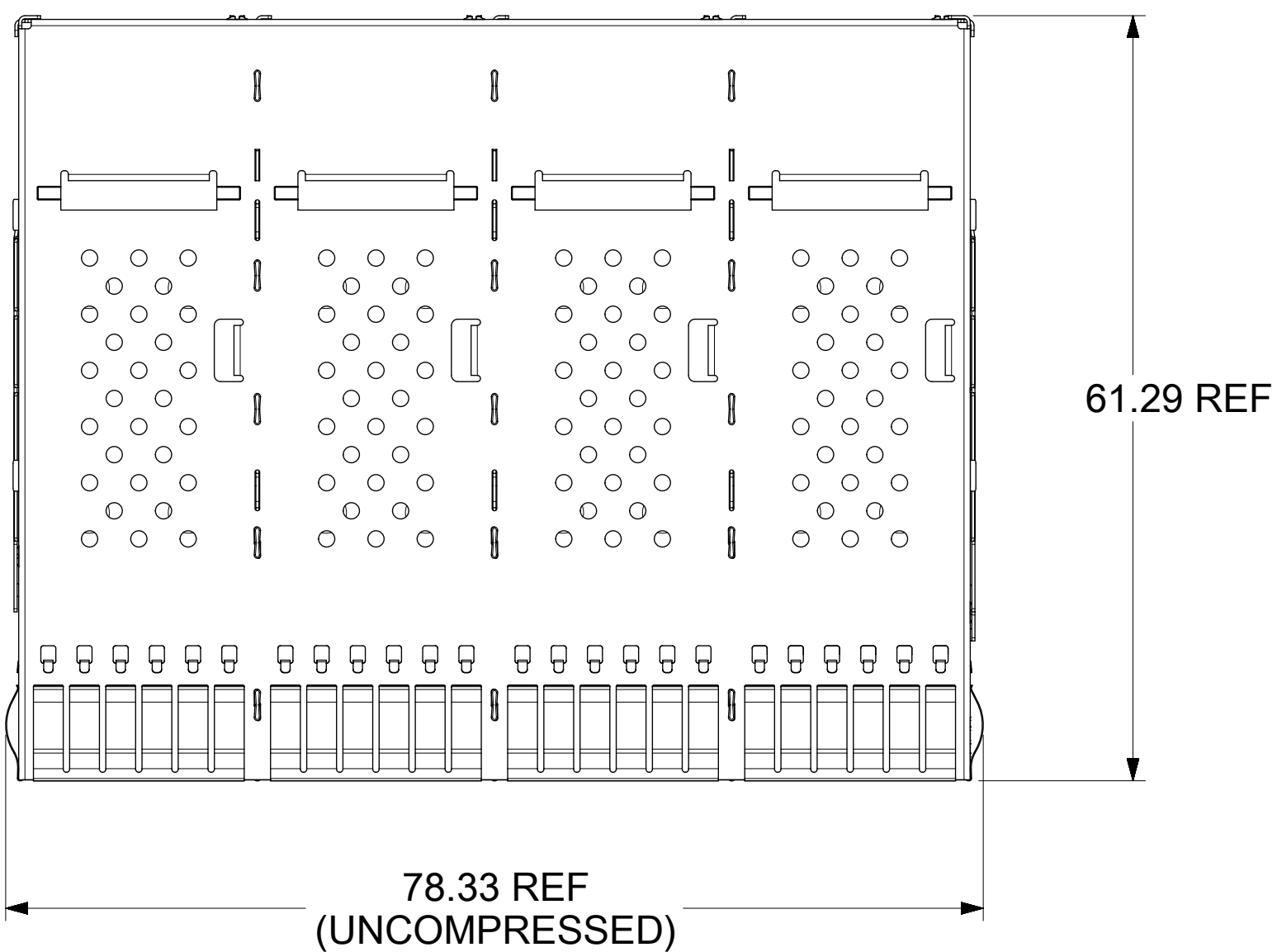
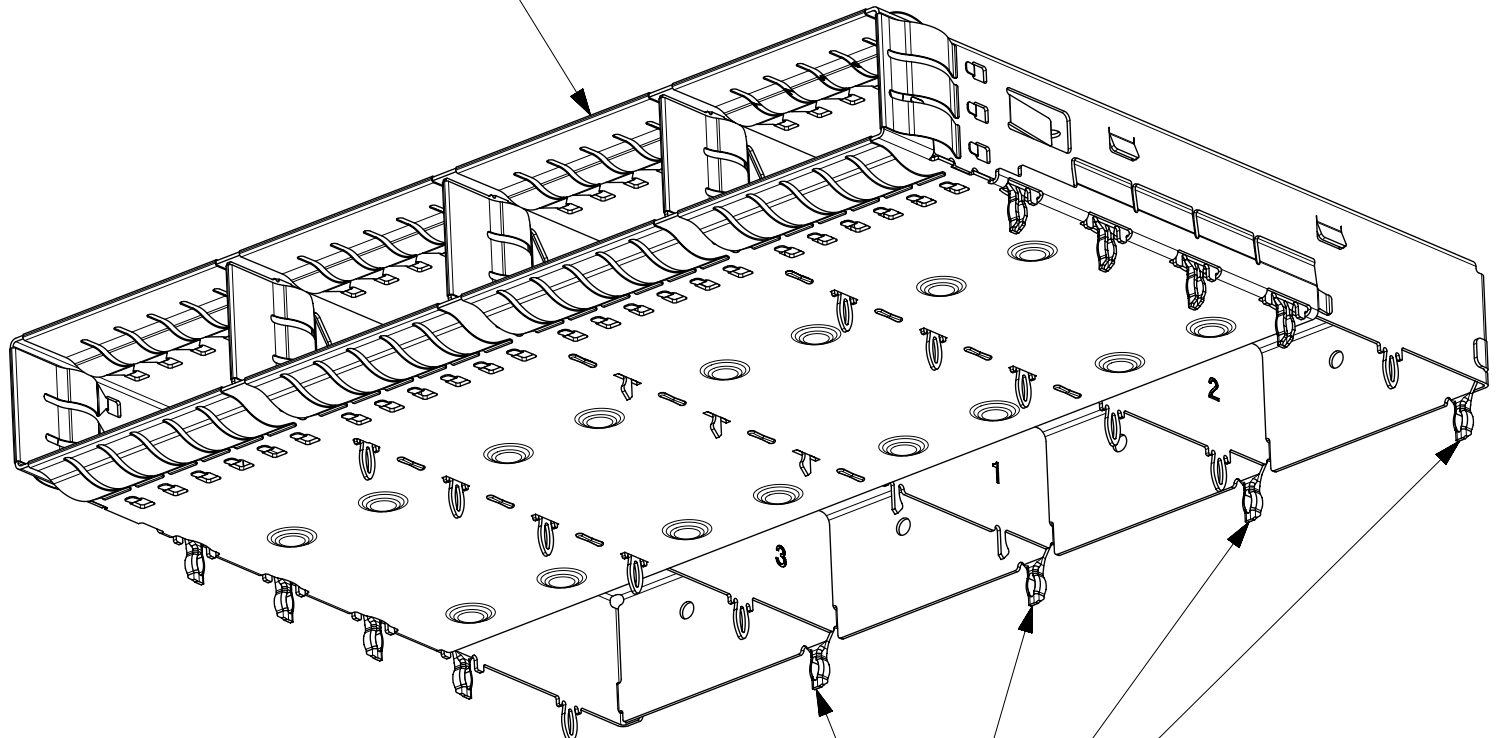


BASE CAGE DETAILS

1000171242
SHOWN



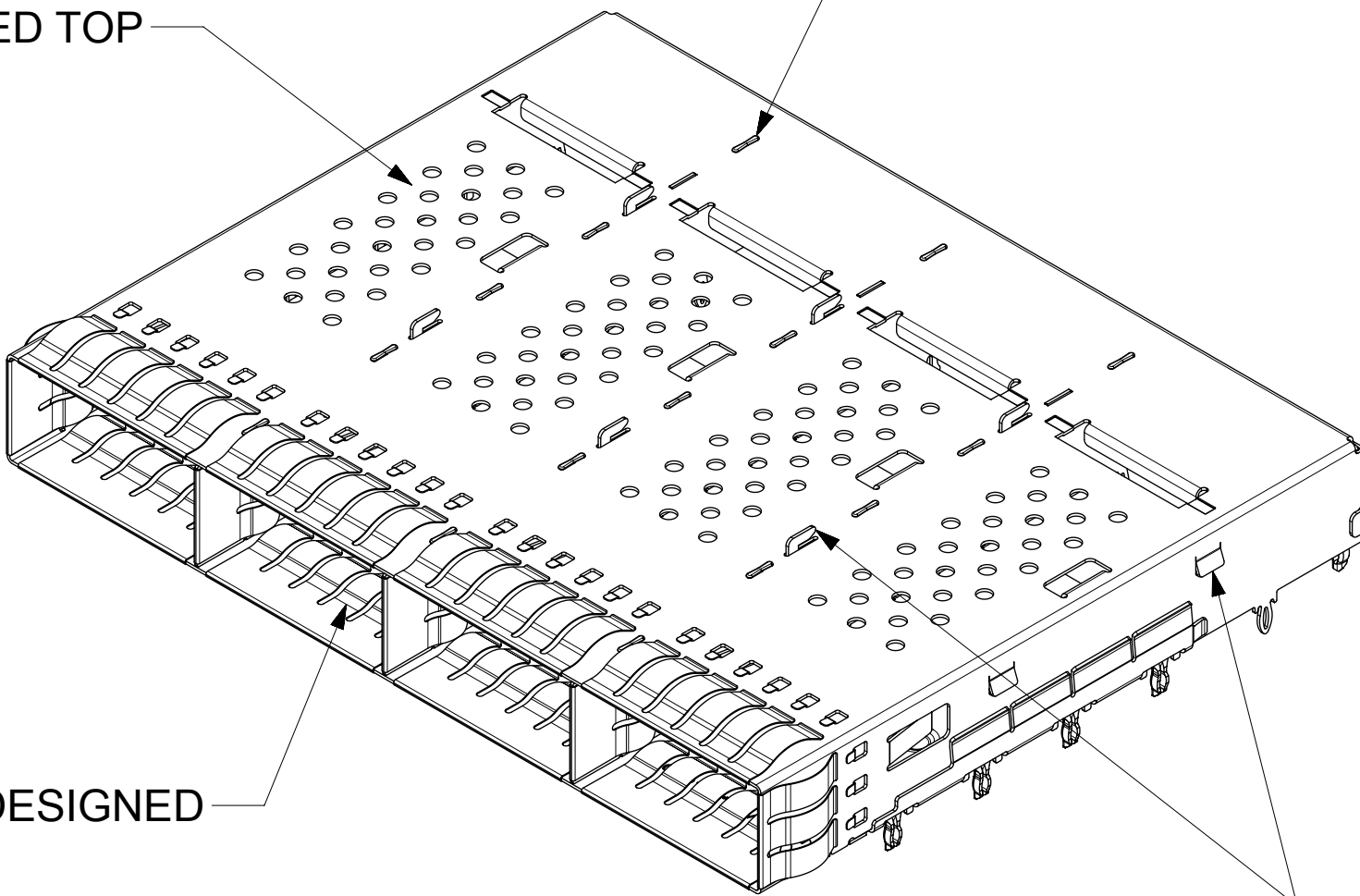
SPRING FINGERS



REAR LEGS OPTIONAL
(SEE TABLE ON SHEET 3)

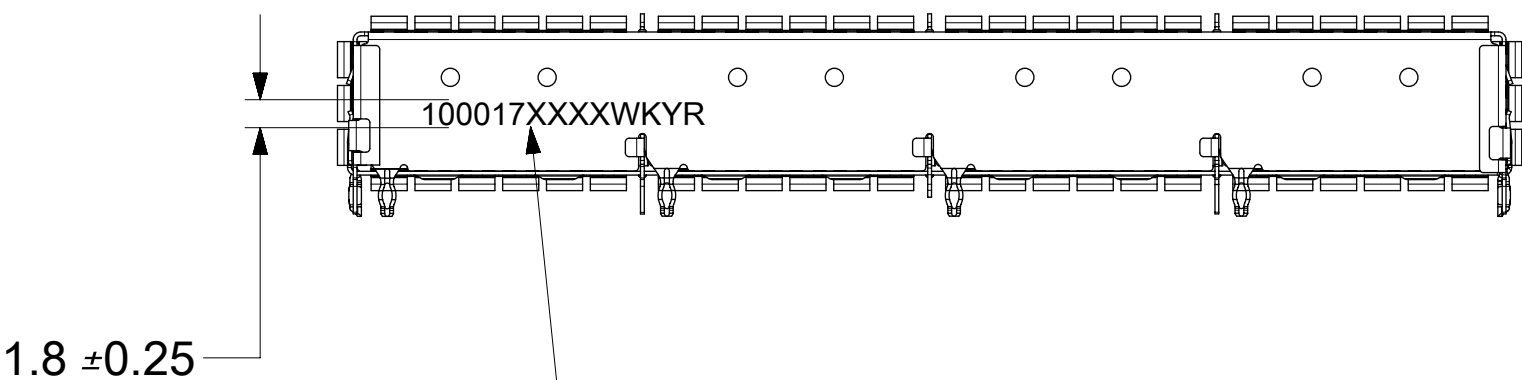
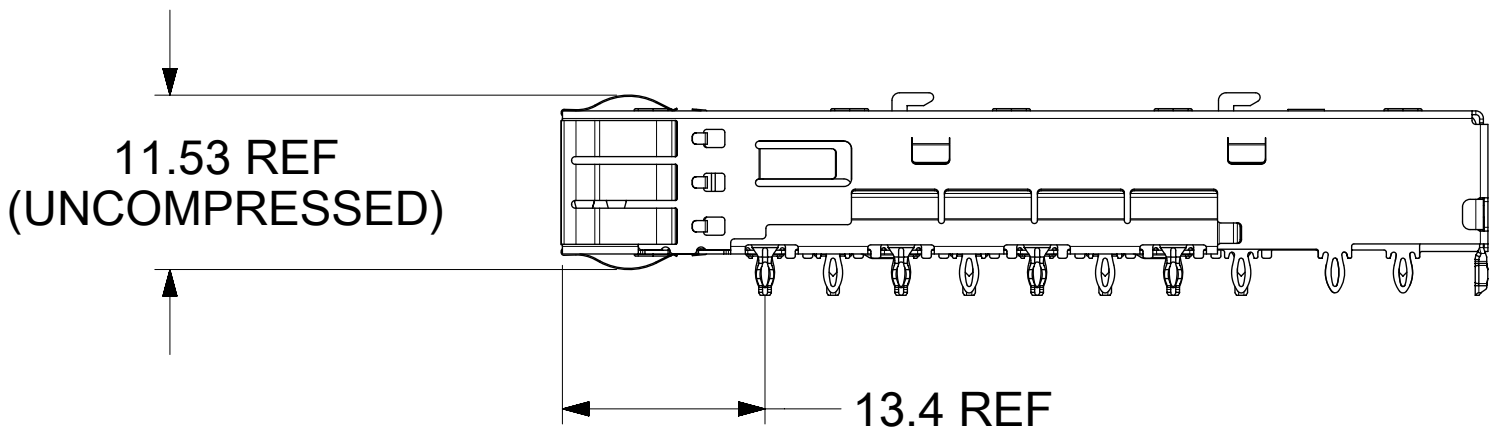
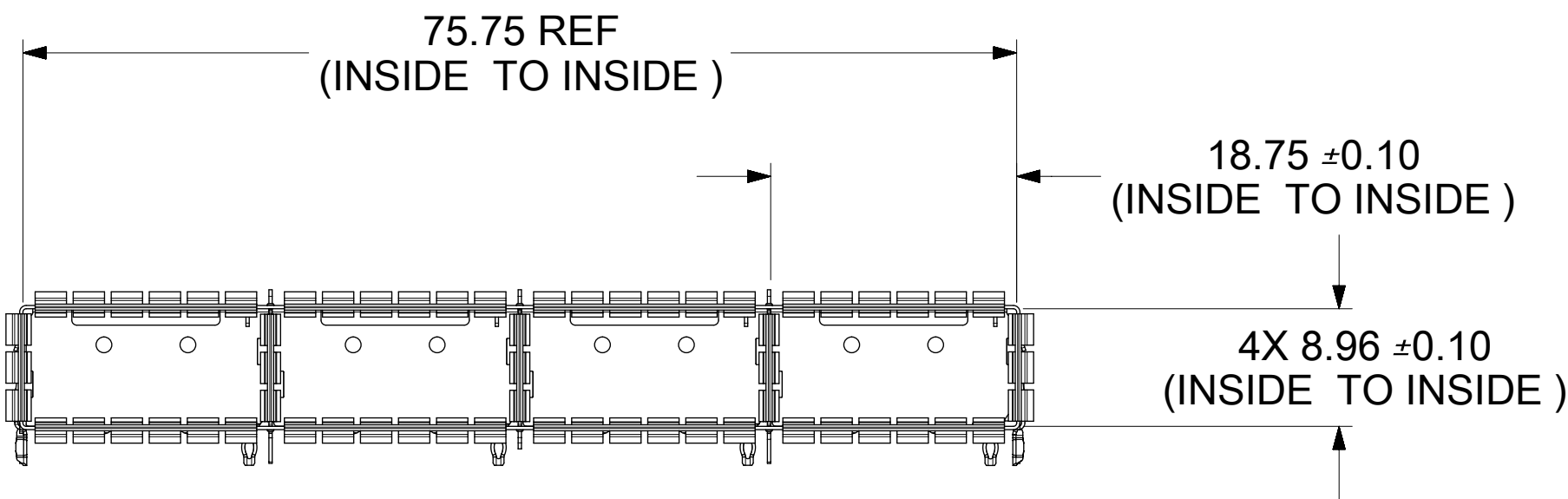
CLOSED TOP

INNER WALL TABS ARE
COINED OVER BASE AND
COVER FOR RIGDITY




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

FEATURES USED WITH
OPTIONAL HEAT SINKS

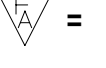

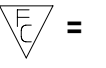
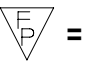
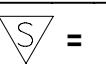
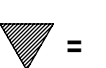
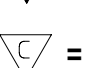
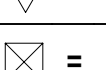
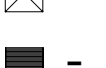
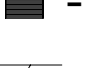




P/N AND WEEK/YEAR DATE CODE TO BE PRINTED ON
BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
SEE TABLE BELOW FOR DATE CODE INFORMATION.

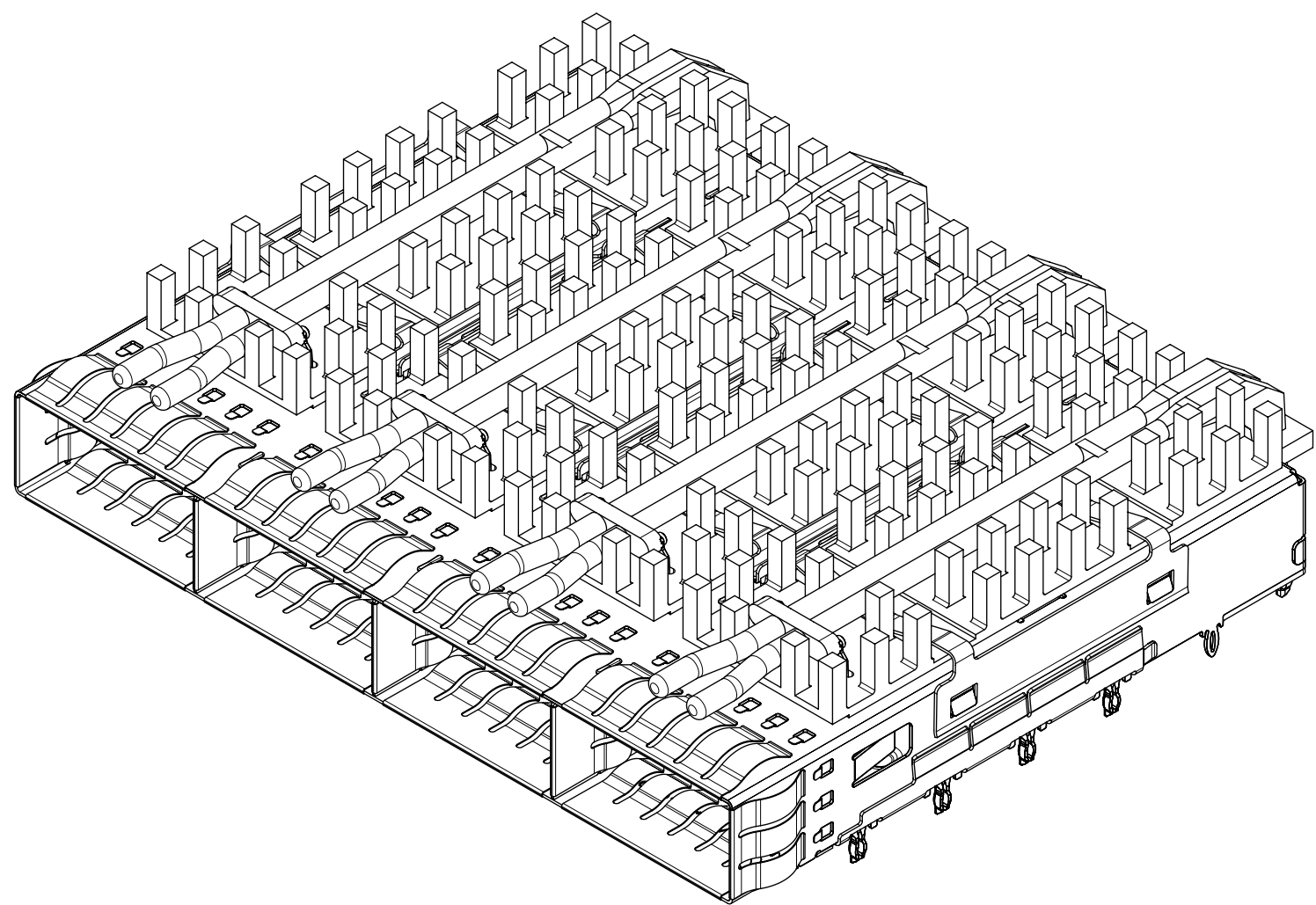
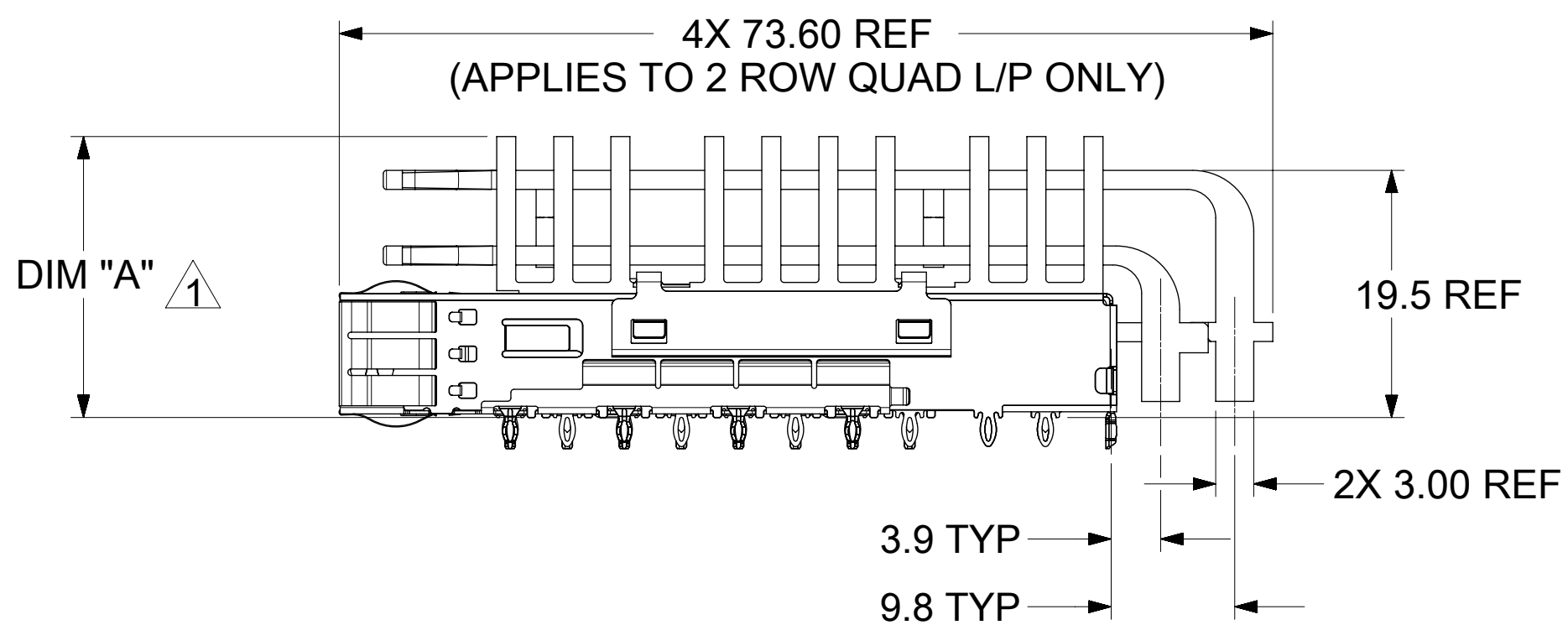
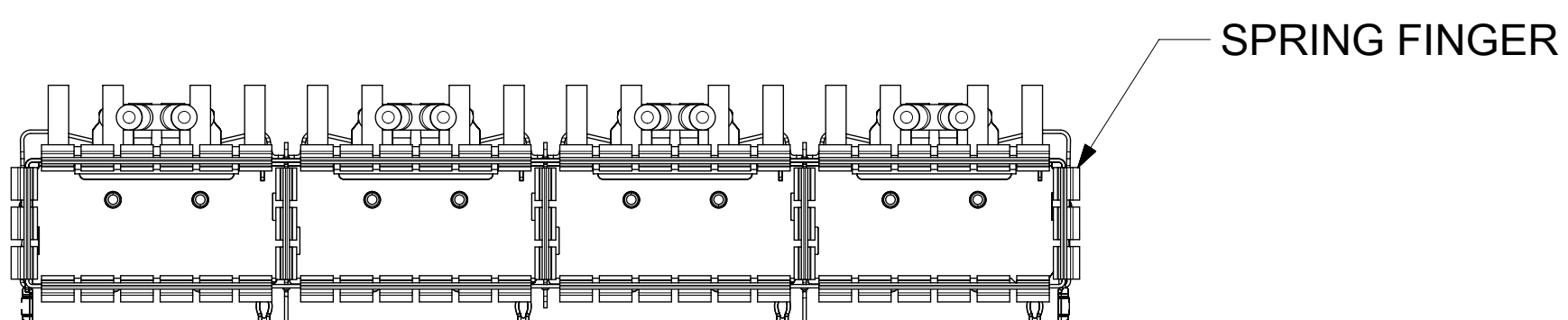
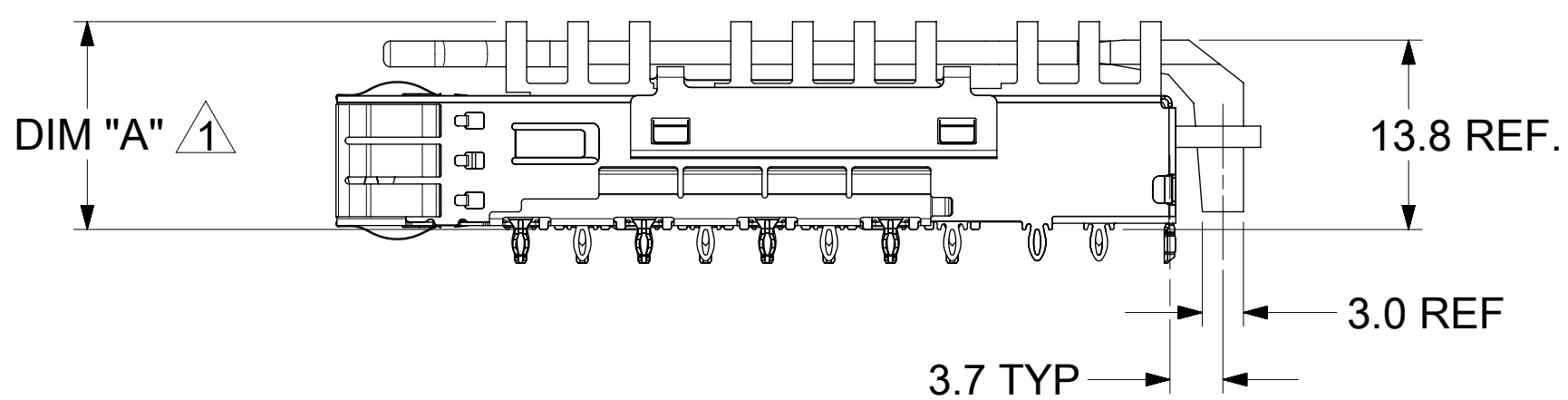
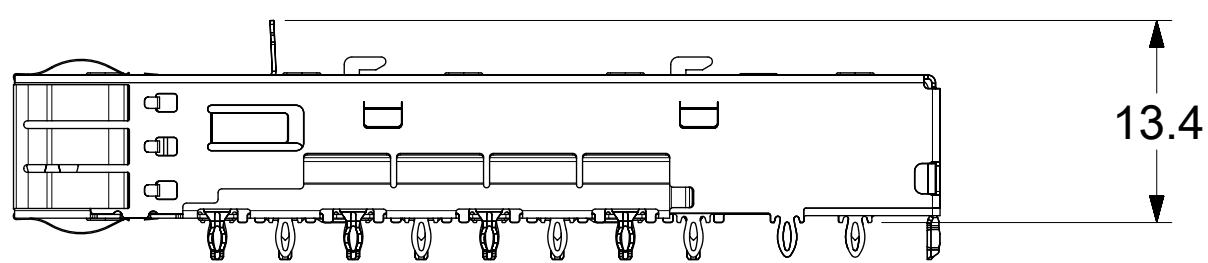
- NOTES:
- MATERIAL: CAGE: STAINLESS STEEL
CENTER WALLS: STAINLESS STEEL
SPRING FINGERS: BERYLLIUM COPPER; NICKEL PLATED
HEAT SINKS: NICKEL PLATED ALUMINUM
HEAT SINK CLIP: STAINLESS STEEL
LIGHT PIPES: POLYCARBONATE (UL 94-V-0)
 - DIMENSIONS MARKED  ARE CRITICAL TO FUNCTION OF THE PART AND MUST BE INSPECTED
 - DRAWING APPLIES TO ALL P/N'S SHOWN ON PAGE 3
 - DURING 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, 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
- | | | | | |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/07/18 | 01:27:46 |
|-----------------|----|--------------|------------|----------|

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)

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 HISTORY								
	mm		2:1										
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS								
 = 0													
 = 0	ANGULAR TOL		± 1.0 °								EC NO: 601541 DRWN: MKEMPEGOWDA 2017/06/07 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18		
 = 0	4 PLACES		±										
 = 0	3 PLACES		±		PRODUCT CUSTOMER DRAWING								
 = 0	2 PLACES		± 0.13										
 = 0	1 PLACE		± 0.25		INITIAL REVISION: DRWN: KNAGANNA 2015/06/03 APPR: RCHEN08 2016/01/11			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
 = 0	0 PLACES		±					1000171200		PSD	SD	K	
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
							D-SIZE	100017	SEE P/N TABLE		GENERAL MARKET		1 OF 9

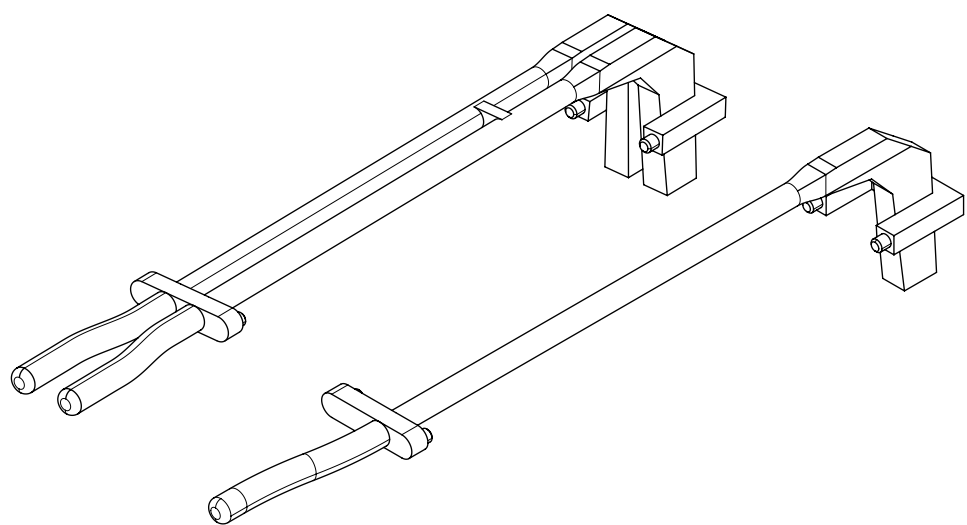
SHOWN



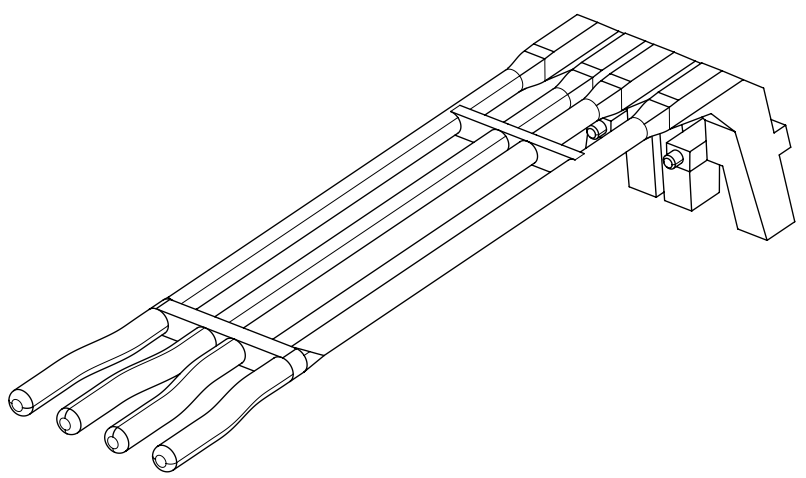
OVERALL HEAT SINK HEIGHT	DIM "A"
PCI	13.7 REF
SAN	16.0 REF
NET	23.0 REF

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

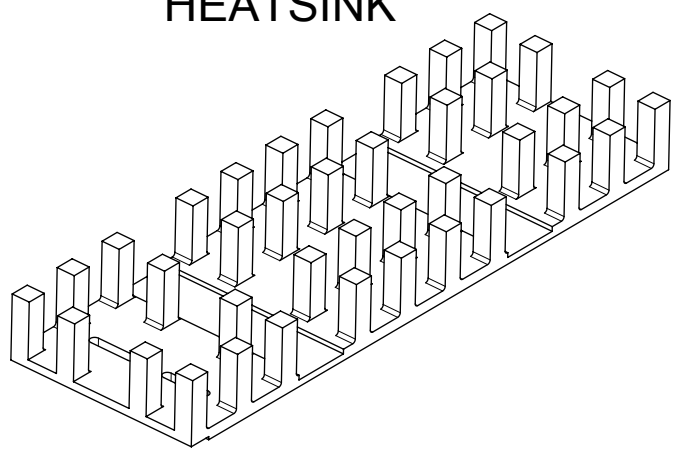
HEATSINK
USED
WITHOUT
LIGHTPIPE



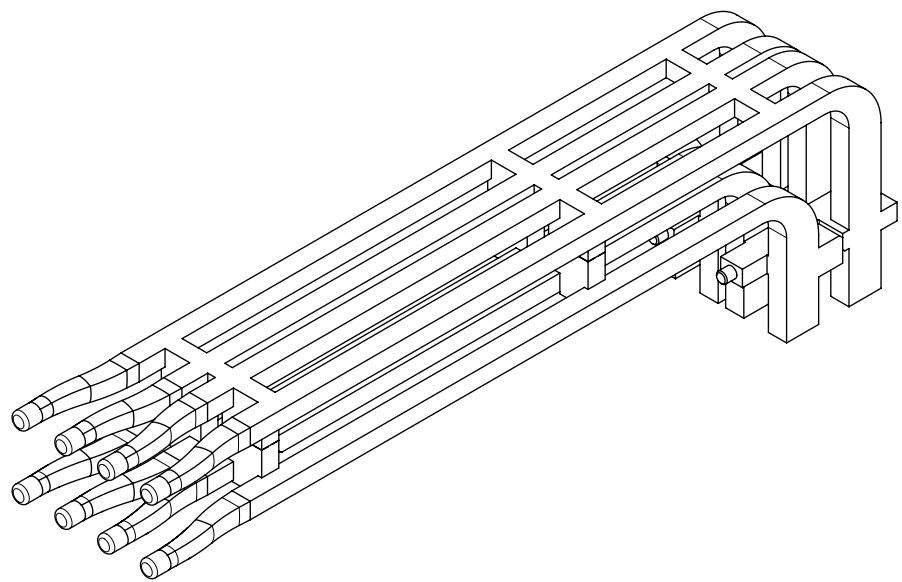
HEATSINK



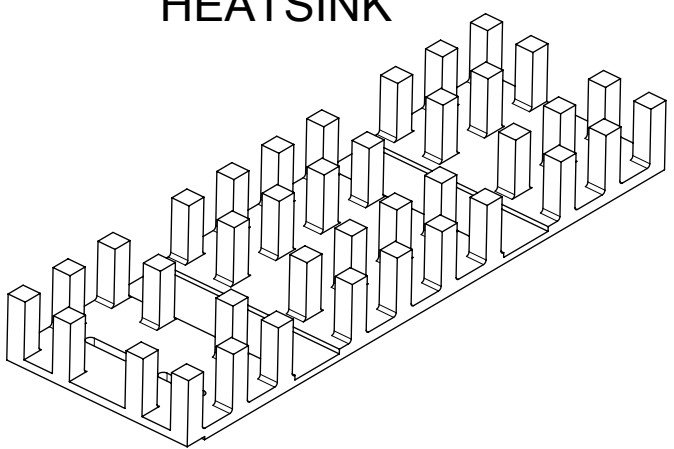
HEATSINK



2 ROW QUAD LIGHT PIPE

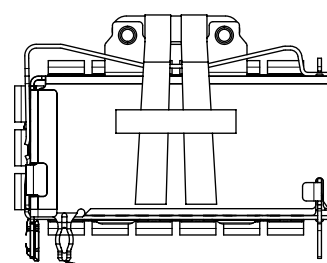


HEATSINK



0 REAR LEGS

Partial1
Scale 2.5:1



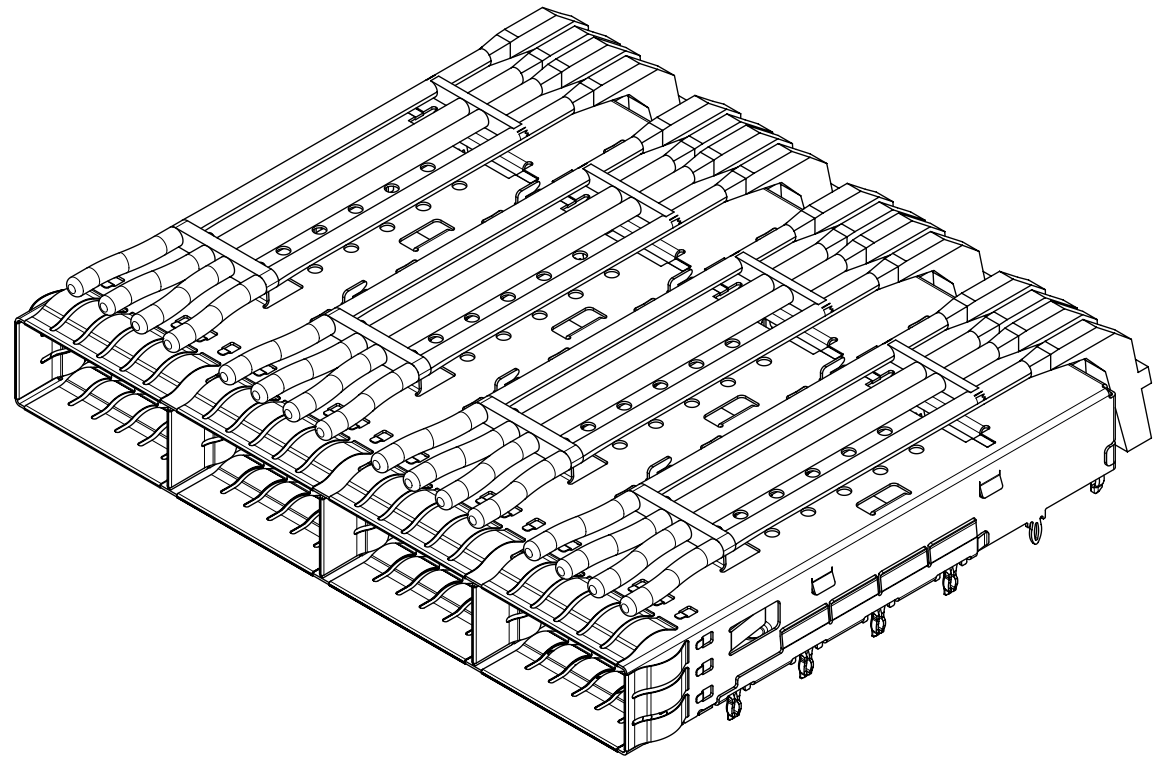
1 REAR LEGS

Partial2
Scale 2.5:1

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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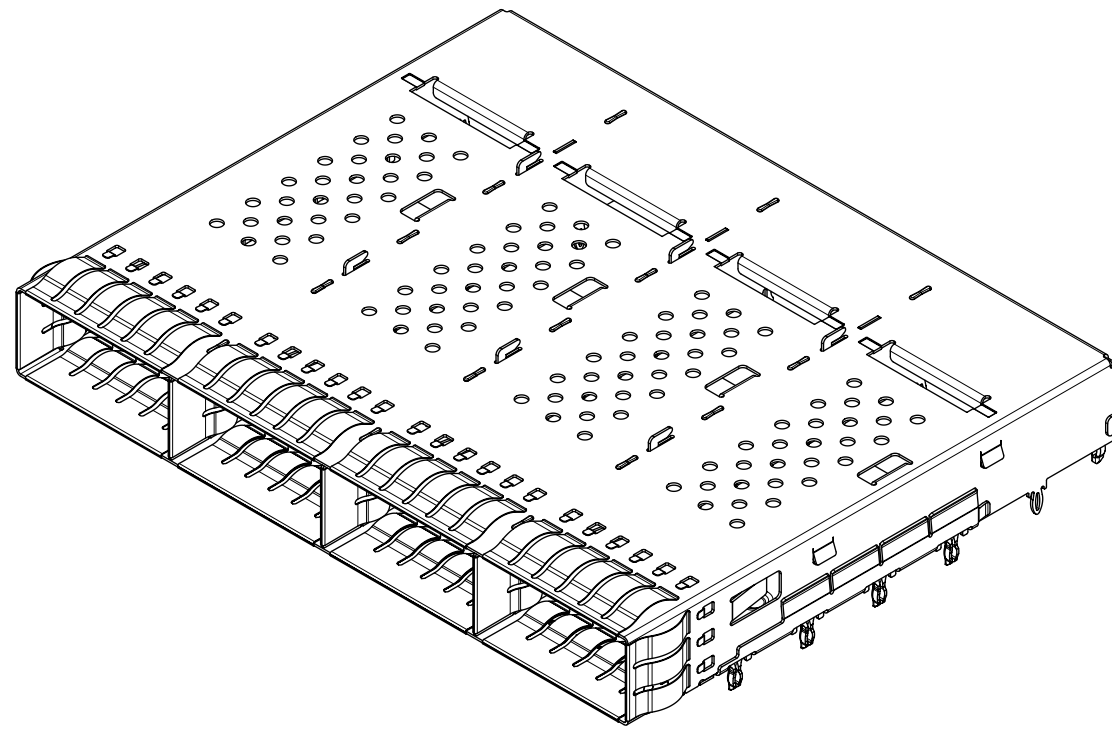
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



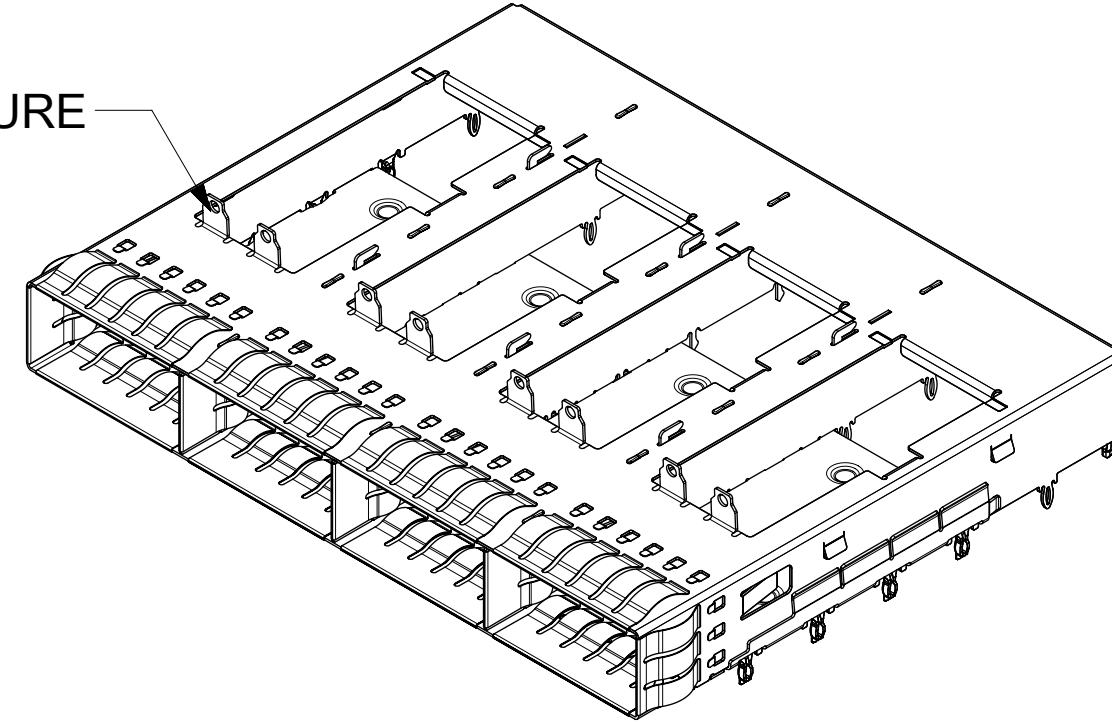
MOLEX P/N	LIGHT PIPES	#OF REAR LEGS PER PORT
1000171231	SINGLE	0
1000171232	SINGLE	1
1000171233	DUAL	0
1000171234	DUAL	1
1000171235	QUAD	0
1000171236	QUAD	1

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000171240	0
1000171242	1

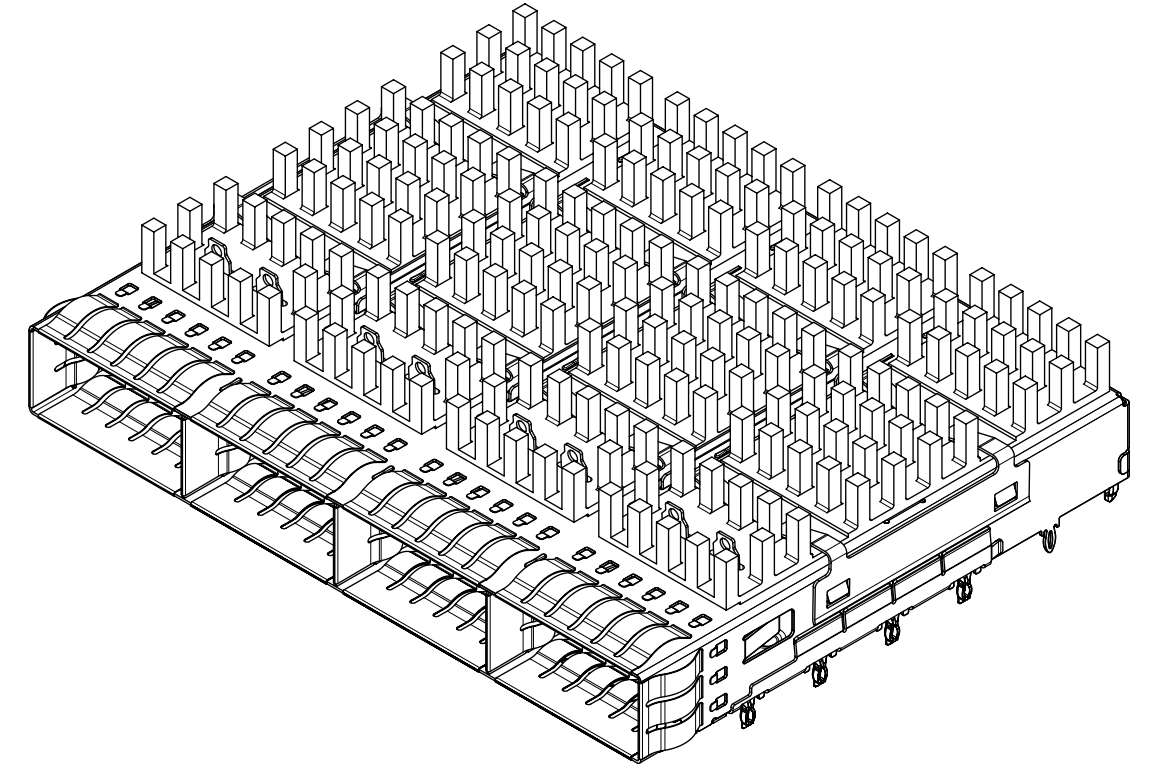
NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



LIGHT PIPE FEATURE

MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT	LIGHT PIPE FEATURE
1000171250	0	YES
1000171252	1	YES
1000171255	1	NO

WITH HEATSINKS
NO LIGHT PIPES

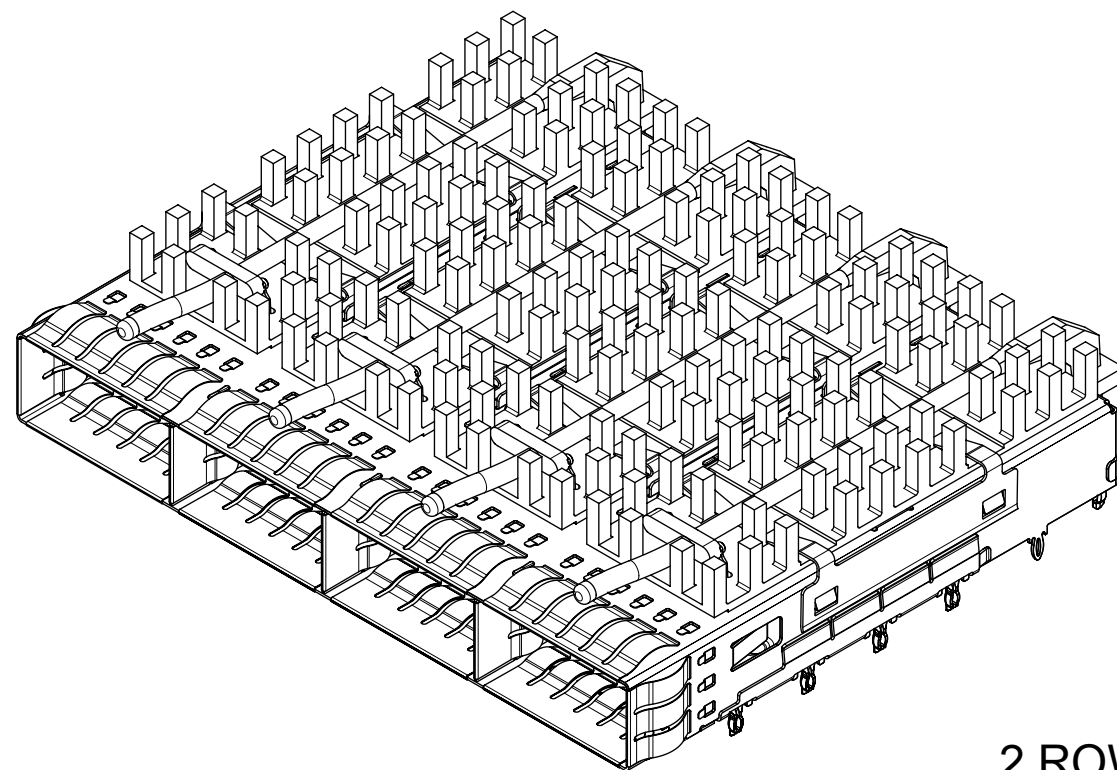


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000171340	PCI	0
1000171341	SAN	0
1000171342	NET	0
1000171343	PCI	1
1000171344	SAN	1
1000171345	NET	1

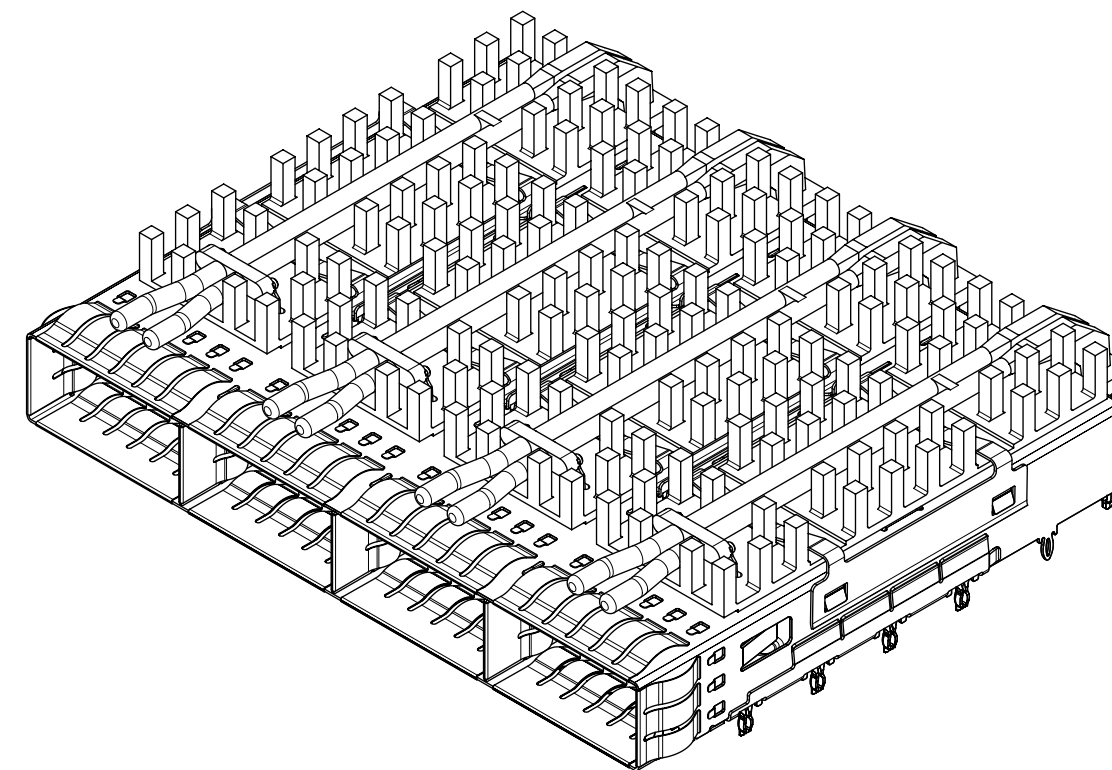
WITH HEATSINKS AND LIGHT PIPES

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000171440	SINGLE	PCI	0
1000171441	SINGLE	SAN	0
1000171442	SINGLE	NET	0
1000171443	DUAL	PCI	0
1000171444	DUAL	SAN	0
1000171445	DUAL	NET	0
1000171446	QUAD	PCI	0
1000171447	QUAD	SAN	0
1000171448	QUAD	NET	0
1000171540	SINGLE	PCI	1
1000171541	SINGLE	SAN	1
1000171542	SINGLE	NET	1
1000171543	DUAL	PCI	1
1000171544	DUAL	SAN	1
1000171545	DUAL	NET	1
1000171546	QUAD	PCI	1
1000171547	QUAD	SAN	1
1000171548	QUAD	NET	1
1000171647	2 ROW QUAD	SAN	1
1000171648	2 ROW QUAD	NET	1
1000171649	2 ROW QUAD	CUSTOM (A=19.0 REF)	1

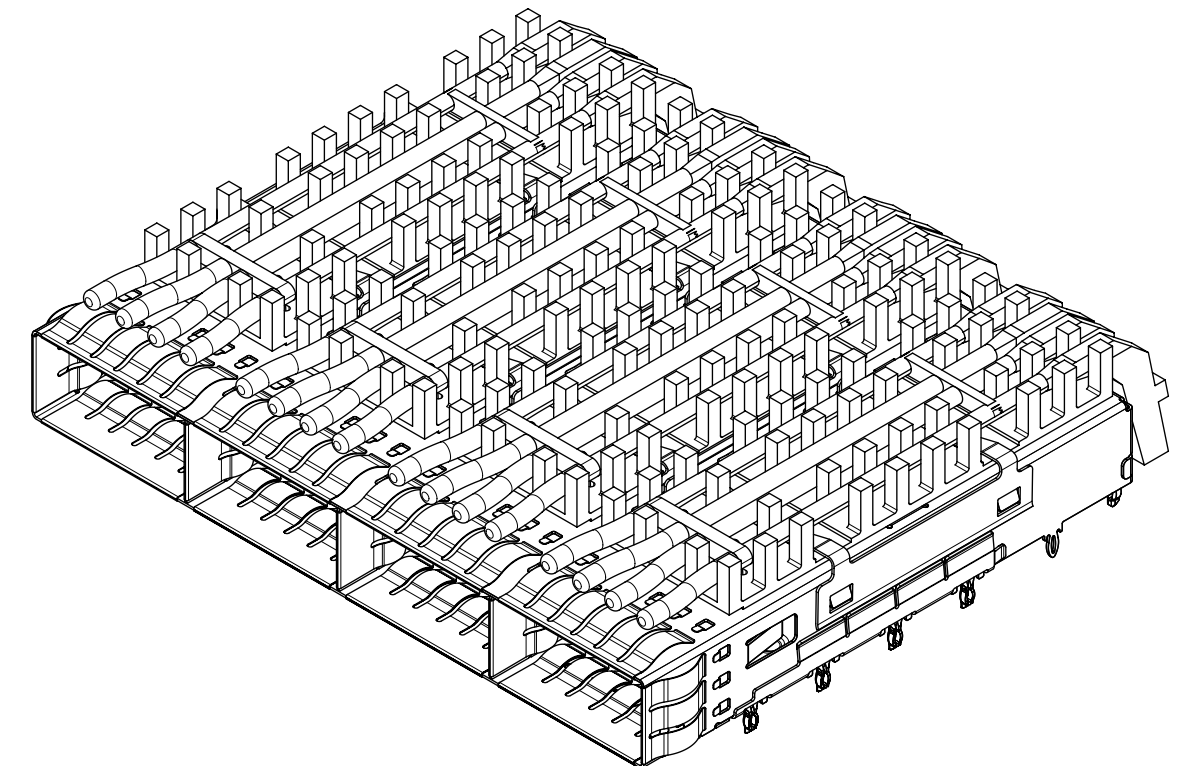
SINGLE LIGHT PIPE



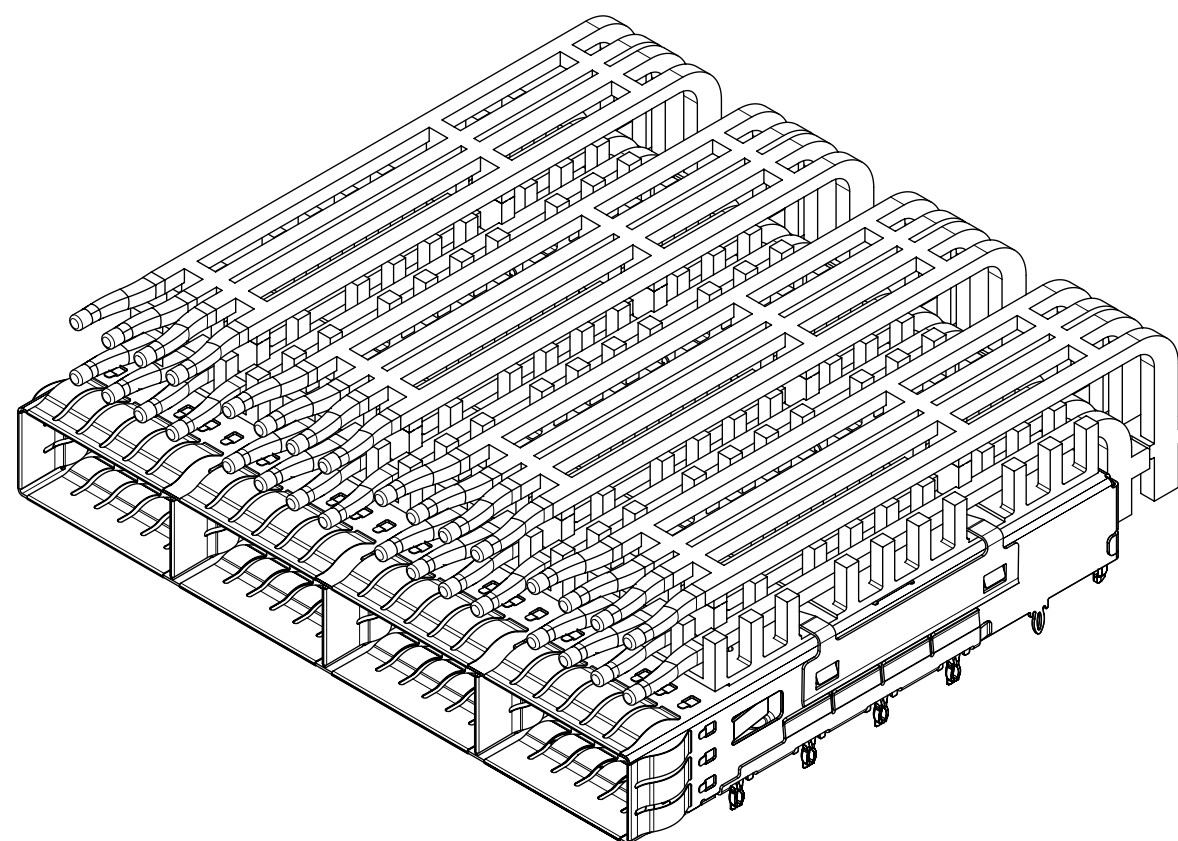
DUAL LIGHT PIPE




QUAD LIGHT PIPE

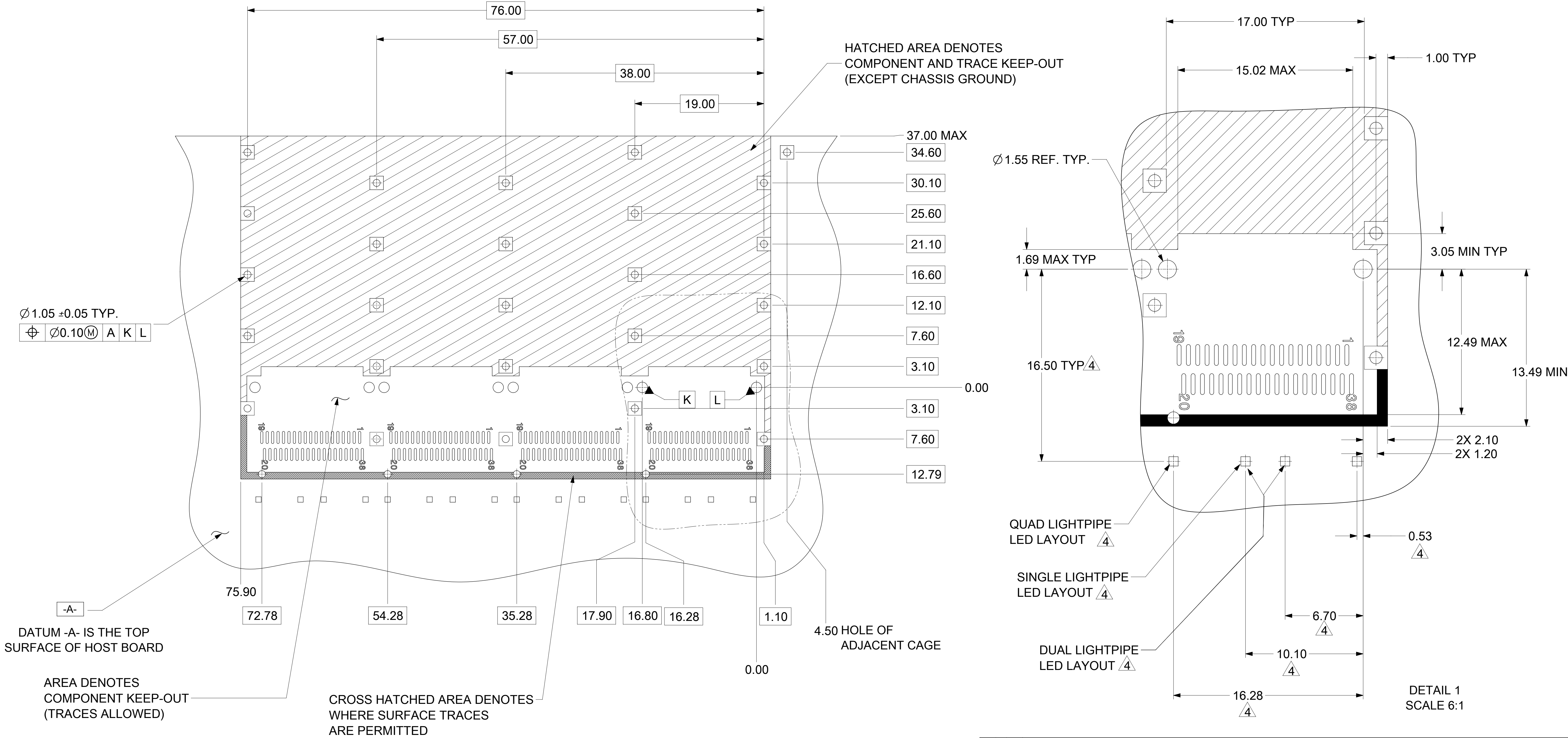


2 ROW QUAD LIGHT PIPE



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 HISTORY				<div>molex</div>				
	mm		1.5:1										
	= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS						
	= 0												
	= 0												
	ANGULAR TOL ± 1.0°		EC NO: 601541				PRODUCT CUSTOMER DRAWING						
	4 PLACES ±		DRWN: MKEMPEGOWDA 2017/06/07										
	3 PLACES ±		CHK'D: TKUMARKC 2018/07/17										
	2 PLACES ± 0.13		APPR: RCHEN08 2018/07/18				DOCUMENT NUMBER 1000171200						
1 PLACE ± 0.25		INITIAL REVISION:				DOC TYPE						DOC PART	
0 PLACES ±		DRWN: KNAGANNA 2015/06/03				PSD		SD		K			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				D-SIZE		100017		SEE P/N TABLE		GENERAL MARKET		3 OF 9	

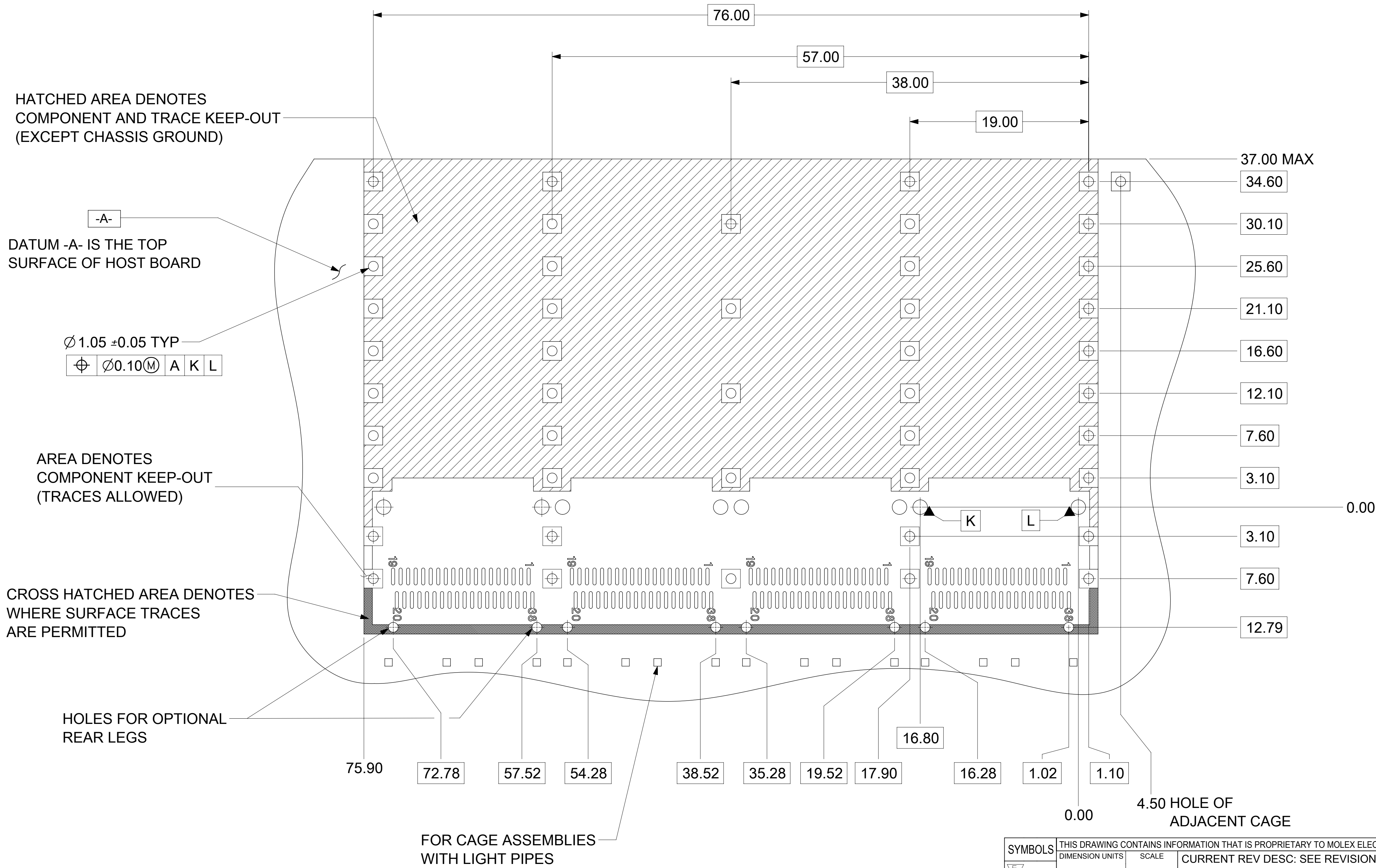
PCB LAYOUT FOR SINGLE SIDED MOUNTING





- 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 SERIES 170432.
 - 4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
		mm				3.5:1		CURRENT REV DESC: SEE REVISION HISTORY															
		GENERAL TOLERANCES (UNLESS SPECIFIED)																					
		ANGULAR TOL ± 1.0°				EC NO: 601541 DRWN: MKEMPEGOWDA 2017/06/07 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18 INITIAL REVISION: DRWN: KNAGANNA 2015/06/03 APPR: RCHEN08 2016/01/11								ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS									
		4 PLACES ±										PRODUCT CUSTOMER DRAWING											
		3 PLACES ±																DOCUMENT NUMBER 1000171200					
		2 PLACES ± 0.13																					
		1 PLACE ± 0.25										MATERIAL NUMBER SEE P/N TABLE						CUSTOMER GENERAL MARKET				SHEET NUMBER 4 OF 9	
		0 PLACES ±																					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						DRAWING D-SIZE		SERIES 100017													

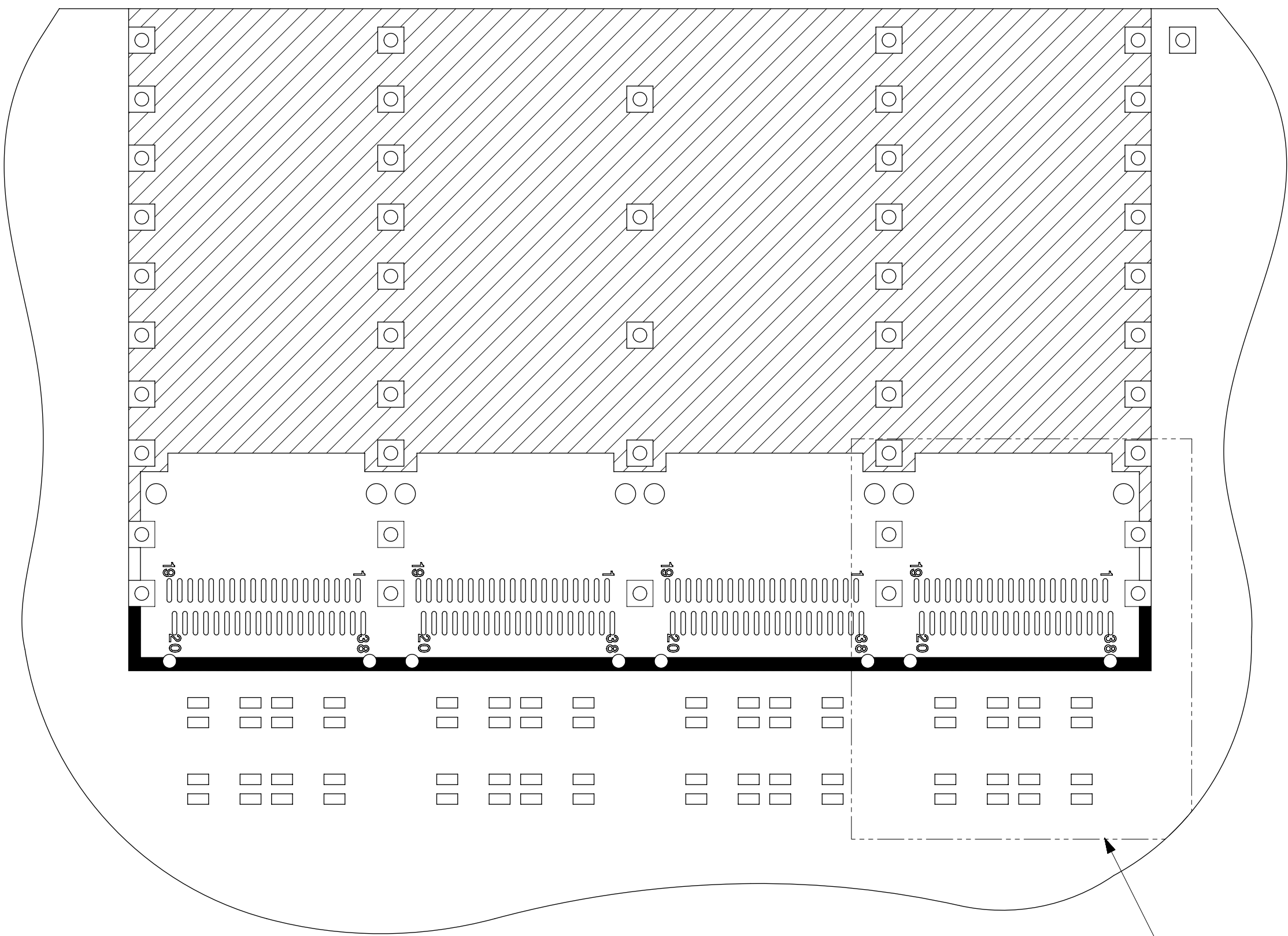
PCB LAYOUT FOR BELLY TO BELLY MOUNTING



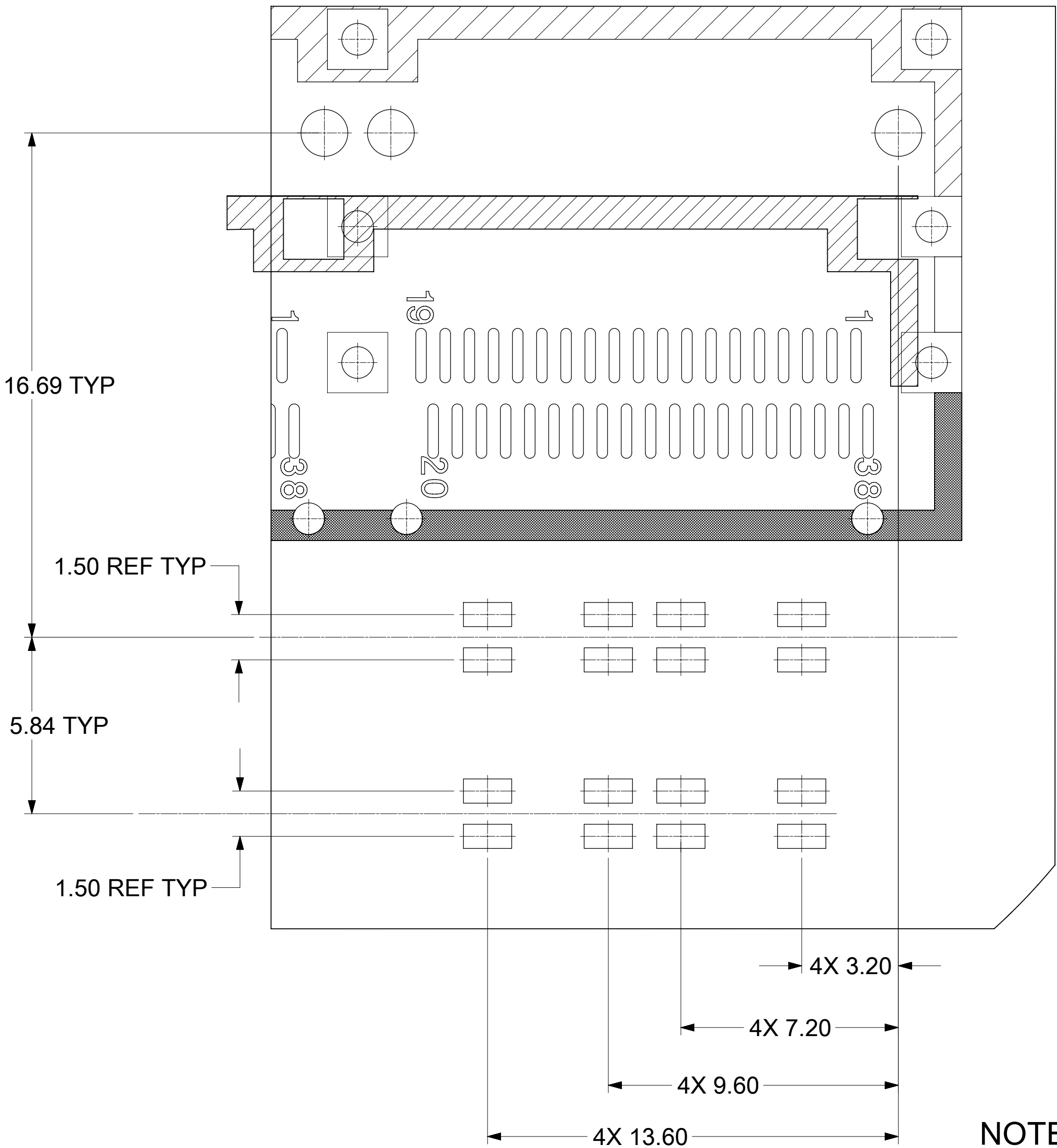
- NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERRIES 170432.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
<div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div><div><div>▽</div><div>=</div><div>0</div></div></div>	DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION HISTORY				<div><div>mo</div><div>lex</div></div>						
	mm		4:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 601541 DRWN: MKEMPEGOWDA 2017/06/07 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18				ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS						
	ANGULAR TOL ± 1.0 °														
	4 PLACES		±												
	3 PLACES		±		INITIAL REVISION: DRWN: KNAGANNA 2015/06/03 APPR: RCHEN08 2016/01/11				PRODUCT CUSTOMER DRAWING						
	2 PLACES		± 0.13												
	1 PLACE		± 0.25												
	0 PLACES		±		DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION		
					1000171200				PSD		SD		K		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								D-SIZE 100017		SEE P/N TABLE		GENERAL MARKET		5 OF 9	

LED PLACEMENT FOR 2 ROW QUAD LIGHT PIPE

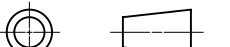


SEE Detail 1



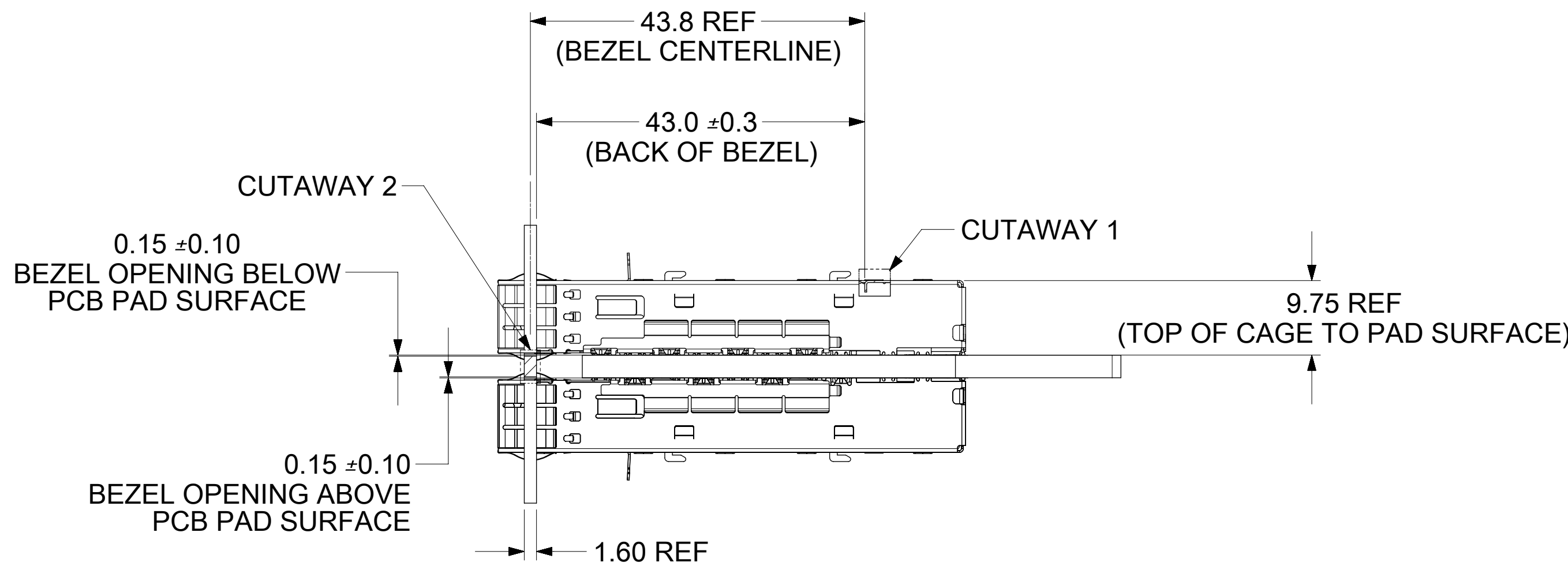
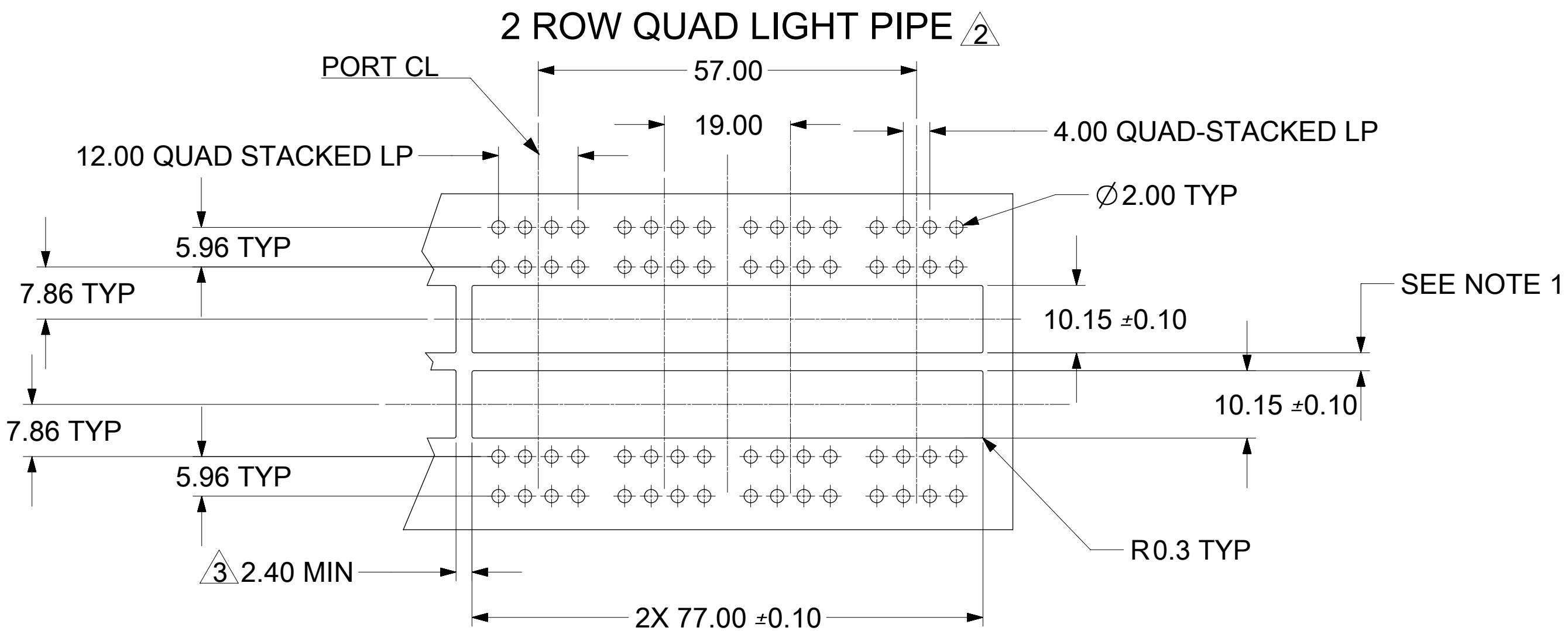
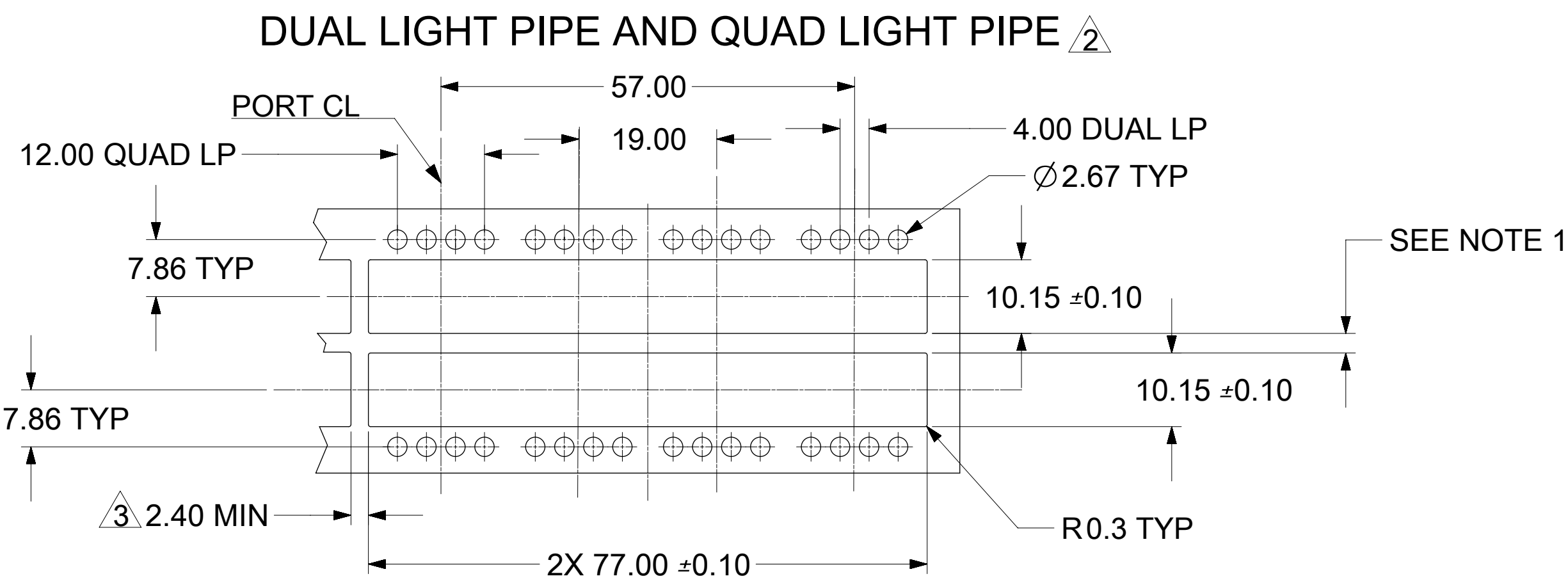
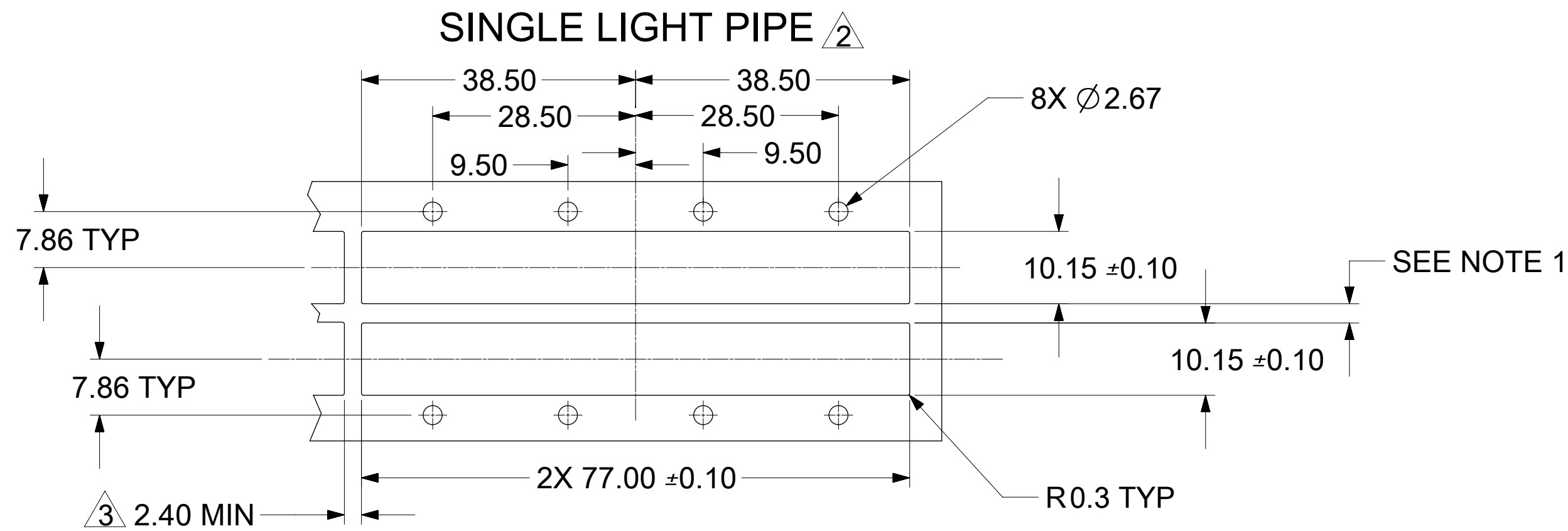
Detail 1
Scale 8:1

NOTE:
SEE SHEET 4 FOR HOST
CONNECTOR DETAIL

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 HISTORY				<div>molex</div> <div>ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS</div> <div>PRODUCT CUSTOMER DRAWING</div>			
mm		3:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 601541 DRWN: MKEMPEGOWDA 2017/06/07 CHK'D: TKUMARKC 2018/07/17 APPR: RCHEN08 2018/07/18 INITIAL REVISION: DRWN: KNAGANNA 2015/06/03 APPR: RCHEN08 2016/01/11									
ANGULAR TOL ± 1.0°											
4 PLACES ±											
3 PLACES ±											
2 PLACES ± 0.13		DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
1 PLACE ± 0.25											
0 PLACES ±		1000171200				PSD		SD		K	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
		D-SIZE		100017		SEE P/N TABLE		GENERAL MARKET		6 OF 9	

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/18	01:27:46
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BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING

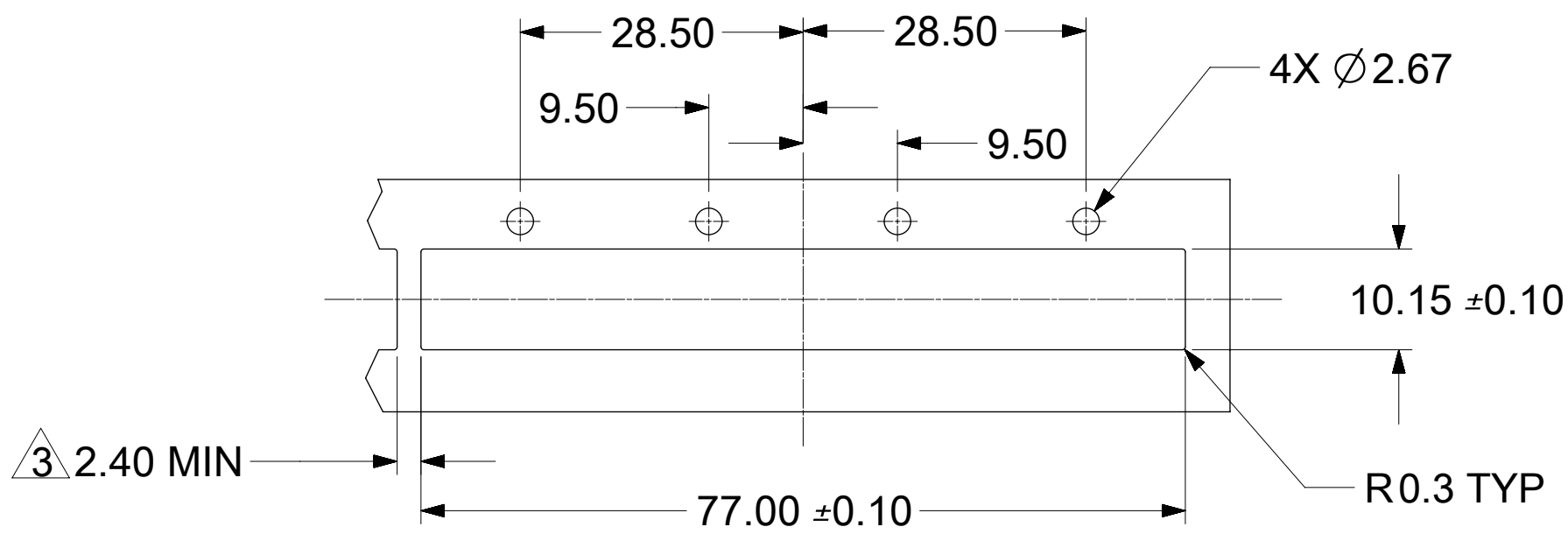


NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
2 NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
3 THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION.
(THIS DIMENSION VARIES BASED ON DISTANCE OF " HOLE OF ADJACENT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

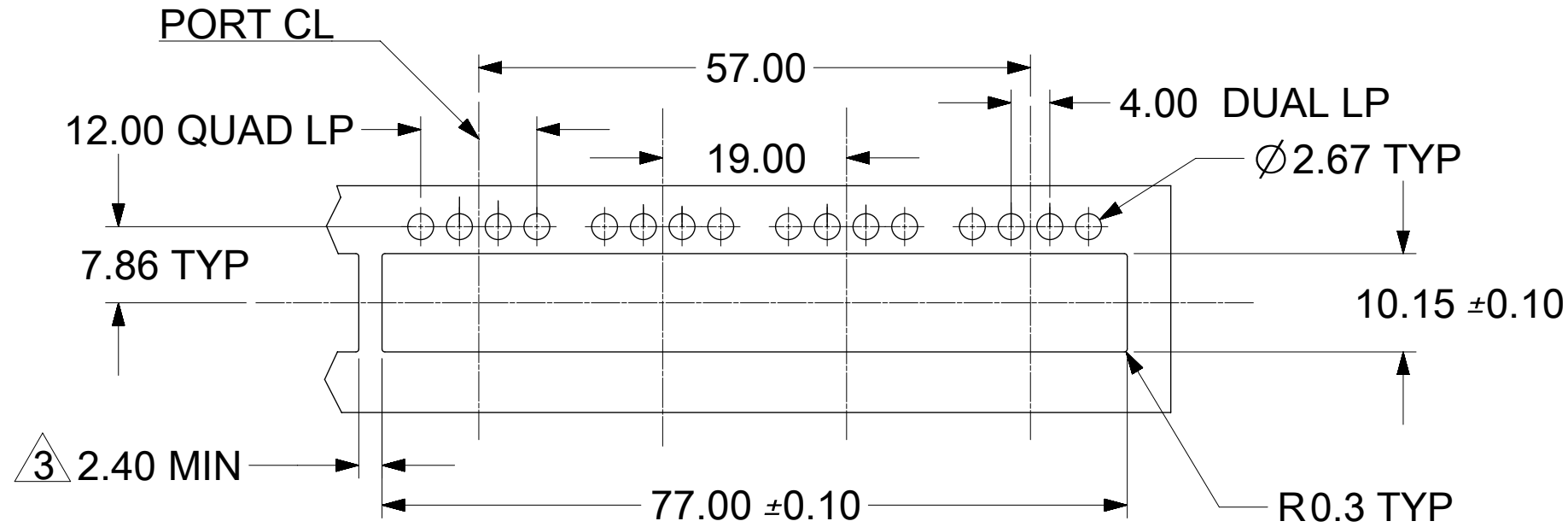
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
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BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDE MOUNTING

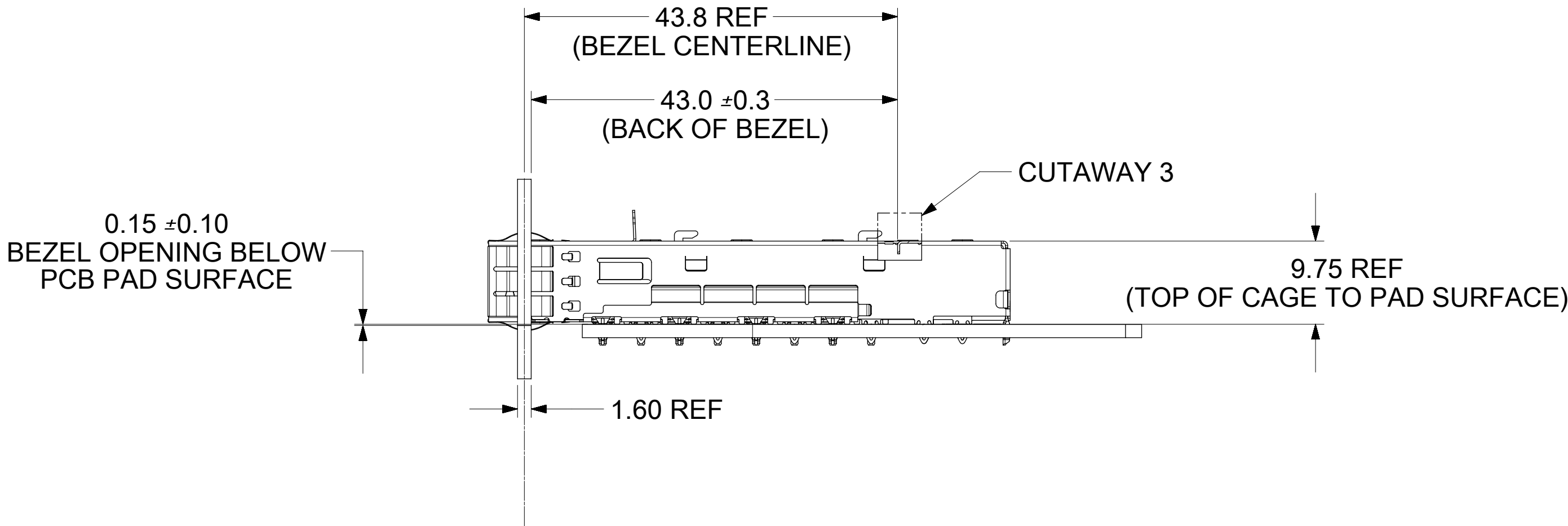
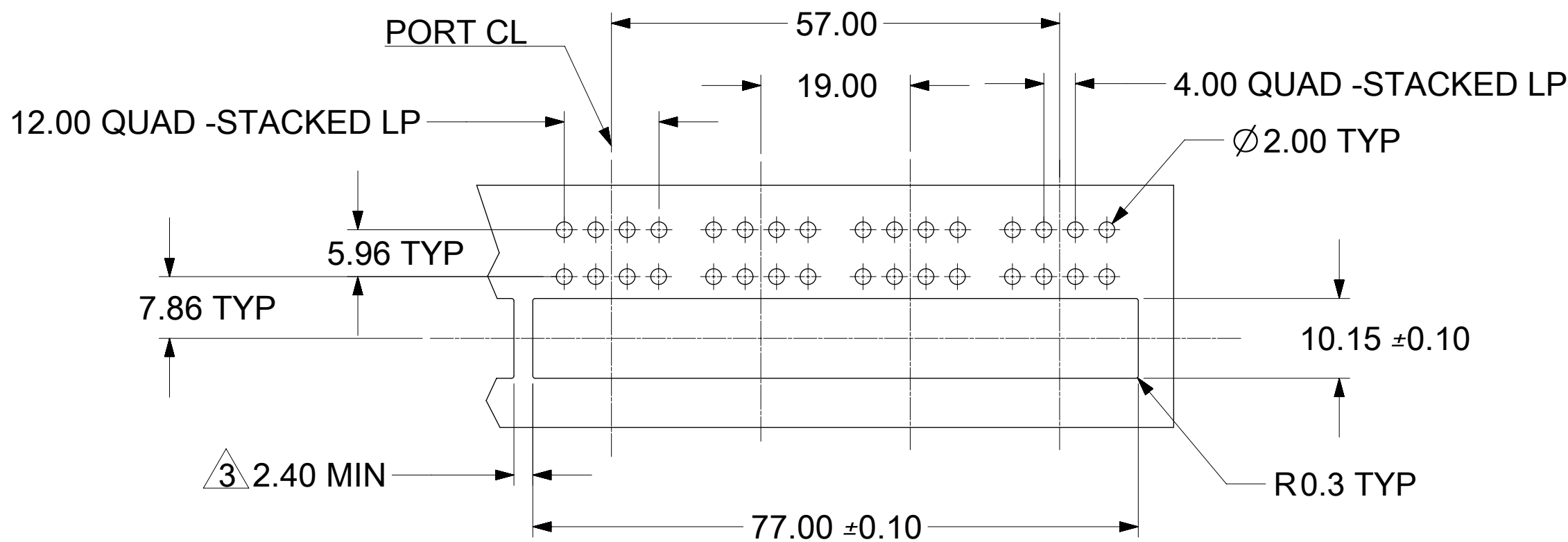
SINGLE LIGHT PIPE 2



DUAL LIGHT PIPE AND QUAD LIGHT PIPE 2



2 ROW QUAD LIGHT PIPE 2



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 ADIACENT 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												
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molex

ZQSFP+ 1X4 GANGED CAGE
ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS

PRODUCT CUSTOMER DRAWING

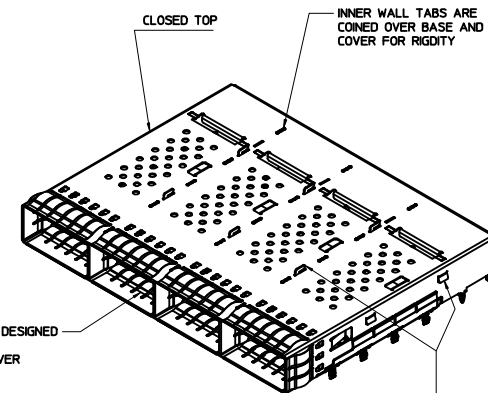
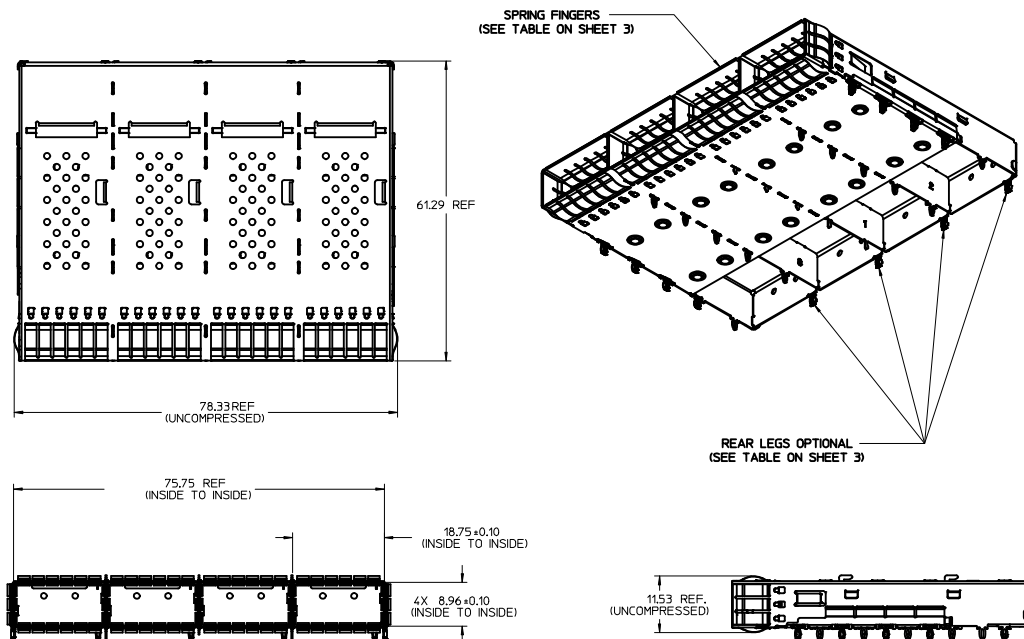
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1000171200	PSD	SD	K

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE P/N TABLE	GENERAL MARKET	8 OF 9

BASE CAGE DETAILS

1000171242

SHOWN



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

FEATURES USED WITH OPTIONAL HEAT SINKS



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

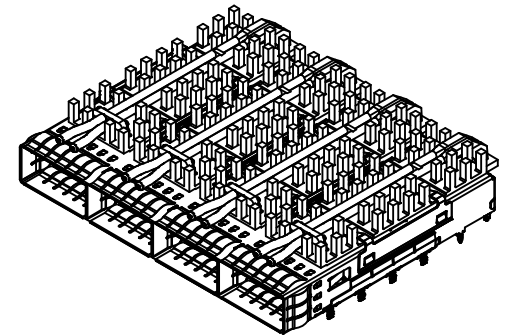
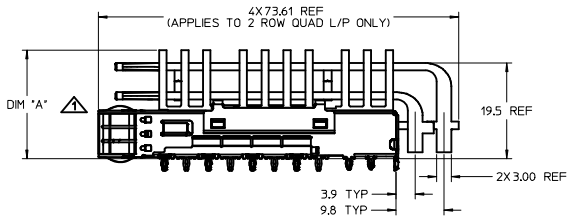
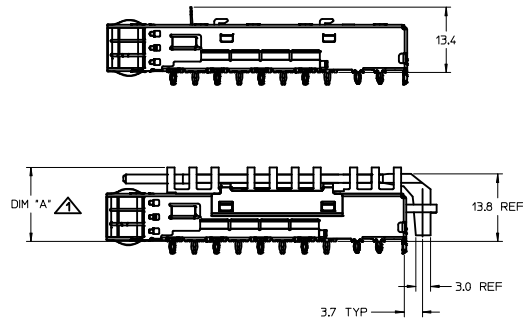
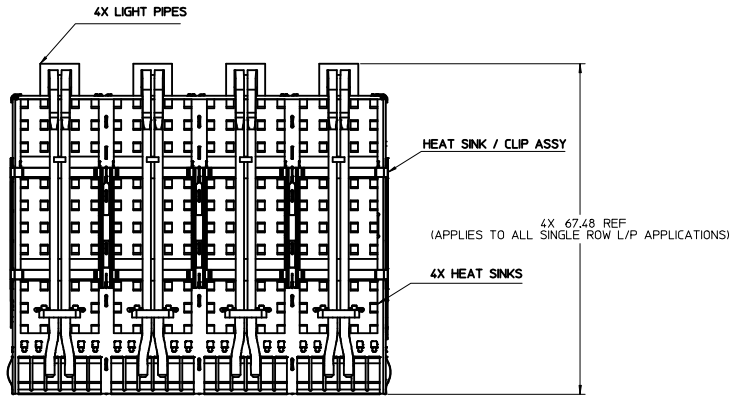
WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	15, 16, 17 ETC... (EXAMPLE: YEAR 2015= 15)

SEE REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
IEC NO: CPG2015-6475		$\nabla=0$		mm		MM ONLY		2:1		METRIC			
DRAWN: KUMARK		$\nabla=0$		INCH		DATE		DATE		DATE		DATE	
CHKD: DASH		$\nabla=0$		4 PLACES ± ---		BRED		2012/08/17		TITLE		ZQSFP+ 1X4 GANGED CAGE	
APPR: CHEN08		$\nabla=0$		3 PLACES ± ---		CHECKED BY		DATE		2012/08/17		ASSY'S (SPRING FINGER)	
REV				2 PLACES ± 0.13		TPRICE		DATE		2012/08/17		WITH H/S & L/P OPTIONS	
				1 PLACE ± 0.25		APPROVED BY		DATE		2013/04/08		molex	
				0 PLACE ± ---		KLLOYD		DATE		2013/04/08		SD-100017-1200	
				ANGULAR ± 1°		MATERIAL NO.		DOCUMENT NO.		SD-100017-1200		SHEET NO.	
				DRAFT WHERE APPLICABLE		SEE DRAWING		1 OF 8					
				MUST REMAIN WITHIN DIMENSIONS		SIZE D							

CAGE ASSEMBLY OPTIONS

1000171544

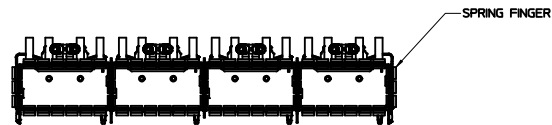
SHOWN



HEATSINK HEIGHT OPTIONS

OVERALL HEAT SINK HEIGHT	DIM "A"
PC1	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



HEATSINK AND LIGHT PIPE COMBINATIONS

HEATSINK
USED
WITHOUT
LIGHTPIPE

SINGLE / DUAL LIGHT PIPE

QUAD LIGHT PIPE

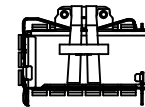
2 ROW QUAD LIGHT PIPE

HEATSINK

HEATSINK

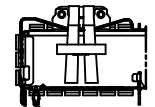
HEATSINK

REAR LEG OPTIONS



0 REAR LEGS

Partial1
SCALE 2.5:1



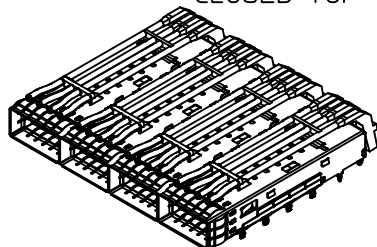
1 REAR LEG

Partial2
SCALE 2.5:1

SEE REVISION TABLE EC NO: CPG2015-6475 DRAWN BY: CHYKODASH CHECKED BY: APPR:CHEN08 DATE: 2015/06/16 DATE: 2015/06/24 DATE: 2015/06/24	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		TITLE ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS molex
			mm		INCH		DRAWN BY		DATE		SHEET NO.		
			4 PLACES ±		---		BREED		2012/08/17		2 OF 8		
			3 PLACES ±		---		CHECKED BY		DATE				
			2 PLACES ±		0.13		TPRICE		2012/08/17				
			1 PLACE ±		0.25		APPROVED BY		DATE				
			0 PLACE ±		---		KLLOYD		2013/04/08				
			ANGULAR ± 1°		MATERIAL NO.		DOCUMENT NO.						
			DRAFT WHERE APPLICABLE		SEE DRAWING		SD-100017-1200						
			MUST REMAIN WITHIN DIMENSIONS		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

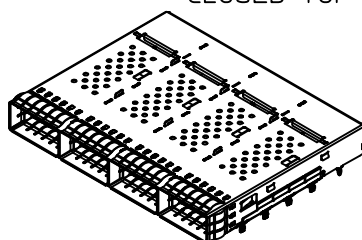
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



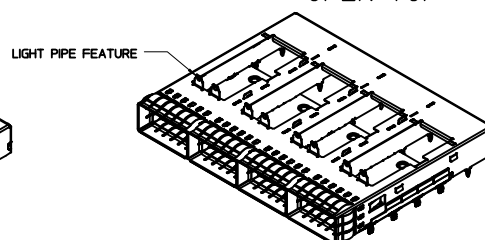
MOLEX P/N	LIGHTPIPES	#OF REAR LEGS PER PORT
1000171231	SINGLE	0
1000171232	SINGLE	1
1000171233	DUAL	0
1000171234	DUAL	1
1000171235	QUAD	0
1000171236	QUAD	1

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



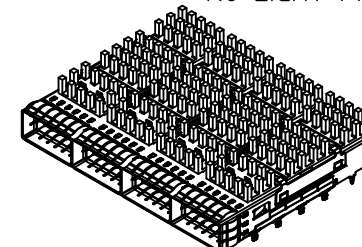
MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000171240	0
1000171242	1

NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT	LIGHT PIPE FEATURE
1000171250	0	YES
1000171252	1	YES
1000171255	1	NO

WITH HEATSINKS
NO LIGHT PIPES

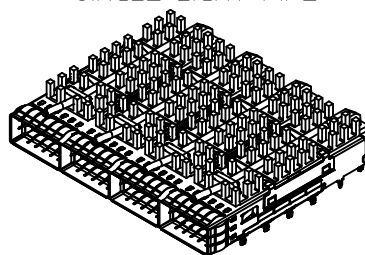


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000171340	PCI	0
1000171341	SAN	0
1000171342	NET	0
1000171343	PCI	1
1000171344	SAN	1
1000171345	NET	1

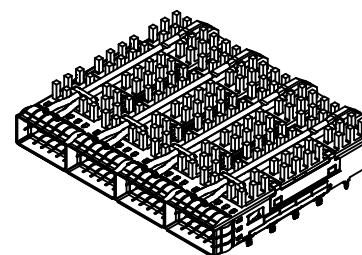
WITH HEATSINKS AND LIGHT PIPES

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000171440	SINGLE	PCI	0
1000171441	SINGLE	SAN	0
1000171442	SINGLE	NET	0
1000171443	DUAL	PCI	0
1000171444	DUAL	SAN	0
1000171445	DUAL	NET	0
1000171446	QUAD	PCI	0
1000171447	QUAD	SAN	0
1000171448	QUAD	NET	0
1000171540	SINGLE	PCI	1
1000171541	SINGLE	SAN	1
1000171542	SINGLE	NET	1
1000171543	DUAL	PCI	1
1000171544	DUAL	SAN	1
1000171545	DUAL	NET	1
1000171546	QUAD	PCI	1
1000171547	QUAD	SAN	1
1000171548	QUAD	NET	1
1000171647	2 ROW QUAD	SAN	1
1000171648	2 ROW QUAD	NET	1
1000171649	2 ROW QUAD	CUSTOM (A=19.0 REF)	1

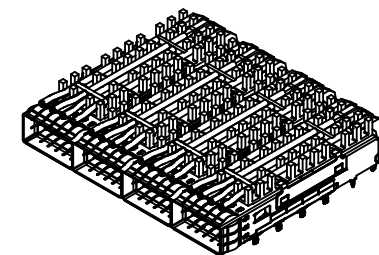
SINGLE LIGHT PIPE



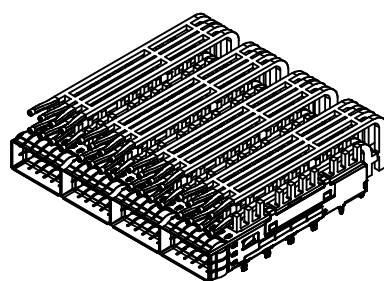
DUAL LIGHT PIPE



QUAD LIGHT PIPE

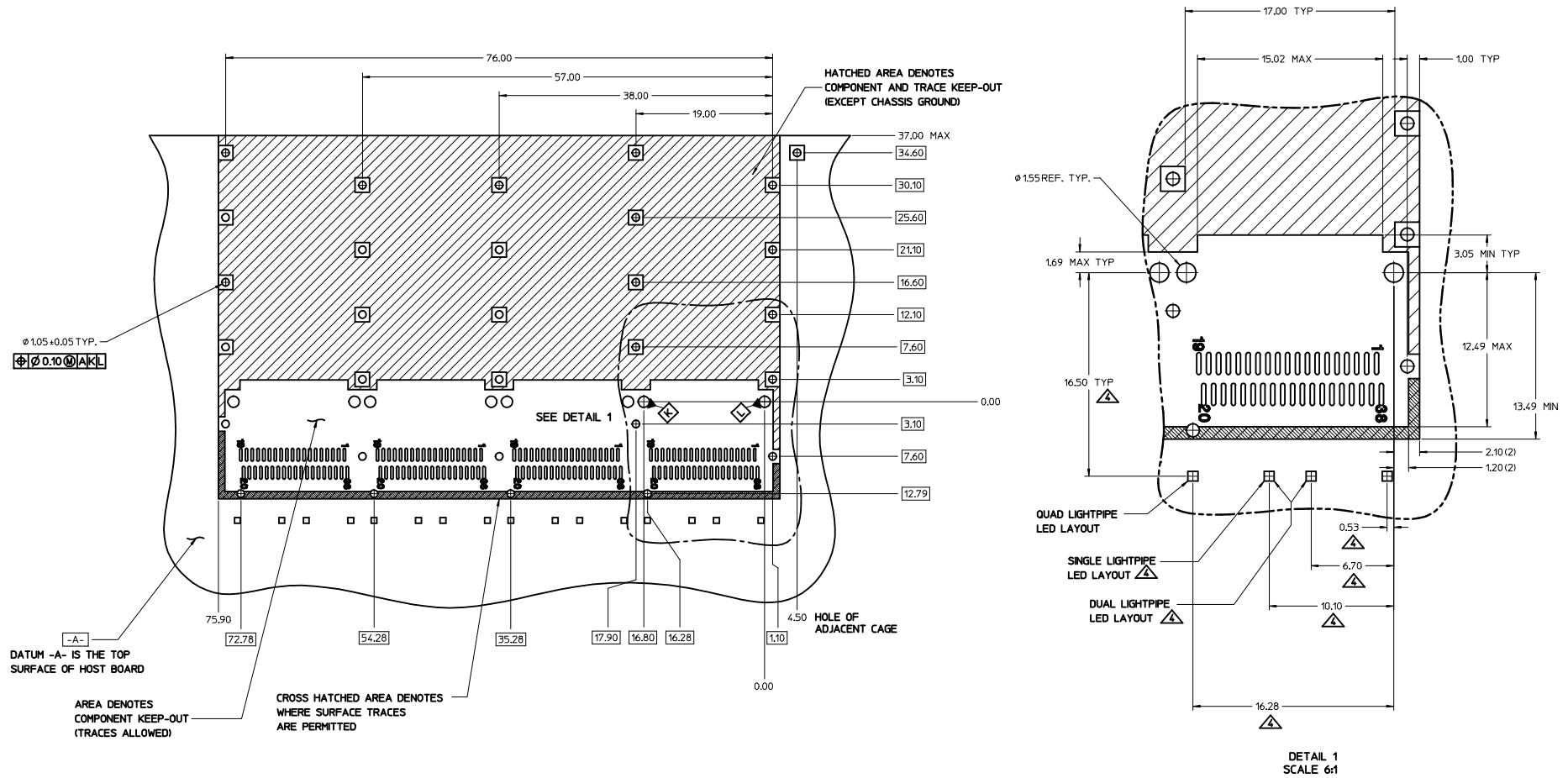


2 ROW QUAD LIGHT PIPE



SEE REVISION TABLE IEC NO: CPG2015-6475 DRAWN BY: CHYKODASH CHECKED BY: APPR: RCHEN08 DATE: 2015/06/16 DATE: 2015/06/16 DATE: 2015/06/16	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY SCALE 1.5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS molex MATERIAL NO. SEE DRAWING DOCUMENT NO. SD-100017-1200	SHEET NO. 3 OF 8

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 SERIES 170432.
4. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
REV	DESCRIPTION	SYMBOL	DESCRIPTION	MM	INCH	MM ONLY	DATE	3.5:1	METRIC	METRIC			
1	SEE REVISION TABLE	▽=0	4 PLACES ±	±	---	BREED	2012/08/17						
2	EC NO: CPG2015-6475	▽=0	3 PLACES ±	±	---	CHECKED BY	DATE						
3	DRAWN BY: CHYKODASH	▽=0	2 PLACES ±	±	0.13	TPRICE	2012/08/17						
4	APPROVED BY: KLOYD	▽=0	1 PLACE ±	±	0.25	APPROVED BY	DATE						
5			0 PLACE ±	±	---	KLOYD	2013/04/08						
				ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO.					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE DRAWING		SD-100017-1200					
						SIZE		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

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

DATUM -A- IS THE TOP
SURFACE OF HOST BOARD

Ø105±0.05 TYP
Ø105±0.05 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

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

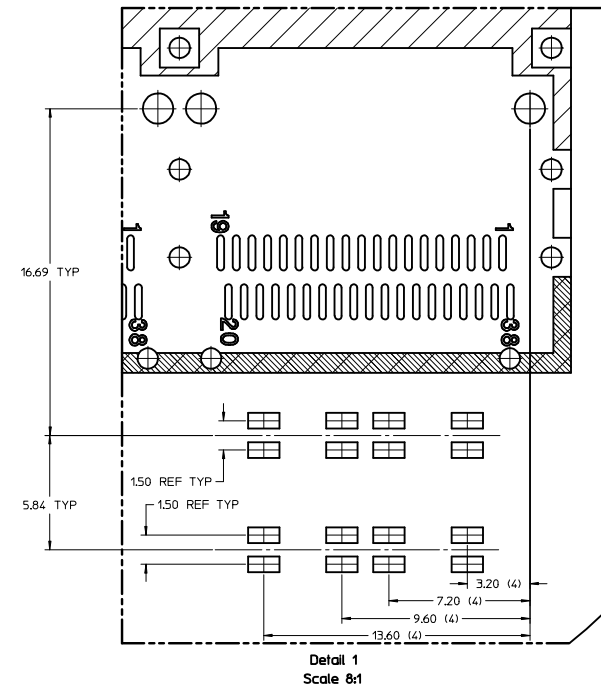
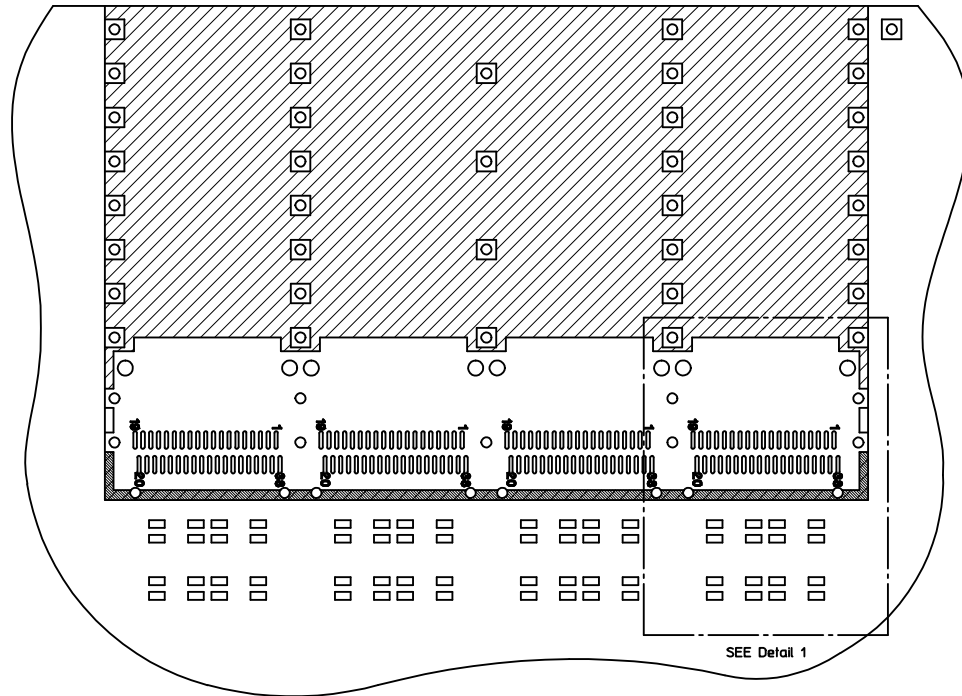
SEE SHEET 6 FOR DUAL-QUAD
LED LOCATION DETAIL

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 SERIES 170432.

SEE REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: CPG2015-6475	2015/06/16	DRWN: KIMARK	2015/06/16	▽=0	mm	MM ONLY	DATE	4:1	METRIC	DATE	TITLE	ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
CHKD: DASH	2015/06/16	APP: RCHEN08	2015/06/16	▽=0	INCH	BREED	2012/08/17						
				▽=0	4 PLACES ± ---	CHECKED BY	DATE					molex	
					3 PLACES ± ---	TPRICE	2012/08/17						
					2 PLACES ± 0.13	APPROVED BY	DATE					SD-100017-1200	
					1 PLACE ± 0.25	KLLOYD	2013/04/08						
					0 PLACE ± ---	MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
					ANGULAR ± 1°	SEE DRAWING		SD-100017-1200				5 OF 8	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

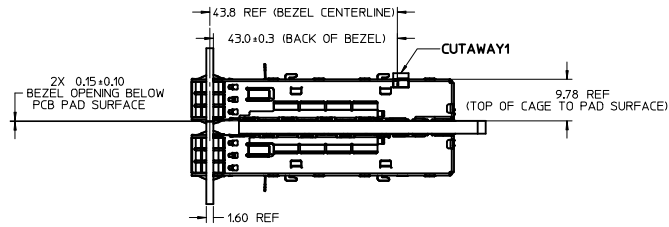
LED PLACEMENT FOR 2 ROW QUAD LIGHT PIPE



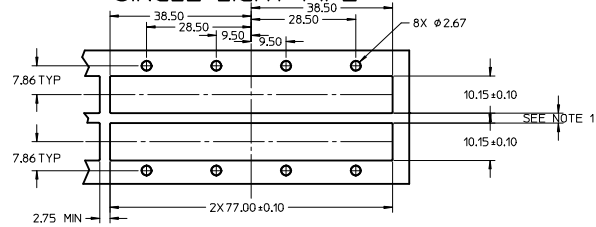
NOTE:
SEE SHEET 4 FOR HOST
CONNECTOR DETAIL

SEE REVISION TABLE IEC NO: CPG2015-6475 DRAWN BY: CHYKODASH CHECKED BY: APPR:CHEN08 DATE: 2015/06/16 DATE: 2015/06/14 DATE: 2015/06/14	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- 3 PLACES ± --- 2 PLACES ± 0.13 1 PLACE ± 0.25 0 PLACE ± ---	mm INCH	DRAWN BY: BREED DATE: 2012/08/17 CHECKED BY: TPRICE DATE: 2012/08/17 APPROVED BY: KLLLOYD DATE: 2013/04/08	TITLE ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS		
		ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO: SEE DRAWING	DOCUMENT NO: SD-100017-1200	SHEET NO: 6 OF 8	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

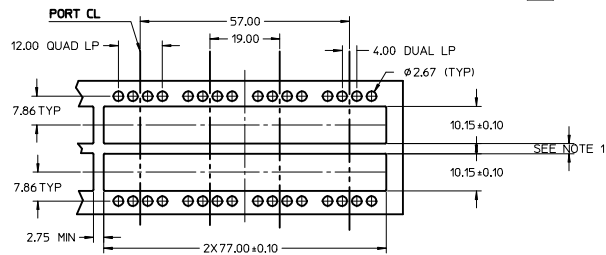
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



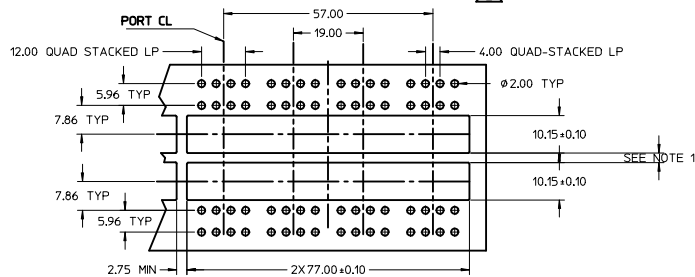
SINGLE LIGHT PIPE



DUAL LIGHT PIPE AND QUAD LIGHT PIPE

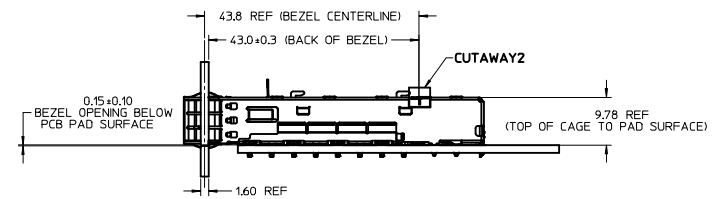


2 ROW QUAD LIGHT PIPE

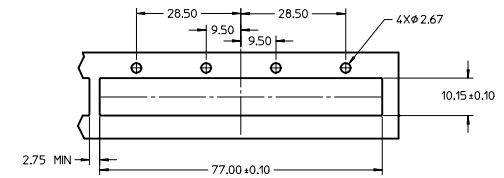


NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

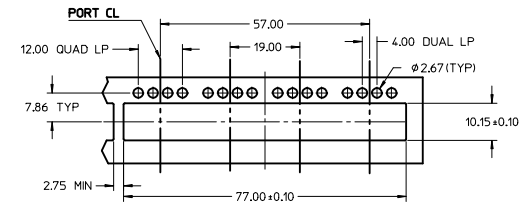
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



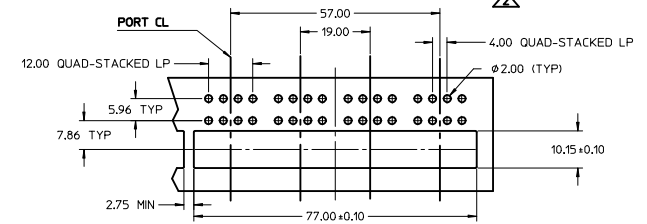
SINGLE LIGHT PIPE



DUAL LIGHT PIPE AND QUAD LIGHT PIPE



2 ROW QUAD LIGHT PIPE



SEE REVISION TABLE EC NO: CPG2015-6475 DRWN:KUMARK 2015/06/16 CHK:DASH 2015/06/16 APPR:CHEN08 2015/06/16		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		▽=0		mm INCH		DRAWN BY DATE		TITLE		ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS molex	
		▽=0		4 PLACES ± ± ± ±		BRED 2012/08/17		CHECKED BY DATE			
		▽=0		3 PLACES ± ± ± ±		TPRICE 2012/08/17		APPROVED BY DATE			
		▽=0		2 PLACES ± ± ± ±		KLLOYD 2013/04/08		MATERIAL NO.			
REV		DESCRIPTION		ANGULAR ± 1 °		SEE DRAWING		DOCUMENT NO.		SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SD-100017-1200 7 OF 8	

REV	DATE	DESCRIPTION
A	03/29/2013	RELEASE
B	06/26/2013	ADDED DIM 12.77 AT G-9 ON SHEET 4.
C	02/05/2014	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. SHEET 2: MADE HEATSINK HEIGHT DIMENSIONS REF. CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	10/06/2014	ADDED 2 ROW QUAD LIGHT PIPE OPTION SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J14: 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 H18: MADE HOLE DIAMETER DIMENSION TYP SHEET 7: EDIT NOTE 1, REMOVED 'SIZE' REMOVED NOTE 1 FROM ALL '10.15' DIMENSIONS
F	03/12/2015	ADDED 1000171255 & LIGHT PIPE FEATURE IN COLUMN 8 M10 ON SHEET3.
G	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 ØD5, ØE4, ØE6, ØF4, ØF6, AND ØH7 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 ØK11, K12, K13, AND ØK14 SHEET 6: REVISED PORT CL 'WAS' (4) 'NOW' PORT CL ØE7, D17, G17 AND ØH7
H	06/16/2015	SHEET 1: C7: CHANGED YR FROM 12.13.14 ETC.(EXAMPLE: YEAR 2012-12) TO 15.16.17 ETC.(EXAMPLE: YEAR 2015-15) SHEET 3: B18: ADDED PN 1000171649 CUSTOM H/S 19mm TO HEATSINK AND LIGHT PIPE TABLE SHEET 6: CHANGED REVISION DESCRIPTION FROM ENTER DESCRIPTION TO SEE REVISION TABLE CHANGED MATERIAL NO. FROM 9999999999 TO SEE DRAWING

SEE REVISION TABLE EC NO: CPG2015-6475 DRAWN: KUMARKC 2015/06/16 CHKD: DASH 2015/06/14 APPR: RCHEN08 2015/06/14 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			MM ONLY		METRIC	
	▽=0	4 PLACES ± ---	mm	DRAWN BY	DATE	TITLE
	▽=0	3 PLACES ± ---	inch	CHECKED BY	DATE	ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS
	▽=0	2 PLACES ± 0.13		TPRICE	2012/08/17	
	1 PLACE ± 0.25		APPROVED BY	DATE	molex	
	0 PLACE ± ---		KLLOYD	2013/04/08		
		ANGULAR ± 1 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE DRAWING	SD-100017-1200	8 OF 8	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			