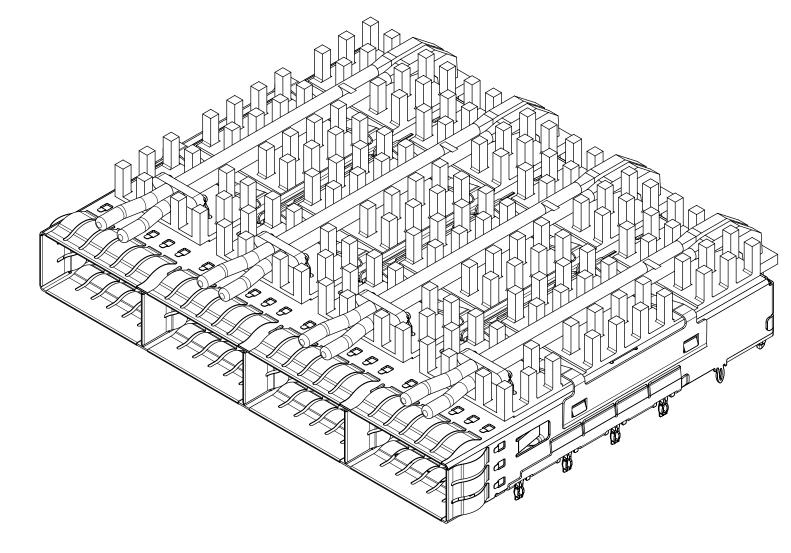


RELEASE STATUS P1 RELEASE DATE 29.01.2016 08:06:05



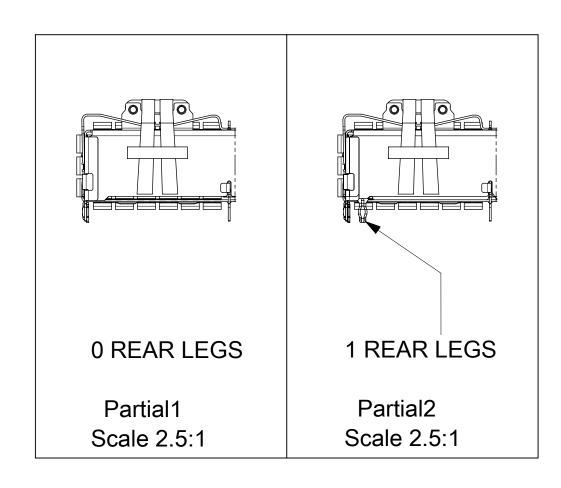
### HEATSINK HEIGHT OPTIONS

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

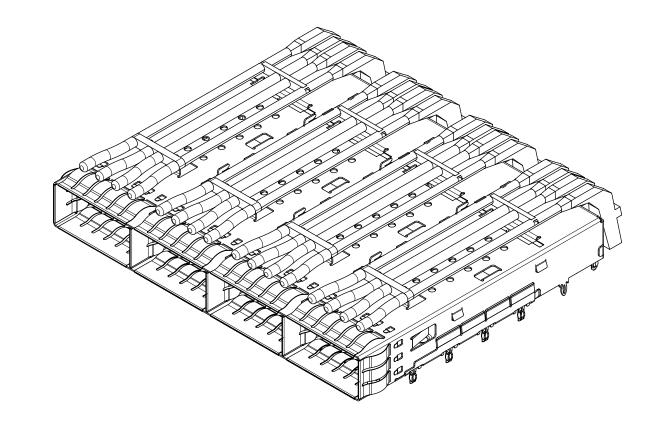
### REAR LEG OPTIONS



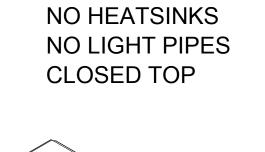
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	NO NO	3 PLACES	±	CHK'D BY		ASSY'S	S (SPRING	FINGER	() WITH	H/S &	L/P OPTIONS	5
= 0	:VISIOI 303 16	2 PLACES	± 0.13	JHATTON	2015/12/18							
<u></u>	EE REVIS 92688 CHENG03 7ANG16 CHEN08			APPR BY	DATE		PRODUC	CT CUS	TOMER	DRAW	/ING	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1 PLACE	± 0.25			SERIES	MATERIAL NUMB			CUSTOMER		
= 0	30 ← 4 00 F	0 PLACES	±	DDAMANA 0175		OLIVILO	IVIATENIAL NOVIB	LIX		COSTONE	`	
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© = 0	J3	WITHIN DIM			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DOCUMENT N	юмвек 1000171200		PSD	SD	SHEET NUMBER 2 OF 9	
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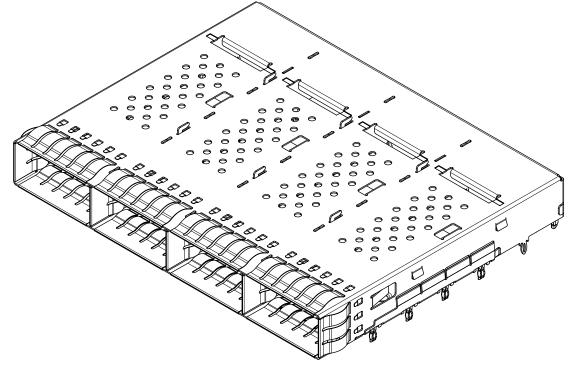
## PART NUMBER SELECTION

NO HEATSINKS WITH LIGHT PIPES CLOSED TOP



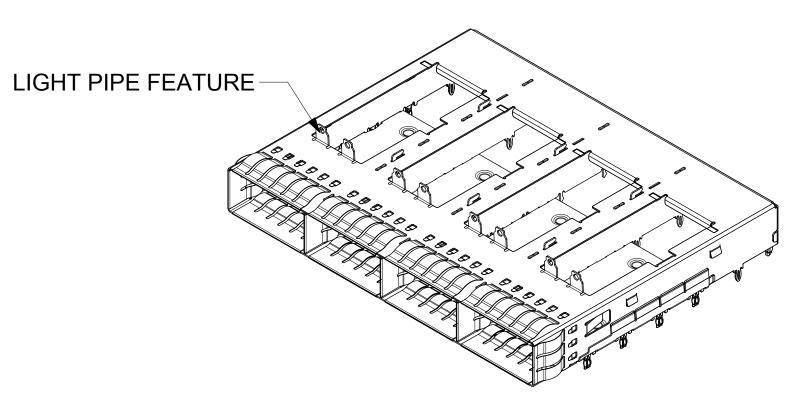
MOLEY D/N	LIGHT PIPES	#OF REAR LEGS
WOLEX P/IN	LIGHT FIFES	PER PORT
1000171231	SINGLE	0
1000171232	SINGLE	1
1000171233	DUAL	0
1000171234	DUAL	1
1000171235	QUAD	0
1000171236	QUAD	1



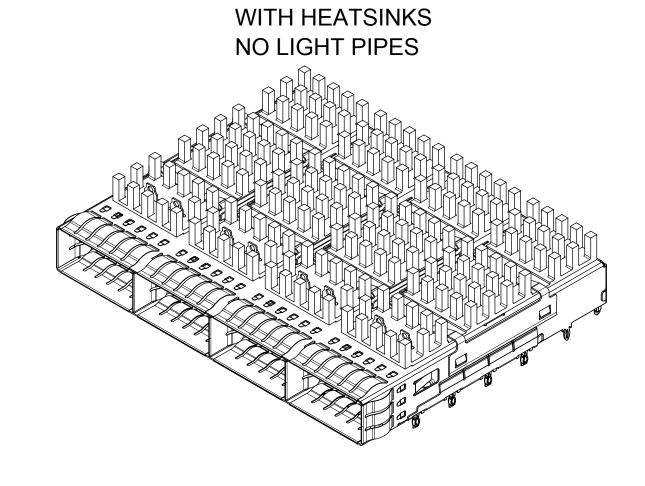


MOLEX P/N	#OF REAR LEGS
W/ SPRING FINGERS	PER PORT
1000171240	0
1000171242	1

NO HEATSINKS NO LIGHT PIPES OPEN TOP



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

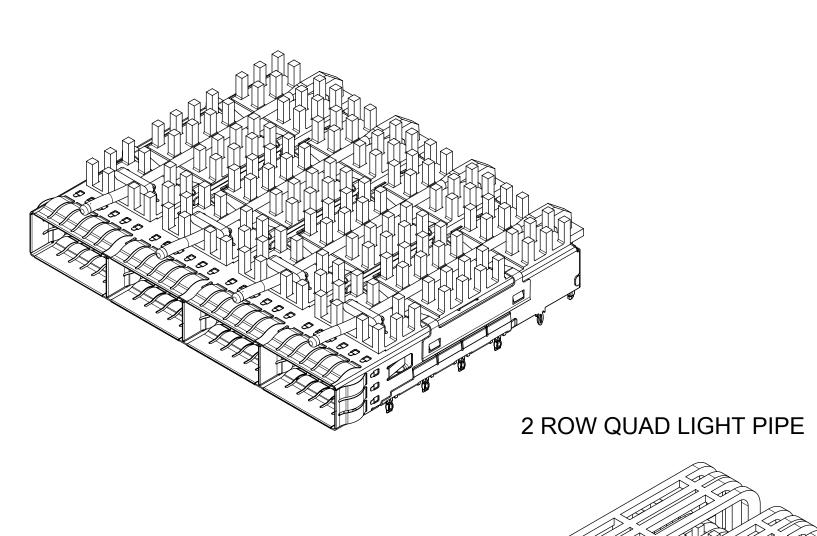


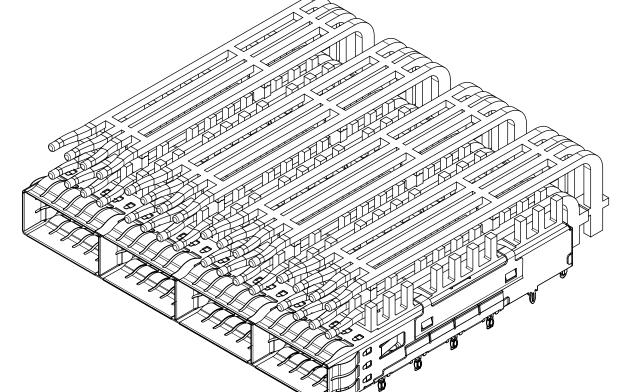
MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000171340	PCI	0
1000171341	SAN	0
1000171342	NET	0
1000171343	PCI	1
1000171344	SAN	1
1000171345	NET	1

## WITH HEATSINKS AND LIGHT PIPES

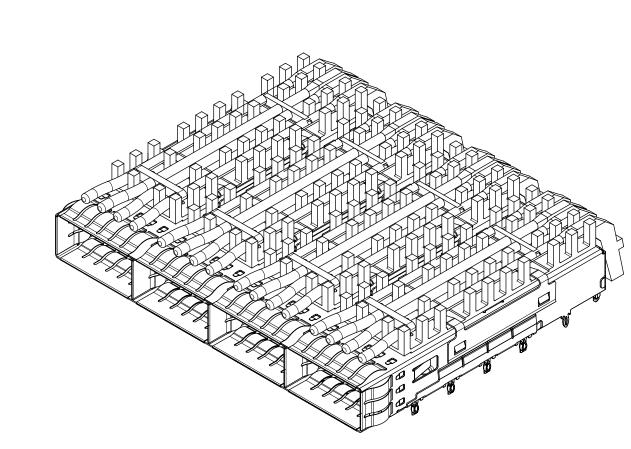
MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000171440	SINGLE	PCI	0
1000171441	SINGLE	SAN	0
1000171442	SINGLE	NET	0
1000171443	DUAL	PCI	0
1000171444	DUAL	SAN	0
1000171445	DUAL	NET	0
1000171446	QUAD	PCI	0
1000171447	QUAD	SAN	0
1000171448	QUAD	NET	0
1000171540	SINGLE	PCI	1
1000171541	SINGLE	SAN	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** 

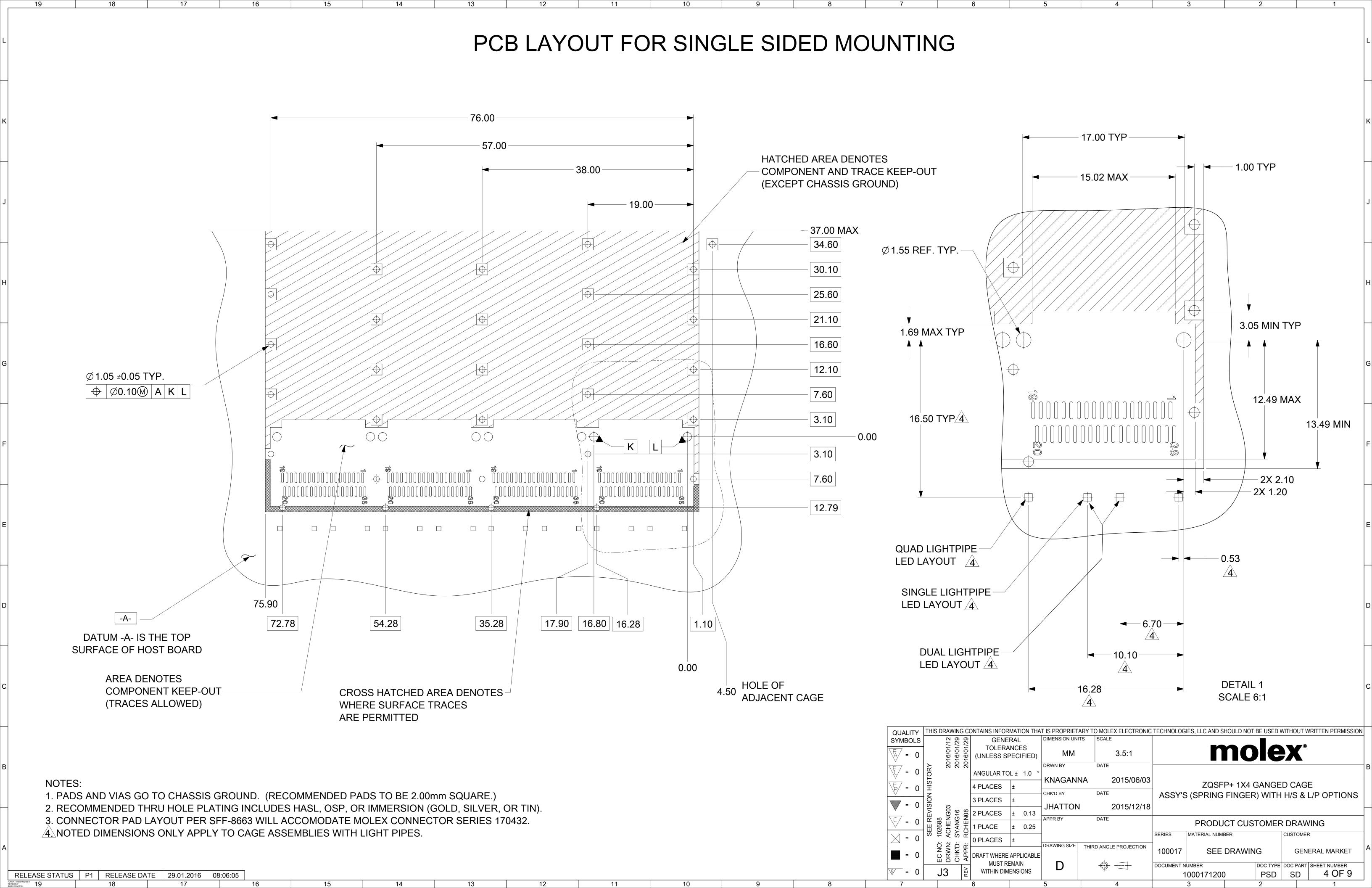


QUAD LIGHT PIPE

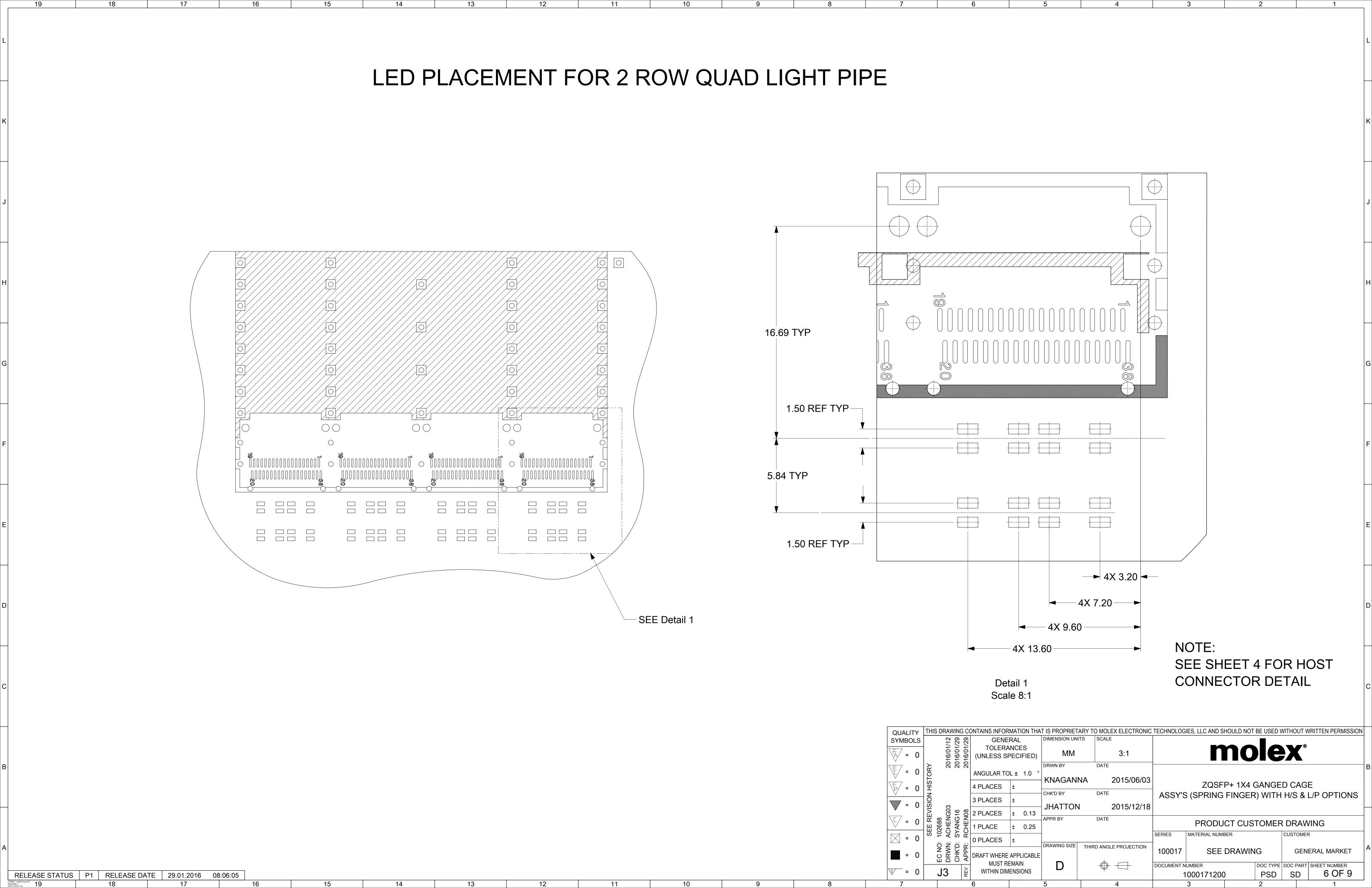
QUALI	ΤY	THIS		_	RMATION THA	_		TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSIO
SYMBO	DLS		12 29 29	GENE	RAL	DIMENSION UNITS	SCALE	
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/ <u>C</u> =	Ü	2		ANGULAR TO	DL ± 1.0 °	KNAGANNA	2015/06/03	
F/ =	0	HIS		4 PLACES	±	KINAGAINIA	2013/00/03	ZQSFP+ 1X4 GANGED CAGE
<u> </u>		z				CHK'D BY	DATE	ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS
<b>/////</b> =	0	ISIC	<b>~</b>	3 PLACES	±	JHATTON	2015/12/18	
	Ü	\ <u>\</u>	NG03 316	2 PLACES	± 0.13	JUNITON	2013/12/10	
<u></u>	0	RE &	żυz			APPR BY	DATE	PRODUCT CUSTOMER DRAWING
		SEE	3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 PLACE	± 0.25			FRODUCT COSTOWER DRAWING
		S		; <del> </del>	+	┪		SERIES MATERIAL NUMBER CUSTOMER

DRAWING SIZE THIRD ANGLE PROJECTION

DOC TYPE DOC PART SHEET NUMBER SD 3 OF 9



#### PCB LAYOUT FOR BELLY TO BELLY MOUNTING 76.00 - 57.00 -38.00 HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT - 19.00 (EXCEPT CHASSIS GROUND) 37.00 MAX 34.60 NOTE: -A-30.10 SEE SHEET 4 FOR HOST CONNECTOR DETAIL DATUM -A- IS THE TOP AND SINGLE ROW LED SURFACE OF HOST BOARD 25.60 **LOCATION DETAIL** 21.10 SEE SHEET 6 FOR DUAL-QUAD LED LOCATION DETAIL Ø 1.05 ±0.05 TYP 16.60 12.10 7.60 3.10 0.00 3.10 7.60 12.79 HOLES FOR OPTIONAL 16.80 17.90 **REAR LEGS** 75.90 16.28 1.02 AREA DENOTES HOLE OF COMPONENT KEEP-OUT (TRACES ALLOWED) CROSS HATCHED AREA DENOTES THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION FOR CAGE ASSEMBLIES WHERE SURFACE TRACES molex® **TOLERANCES** WITH LIGHT PIPES ARE PERMITTED (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 KNAGANNA 2015/06/03 ZQSFP+ 1X4 GANGED CAGE 4 PLACES ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS 2015/12/18 0.13 PRODUCT CUSTOMER DRAWING NOTES: 0.25 1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.) 0 PLACES DRAWING SIZE THIRD ANGLE PROJECTION 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN). SEE DRAWING **GENERAL MARKET** DRAFT WHERE APPLICABLE 3. CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMODATE MOLEX CONNECTOR SERRIES 170432. MUST REMAIN **♦ □** DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER 5 OF 9 WITHIN DIMENSIONS 1000171200 PSD SD



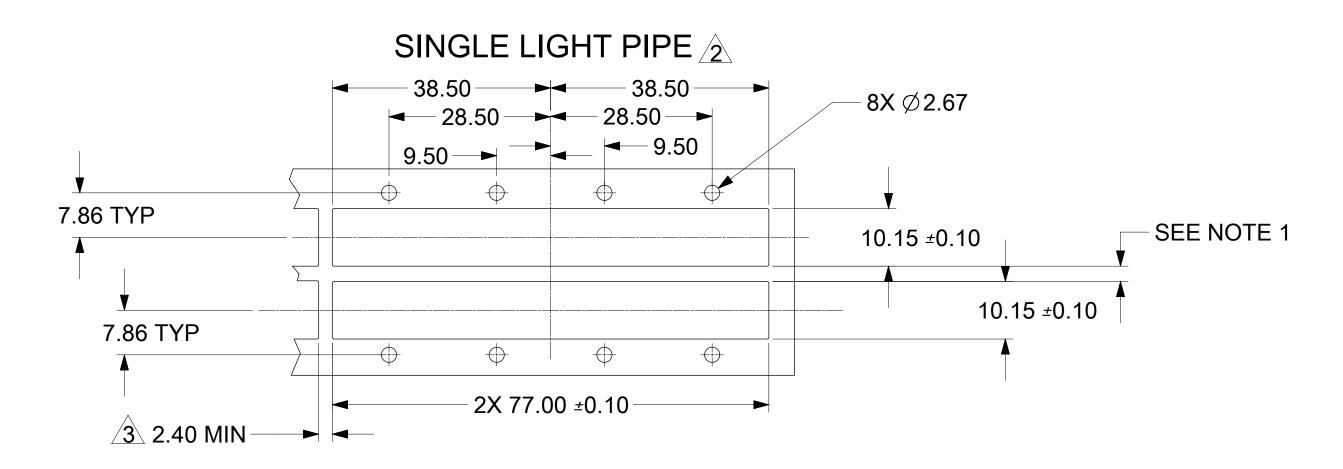
### BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING

43.0 ±0.3 (BACK OF BEZEL)

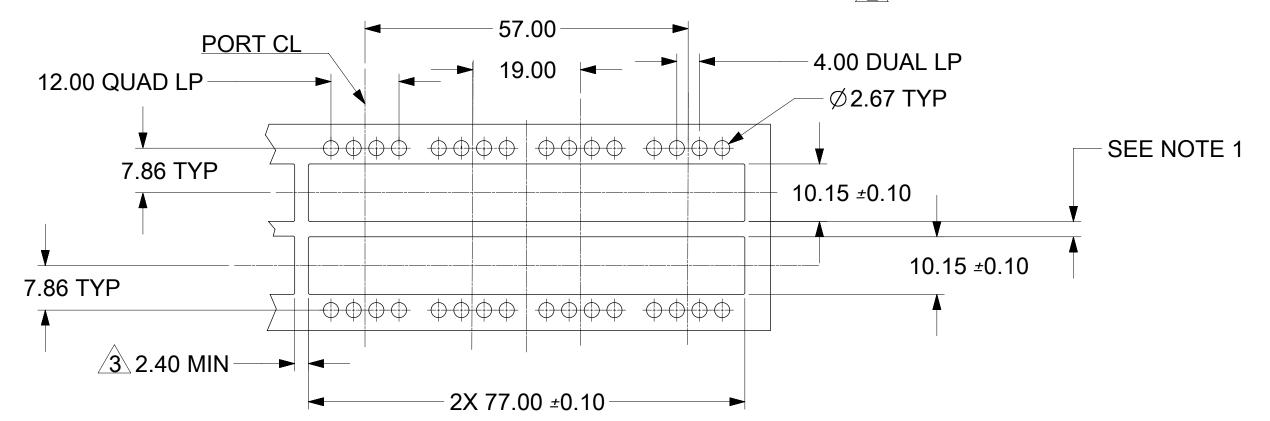
→ 1.60 REF

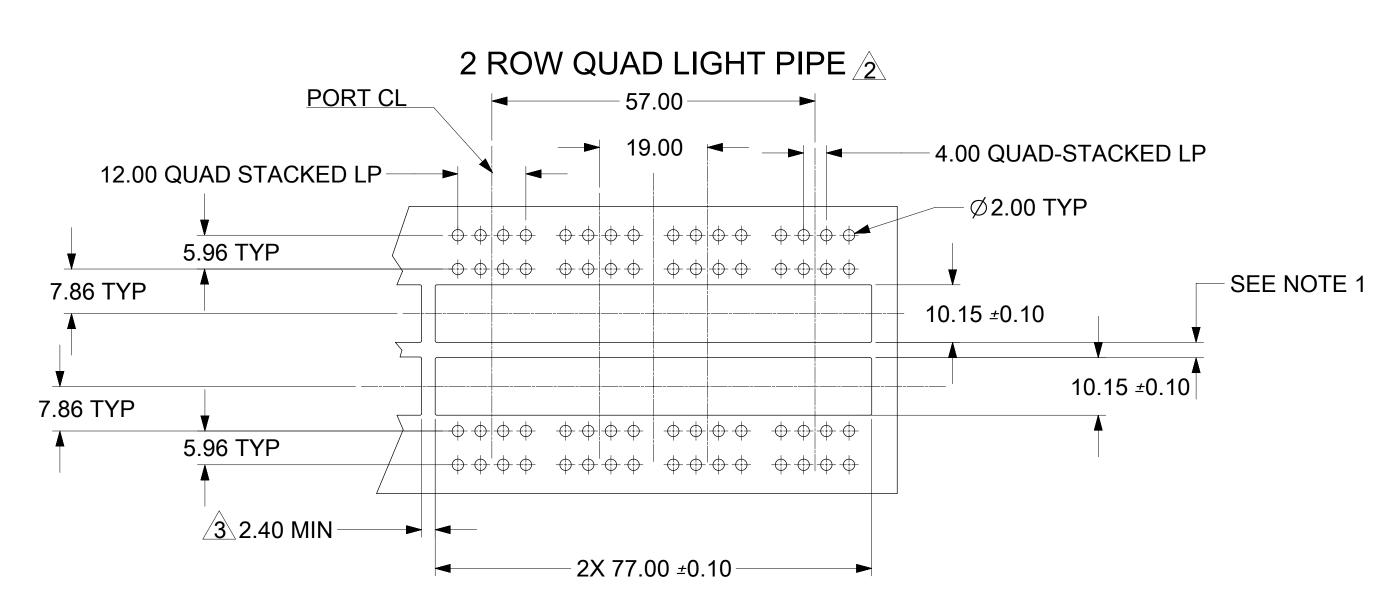
2X 0.15 ±0.10

BEZEL OPENING BELOW-PCB PAD SURFACE



### DUAL LIGHT PIPE AND QUAD LIGHT PIPE /2





#### NOTE:

1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.

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- 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.)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION QUALITY SYMBOLS molex® TOLERANCES
(UNLESS SPECIFIED) 2.5:1 ANGULAR TOL ± 1.0 KNAGANNA 2015/06/03 ZQSFP+ 1X4 GANGED CAGE 4 PLACES ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS 3 PLACES 2015/12/18 <sup>∞</sup> 2 PLACES 0.13 PRODUCT CUSTOMER DRAWING 0.25 0 PLACES DRAWING SIZE THIRD ANGLE PROJECTION SEE DRAWING **GENERAL MARKET** DRAFT WHERE APPLICABLE MUST REMAIN DOC TYPE DOC PART SHEET NUMBER DOCUMENT NUMBER WITHIN DIMENSIONS 7 OF 9 PSD SD 1000171200

43.8 REF (BEZEL CENTERLINE)

9.78 REF

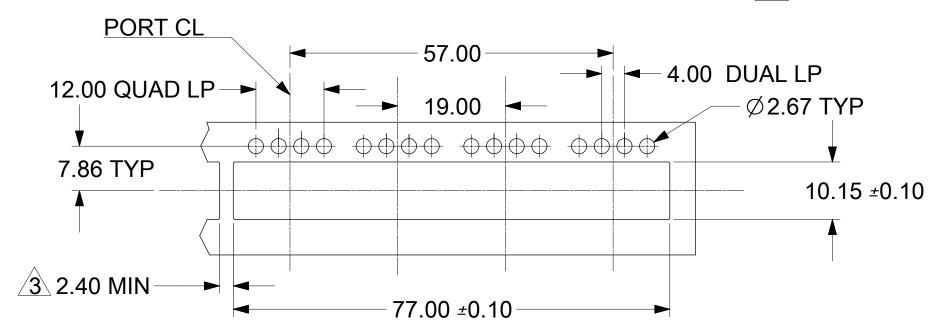
(TOP OF CAGE TO PAD SURFACE)

CUTAWAY 1

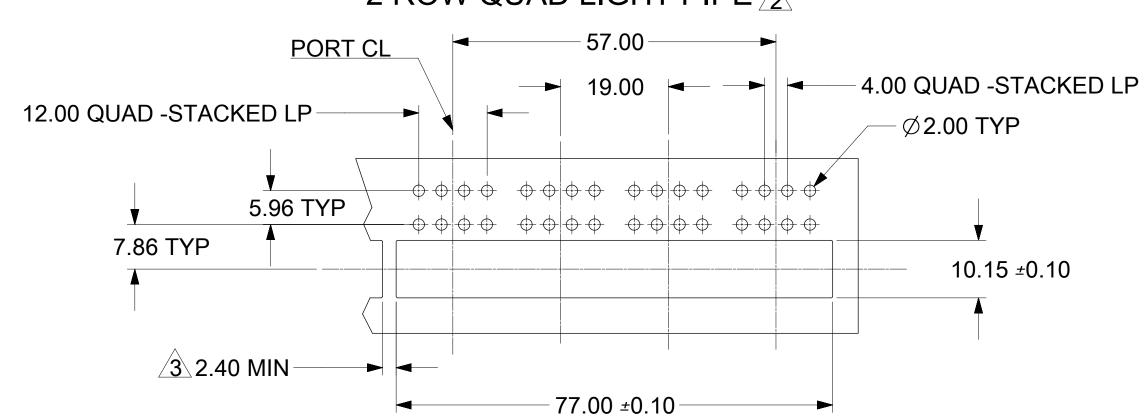
## BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING

## 

### DUAL LIGHT PIPE AND QUAD LIGHT PIPE 🚖



## 2 ROW QUAD LIGHT PIPE 🚖



# NOTE: 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING

RELEASE STATUS P1 RELEASE DATE 29.01.2016 08:06:05

- BEZEL OPENING LOCATION.

  2 NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
- 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.)

43.0 ±0.3 (BACK OF BEZEL)

43.8 REF (BEZEL CENTERLINE)

CUTAWAY 2

2X 0.15 ±0.10

BEZEL OPENING BELOW
PCB PAD SURFACE

9.78 REF
(TOP OF CAGE TO PAD SURFACE)

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<u>C</u> /	=	0		J3				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1000171200		PSD	SD	8 OF 9	
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	_	Λ		EC NO. DRWN. CHK'D.	-	ADDLICADIE	DRAWING SIZE	THIRD ANGLE PROJECTION	100017	SEE	DRAWIN	G	GEN	IERAL MARKET	
	=	0	"		0 PLACES	±	DDAMINO 0175		SERIES	MATERIAL NUMB	SEK		CUSTOME	К	
<u> </u>	_	U	SEE	102688 ACHENG03 SYANG16	1 PLACE	± 0.25				PRODU					
\[ /	_	0	REV	38 :NGC :G16	2 PLACES	± 0.13	APPR BY	DATE		DDODLI	OT 0110		, DD 414	\(\mu\)\(\O\)	
	=	0	ISIO	£	3 PLACES	İ İ	JHATTON	2015/12/18		•		•			
			z		2 DL ACES	1	CHK'D BY	DATE	ASSY'S	S (SPRING	<b>FINGER</b>	) WITH	H/S &	L/P OPTION	S
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V	DATE	DESCRIPTION
	03/29/2013	RELEASE
В	06/26/2013	ADDED DIM 12.77 AT G-9 ON SHEET 4.
С	02/05/2014	SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP.
	1	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.
	1	SHEET 2: MADE HEATSINK HEIGHT DIMENSIONS REF.
	1	CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO
	1	EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	10/6/2014	ADDED 2 ROW QUAD LIGHT PIPE OPTION
	1	SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF
	I	J14: DIM 67.48 CHANGED TO REF
	1	SHEET 4: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES
	1	REMOVED BASIC FROM "0.00" POSITIONS
	1	SHEET 5: MOVED DATUMS "K" AND "L" TO CONNECTOR HOLES
	+	REMOVED BASIC FROM "0.00" POSITIONS
	1	H18: MADE HOLE DIAMETER DIMENSION TYP
		SHEET 7: EDIT NOTE 1, REMOVED "SIZE"
	1	REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
F	3/12/2015	ADDED 1000171255 & LIGHT PIPE FEATURE IN COLUMN @ M10 ON SHEET3.
G		
	1	REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 @D5, @E4, @E6, @F4, @F6, AND @H7
	1	SHEET 5: REVISED DIM "WAS" 12.77 "NOW" 12.79 @F7
	1	REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4
		REMOVED NOTE 4 @A20
	1	REMOVED SEE NOTE 4 AND ADDED DIMS @K11, K12, K13, AND @K14
	1	SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL @E7, D17, G17 AND @H7
Н	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
	1	SHEET 6: CHANGED REVISION DESCRIPTION FROM ENTER DESCRIPTION TO SEE REVISION TABLE
-		CHANGED MATERIAL NO. FROM 999999999 TO SEE DRAWING
<u>J</u>		
J1		UP-REVISIED TO CORRECT THE MODEL
J2		CHANGED DOCUMENT FROM RSD TO SD
J3		UPDATE DRAWING FORMAT TO NEW SIZE D SHEET 7 & 8: ADDED NOTE: 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.)
	+	
	<u>t</u> .	
		QUALITY THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT
		SYMBOLS
		DRWN BY DATE

ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS PRODUCT CUSTOMER DRAWING ON SIMEMENSIONS DRAWING SIZE THIRD ANGLE PROJECTION SEE DRAWING GENERAL MARKET DOC TYPE DOC PART SHEET NUMBER
PSD SD 9 OF 9 DOCUMENT NUMBER WITHIN DIMENSIONS 1000171200 RELEASE STATUS P1 RELEASE DATE 29.01.2016 08:06:05