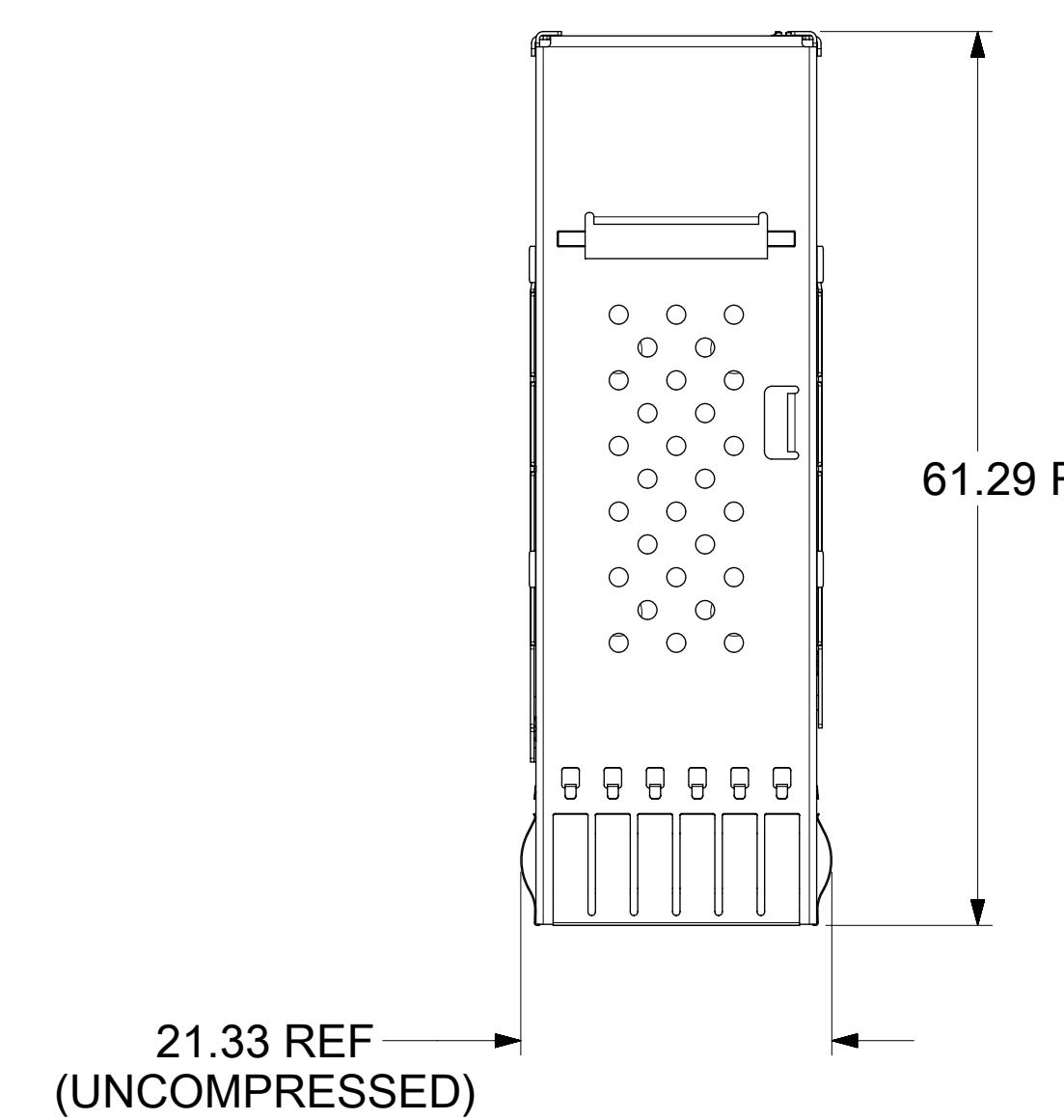


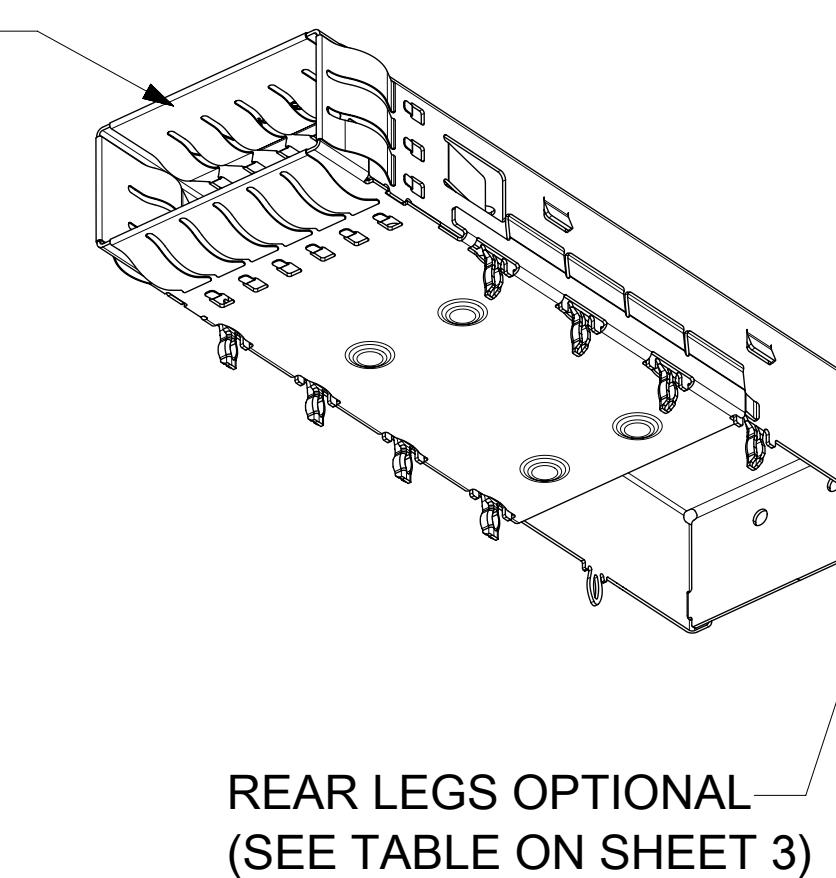
BASE CAGE DETAILS

1000141242

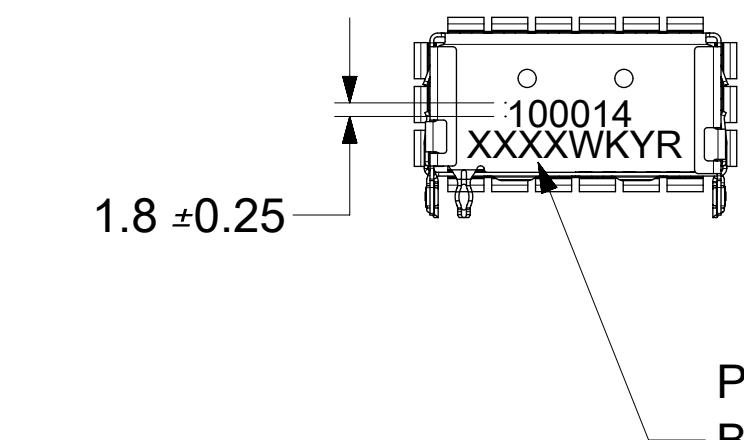
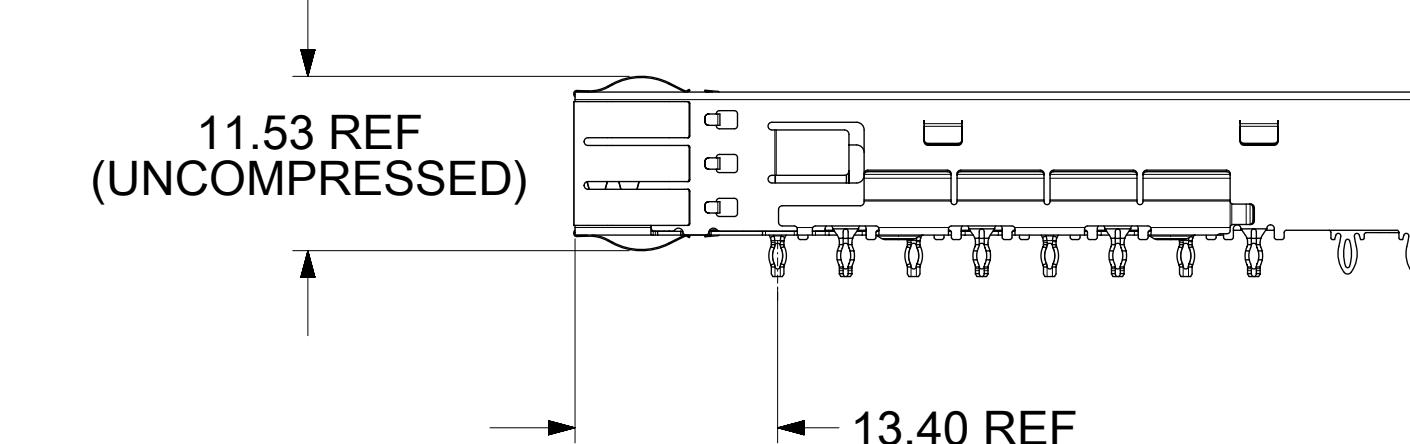
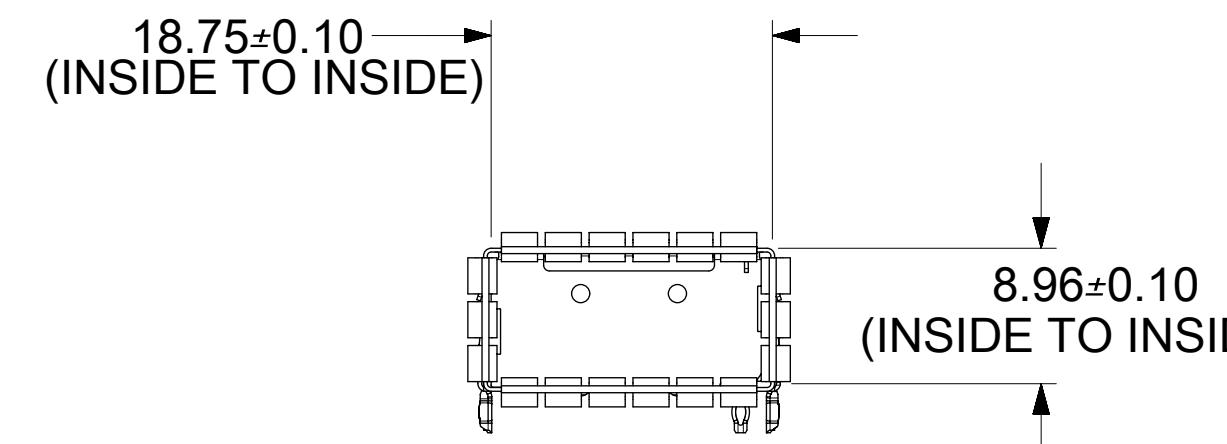
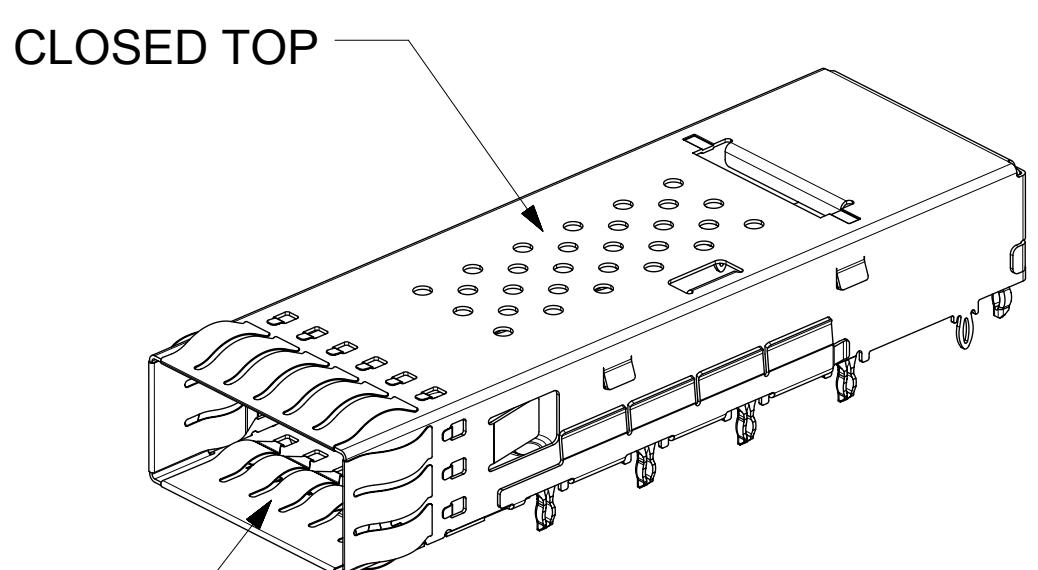
SHOWN



SPRING FINGERS



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
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 [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	18, 19, 20 ETC.. (EXAMPLE: YEAR 2018= 18)		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE	
mm	2:1		
		GENERAL TOLERANCES (UNLESS SPECIFIED)	
		ANGULAR TOL \pm 2.0°	
4 PLACES	\pm		
3 PLACES	\pm		
2 PLACES	\pm 0.13		
1 PLACE	\pm 0.25		
0 PLACES	\pm		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		EC NO: 623918 DRWN: VLOKESHA 2019/08/23 CHK'D: JYEN01 2019/09/11 APPR: JCHIANG 2019/09/11	
INITIAL REVISION: DRWN: PGSHETTY 2015/10/21 APPR: RCHEN08 2015/11/16		PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1000141200 DOC TYPE PSD DOC PART ASY REV L1	
THIRD ANGLE PROJECTION DRAWING SERIES D-SIZE 100014 SEE DRAWING GENERAL MARKET		MATERIAL NUMBER CUSTOMER SHEET NUMBER 1 OF 8	

molex

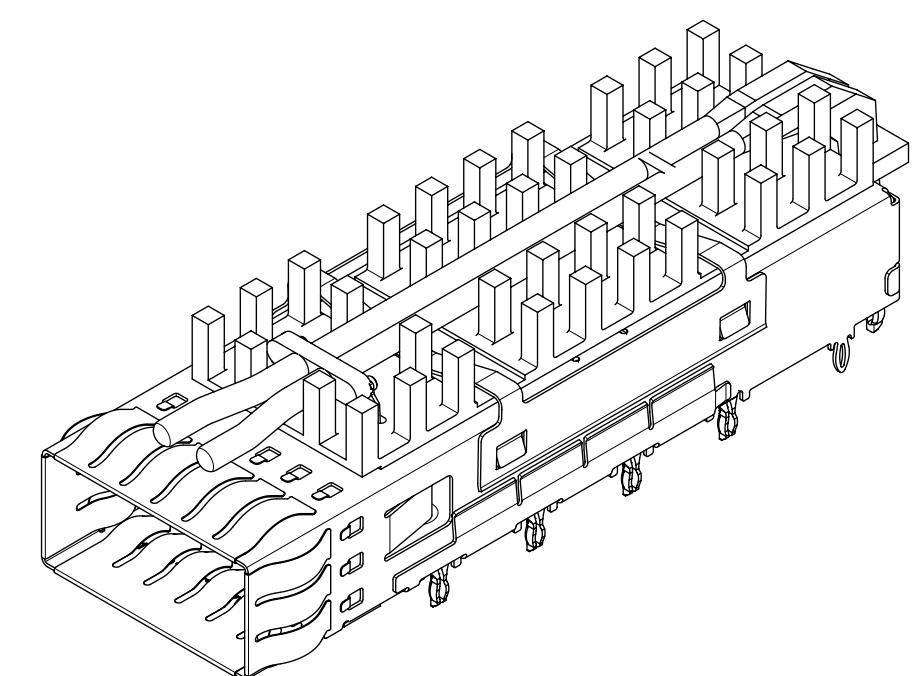
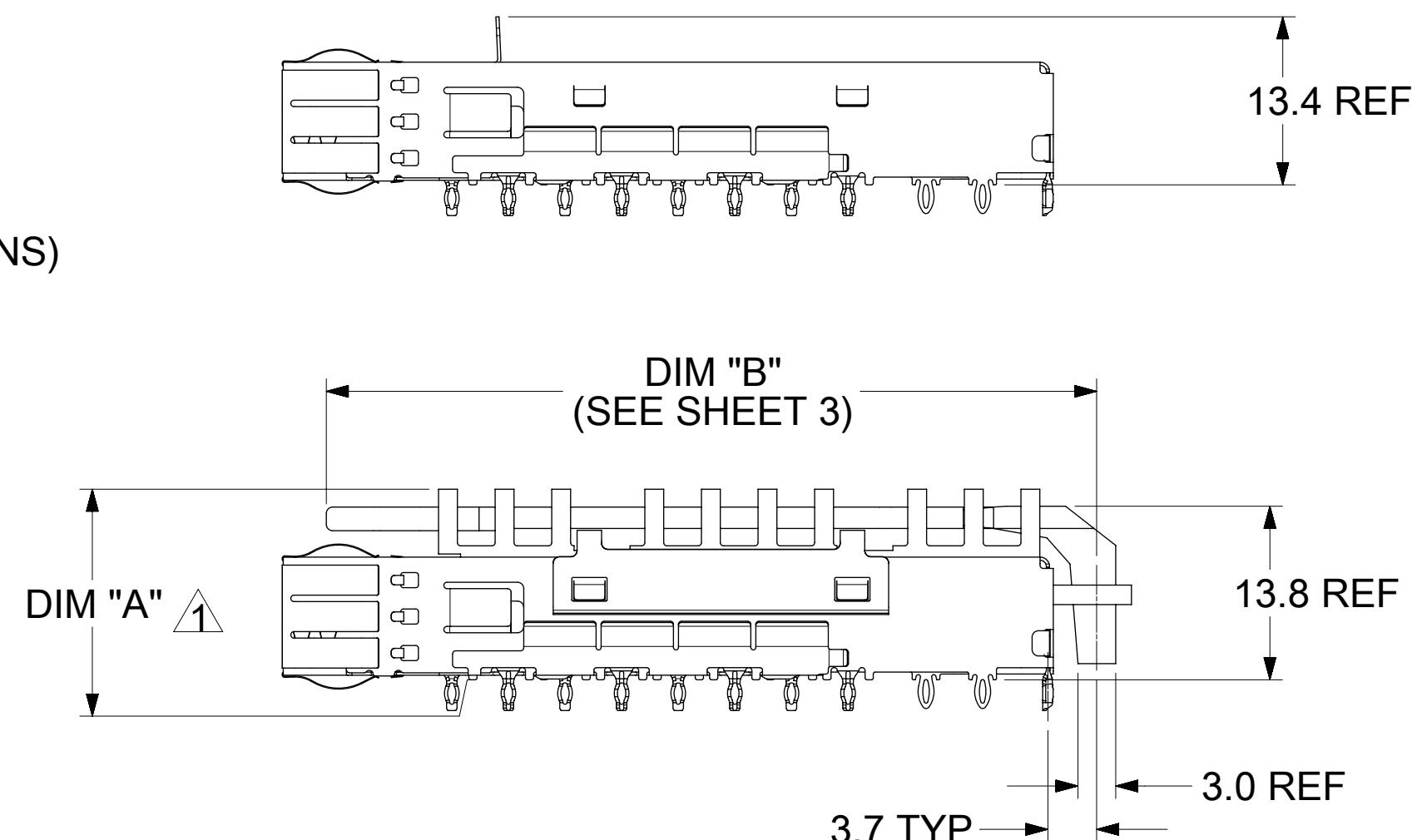
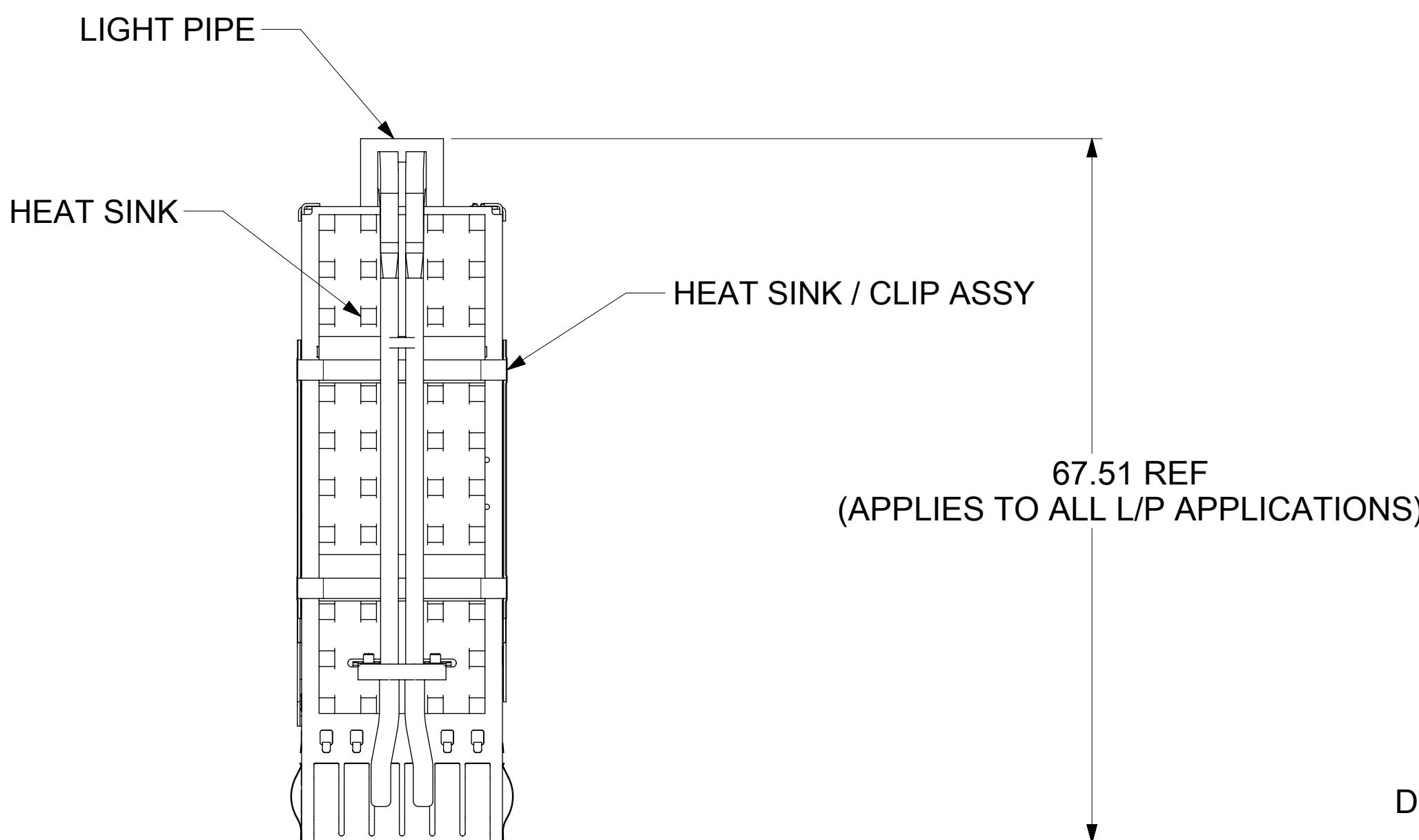
ZQSFP+ 1X1 CAGE

ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS

CAGE ASSEMBLY OPTIONS

1000141544

SHOWN



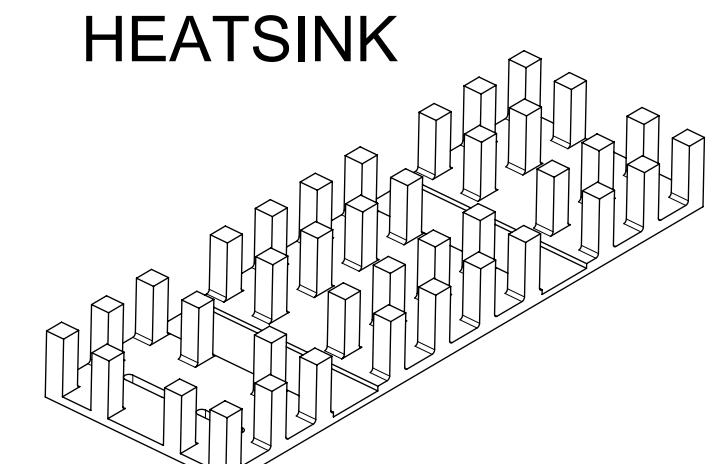
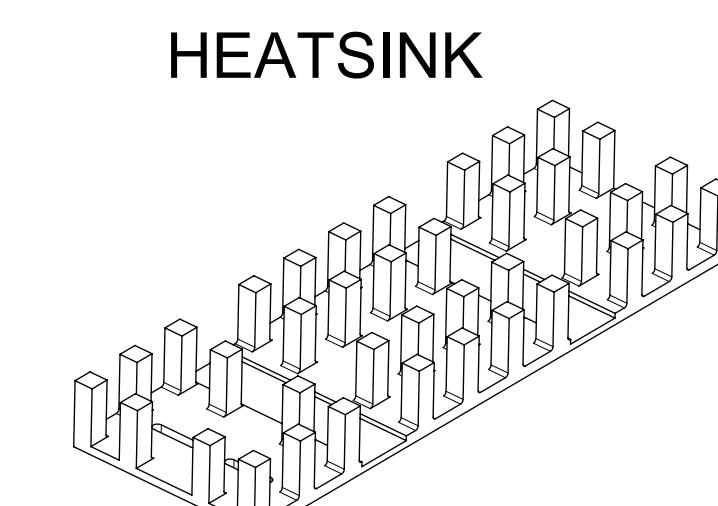
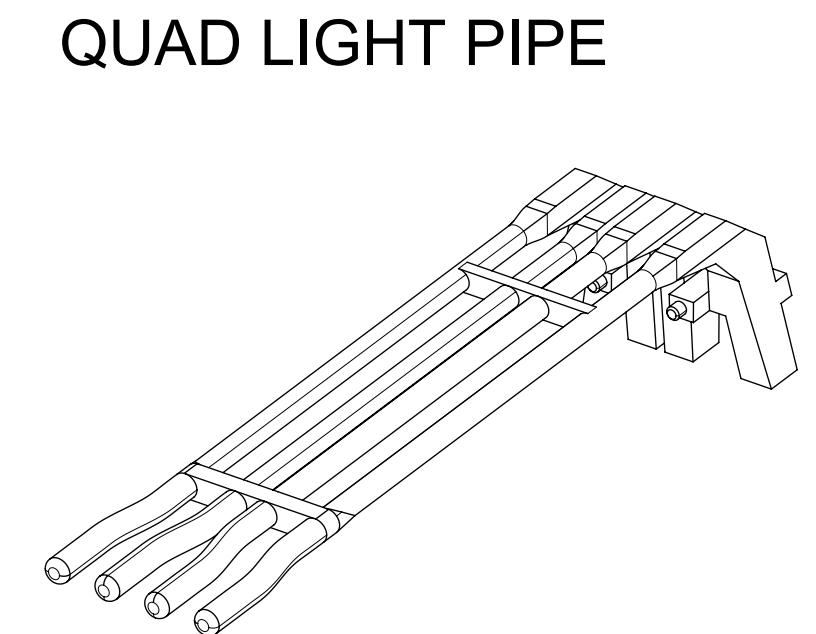
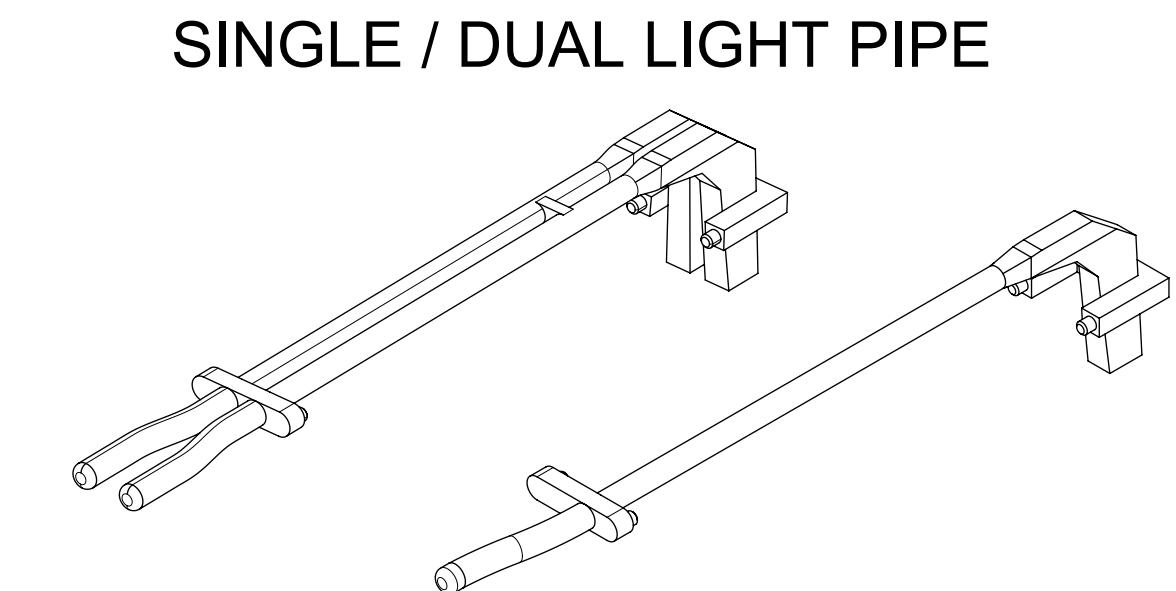
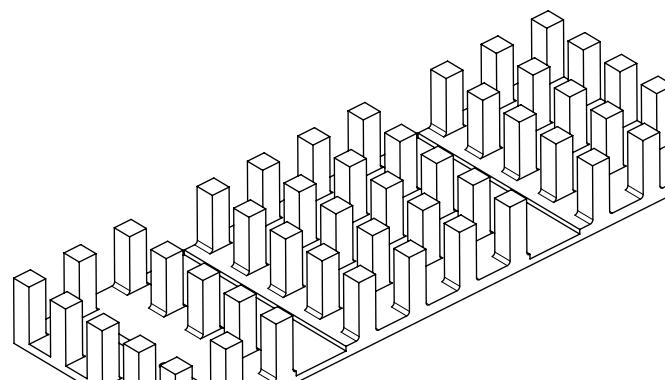
HEATSINK HEIGHT OPTIONS

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

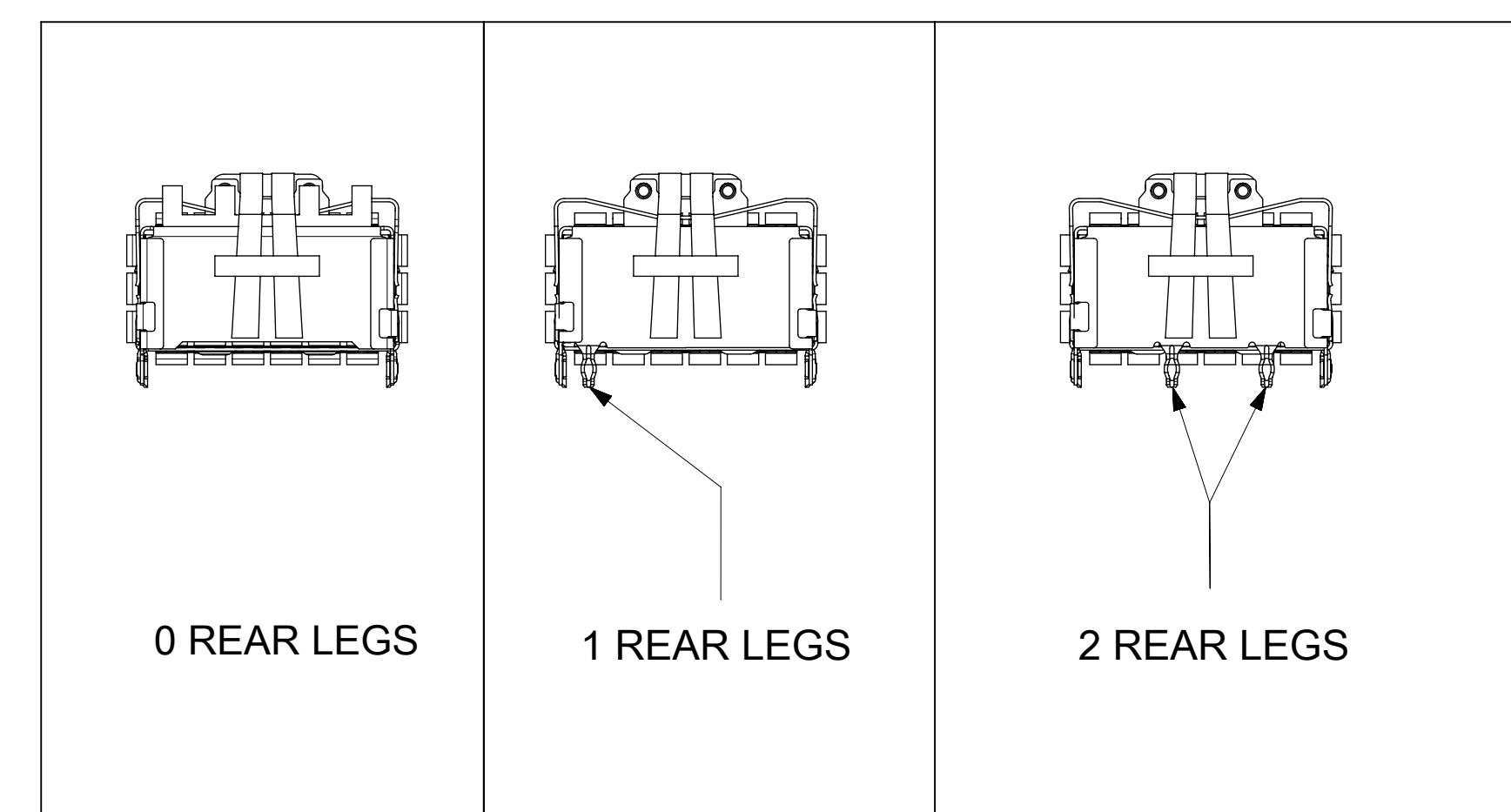
 HEIGHT OF HEAT SINK WITH MODULE INSERTED.
DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS

HEATSINK AND LIGHT PIPE COMBINATIONS

HEAT SINK USED WITHOUT LIGHTPIPE



REAR LEG OPTIONS



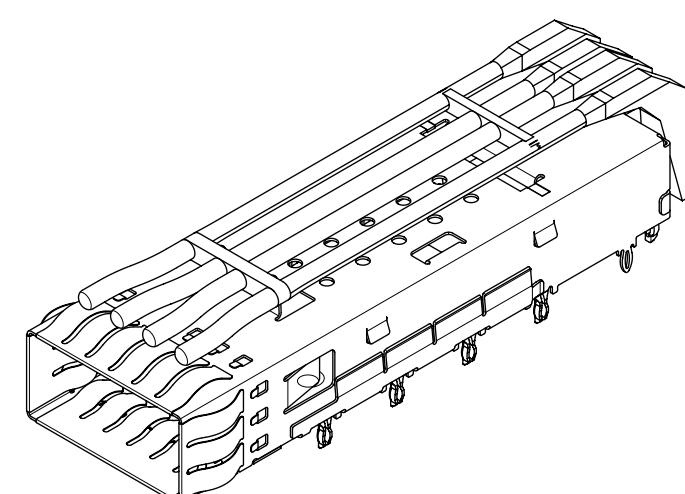
0 REAR LEGS

1 REAR LEGS

2 REAR LEGS

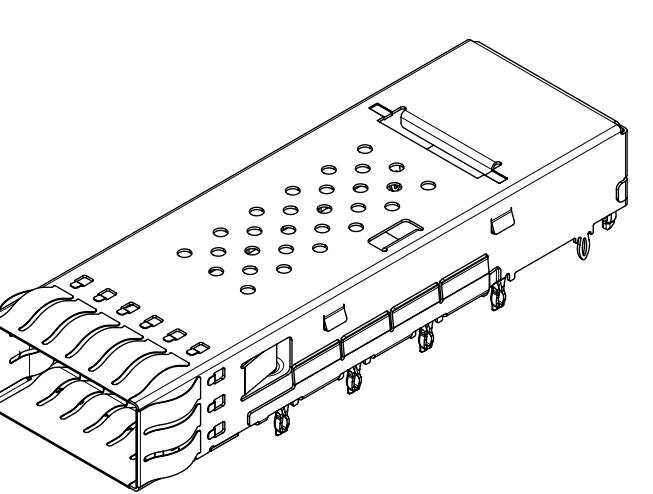
PART NUMBER SELECTION

**NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP**



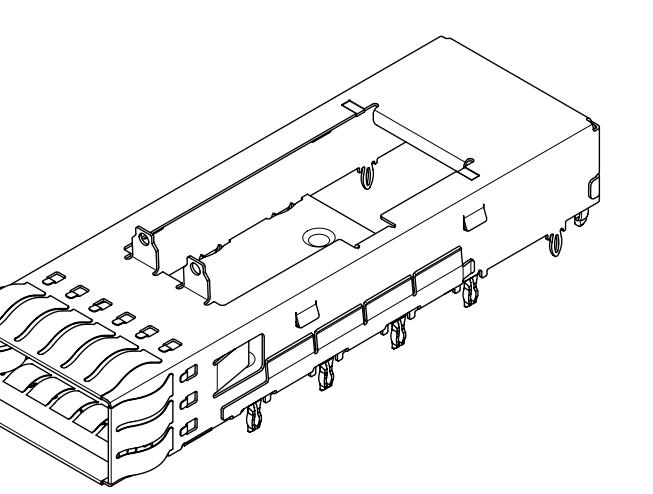
MOLEX P/N	LIGHT PIPES	#OF REAR LEGS PER PORT	DIM "B"
1000141231	SINGLE	0	61.07 REP
1000141232	SINGLE	1	61.07 REP
1000141233	DUAL	0	61.07 REP
1000141234	DUAL	1	61.07 REP
1000141235	QUAD	0	61.07 REP
1000141236	QUAD	1	61.07 REP

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



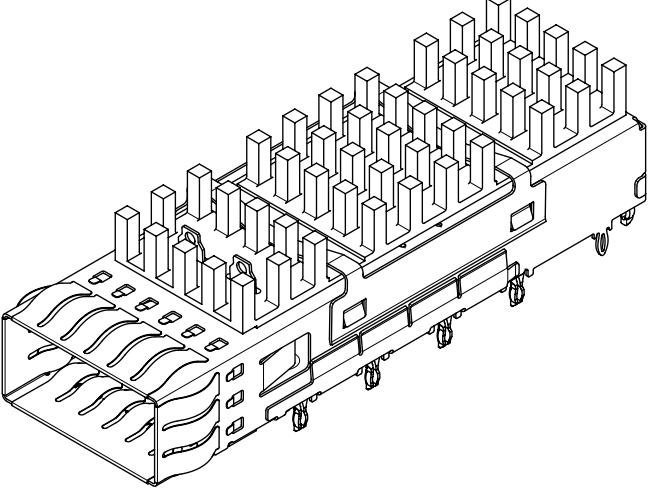
MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000141240	0
1000141242	1

NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT	LP TAB FEATURE
1000141250	0	YES
1000141252	1	YES
1000141253	2	YES
1000141256	2	NO

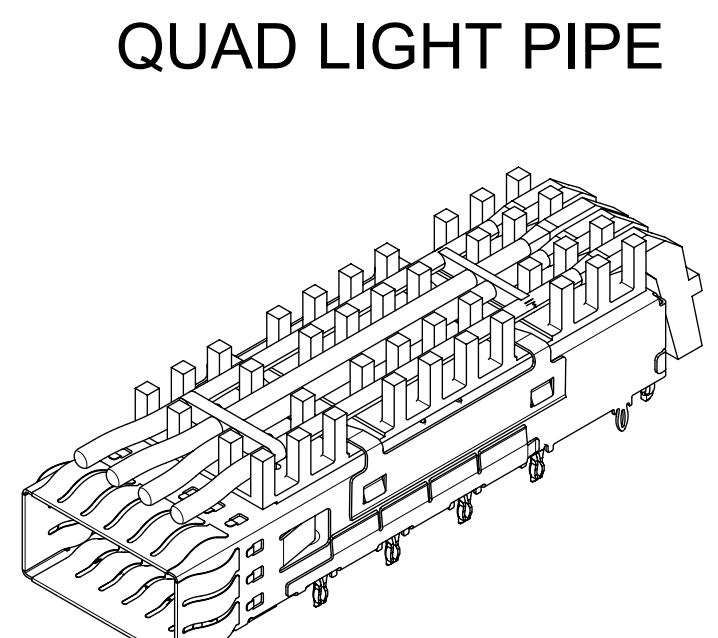
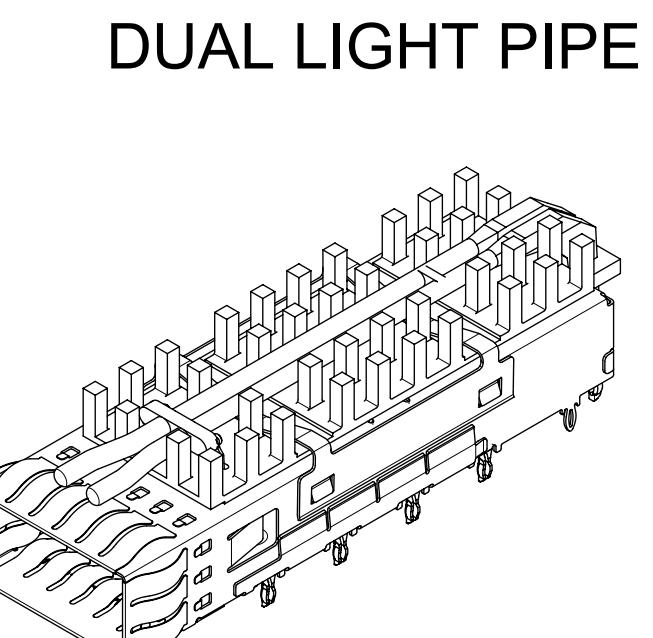
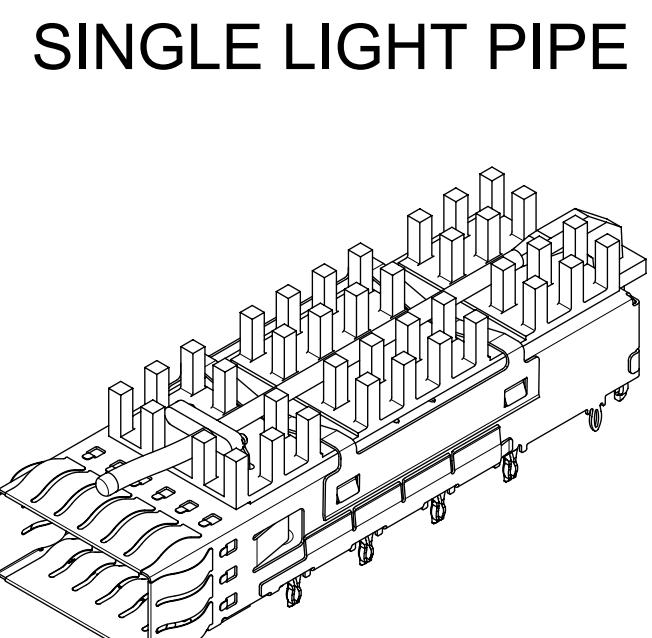
WITH HEATSINKS OR LIGHT PIPES



OLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
000141340	PCI	0
000141341	SAN	0
000141342	NET	0
000141343	PCI	1
000141344	SAN	1
000141345	NET	1
000141346	PCI	2
000141348	NET	2
000141903	CUSTOM DIM A=20 REF	2

WITH HEATSINKS AND LIGHT PIPES

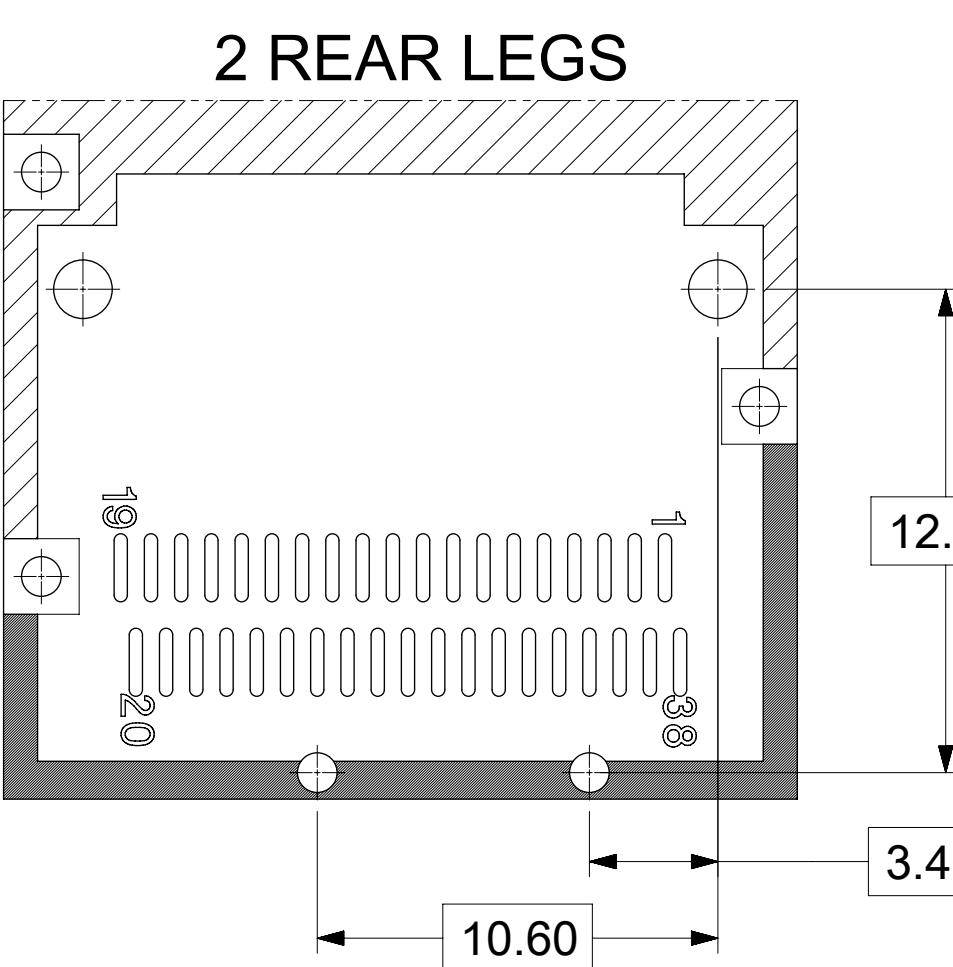
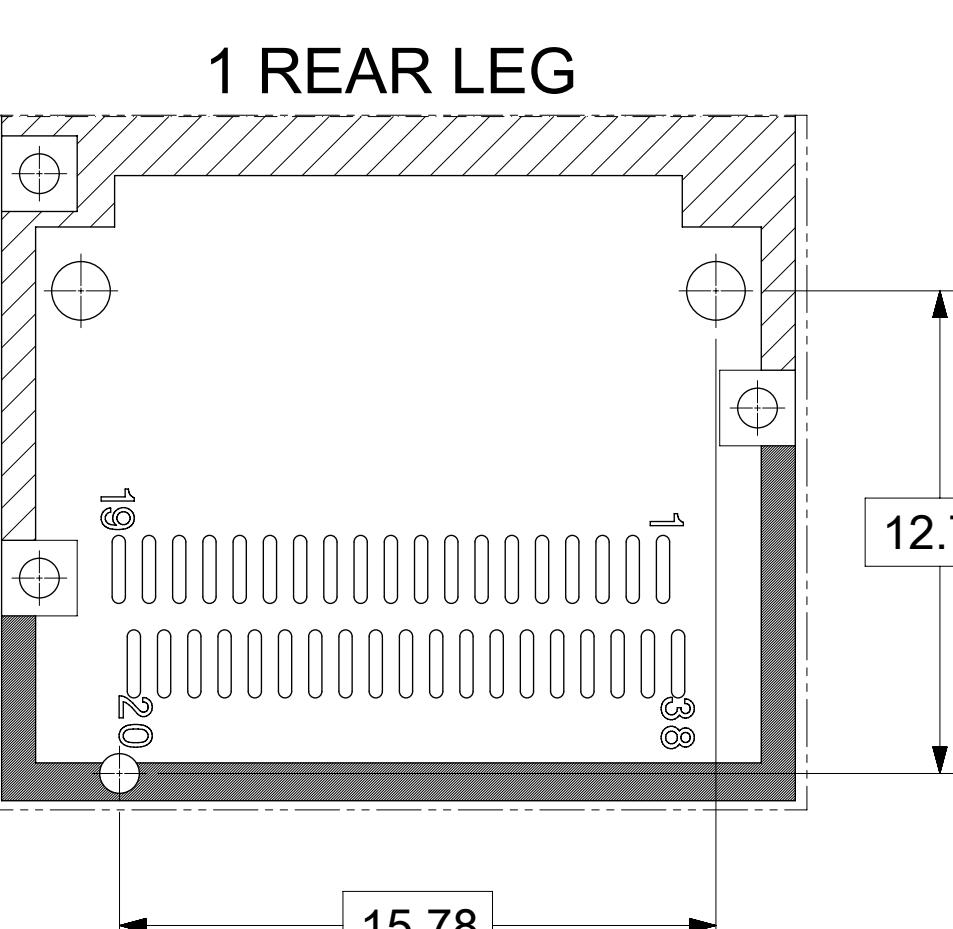
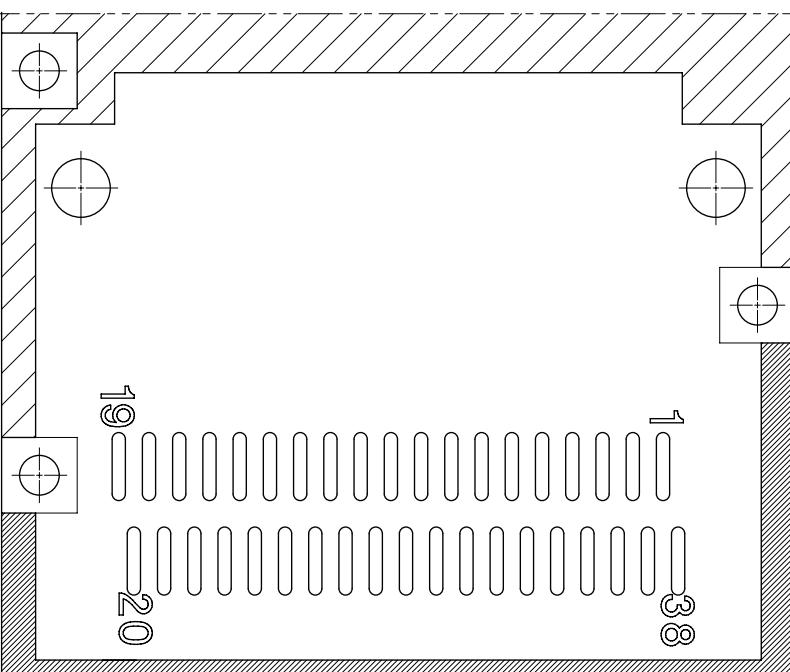
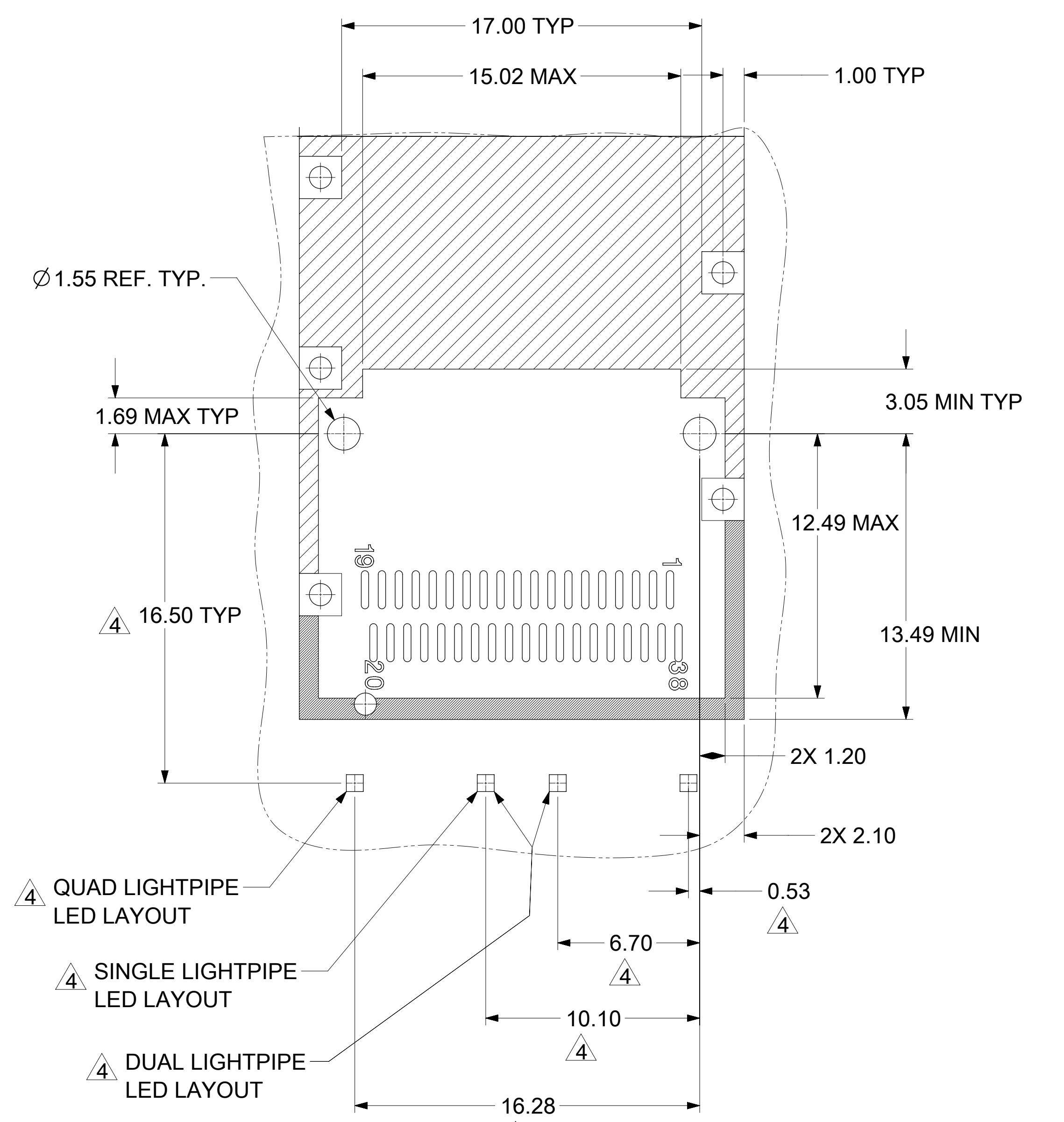
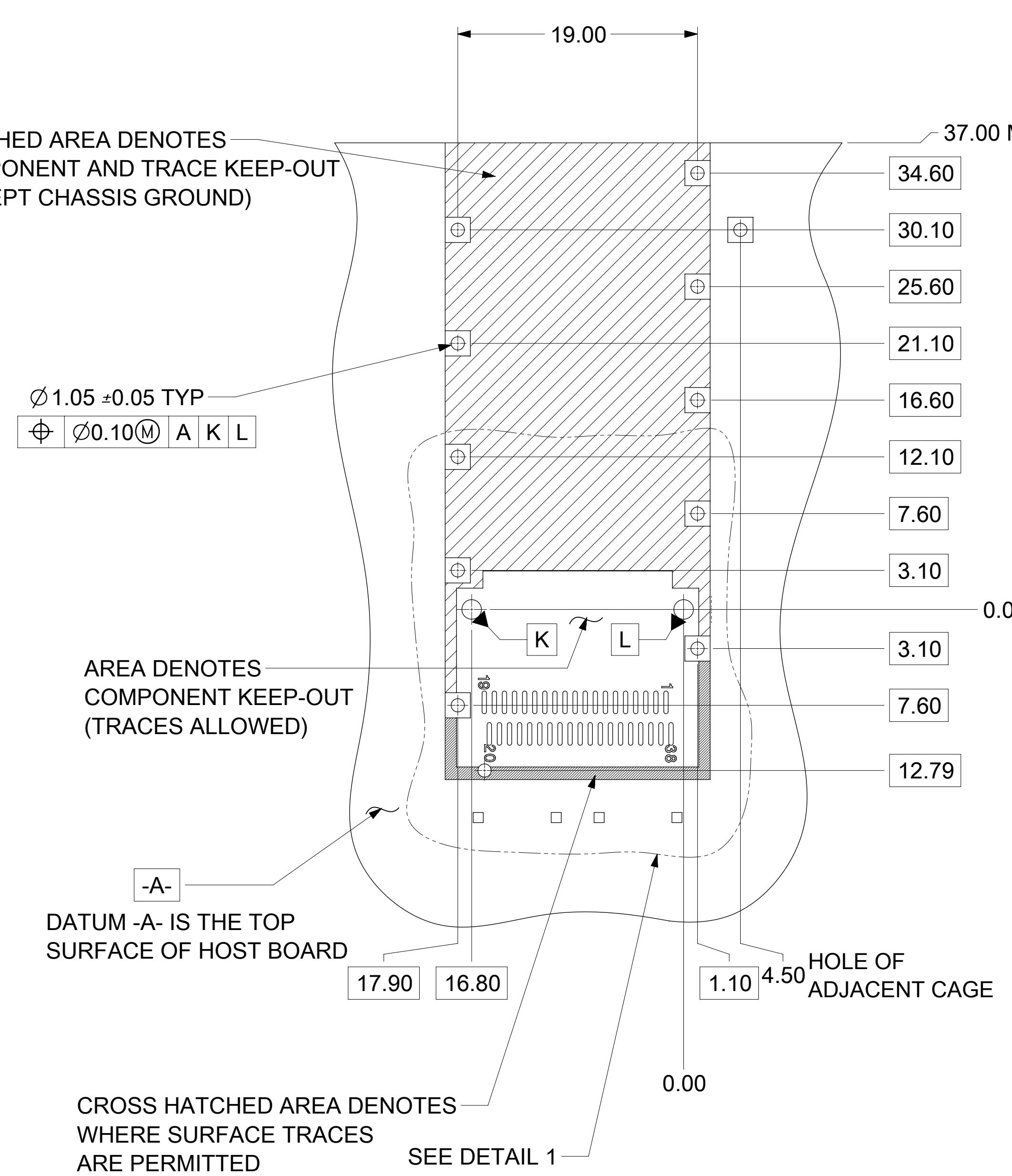
MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT	DIM "B"
1000141442	SINGLE	NET	0	61.07 REF
1000141443	DUAL	PCI	0	61.07 REF
1000141445	DUAL	NET	0	61.07 REF
1000141447	QUAD	SAN	0	61.07 REF
1000141448	QUAD	NET	0	61.07 REF
1000141540	SINGLE	PCI	1	61.07 REF
1000141541	SINGLE	SAN	1	61.07 REF
1000141542	SINGLE	NET	1	61.07 REF
1000141543	DUAL	PCI	1	61.07 REF
1000141544	DUAL	SAN	1	61.07 REF
1000141545	DUAL	NET	1	61.07 REF
1000141546	QUAD	PCI	1	61.07 REF
1000141547	QUAD	SAN	1	61.07 REF
1000141548	QUAD	NET	1	61.07 REF
1000141640	SINGLE	PCI	2	61.07 REF
1000141641	SINGLE	SAN	2	61.07 REF
1000141642	SINGLE	NET	2	61.07 REF
1000141643	DUAL	PCI	2	61.07 REF
1000141644	DUAL	SAN	2	61.07 REF
1000141645	DUAL	NET	2	61.07 REF
1000141646	QUAD	PCI	2	61.07 REF
1000141647	QUAD	SAN	2	61.07 REF
1000141648	QUAD	NET	2	61.07 REF
1000141744	DUAL	SAN	2	59.47 REF



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		1.5:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL		± 2.0 °		EC NO: 623918 DRWN: VLOKESHA CHK'D: JYEN01 APPR: JCHIANG		ZQSFP+ 1X1 CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS							
4 PLACES		±											
3 PLACES		±		INITIAL REVISION: DRWN: PGSHETTY APPR: RCHE08		PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1000141200							
2 PLACES		± 0.13											
1 PLACE		± 0.25		2019/08/23 2019/09/11 2019/09/11		DOC TYPE		DOC PART					
0 PLACES		±						PSD		ASY			
DRAFT WHERE APPLICABLE		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
MUST REMAIN		+ -		D. SIZE		100014		SEE DRAWING		GENERAL MARKET		3-25-2	

PCB LAYOUT FOR SINGLE SIDED MOUNTING

NO REAR LEGS



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.

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	mm 3.5:1	SCALE	
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	$\pm 2.0^\circ$		
4 PLACES	\pm		
3 PLACES	\pm		
2 PLACES	± 0.13		
1 PLACE	± 0.25		
0 PLACES	\pm		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
			SERIES
			D-SIZE
100014		100014	4
DOCUMENT STATUS	P1	SEE DRAWING	GENERAL MARKET
RELEASE DATE	2019/09/11	4 OF 8	
	08:13:14		

molex

ZQSFP+ 1X1 CAGE

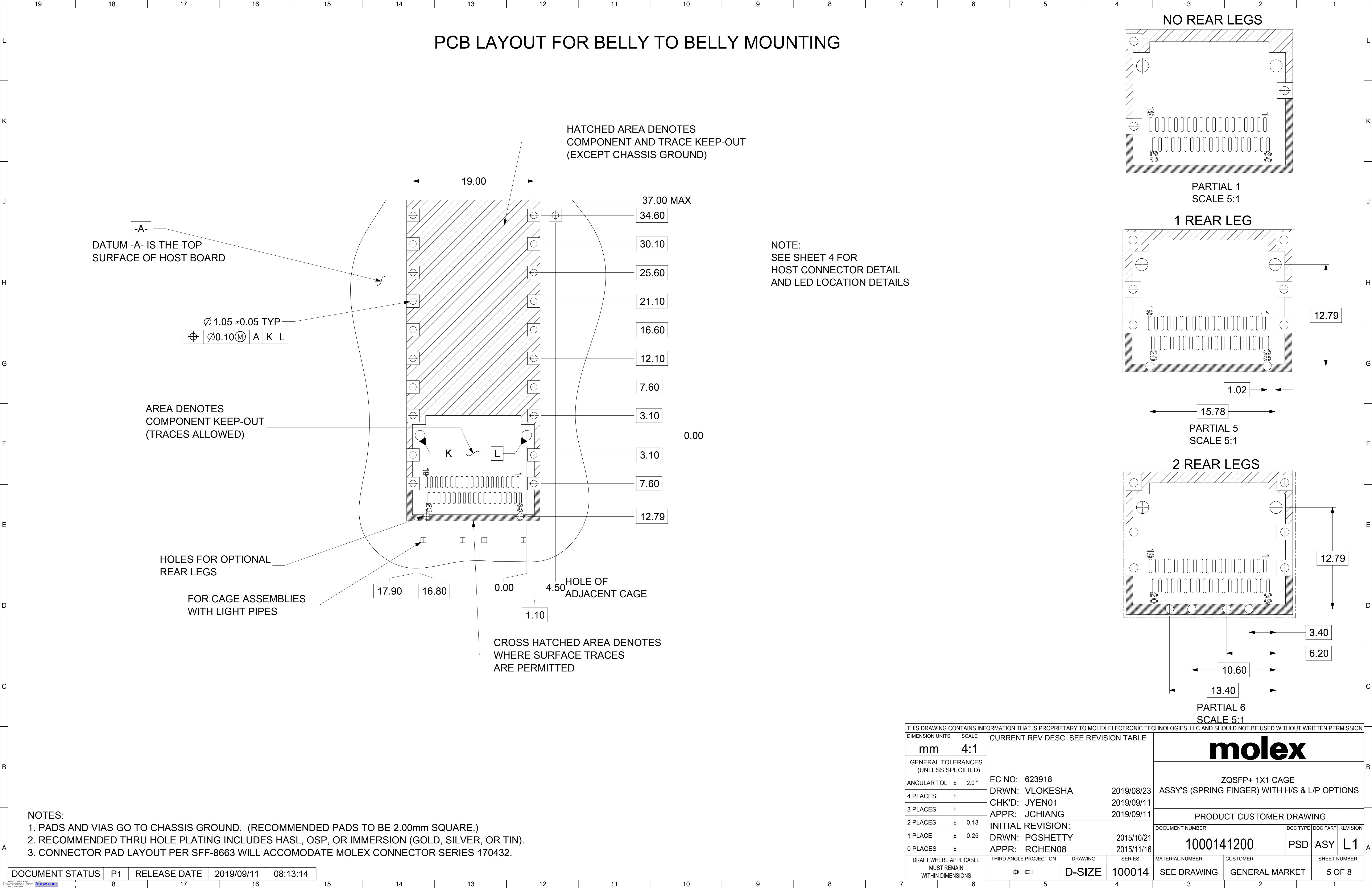
ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS

PRODUCT CUSTOMER DRAWING

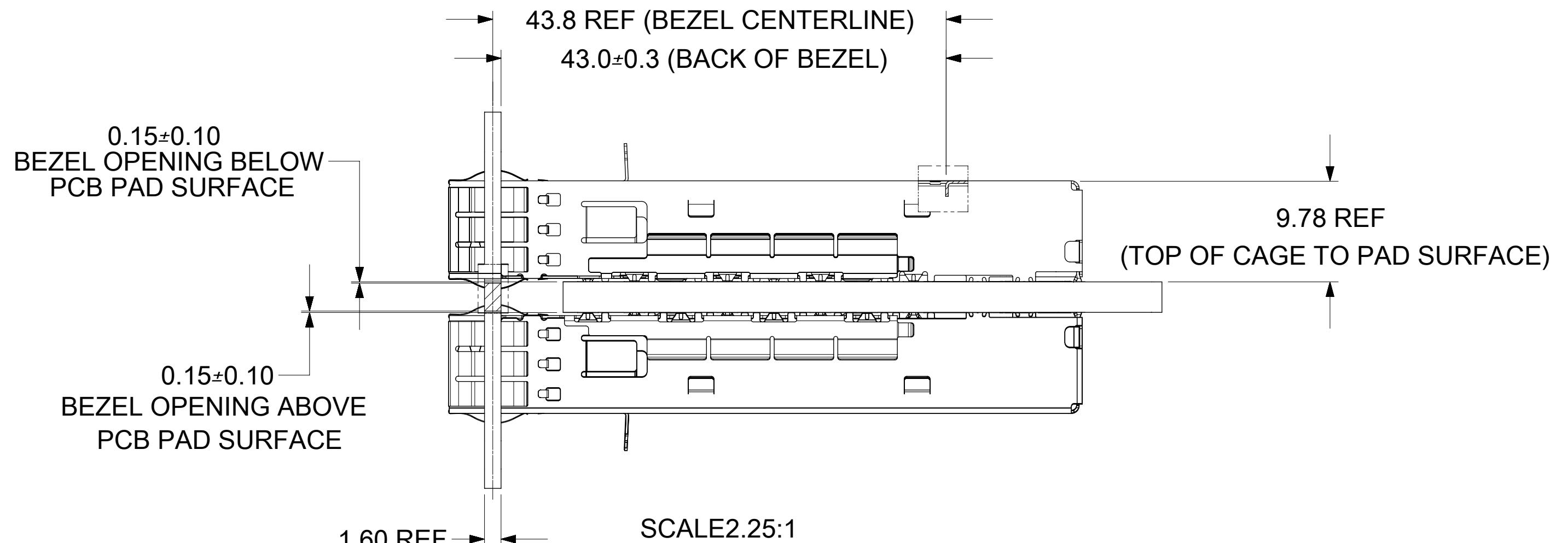
DOCUMENT NUMBER

1000141200

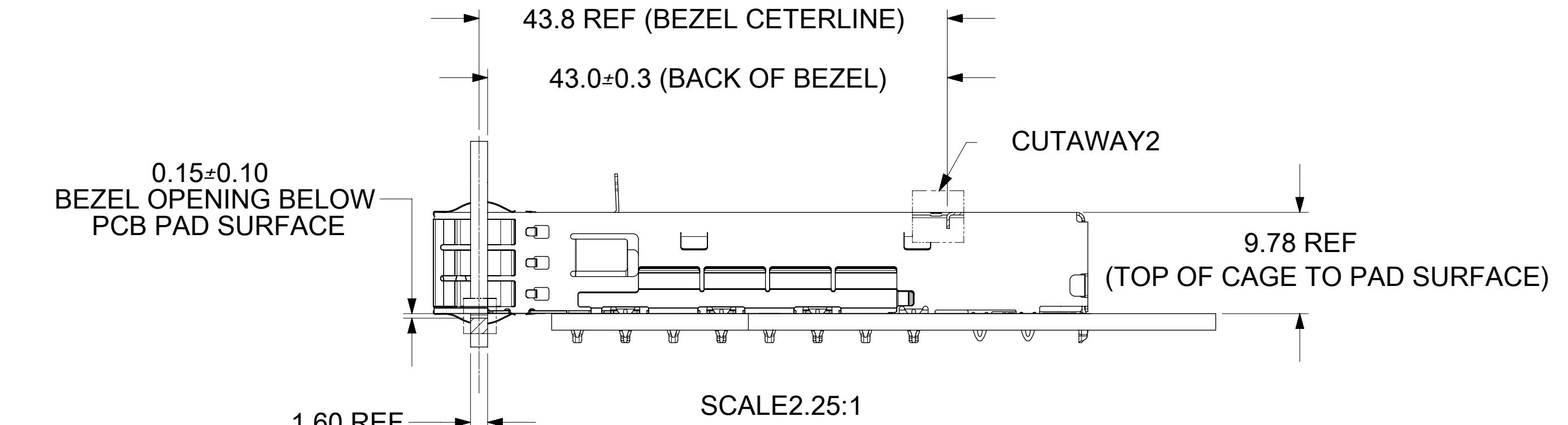
PSD ASY L1



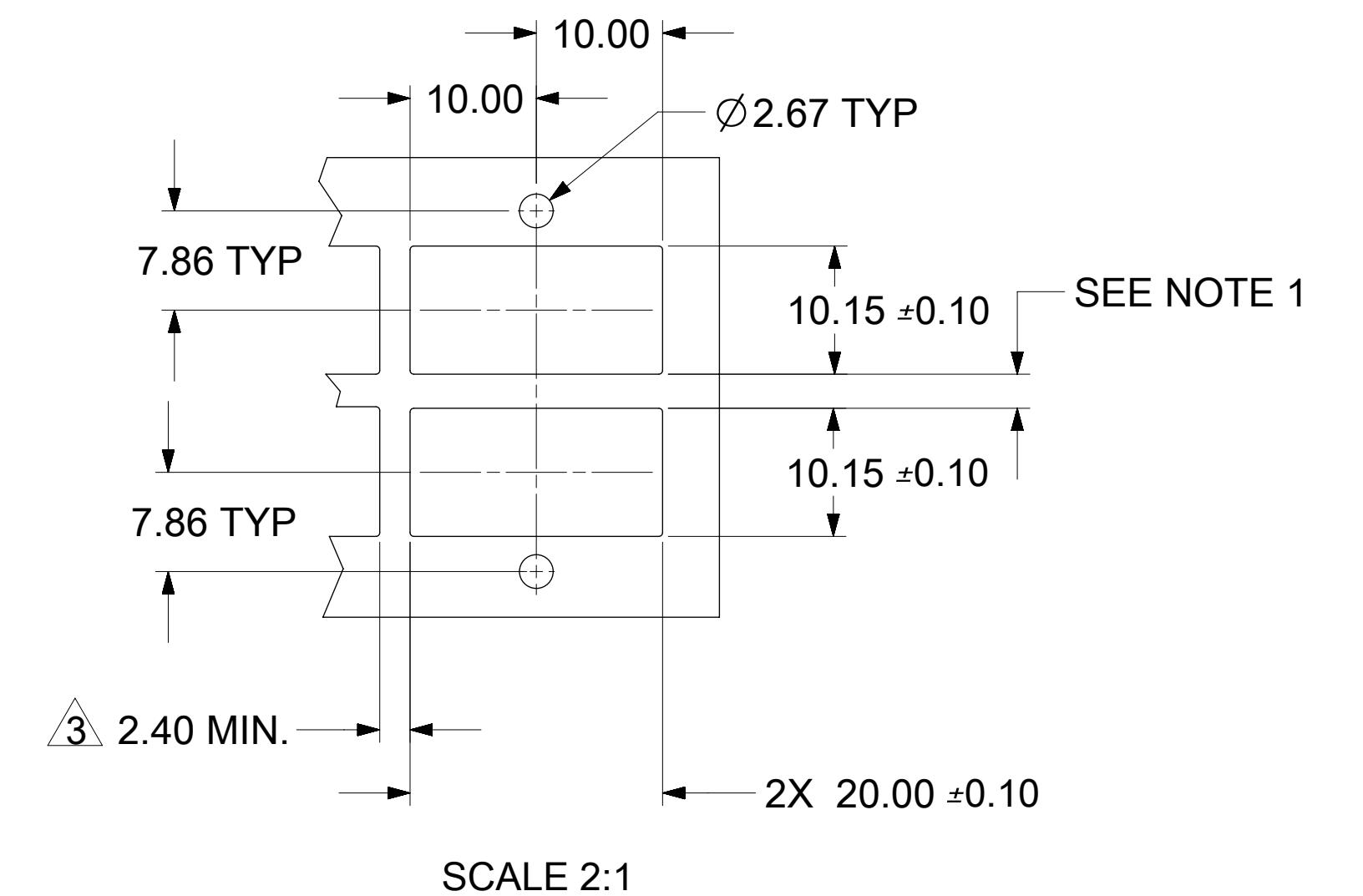
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L K J H G F E D C B A
BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING



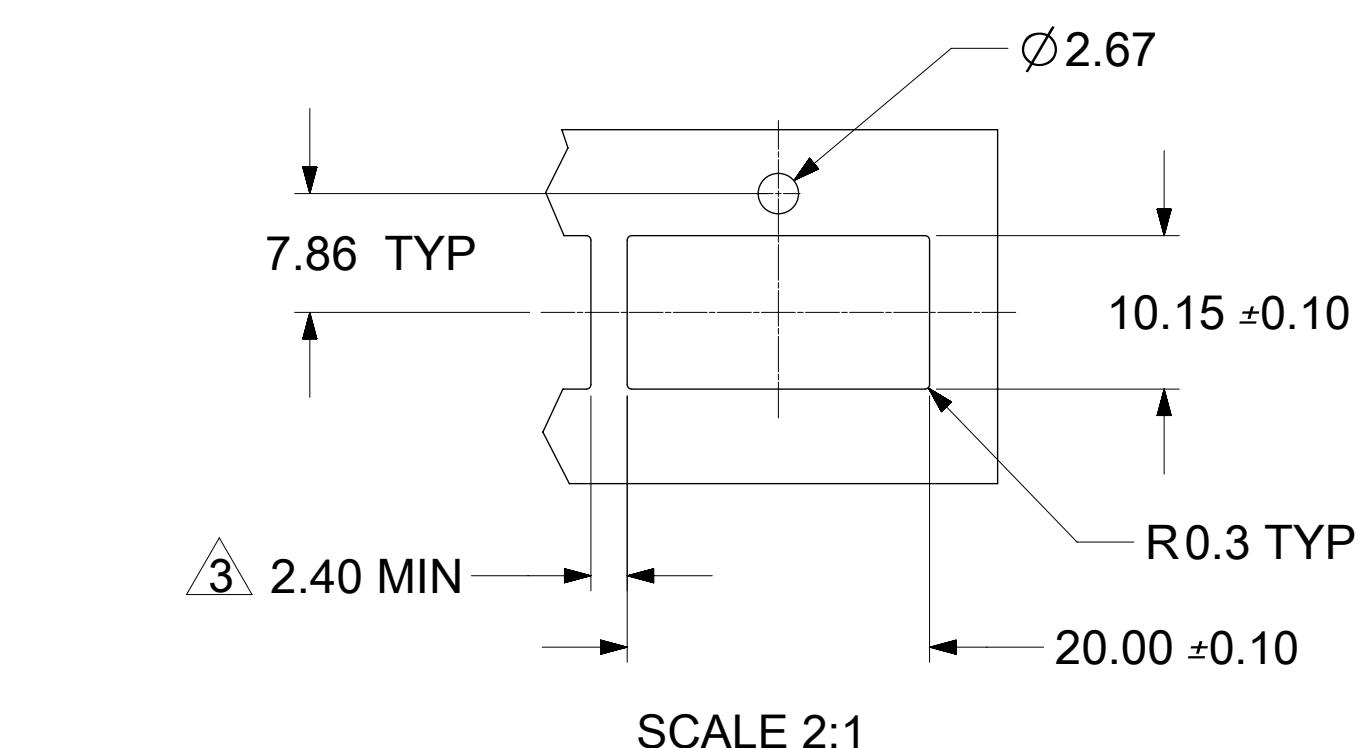
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L K J H G F E D C B A
BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDE MOUNTING



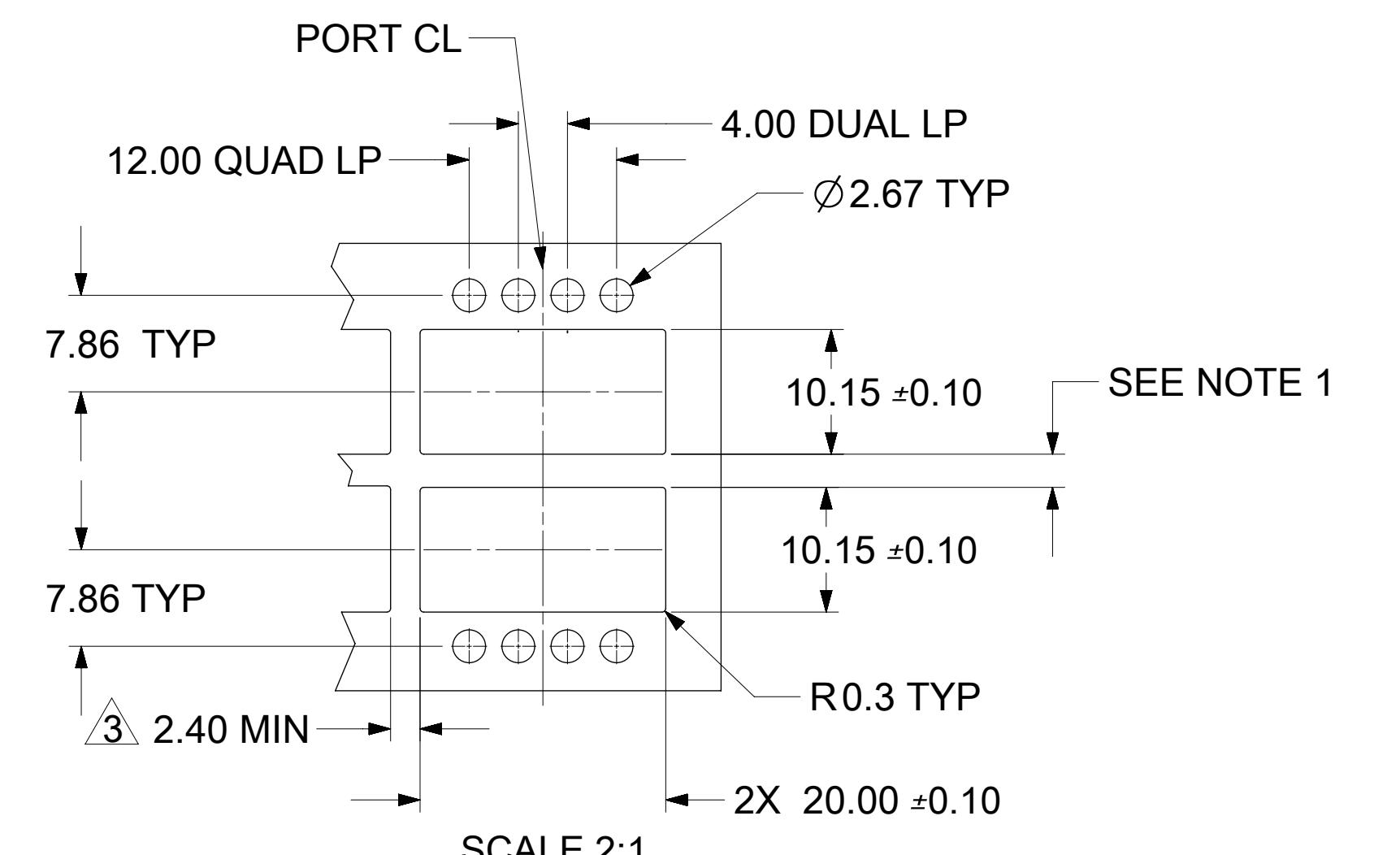
H G F E D C B A
SINGLE LIGHT PIPE 2



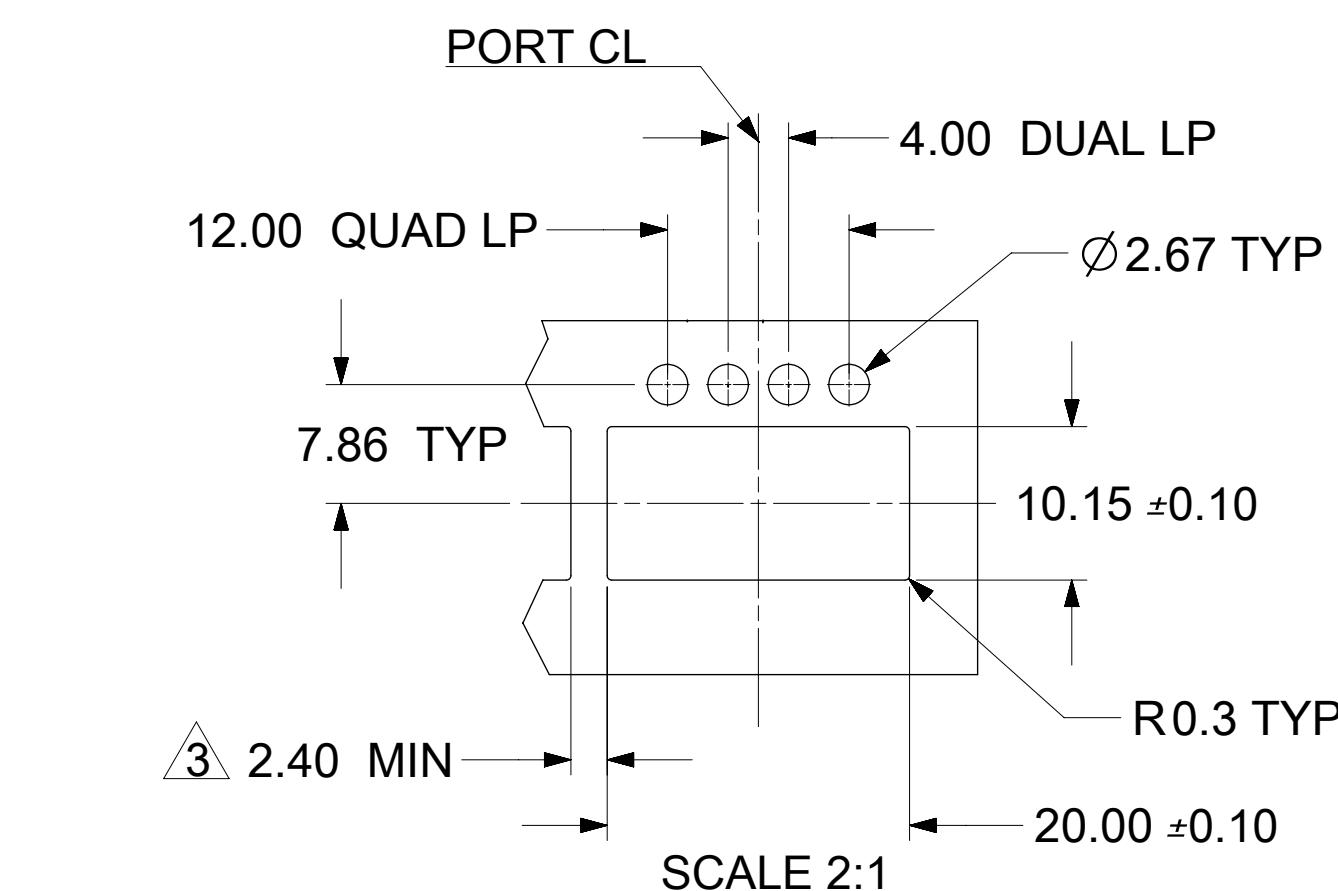
H G F E D C B A
SINGLE LIGHT PIPE 2



H G F E D C B A
DUAL/QUAD LIGHT PIPE 2



H G F E D C B A
DUAL/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 ADJACENT CAGE" ON PCB LAYOUT.)

REV	DATE	DESCRIPTION
A	2013/03/29	RELEASE
B	2013/06/06	ADDED DIM 12.77 AT G-11 ON SHEET 4
C	2013/11/03	REMOVED GANGED FROM TITLE BLOCK. SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED ALLOWABLE AREA WHERE SURFACE TRACES ARE PERMITTED.
D	2014/06/26	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. CHANGED REARMAST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	2014/09/29	ADDED TWO REAR LEG 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 H15: MADE HOLE DIAMETER DIMESION TYP SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
F	2015/02/05	SHEET 3: ADDED P/N 1000141744 TO CHART.
G	2015/04/14	SHEET 2: ADDED DIM "B" AT J-10 SHEET 3: ADDED P/N AT A-19 ADDED DIM "B" W/ 61.07 REF TO CHARTS AT G-14 AND I-15 ADDED 59.47 REF AS DIM "B" TO P/N 1000141744 AT A-14 REMOVED NOTE 1 AT A-19 SHEET 4: ADDED DIM 12.79 @G13 REVISED DIM "WAS" 12.77 "NOW" 12.79 @E2 AND @H2 REMOVED SEE NOTE 4 AND ADDED DIMS @K17 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 @D9, @E8, @E10, @F8, @F10, @G11, AND @H11 SHEET 5: REMOVED NOTE 4 @A20 REMOVED SEE NOTE 4 AND ADDED DIMS @K15 REVISED DIM "WAS" 12.77 "NOW" 12.79 @E2, @I2, AND @F12 SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL
H	2015/11/02	1. REMASTERED FROM SD-100014-1200_REV 'G' 2. SHEET 3 : G5 : ADDED P/N 1000141903
H1	2016/01/06	CHANGED THE DOCUMENT TYPE FROM RSD TO SD. SHEET1: B19: CHANGED NOTE 4 AND NOTE 5 FROM "DURING INCOMING INSPECTION" TO "DURING FINAL INSPECTION." SHEET6: A19: ADDED NOTE3: 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.) F16: ADDED 2.40 MIN. B16, F7, C7: CHANGED 2.75 MIN. TO 2.40 MIN.
J	2016/08/16	SHEET 1: D11: ADDED DIM 13.4 REF. SHEET 4: G14: REMOVED DIM 6.60 SHEET 6: J18: ADDED DIM 0.15±0.10 (BEZEL OPENING ABOVE PCB PAD SURFACE)

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	1:1	molex
GENERAL TOLERANCES (UNLESS SPECIFIED)		ZQSF+ 1X1 CAGE
ANGULAR TOL \pm 2.0°		ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS
4 PLACES	\pm	EC NO: 623918
3 PLACES	\pm	DRWN: VLOKESHA 2019/08/23
2 PLACES	\pm 0.13	CHK'D: JYEN01 2019/09/11
1 PLACE	\pm 0.25	APPR: JCHIANG 2019/09/11
0 PLACES	\pm	PRODUCT CUSTOMER DRAWING
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION:
		DOCUMENT NUMBER
		DOC TYPE
		DOC PART
		REVISION
		1000141200
		PSD
		ASY
		L1
		SEE DRAWING
		GENERAL MARKET
		7 OF 8

REV	DATE	DESCRIPTION
K	2017/09/26	SHEET 3: H6: ADDED LP TAB FEATURE OPTION ON P/N TABLE H9: ADDED NEW P/N 1000141256 IN THE P/N TABLE J9: INDICATED THE LP TAB FEATURE LOCATION
K1	2018/01/30	SHEET 6: J15: CORRECTED PRODUCT VIEW ERROR (COMPONENT APPEARANCE MISSED) J05: CORRECTED PRODUCT VIEW ERROR (COMPONENT APPEARANCE MISSED)
L	2018/05/24	SHEET 4: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION SHEET 5: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION
L1	2019/08/23	SHEET 3 : OBSOLETED P/N 1000141347,1000141440,1000141441,1000141444,1000141446. SHEET 1 : H15 : CHANGED MEASURE LINE FROM CAGE TO SPRING FRINGER, DIMENSION FROM 61.27 REF TO 61.29 REF. SHEET 1 : D10 : CORRECTED MEASURE LINE TO CENTER LINE OF FRONT LEG, DIMENSION FROM 13.4 REF TO 13.40 REF.

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DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION TABLE
mm	1:1	molex
GENERAL TOLERANCES (UNLESS SPECIFIED)		ZQSF+ 1X1 CAGE
ANGULAR TOL \pm 2.0°		ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS
4 PLACES	\pm	EC NO: 623918
3 PLACES	\pm	DRWN: VLOKESHA 2019/08/23
2 PLACES	\pm 0.13	CHK'D: JYEN01 2019/09/11
1 PLACE	\pm 0.25	APPR: JCHIANG 2019/09/11
0 PLACES	\pm	PRODUCT CUSTOMER DRAWING
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
DOCUMENT NUMBER	DOC TYPE	DOC PART
1000141200	PSD	REVISION
SEE DRAWING	CUSTOMER	SHEET NUMBER
D-SIZE	GENERAL MARKET	8 OF 8