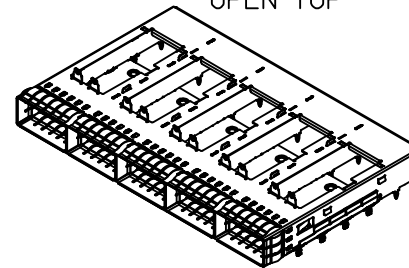
MOLEX P/N	LIGHTPIPES	#OF REAR LEGS PER PORT
1000191231	SINGLE	0
1000191232	SINGLE	1
1000191233	DUAL	0
1000191234	DUAL	1
1000191235	QUAD	0
1000191236	QUAD	1

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



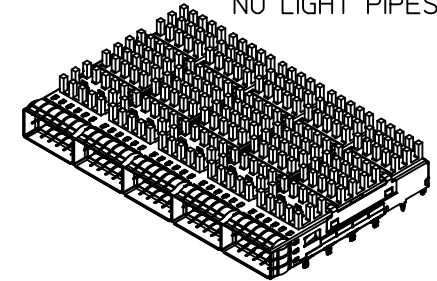
MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000191240	0
1000191242	1

NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000191250	0
1000191252	1

WITH HEATSINKS
NO LIGHT PIPES

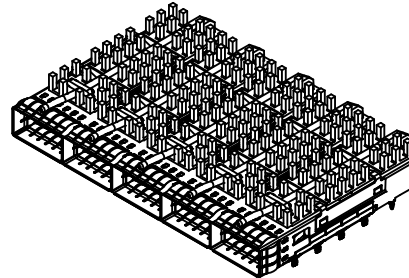


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000191340	PCI	0
1000191341	SAN	0
1000191342	NET	0
1000191343	PCI	1
1000191344	SAN	1
1000191345	NET	1

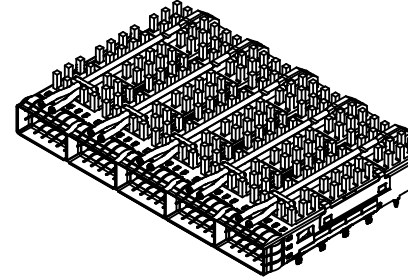
WITH HEATSINKS AND LIGHT PIPES

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000191440	SINGLE	PCI	0
1000191441	SINGLE	SAN	0
1000191442	SINGLE	NET	0
1000191443	DUAL	PCI	0
1000191444	DUAL	SAN	0
1000191445	DUAL	NET	0
1000191446	QUAD	PCI	0
1000191447	QUAD	SAN	0
1000191448	QUAD	NET	0
1000191540	SINGLE	PCI	1
1000191541	SINGLE	SAN	1
1000191542	SINGLE	NET	1
1000191543	DUAL	PCI	1
1000191544	DUAL	SAN	1
1000191545	DUAL	NET	1
1000191546	QUAD	PCI	1
1000191547	QUAD	SAN	1
1000191548	QUAD	NET	1

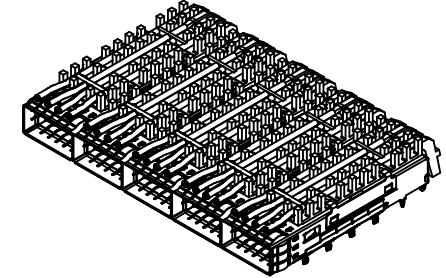
SINGLE LIGHT PIPE



DUAL LIGHT PIPE

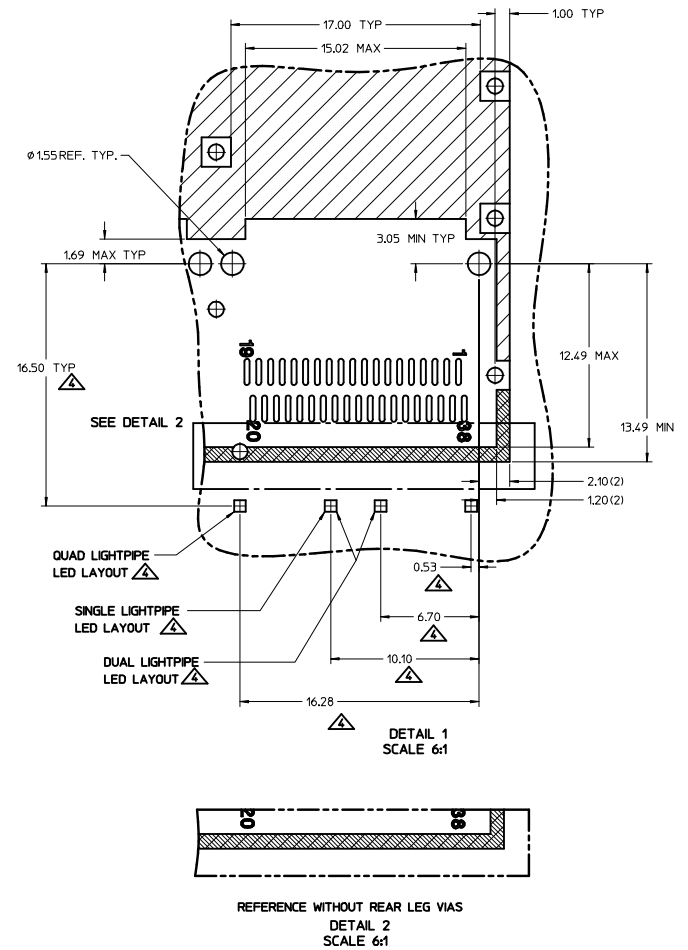
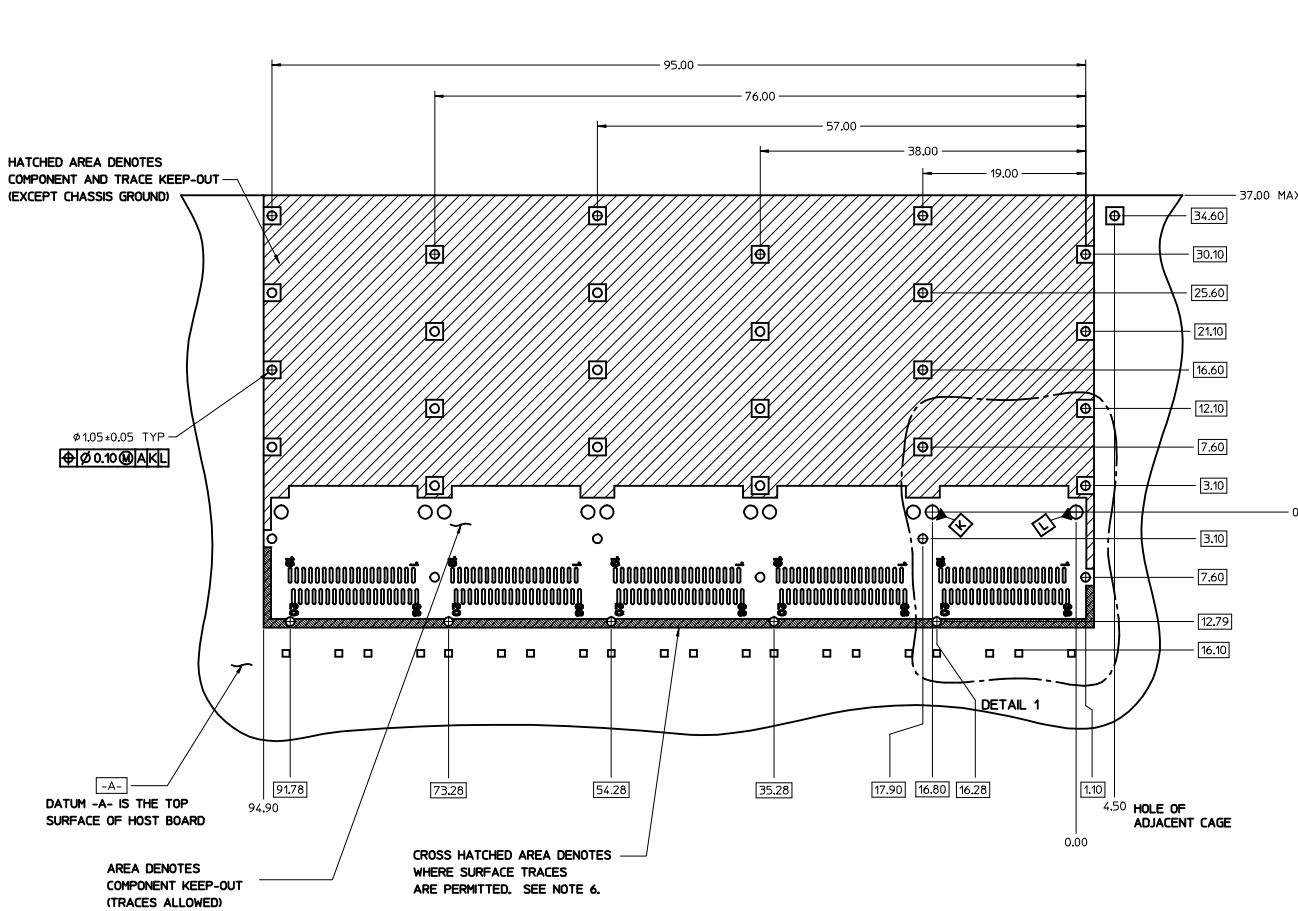


QUAD LIGHT PIPE



SEE REVISION TABLE EC NO: CPG2015-5449 TDR: WALLACE01 2015/04/14 CHKD: JEFF HATTON 2015/04/15 APPR: K LLOYD 2015/04/17	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED): mm INCH		DIMENSION STYLE MM ONLY	SCALE 1.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---	DRAWN BY DATE BREED 2013/01/21	CHECKED BY DATE TPRICE 2013/01/21	TITLE ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS		
		ANGULAR ± 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY DATE K LLOYD 2013/04/08	MATERIAL NO. SEE DRAWING	DOCUMENT NO. SD-100019-1200	SHEET NO. 3 OF 7	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

PCB LAYOUT FOR SINGLE SIDED MOUNTING



- NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERRIES 170432.
 4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
 5. REFERENCE WHEN REAR LEGS ARE PRESENT. IF NO REAR LEGS, VIA AREA CAN BE USED FOR SURFACE TRACES. SEE SINGLE SIDE LAYOUT, DETAIL 2.

SEE REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
REV	DESCRIPTION	mm	INCH	mm	INCH	MM ONLY	DATE	3.5:1	METRIC	DATE	TITLE	SHEET NO.	
1	DRW:WALLACE01 2015/04/14	±0.13	±0.005	±0.13	±0.005	MM ONLY	2013/01/21			DATE	ZQSFP+ 1X5 GANGED CAGE	4 OF 7	
2	CHKD:JEFF HATTON 2015/04/15	±0.25	±0.010	±0.25	±0.010	MM ONLY	2013/01/21			DATE	ASSY'S SPRING FINGER		
3	APPR:K LLOYD 2015/04/22	±0.25	±0.010	±0.25	±0.010	MM ONLY	2013/04/08			DATE	WITH H/S & L/P OPTIONS		
		ANGULAR ± 2 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE DRAWING		DOCUMENT NO. SD-100019-1200					
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

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

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

DATUM -A- IS THE TOP
SURFACE OF HOST BOARD

Ø1.05±0.05 TYP
Φ|Ø 0.10 @|A|k|L

HOLES FOR OPTIONAL
REAR LEGS

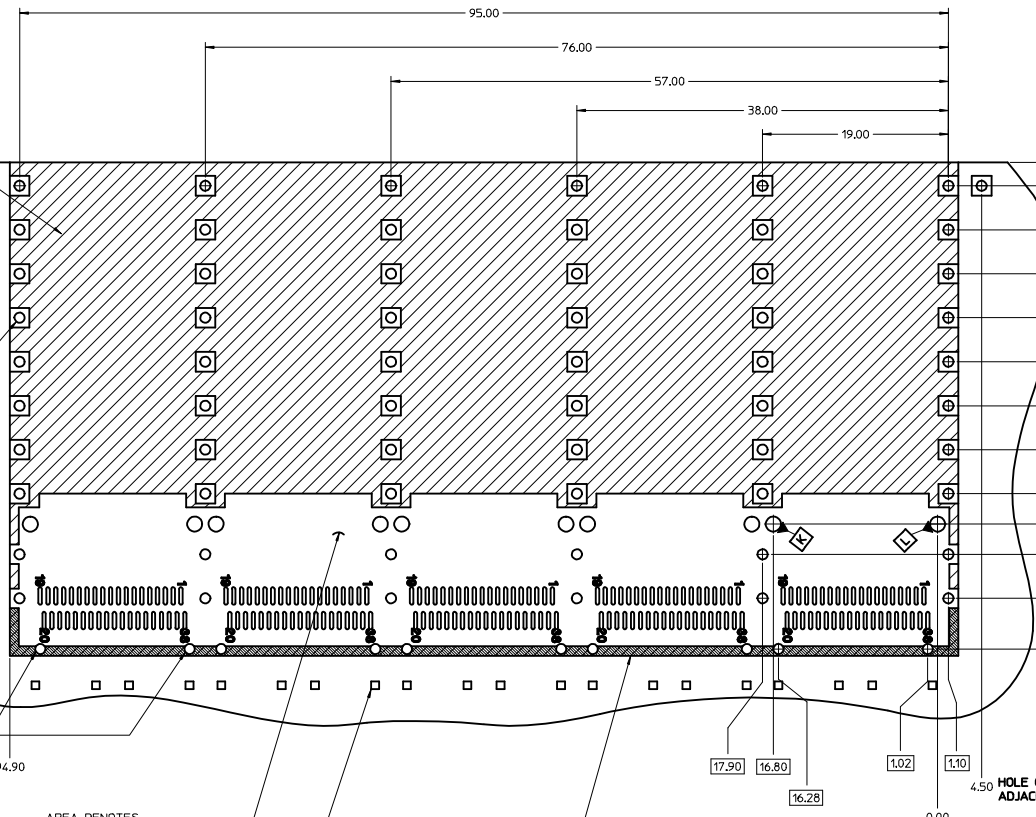
AREA DENOTES
COMPONENT KEEP-OUT
(TRACES ALLOWED)

FOR CAGE ASSEMBLIES
WITH LIGHT PIPES

CROSS HATCHED AREA DENOTES
WHERE SURFACE TRACES
ARE PERMITTED. SEE NOTE 5.

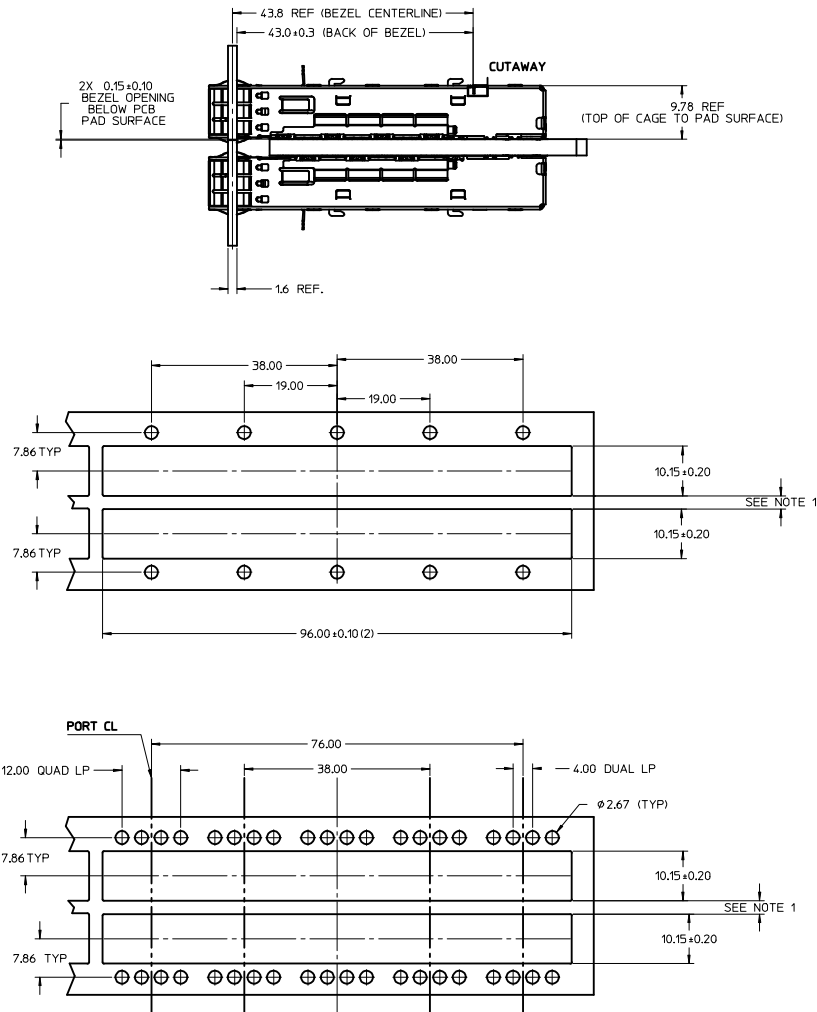
NOTES:

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERRIES 170432.
4. REFERENCE WHEN REAR LEGS ARE PRESENT. IF NO REAR LEGS, VIA AREA CAN BE USED FOR SURFACE TRACES. SEE SINGLE SIDE LAYOUT, DETAIL 2 ON SHEET 4.

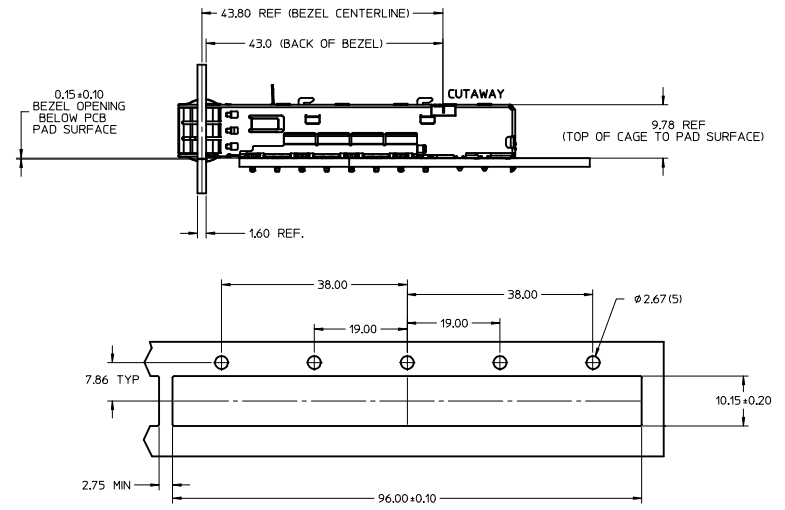


SEE REVISION TABLE EC NO: CPG2015-5449 DRAWN: WALLACE 2015/04/14 CHECKED: EFF HATTON 2015/04/15 APPROVED: K LLOYD 2015/04/22	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	3 PLACES ± mm INCH	DRAWN BY DATE			
	▽=0	2 PLACES ±0.13 ± mm INCH	BREED 2013/01/21			
	1 PLACE ±0.25 ± mm INCH	CHECKED BY DATE				
	0 PLACE ± mm INCH	TPRICE 2013/01/21				
	ANGULAR ± 2 °	APPROVED BY DATE				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	K LLOYD 2013/04/08				
		MATERIAL NO.	SEE DRAWING			
		DOCUMENT NO.	SD-100019-1200			
		SHEET NO.	5 OF 7			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

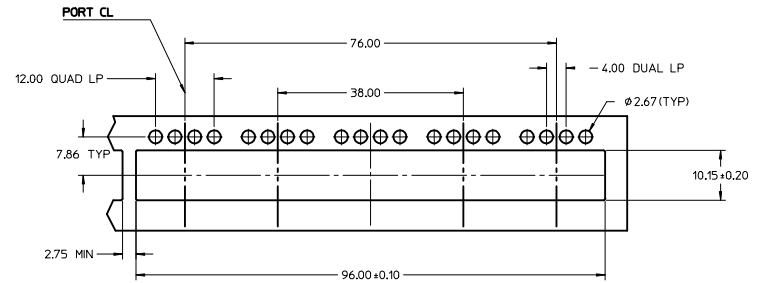
BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING



BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDED MOUNTING



DUAL LIGHT PIPE



NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

SEE REVISION TABLE EC NO: CPG2015-5449 DRAWN: WALLACE 2015/04/14 CHKD: EFF HATTON 2015/04/15 APPR: K LLOYD 2015/04/22	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm	MM ONLY	2.5:1	METRIC	☉
	▽=0	INCH				
	▽=0					
	DESCRIPTION	4 PLACES ± ---	DRAWN BY	DATE	TITLE	
		3 PLACES ± ---	BREED	2013/01/21	ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS	
		2 PLACES ± 0.13	CHECKED BY	DATE	molex MATERIAL NO. _____ DOCUMENT NO. SD-100019-1200 SHEET NO. 6 OF 7	
		1 PLACE ± 0.25	APPROVED BY	DATE		
		0 PLACE ± ---	K LLOYD	2013/04/08		
		ANGULAR ± 2 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS SEE DRAWING THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

REV	DATE	DESCRIPTION
A	03/29/2013	RELEASE
B	06/26/2013	ADDED DIM 12.77 AT G-9 ON SHEET 4.
C	03/17/2014	SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED ALLOWABLE AREA WHERE SURFACE TRACES ARE PERMITTED. REMOVED "HOLE PATTERN REPEATS FOR EACH PORT." FROM NOTE 4
D	07/15/2014	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	10/06/2014	SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J12: DIM 67.48 CHANGED TO REF SHEET 4: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS SHEET 5: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES REMOVED BASIC FROM "0.00" POSITIONS H17: MADE HOLE DIAMETER DIMENSION TYP SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
F	04/14/2015	SHEET 4: REVISED DIM "WAS" 12.77 "NOW" 12.79 ØG9 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 ØE4, ØF3, ØF6, ØG3, ØG6, AND ØI7 REMOVED NOTE 4 RENUMBERED NOTE 6 TO NOTE 5 SHEET 5: REVISED DIM "WAS" 12.77 "NOW" 12.79 ØF7 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REMOVED NOTE 4 ØA20 REMOVED SEE NOTE 4 AND ADDED DIMS ØK7, ØK8, ØL9, ØL10, AND ØL11 SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL ØE17 AND Ø EF8

SEE REVISION TABLE EC NO: CP62015-5449 DRAWN: WALLACE 2015/04/14 CHKD: EFF HATTON 2015/04/15 APPR: K LLOYD 2015/04/22	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± .010 ± .004 3 PLACES ± .013 ± .005 2 PLACES ± .025 ± .010 1 PLACE ± .050 ± .020 0 PLACE ± .125 ± .050		DIMENSION STYLE MM ONLY		SCALE DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		ANGULAR ± 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWN BY DATE BREED 2013/01/21		TITLE ZQSFP+ 1X5 GANGED CAGE ASSY'S SPRING FINGER WITH H/S & L/P OPTIONS		
		MATERIAL NO. SEE DRAWING		CHECKED BY DATE PRICE 2013/01/21		APPROVED BY DATE K LLOYD 2013/04/08		DOCUMENT NO. SD-100019-1200
		SIZE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 7 OF 7				

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1