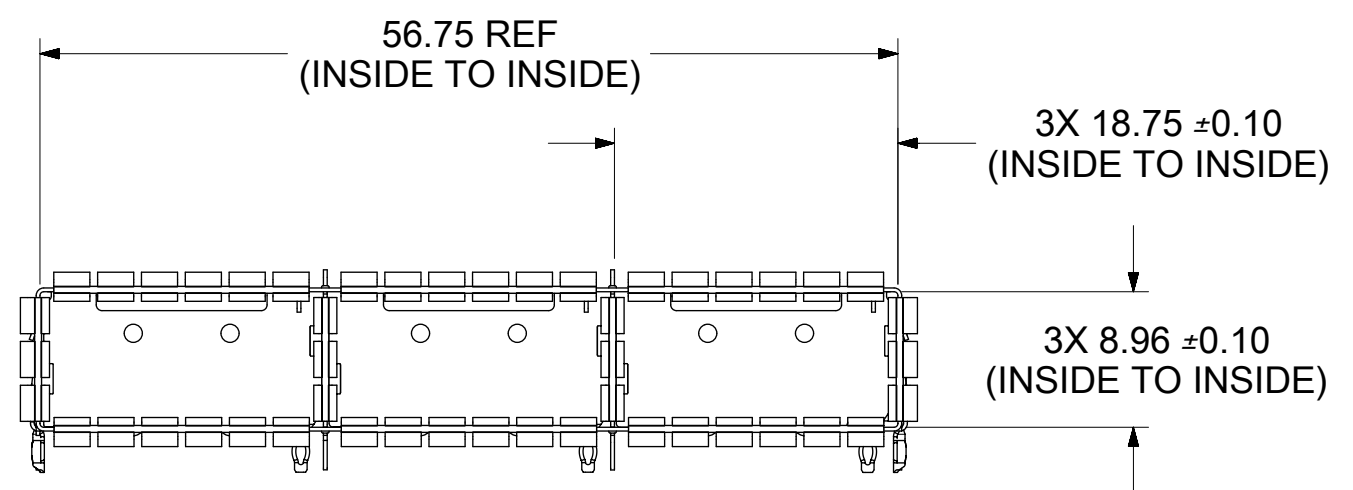
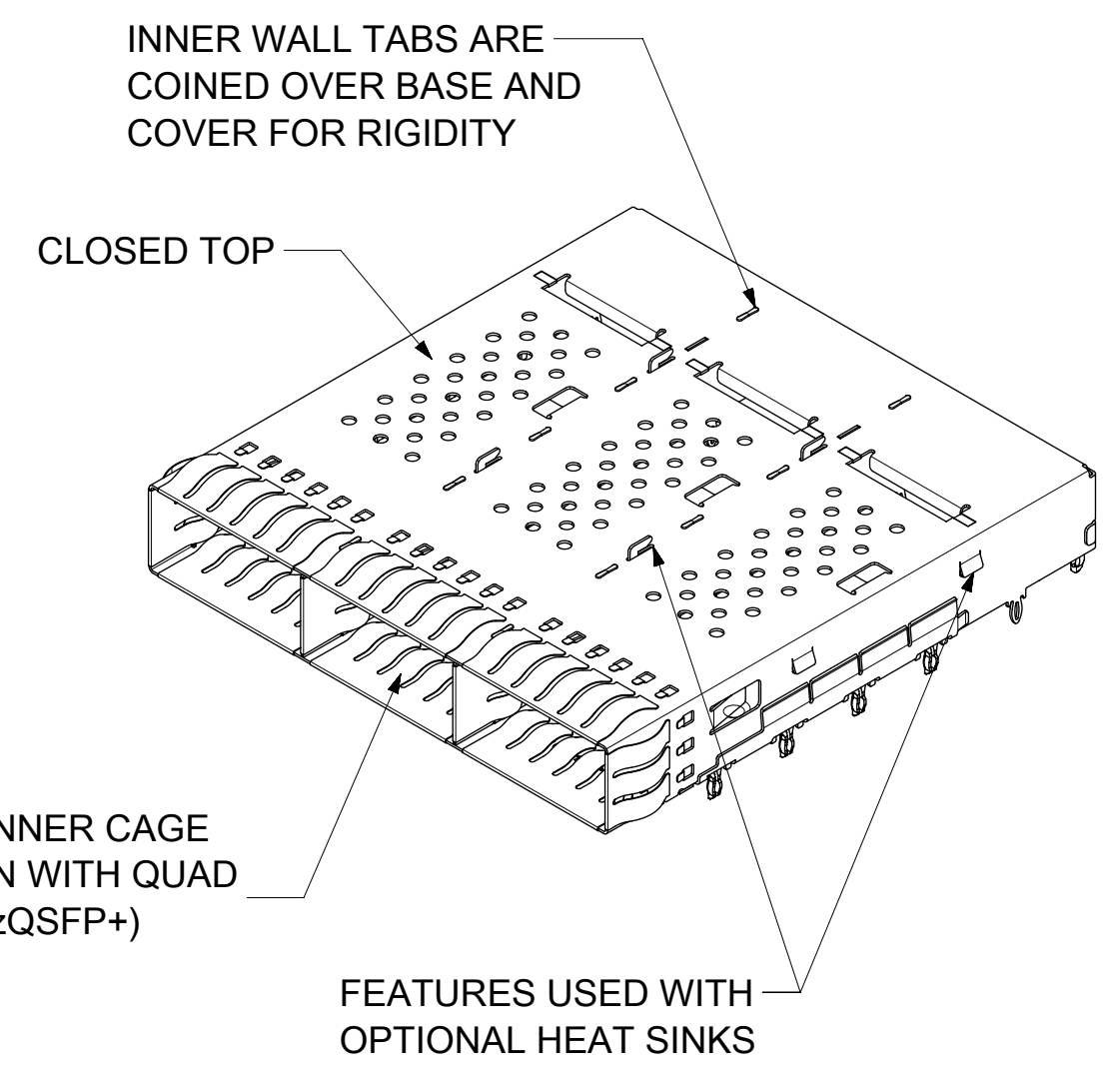
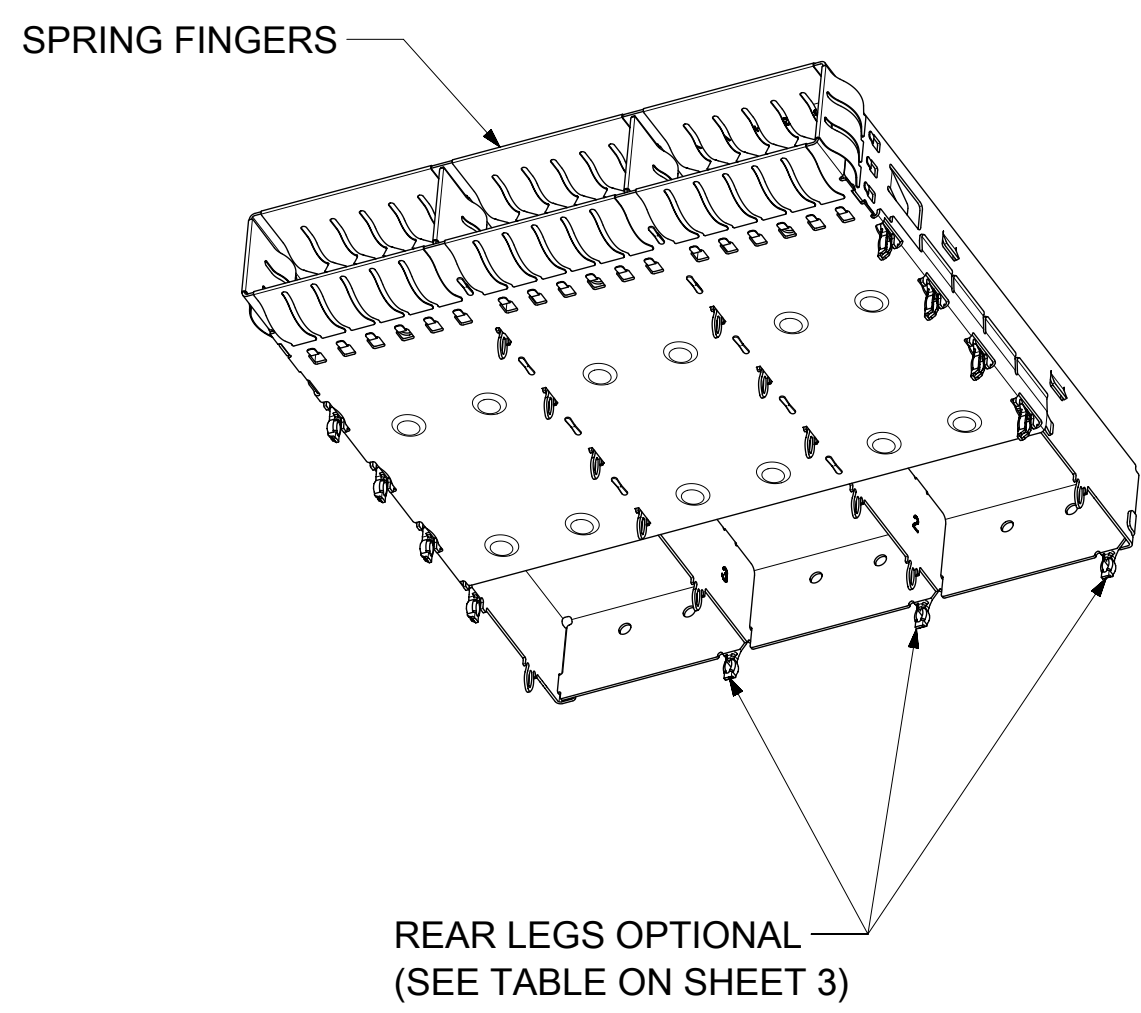
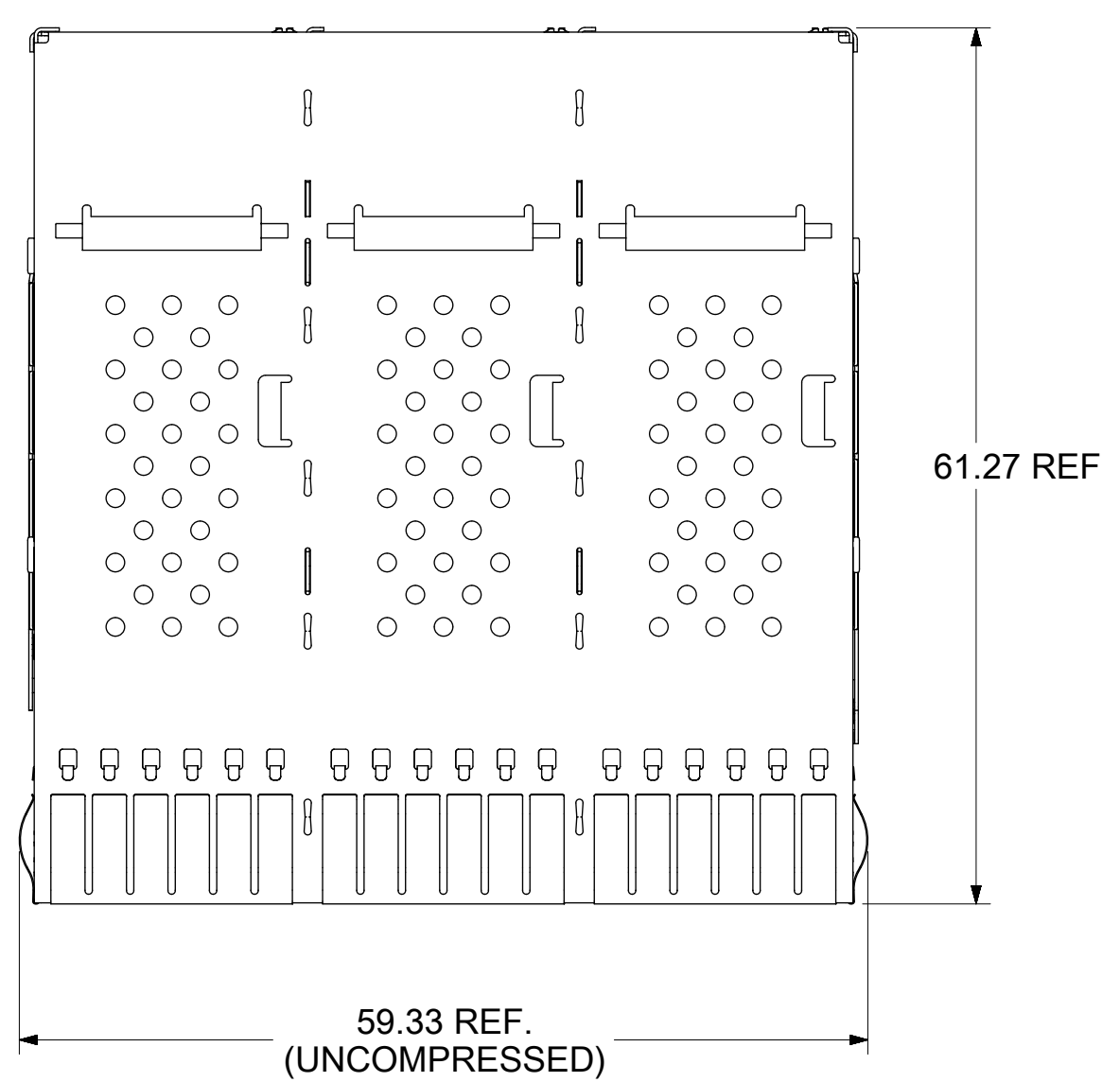
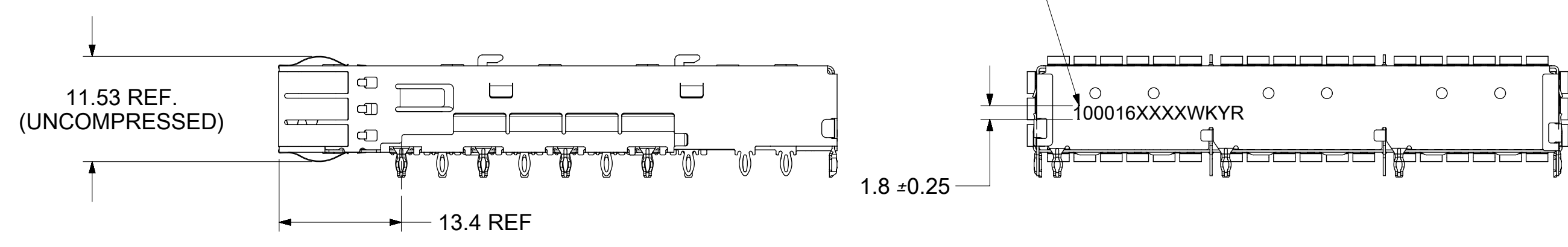


BASE CAGE DETAILS

1000161242
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



- 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.
2.70 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)

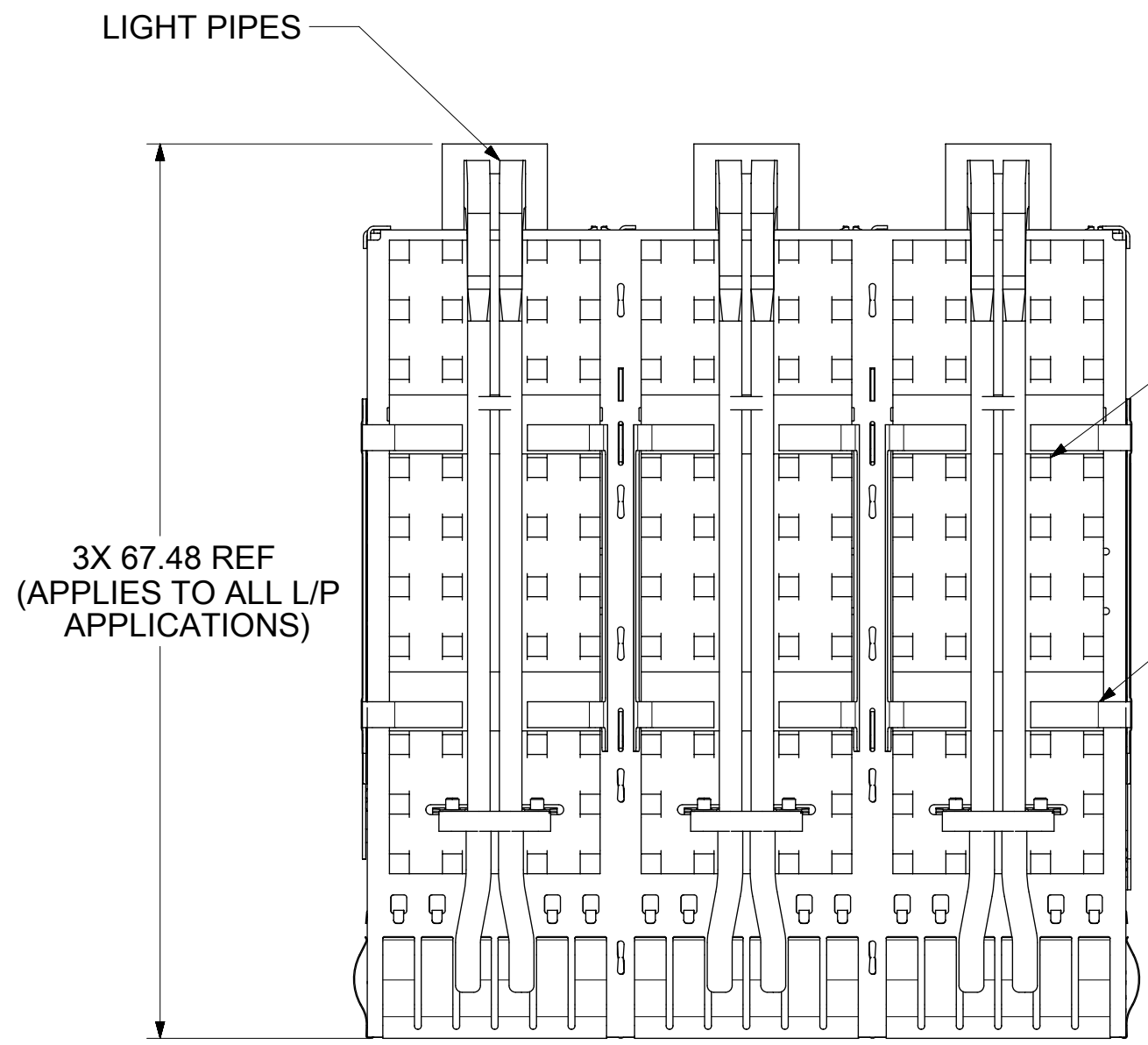
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NO		molex		
mm	2:1					
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 625872		ZQSFP+ 1X3 GANGED CAGE		
ANGULAR TOL	± 2.0°	DRWN: VLOKESHA	2019/08/26	ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS		
4 PLACES	±	CHK'D: GB	2019/11/06	PRODUCT CUSTOMER DRAWING		
3 PLACES	±	APPR: GGA	2019/11/12	DOCUMENT NUMBER		
2 PLACES	± 0.13	INITIAL REVISION:		DOC TYPE DOC PART REVISION		
1 PLACE	± 0.25	DRWN: TKUMARKC	2015/11/03	1000161200 PSD ASY H1		
0 PLACES	±	APPR: RCHEN08	2015/11/11	MATERIAL NUMBER CUSTOMER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	SHEET NUMBER	
			C-SIZE	100016	SEE P/N TABLE GENERAL MARKET 1 OF 7	

CAGE ASSEMBLY OPTIONS

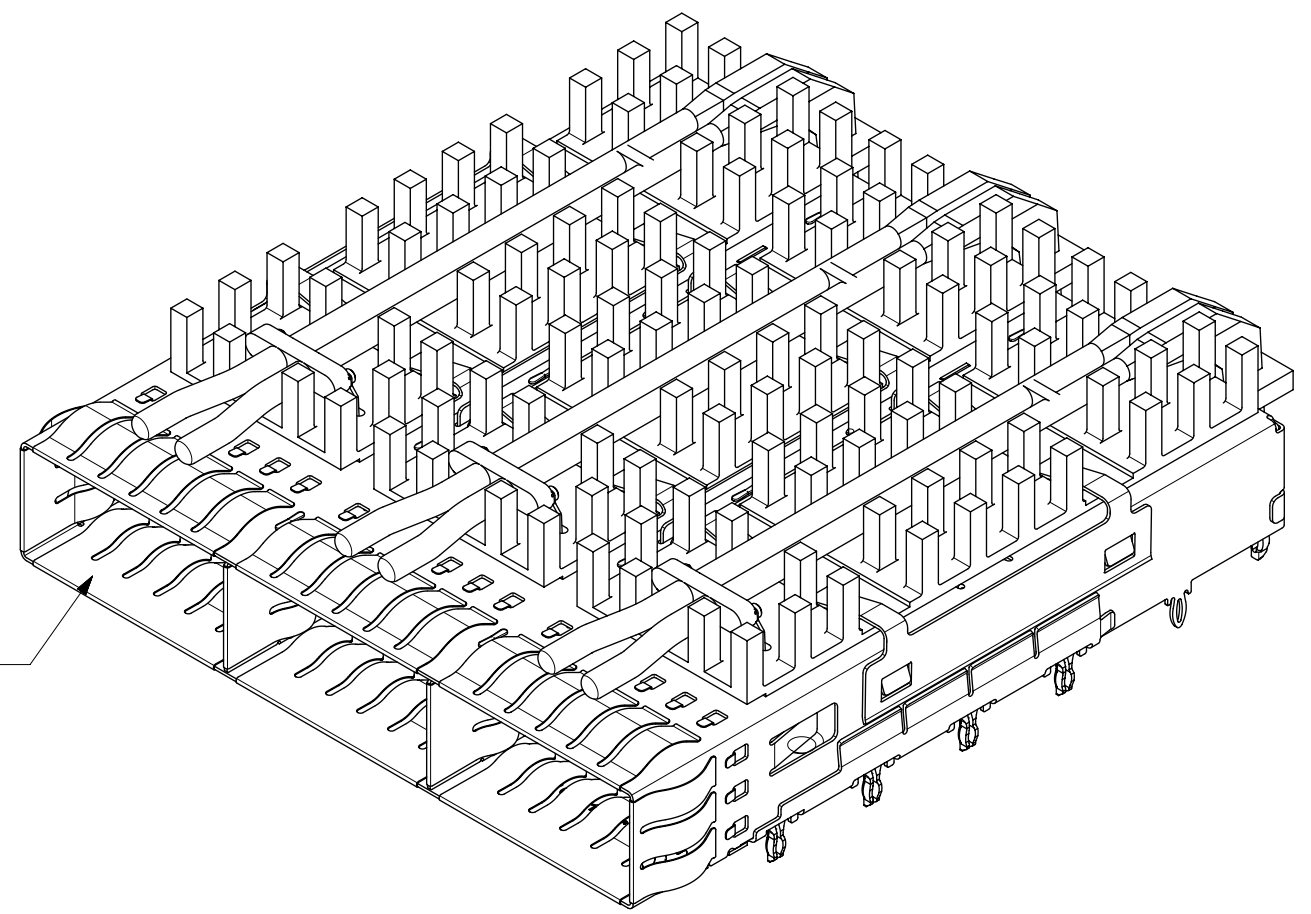
1000161544

SHOWN

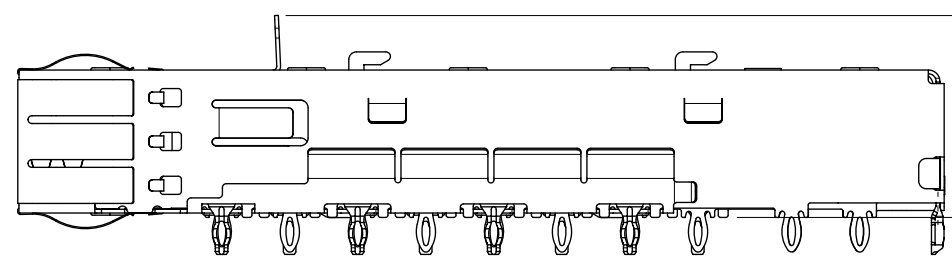


HEAT SINKS

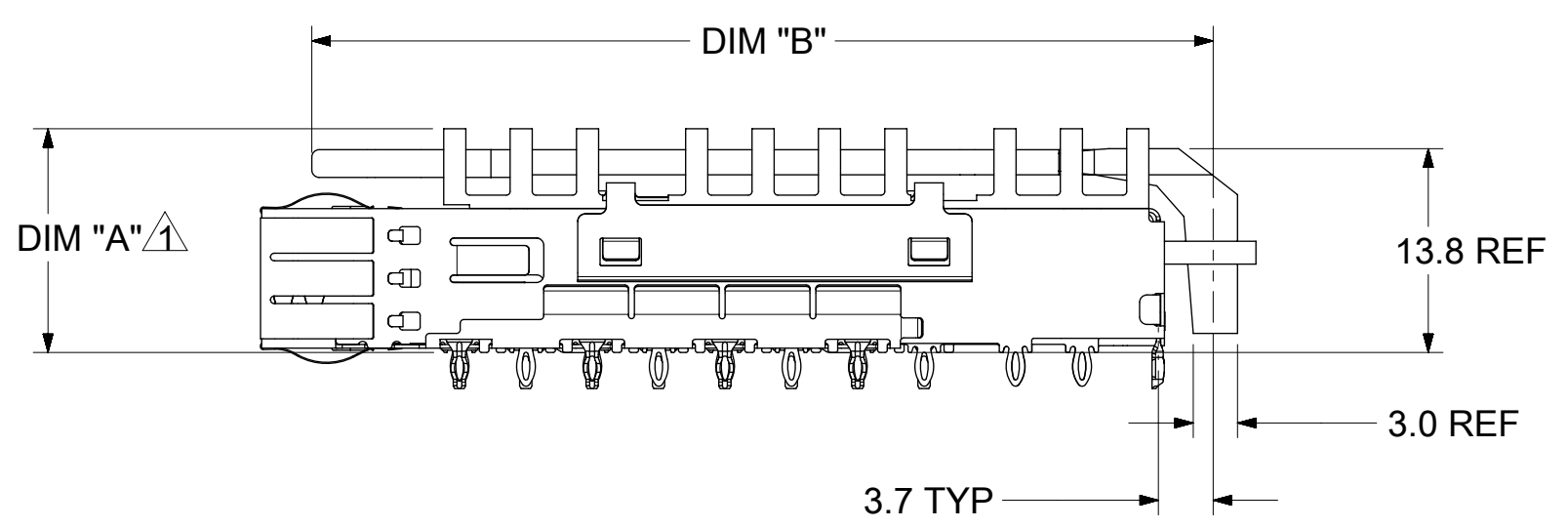
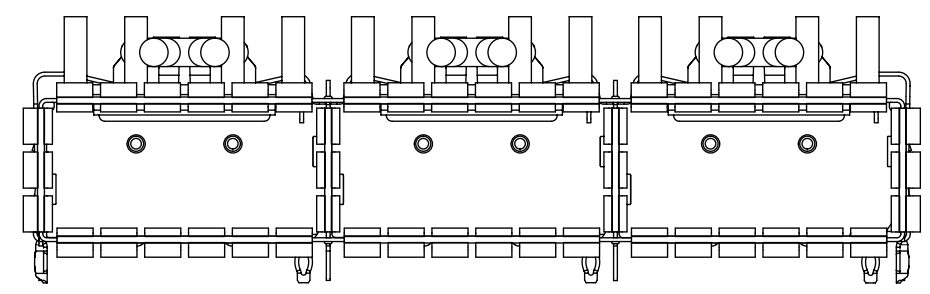
HEAT SINK/CLIP ASSY



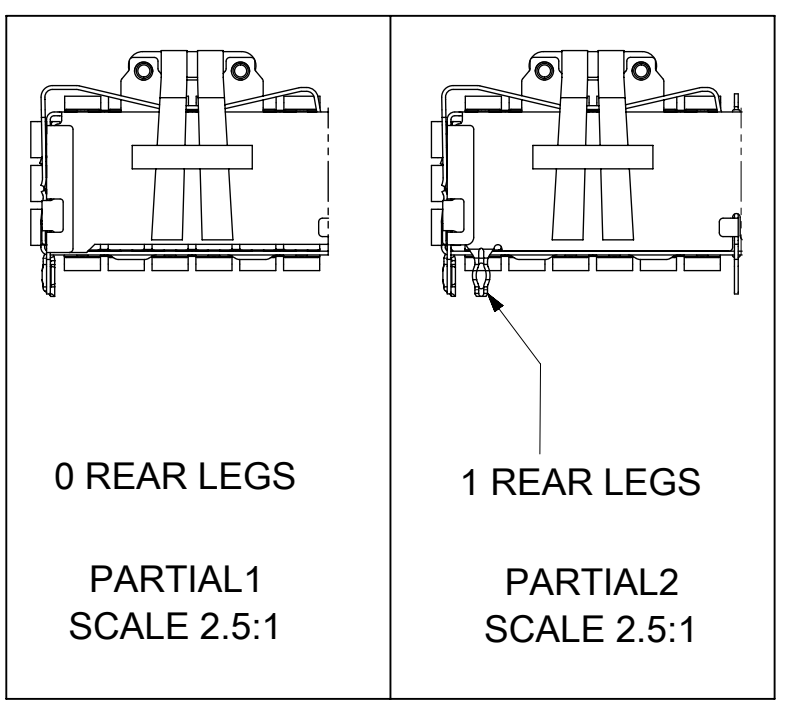
SPRING FINGER



13.4 REF



REAR LEG OPTIONS

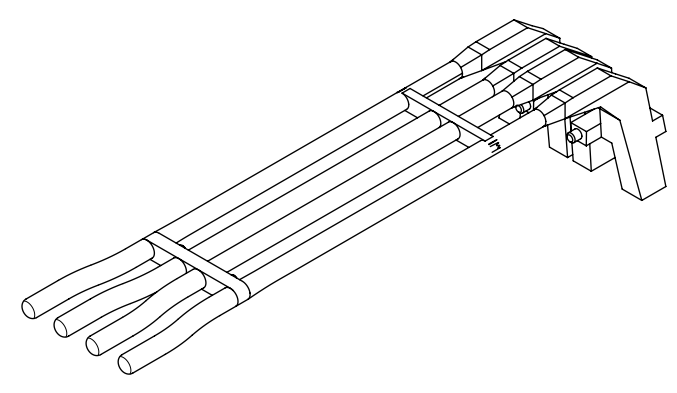
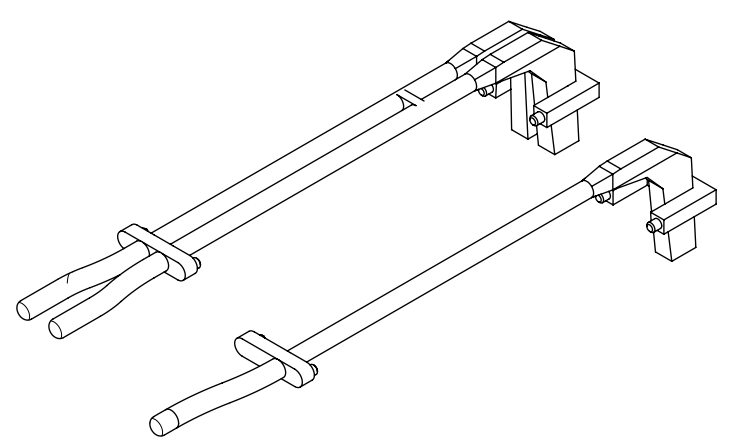


HEATSINK AND LIGHT PIPE COMBINATIONS

HEATSINK USED WITHOUT LIGHTPIPE

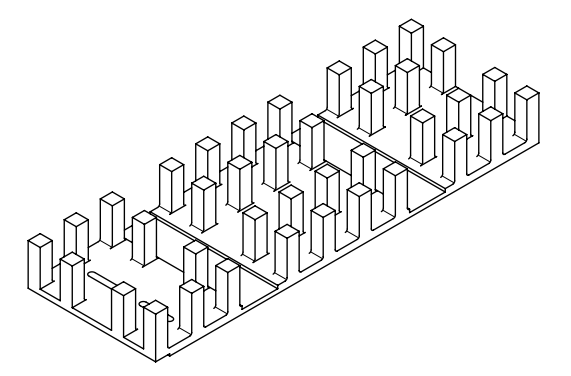
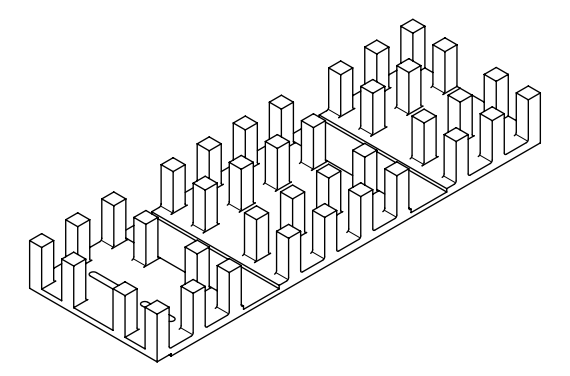
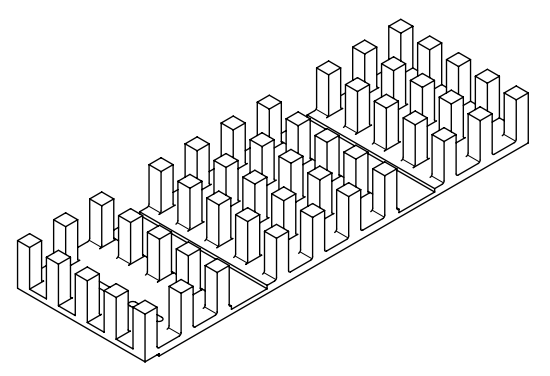
SINGLE / DUAL LIGHT PIPE

QUAD LIGHT PIPE



HEATSINK

HEATSINK



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

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DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NO	
mm	2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)			
ANGULAR TOL	± 2.0°	EC NO: 625872	
4 PLACES	±	DRWN: VLOKESHA	2019/08/26
3 PLACES	±	CHK'D: GB	2019/11/06
2 PLACES	± 0.13	APPR: GGA	2019/11/12
1 PLACE	± 0.25	INITIAL REVISION:	
0 PLACES	±	DRWN: TKUMARKC	2015/11/03
		APPR: RCHEN08	2015/11/11
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
		C-SIZE	100016

ZQSFP+ 1X3 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS

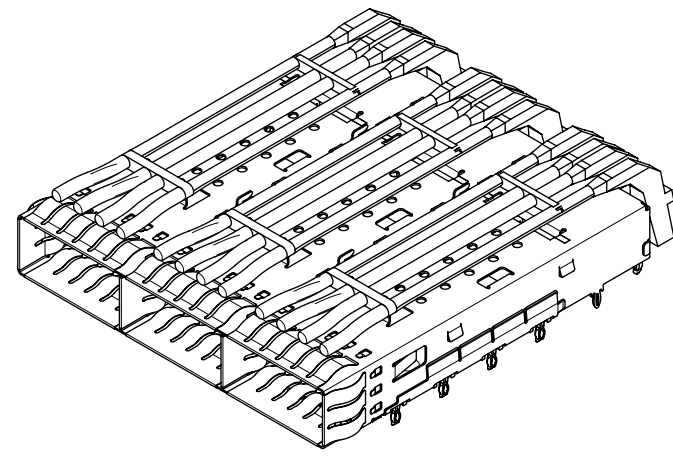
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1000161200	PSD	ASY	H1

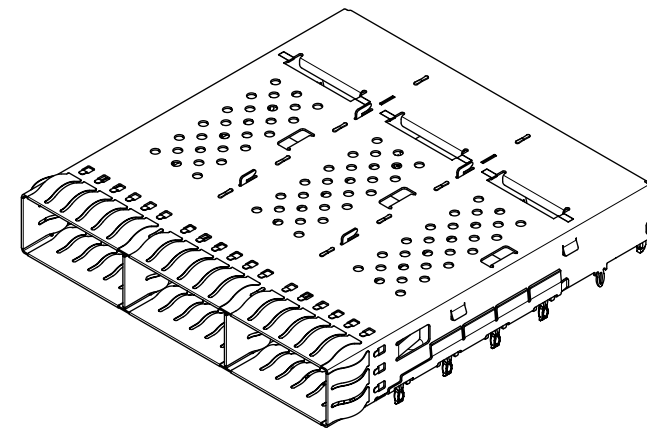
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE P/N TABLE	GENERAL MARKET	2 OF 7

PART NUMBER SELECTION

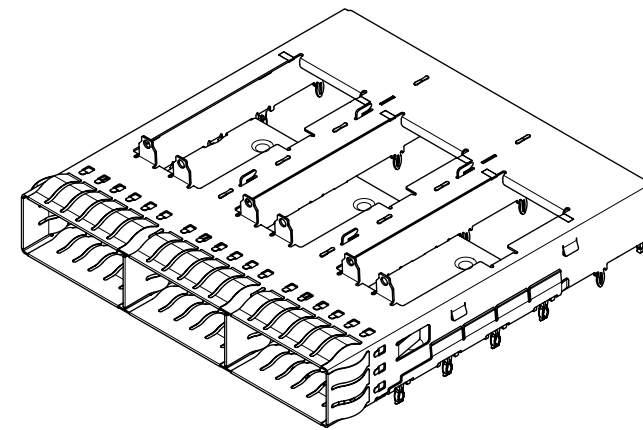
NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



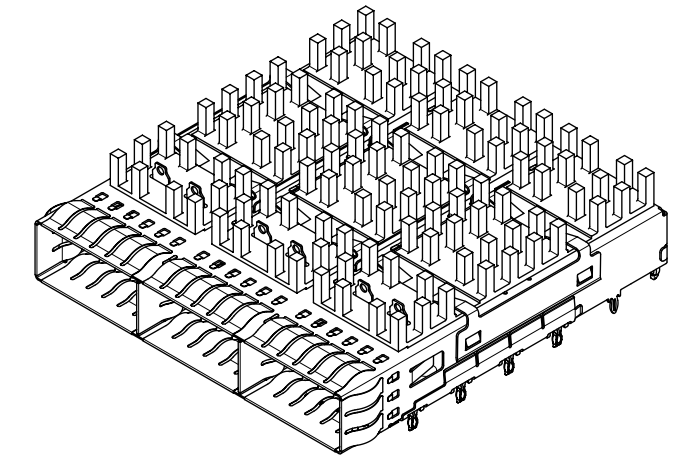
NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



WITH HEATSINKS
NO LIGHT PIPES



MOLEX P/N	LIGHT PIPES	#OF REAR LEGS PER PORT
1000161231	SINGLE	0
1000161232	SINGLE	1
1000161233	DUAL	0
1000161234	DUAL	1
1000161235	QUAD	0
1000161236	QUAD	1

MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000161240	0

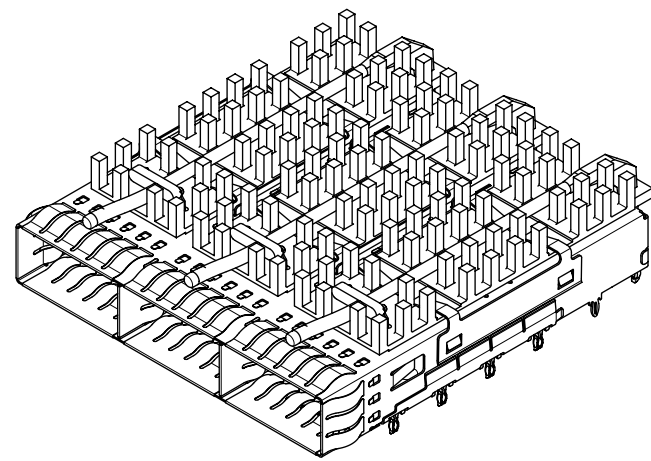
MOLEX P/N W/ SPRING FINGERS	#OF REAR LEGS PER PORT
1000161250	0
1000161252	1

MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000161340	PCI	0
1000161341	SAN	0
1000161342	NET	0
1000161343	PCI	1
1000161344	SAN	1
1000161345	NET	1

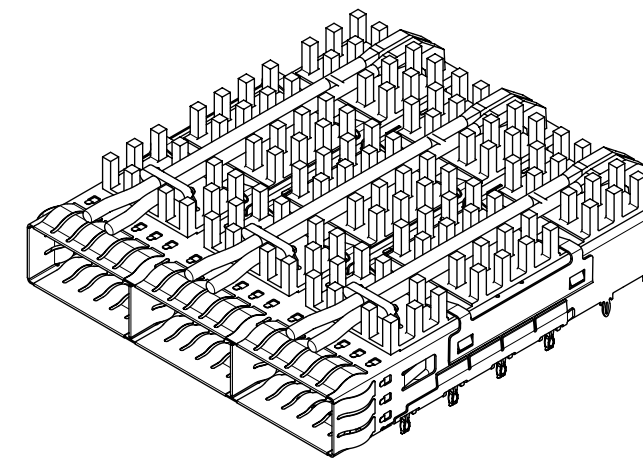
WITH HEATSINKS AND LIGHT PIPES

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT	DIM "B"
1000161440	SINGLE	PCI	0	61.07 REF
1000161441	SINGLE	SAN	0	61.07 REF
1000161442	SINGLE	NET	0	61.07 REF
1000161443	DUAL	PCI	0	61.07 REF
1000161444	DUAL	SAN	0	61.07 REF
1000161445	DUAL	NET	0	61.07 REF
1000161446	QUAD	PCI	0	61.07 REF
1000161447	QUAD	SAN	0	61.07 REF
1000161448	QUAD	NET	0	61.07 REF
1000161540	SINGLE	PCI	1	61.07 REF
1000161541	SINGLE	SAN	1	61.07 REF
1000161542	SINGLE	NET	1	61.07 REF
1000161543	DUAL	PCI	1	61.07 REF
1000161544	DUAL	SAN	1	61.07 REF
1000161545	DUAL	NET	1	61.07 REF
1000161547	QUAD	SAN	1	61.07 REF
1000161548	QUAD	NET	1	61.07 REF
1000161901	DUAL	PCI	0	61.57 REF

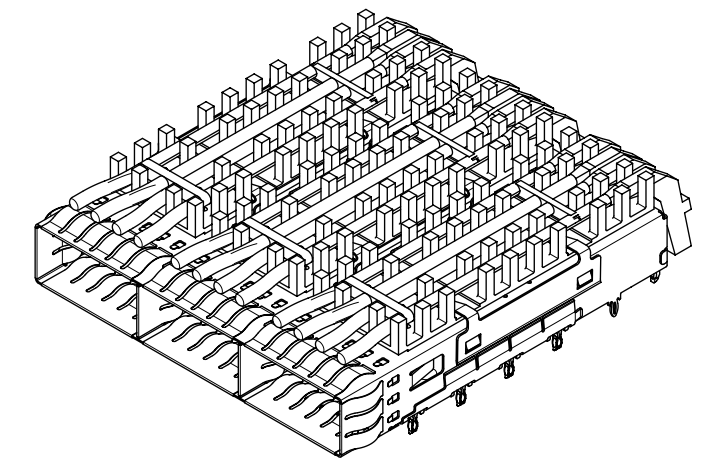
SINGLE LIGHT PIPE



DUAL LIGHT PIPE



QUAD LIGHT PIPE



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: OBSOLETE PART NO							
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 625872		2019/08/26		ZQSFP+ 1X3 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS			
ANGULAR TOL ± 2.0°				DRWN: VLOKESHA		2019/11/06					
4 PLACES ±				CHK'D: GB		2019/11/12		PRODUCT CUSTOMER DRAWING			
3 PLACES ±				APPR: GGA							
2 PLACES ± 0.13				INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE DOC PART REVISION	
1 PLACE ± 0.25				DRWN: TKUMARKC		2015/11/03		1000161200		PSD ASY H1	
0 PLACES ±				APPR: RCHEN08		2015/11/11		MATERIAL NUMBER		CUSTOMER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		SHEET NUMBER	
						C-SIZE		100016		SEE P/N TABLE GENERAL MARKET 3 OF 7	

PCB LAYOUT FOR SINGLE SIDED MOUNTING

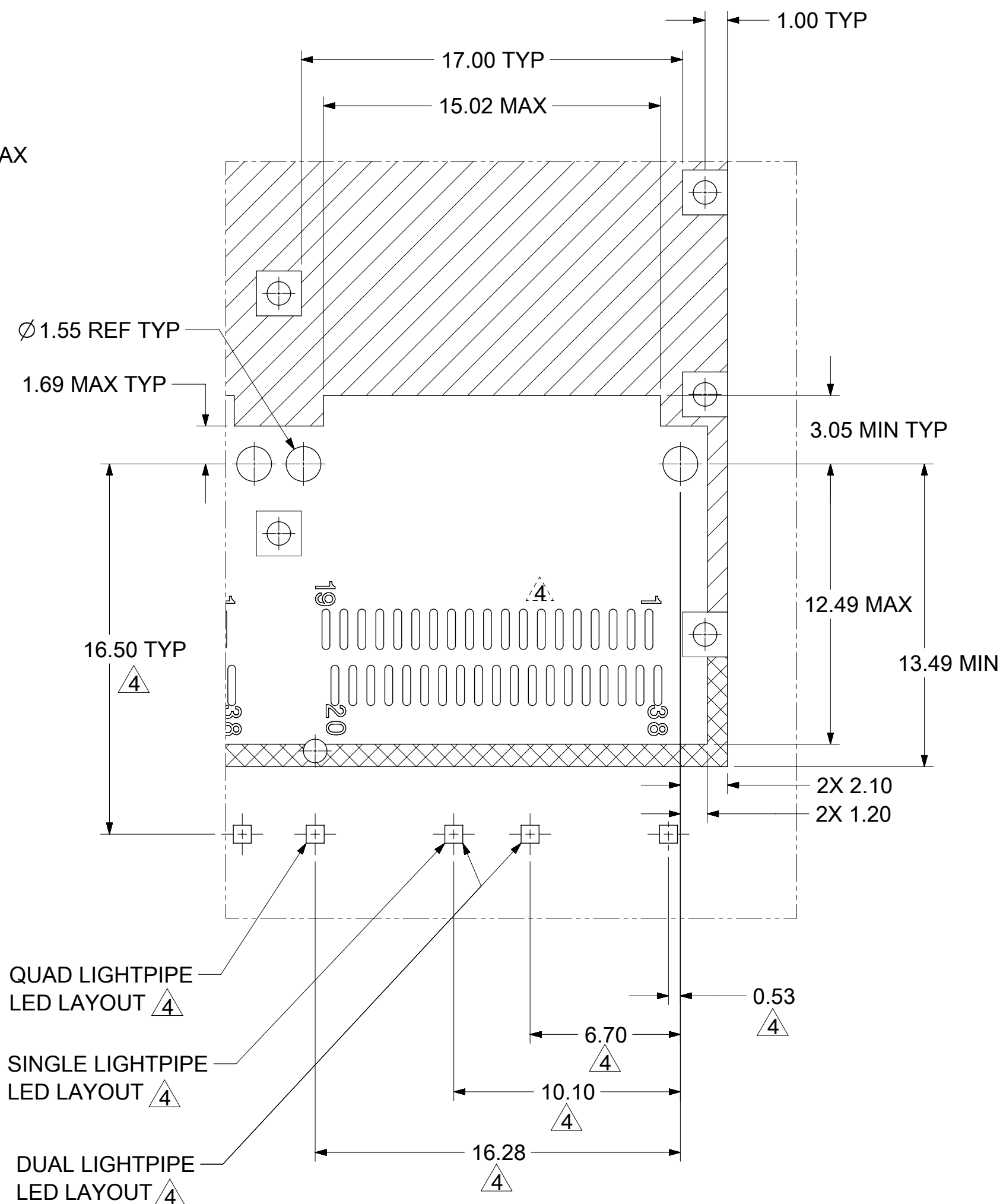
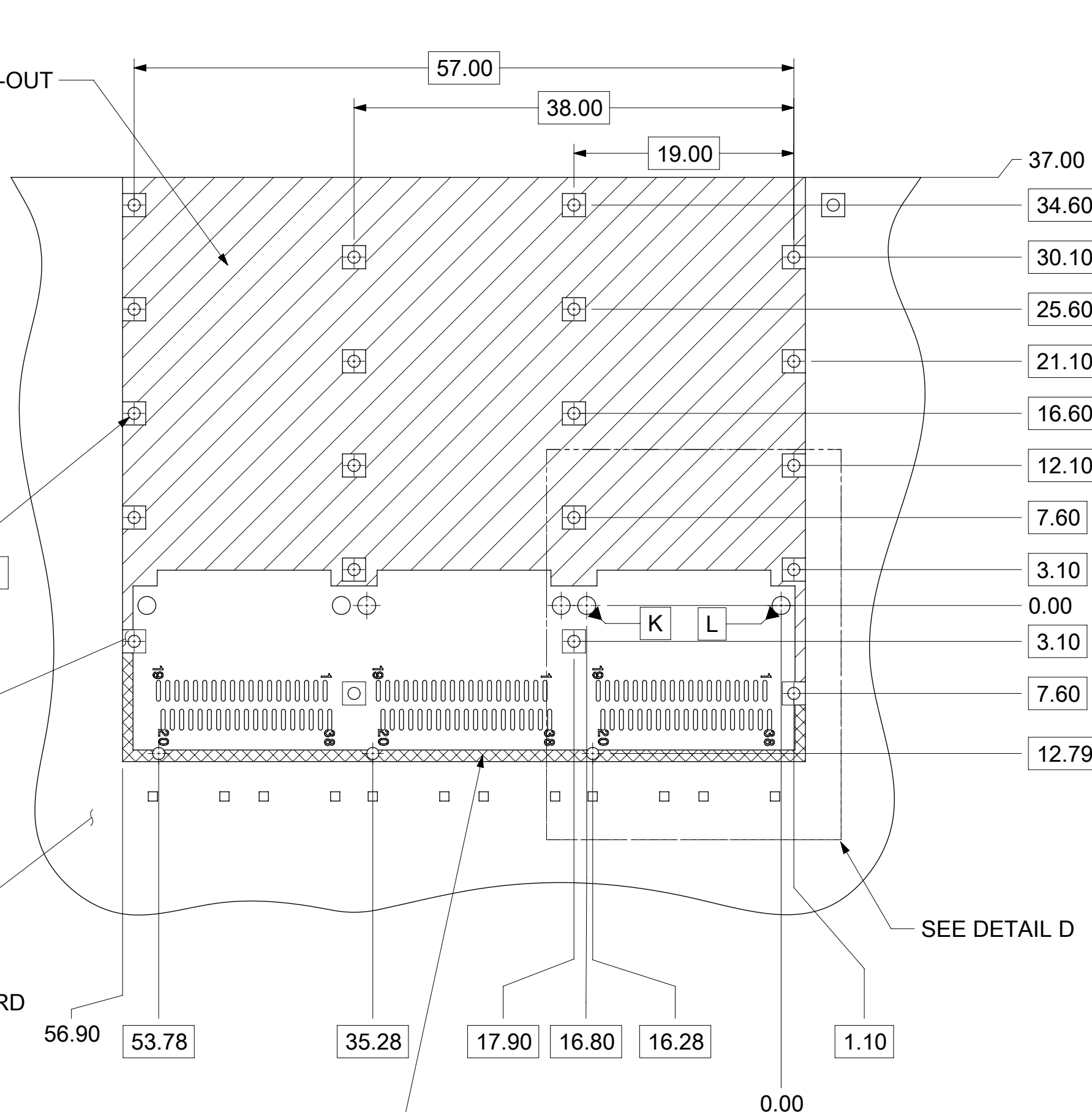
HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

Ø1.05 ±0.05 TYP
 ⊕ Ø0.10(M) A K L

AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

DATUM -A- IS THE TOP SURFACE OF HOST BOARD

CROSS HATCHED AREA DENOTES WHERE SURFACE TRACES ARE PERMITTED



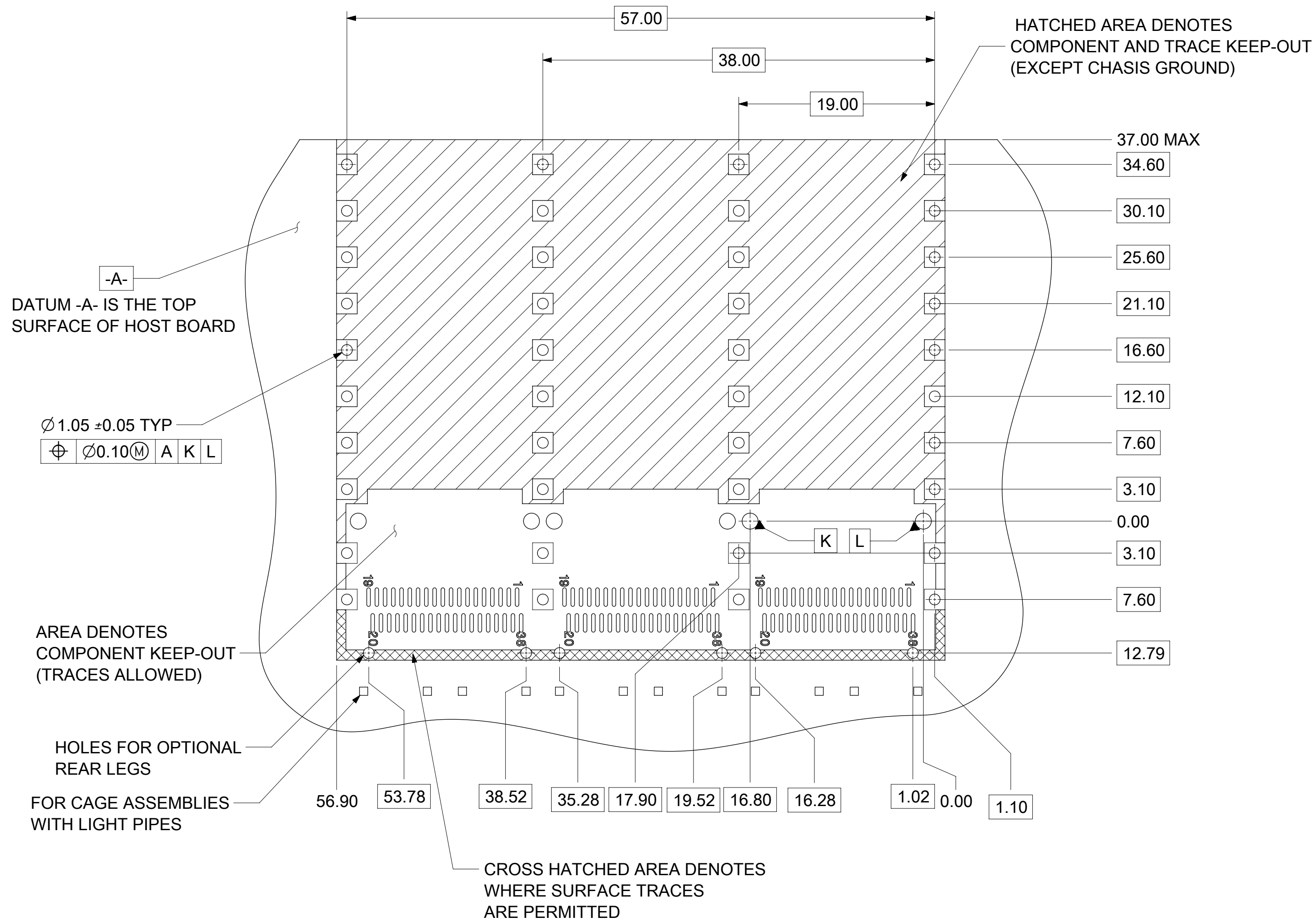
DETAIL D
SCALE 5:1

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

DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NO		molex		
mm	3.5:1					
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 625872		ZQSFP+ 1X3 GANGED CAGE		
ANGULAR TOL	± 2.0°	DRWN: VLOKESHA	2019/08/26	ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS		
4 PLACES	±	CHK'D: GB	2019/11/06	PRODUCT CUSTOMER DRAWING		
3 PLACES	±	APPR: GGA	2019/11/12	DOCUMENT NUMBER		
2 PLACES	± 0.13	INITIAL REVISION:		1000161200		
1 PLACE	± 0.25	DRWN: TKUMARKC	2015/11/03	DOC TYPE	DOC PART	REVISION
0 PLACES	±	APPR: RCHEN08	2015/11/11	PSD	ASY	H1
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			C-SIZE	SEE P/N TABLE	GENERAL MARKET	4 OF 7
			SERIES			
			100016			

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



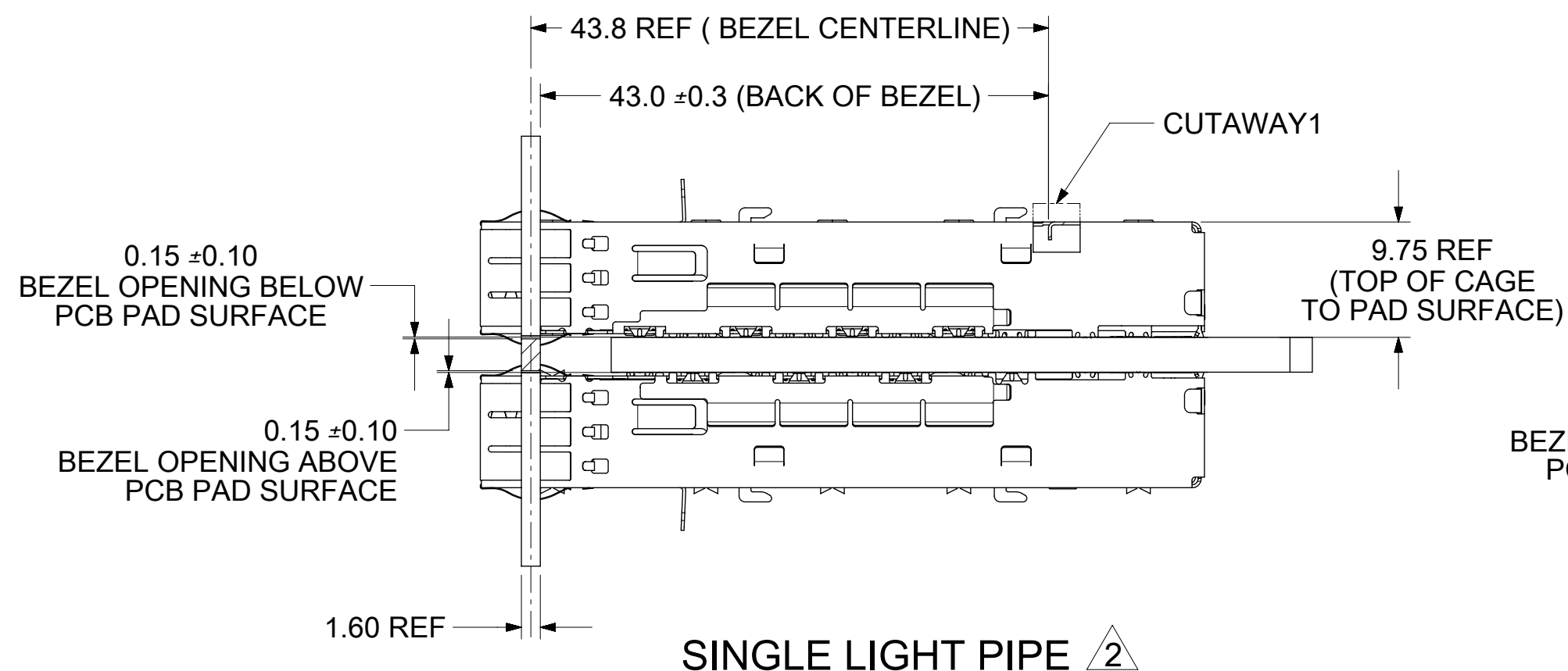
NOTE:
SEE SHEET 4 FOR
HOST CONNECTOR DETAIL
AND LED LOCATION DETAILS

- 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.

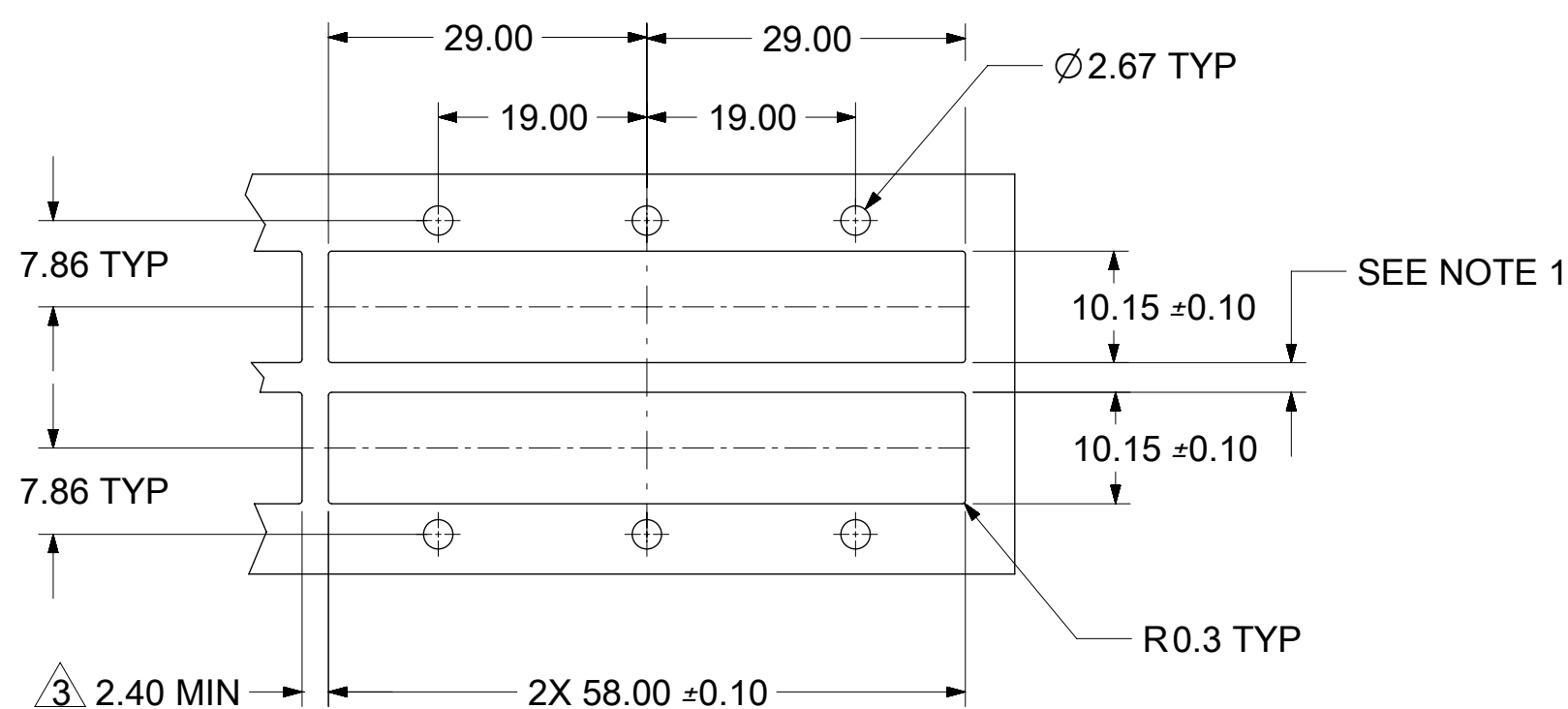
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NO					
mm		3:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 625872				ZQSFP+ 1X3 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
ANGULAR TOL ± 2.0°				DRWN: VLOKESHA 2019/08/26					
4 PLACES ±				CHK'D: GB 2019/11/06					
3 PLACES ±				APPR: GGA 2019/11/12				PRODUCT CUSTOMER DRAWING	
2 PLACES ± 0.13				INITIAL REVISION:				DOCUMENT NUMBER	
1 PLACE ± 0.25				DRWN: TKUMARKC 2015/11/03				1000161200	
0 PLACES ±				APPR: RCHEN08 2015/11/11				PSD ASY H1	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				C-SIZE		100016		SEE P/N TABLE	
						CUSTOMER		SHEET NUMBER	
						GENERAL MARKET		5 OF 7	

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/12 07:19:43
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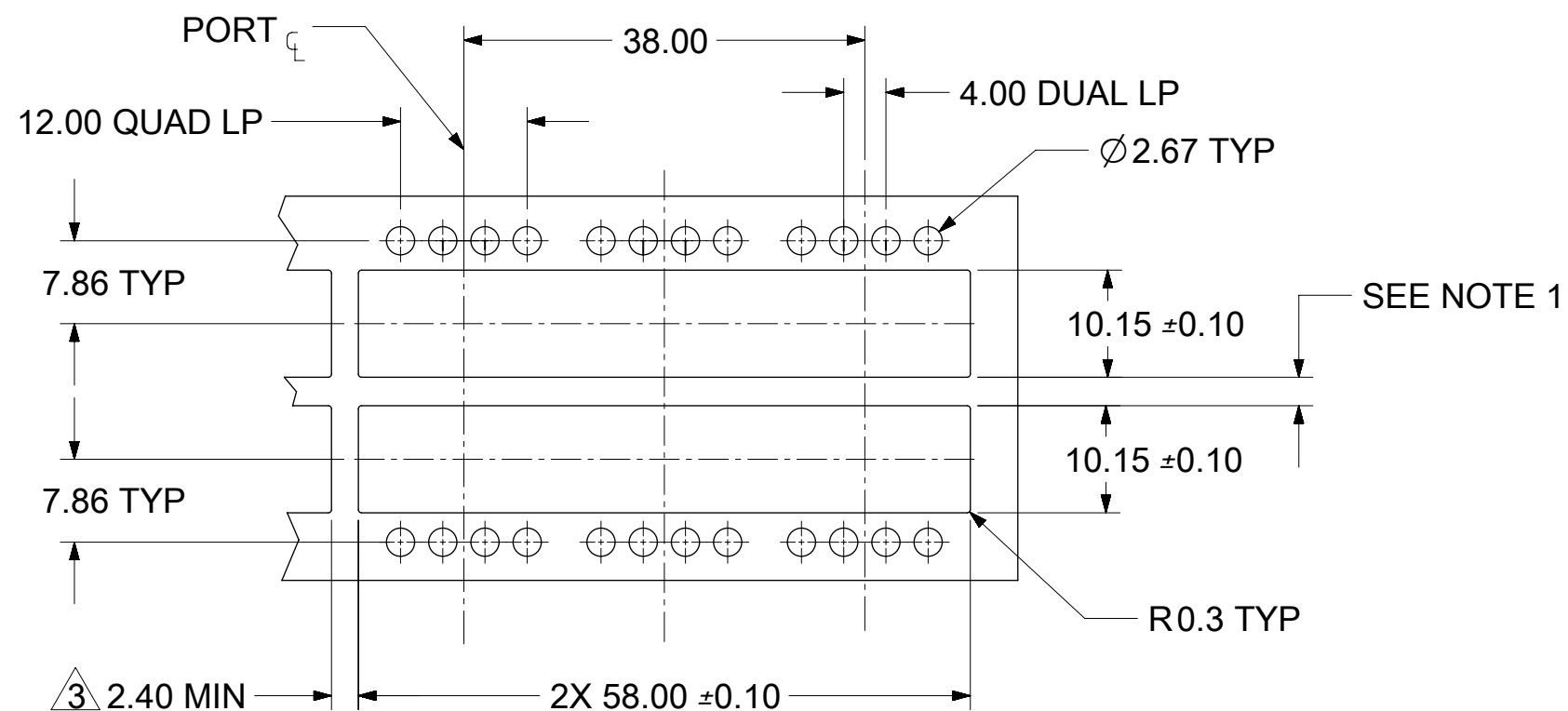
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



SINGLE LIGHT PIPE ²

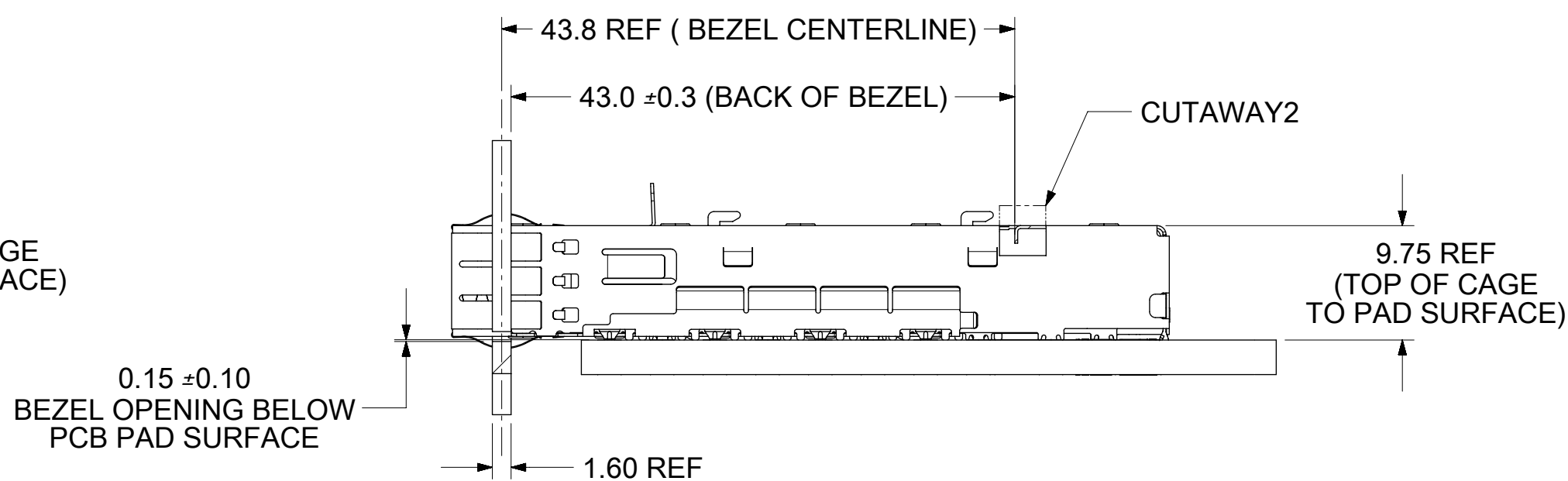


DUAL/QUAD LIGHT PIPE ²

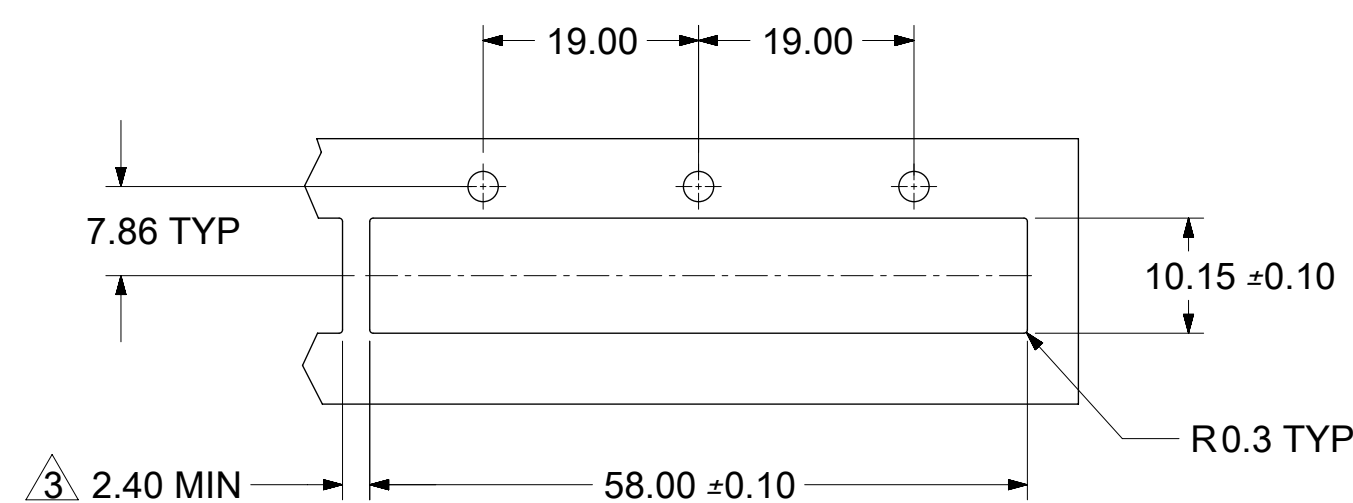


NOTE:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
 2. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
 3. THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. (THIS DIMENSION VARIES BASED ON DISTANCE OF " HOLE OF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

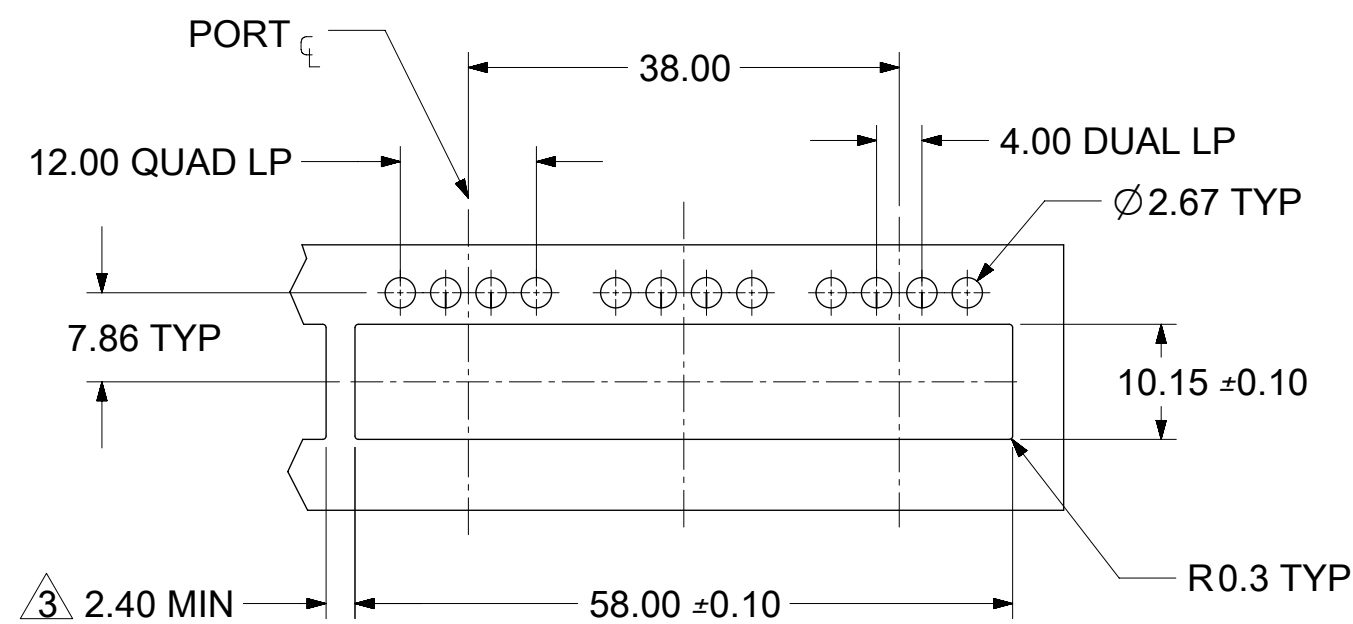
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



SINGLE LIGHT PIPE ²



DUAL LIGHT PIPE ²



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: OBSOLETE PART NO					
mm		2:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 625872				ZQSFP+ 1X3 GANGED CAGE	
ANGULAR TOL ± 2.0°				DRWN: VLOKESHA 2019/08/26				ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
4 PLACES ±				CHK'D: GB 2019/11/06				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: GGA 2019/11/12				DOCUMENT NUMBER	
2 PLACES ± 0.13				INITIAL REVISION:				DOC TYPE DOC PART REVISION	
1 PLACE ± 0.25				DRWN: TKUMARKC 2015/11/03				1000161200	
0 PLACES ±				APPR: RCHEN08 2015/11/11				PSD ASY H1	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				C-SIZE		100016		SEE P/N TABLE	
DOCUMENT STATUS		RELEASE DATE		CUSTOMER		SHEET NUMBER			
P1		2019/11/12 07:19:43		GENERAL MARKET		6 OF 7			

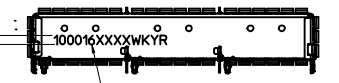
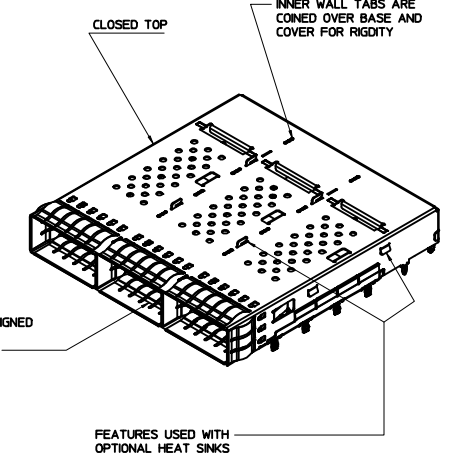
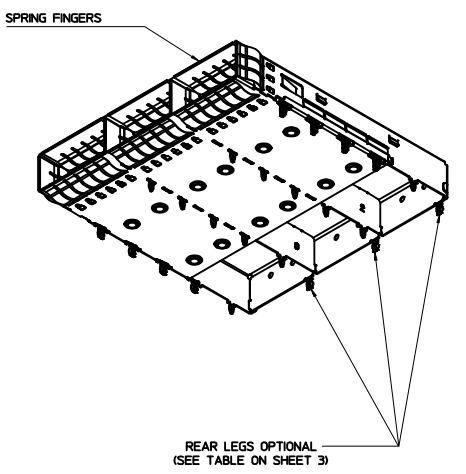
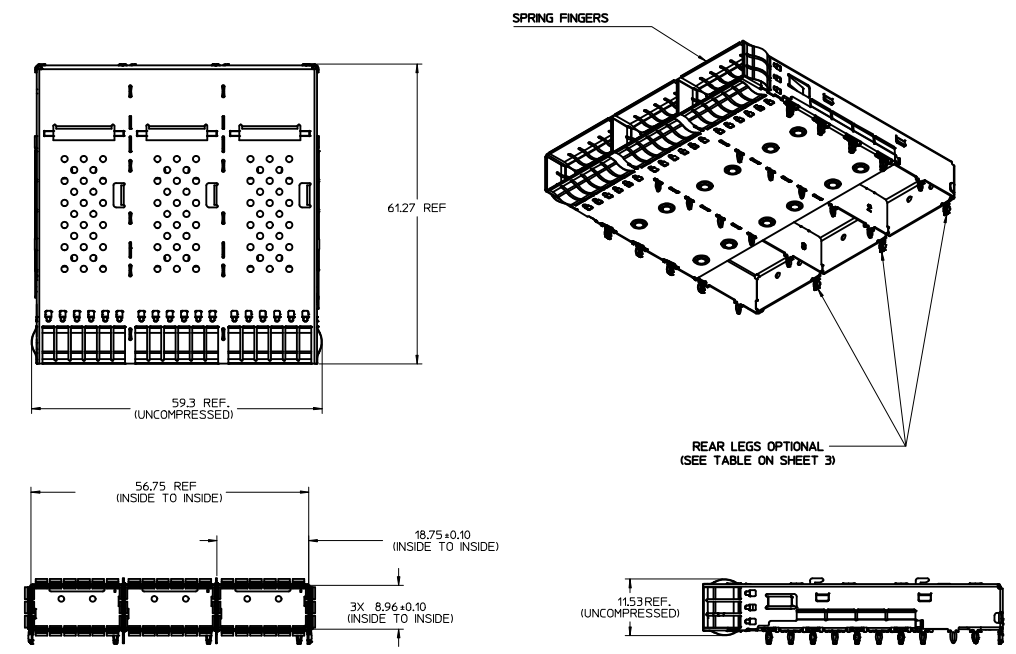
REV	DATE	DESCRIPTION
A	2013/03/29	RELEASE
B	2013/03/17	SHEET 2: E-3 CHANGED 2 REAR LEGS TO 1 REAR LEG SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/ LP. SHEET 4/5: EXPANDED AREA FOR WHERE SURFACE TRACES ARE PERMITTED. REMOVED "HOLE PATTERN REPEATS FOR EACH PORT" FROM NOTE 4
C	2014/06/27	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. CHANGED REARMOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
D	2014/10/06	SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J13: 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 SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
E	2015/04/14	SHEET4: REVISED DIM "WAS" 12.77 'NOW' 12.79 @ G9 REVISED FRAMED TEXT NUMBER 4 TRAIANGLES TO FRAMED TEXT NUMBER 5 @D4, @E4, @E6, @E5, @E6, AND @H4 SHEET5: REVISED DIM "WAS" 12.77 'NOW' 12.79 @ F7 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REMOVED NOTE 4 @A20 SHEET6: REVISED PORT CL "WAS" (4) "NOW" PORT CL @E7 AND @ E16
F	2015/04/09	REMASTERED FROM SD-100016-1200_REV 'E' TO 1000161200 PSD REV_F SHEET 2: AT E6: ADDED DIM "B" TO THE VIEW SHEET 3: AT A11: ADDED P/N 1000161901 TO WITH HEAT SINK AND LIGHT PIPES TABLE
F1	2016/03/16	CHANGED THE DOCUMENT TYPE FROM RSD TO SD.
G	2018/03/02	SHEET 1: C06: ADDED DIM 13.4 REF SHEET 3: C12: CORRECTED TYOP P/N FROM 1000151447 TO 1000161447 SHEET 4: D08: ADDED BASIC DIM 17.90 SHEET 5: C08: ADDED BASIC DIM 19.52 & 35.28 C09: ADDED BASIC DIM 38.52 & 53.78 SHEET 6: G11: ADDED DIM 0.15±0.10 (BEZEL OPENING ABOVE PCB PAD SURFACE) G07: CORRECTED TYPO DIM FROM 9.78 REF TO 9.75 REF G02: CORRECTED TYPO DIM FROM 9.78 REF TO 9.75 REF F11: CORRECTED TYPO DIM FROM 2.10 REF TO 1.60 REF F05: CORRECTED TYPO DIM FROM 2.10 REF TO 1.60 REF D11 & D05: CORRECTED TYPO DIM FROM 2.75 MIN TO 2.40 REF A11: CORRECTED TYPO DIM FROM 2.75 MIN TO 2.40 REF B05: CORRECTED TYPO DIM FROM 2.75 MIN TO 2.40 REF A12: 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	2018/05/25	SHEET 4 : ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION. SHEET 5 : ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION.
H1	2019/08/26	OBSOLETE P/N 1000161242,1000161546

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: OBSOLETE PART NO					
mm		1:1		molex ZQSFP+ 1X3 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: 1000161200 DOC TYPE: PSD DOC PART: ASY REVISION: H1 MATERIAL NUMBER: SEE P/N TABLE CUSTOMER: GENERAL MARKET SHEET NUMBER: 7 OF 7					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL		± 2.0°							
4 PLACES		±							
3 PLACES		±							
2 PLACES		± 0.13		EC NO: 625872		2019/08/26		DRWN: VLOKESHA	
1 PLACE		± 0.25		APPR: GGA		2019/11/12		CHK'D: GB	
0 PLACES		±		INITIAL REVISION:		2015/11/03		APPR: RCHEN08	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		2015/11/11	
				C-SIZE		100016			

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/12 07:19:43
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BASE CAGE DETAILS

1000161242
SHOWN



- 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

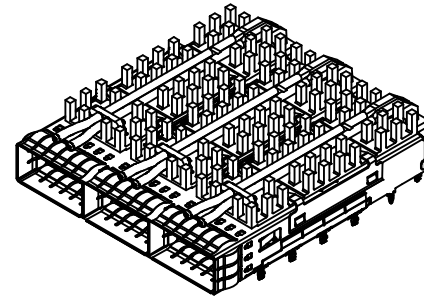
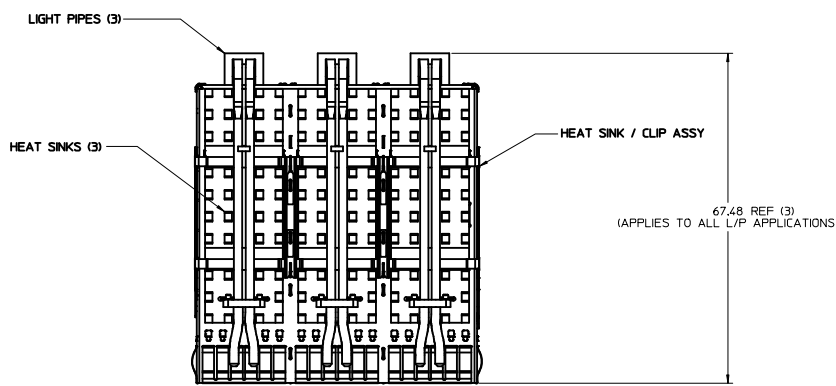
WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	12, 13, 14 ETC. (EXAMPLE: YEAR 2012= 12)

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	SESSION UNITS	THIRD ANGLE PROJECTION
	mm	INCH	MM ONLY	2:1	METRIC		
▽=0	4 PLACES ± .0001	± .0001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	3 PLACES ± .001	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	2 PLACES ± 0.03	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	1 PLACE ± 0.25	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	0 PLACE ± .	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	ANGULAR ± 2 °	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	SEE REVISION TABLE	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	DRAFT WHERE APPLICABLE	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	
▽=0	WITH DIMENSIONS	± .001	DRAWN BY	DATE	TITLE	ZOSFP- 4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS	

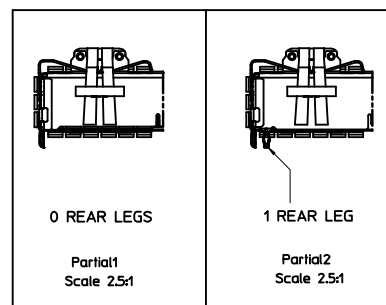
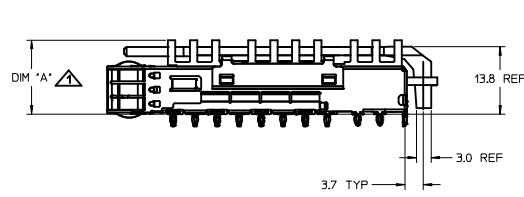
CAGE ASSEMBLY OPTIONS

1000161544

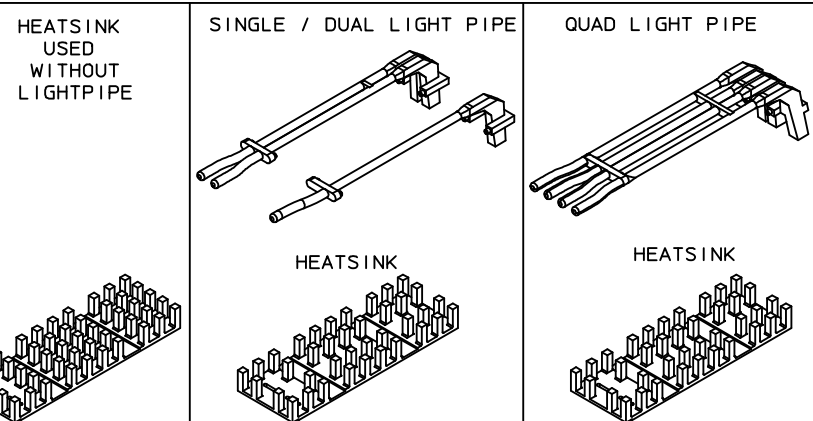
SHOWN



REAR LEG OPTIONS



HEATSINK AND LIGHT PIPE COMBINATIONS



HEATSINK HEIGHT OPTIONS

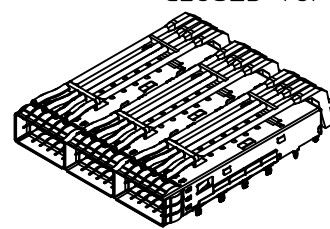
OVERALL HEAT SINK HEIGHT DIM "A"	
PCI	13.7 REF
SAN	16.0 REF
NET	23.0 REF

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

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION
	mm	INCH	MM ONLY	2:1	METRIC				
4 PLACES ± .005	± .005	± .0005	DRAWN BY	DATE	TITLE				
3 PLACES ± .002	± .002	± .0002	DRAWN BY	2012/09/06	ZQSEF, 4X3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS				
2 PLACES ± 0.13	± .013	± .0013	CHECKED BY	DATE					
1 PLACE ± 0.25	± .025	± .0025	APPROVED BY	DATE					
0 PLACE ± .12	± .012	± .0012	MATERIAL NO.	2013/04/08					
ANGULAR ± 2 °			KLLOYD						
DRAFT WHERE APPLICABLE			SEE DRAWING		DOCUMENT NO.		SD-100016-1200		
MUST BE SHOWN WITH DIMENSIONS					SHEET NO.		2 OF 7		
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

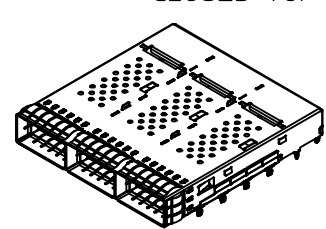
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



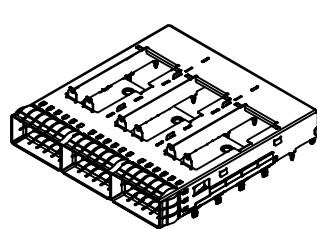
MOLEX P/N	LIGHTPIPES	#OF REAR LEGS PER PORT
1000161231	SINGLE	0
1000161232	SINGLE	1
1000161233	DUAL	0
1000161234	DUAL	1
1000161235	QUAD	0
1000161236	QUAD	1

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



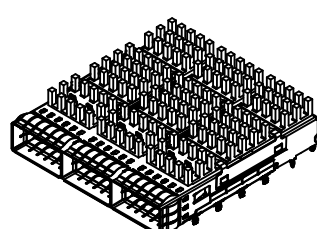
MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000161240	0
1000161242	1

NO HEATSINKS
NO LIGHT PIPES
OPEN TOP



MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000161250	0
1000161252	1

WITH HEATSINKS
NO LIGHT PIPES

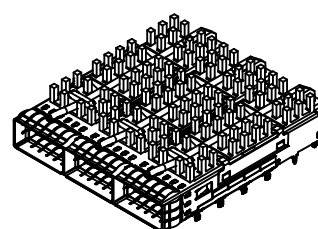


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000161340	PCI	0
1000161341	SAN	0
1000161342	NET	0
1000161343	PCI	1
1000161344	SAN	1
1000161345	NET	1

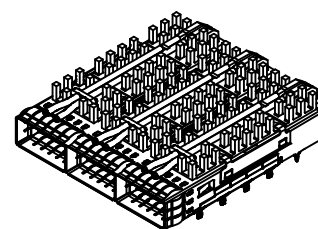
WITH HEATSINKS AND LIGHT PIPES

MOLEX P/N	LIGHTPIPES	HEATSINKS	#OF REAR LEGS PER PORT
1000161440	SINGLE	PCI	0
1000161441	SINGLE	SAN	0
1000161442	SINGLE	NET	0
1000161443	DUAL	PCI	0
1000161444	DUAL	SAN	0
1000161445	DUAL	NET	0
1000161446	QUAD	PCI	0
1000161447	QUAD	SAN	0
1000161448	QUAD	NET	0
1000161540	SINGLE	PCI	1
1000161541	SINGLE	SAN	1
1000161542	SINGLE	NET	1
1000161543	DUAL	PCI	1
1000161544	DUAL	SAN	1
1000161545	DUAL	NET	1
1000161546	QUAD	PCI	1
1000161547	QUAD	SAN	1
1000161548	QUAD	NET	1

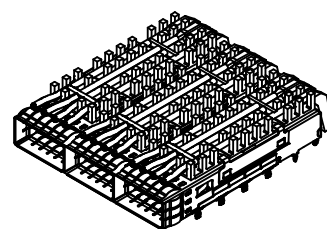
SINGLE LIGHT PIPE



DUAL LIGHT PIPE

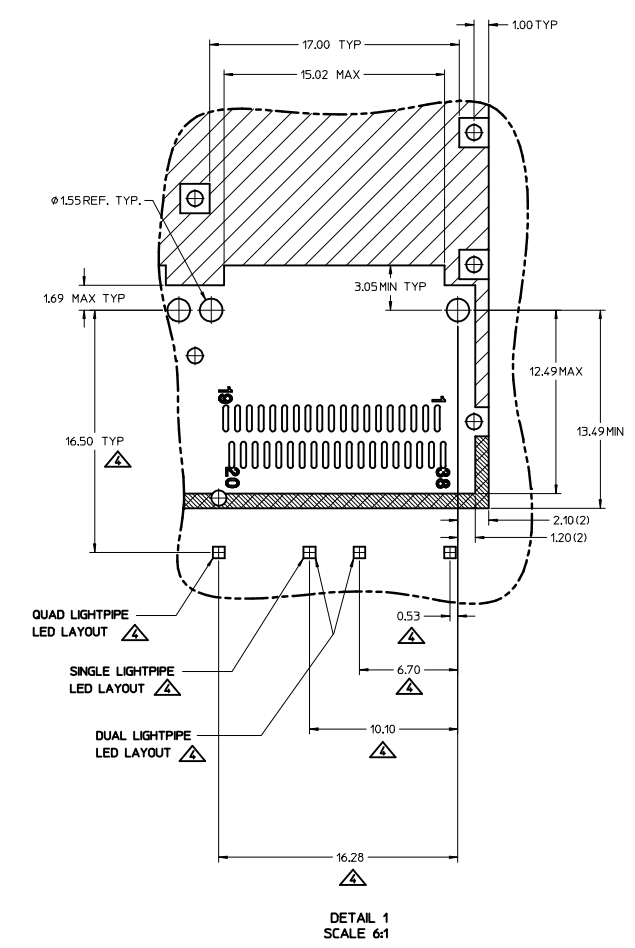
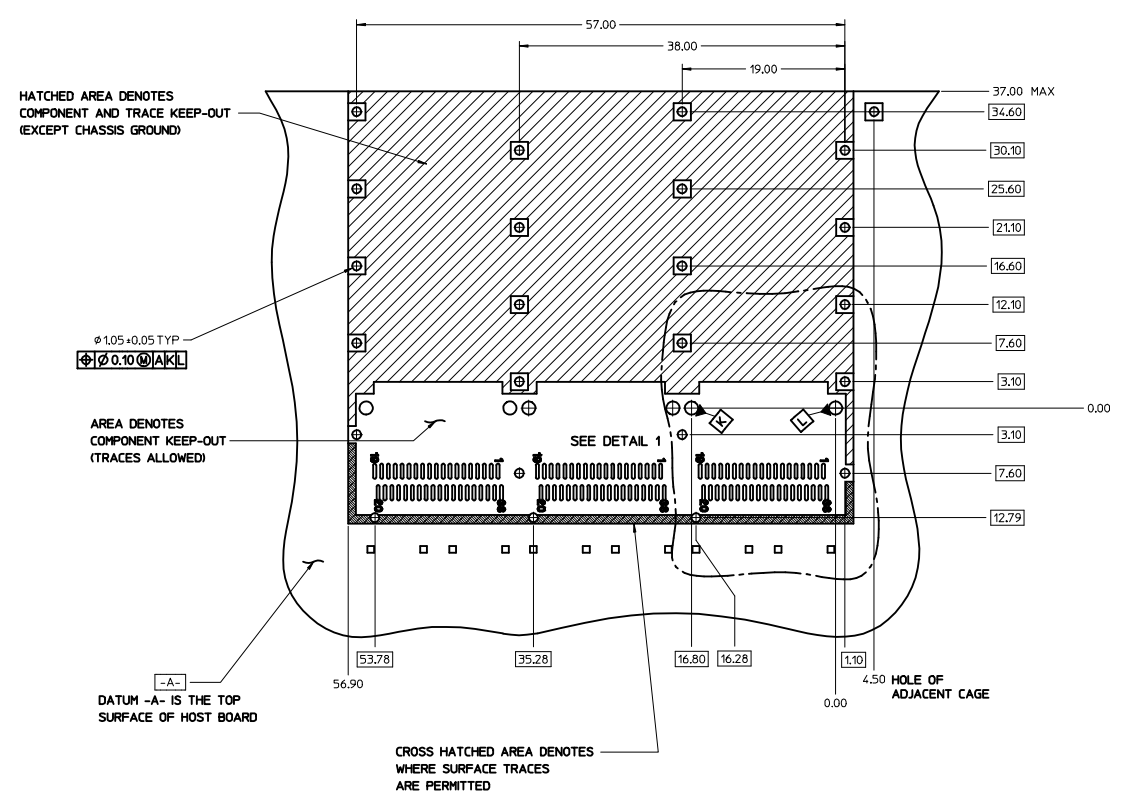


QUAD LIGHT PIPE



SEE REVISION TABLE SEC. NO. 020005-54-09 PART NO. 2013/04/08 APPROVAL DATE: 2013/04/08	QUALITY SYMBOLS 100% VISUAL 100% DIMENSIONAL 100% FUNCTIONAL	GENERAL TOLERANCES (UNLESS SPECIFIED) DIM. INCH 4 PLACES ±.0005 3 PLACES ±.0008 2 PLACES ±.0015 1 PLACE ±.0025 0 PLACE ±.0050	DIMENSION STYLE MM ONLY DRAWN BY: BREED DATE: 2012/09/06 CHECKED BY: SATE DATE: 2012/09/06 TPRICE APPROVED BY: DATE: KLOYD DATE: 2013/04/08	SCALE: 1:1 DIMENSION UNITS: METRIC THIRD ANGLE PROJECTION	TITLE: ZQSPF-4Y3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS molex	SHEET NO.: 3 OF 7 DOCUMENT NO.: SD-100016-1200
	DRAFT WHERE APPLICABLE MUST BE HUMAN READABLE WITH DIMENSIONS			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 SERIES 170432.
- ⚠ NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

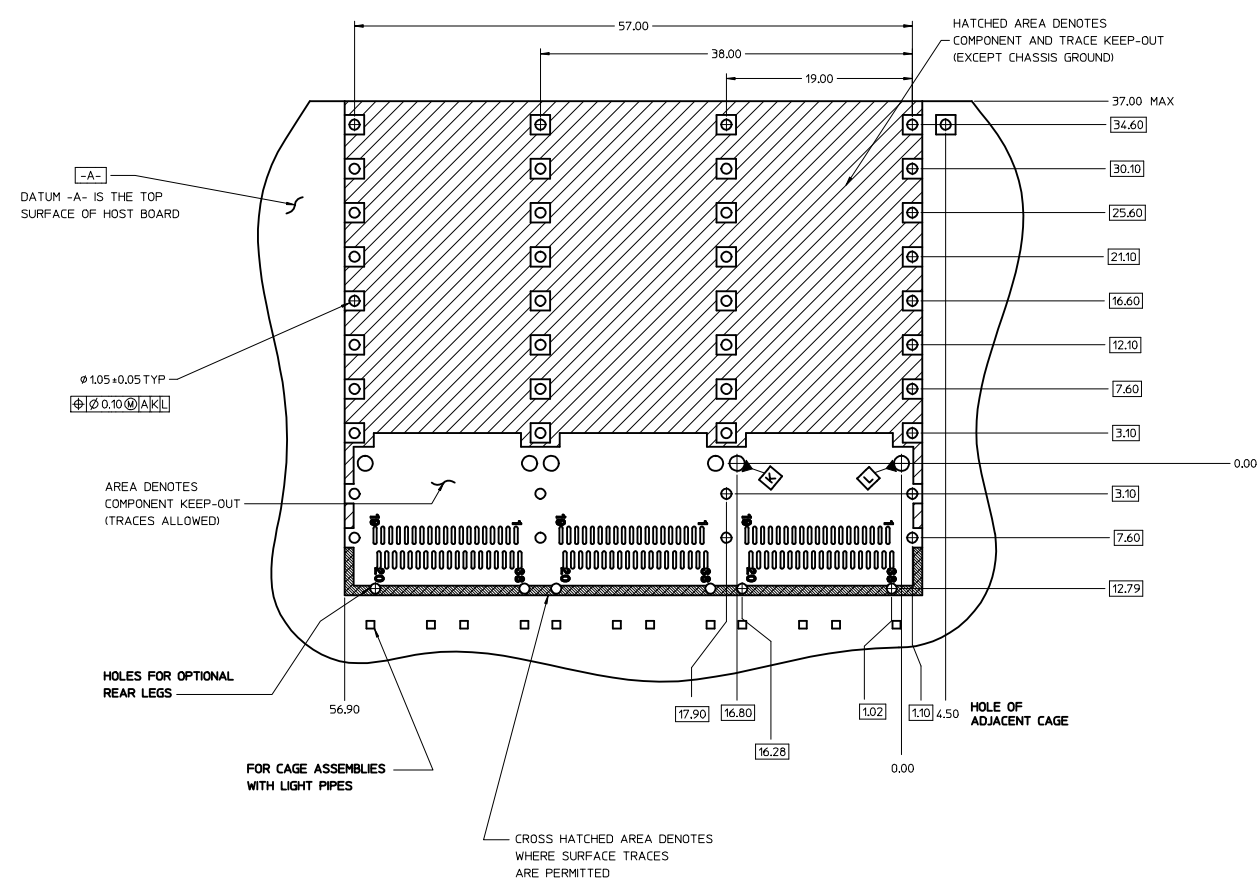
QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		PROJECTION
	mm	INCH	MM ONLY	3.5:1	METRIC	THIRD ANGLE	
▽=0	±0.15	±0.005	DRAWN BY	DATE	TITLE		
▽=0	±0.10	±0.004	CHECKED BY	DATE			
▽=0	±0.13	±0.005	APPROVED BY	DATE			
▽=0	±0.25	±0.010					
▽=0	±0.50	±0.020					
▽=0	±1.00	±0.040					
▽=0	±2.00	±0.080					
▽=0	±3.00	±0.120					
▽=0	±4.00	±0.160					
▽=0	±5.00	±0.200					
▽=0	±6.00	±0.240					
▽=0	±7.00	±0.280					
▽=0	±8.00	±0.320					
▽=0	±9.00	±0.360					
▽=0	±10.00	±0.400					
▽=0	±12.00	±0.480					
▽=0	±15.00	±0.600					
▽=0	±20.00	±0.800					
▽=0	±25.00	±1.000					
▽=0	±30.00	±1.200					
▽=0	±35.00	±1.400					
▽=0	±40.00	±1.600					
▽=0	±45.00	±1.800					
▽=0	±50.00	±2.000					
▽=0	±55.00	±2.200					
▽=0	±60.00	±2.400					
▽=0	±65.00	±2.600					
▽=0	±70.00	±2.800					
▽=0	±75.00	±3.000					
▽=0	±80.00	±3.200					
▽=0	±85.00	±3.400					
▽=0	±90.00	±3.600					
▽=0	±95.00	±3.800					
▽=0	±100.00	±4.000					

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

MOLEX
SD-100016-1200

SHEET NO. 4 OF 7

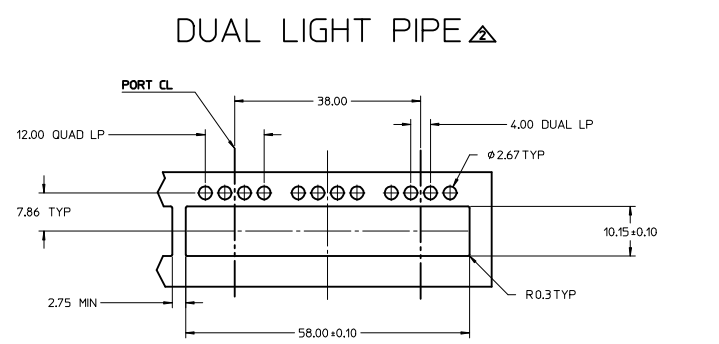
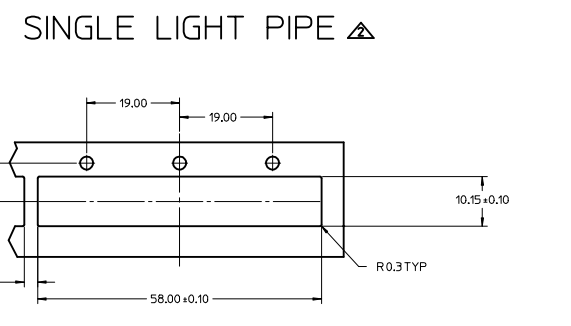
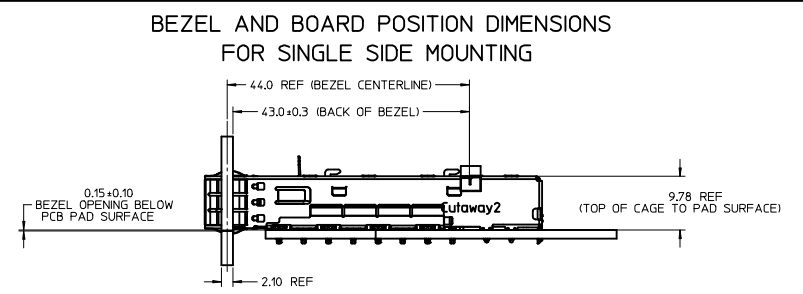
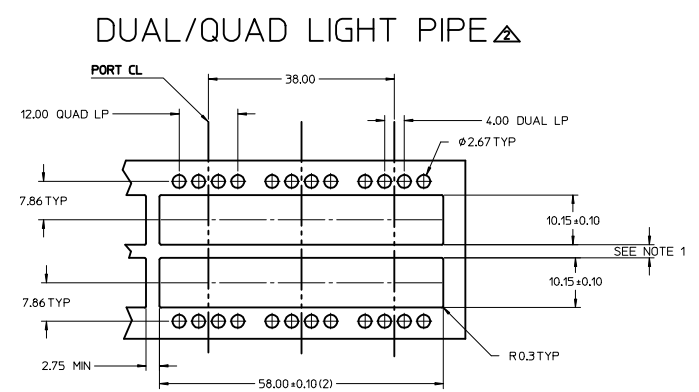
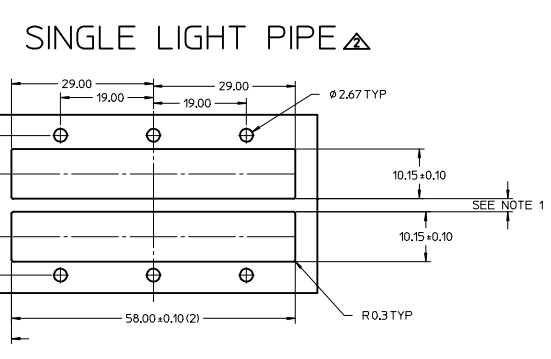
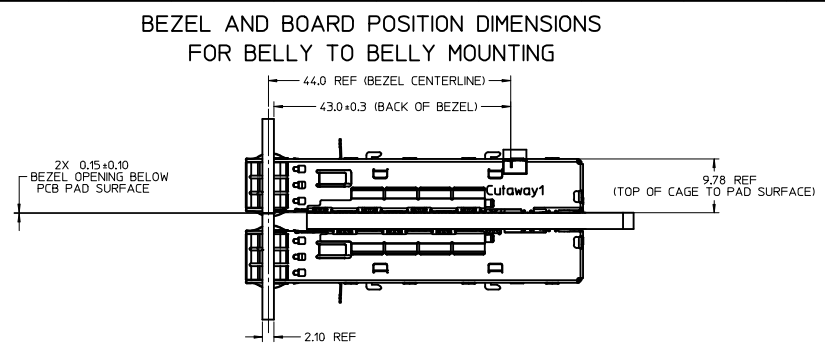
PCB LAYOUT FOR BELLY TO BELLY MOUNTING



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 ACCOMMODATE MOLEX CONNECTOR SERIES 170432.

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	SESSION UNITS	THIRD ANGLE PROJECTION
MM ONLY	mm INCH	MM ONLY	4:1	METRIC	THIRD ANGLE PROJECTION
4 PLACES ± 0.10	± 0.10	DRAWN BY	DATE	TITLE	ZOSEP, 4X3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS
3 PLACES ± 0.05	± 0.05	DRAWN BY	2012/09/06		
2 PLACES ± 0.13	± 0.13	CHECKED BY	DATE		
1 PLACE ± 0.25	± 0.25	APPROVED BY	DATE		
0 PLACE ± 0.50	± 0.50	APPROVED BY	2013/04/08		
ANGULAR ± 2°	± 2°	MATERIAL NO.		DOCUMENT NO.	SD-100016-1200
DRAFT WHERE APPLICABLE	SEE DRAWING	SHEET		SHEET NO.	5 OF 7
MUST REMAIN WITH DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	SESSION UNITS	THIRD ANGLE PROJECTION
	MM ONLY	2.5:1	METRIC		
SEE REVISION TABLE	4 PLACES ± 0.10	DRAWN BY	DATE	TITLE	ZOSEP, IV3 GANGED CAGE ASSY'S (SPRING FINGERS) WITH H/S & L/P OPTIONS
1 PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.	2 PLACES ± 0.25	CHECKED BY	DATE		
NOTE: 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.	1 PLACE ± 0.25	APPROVED BY	DATE		molex
NOTE: 2. BEZEL DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.	0 PLACE ± 0.25	MATERIAL NO.	2013/04/08		
	ANGULAR ± 2°	KLLOID	2013/04/08	DOCUMENT NO.	SD-100016-1200
	DRAFT WHERE APPLICABLE	SEE DRAWING		SHEET NO.	6 OF 7
	MUST BEHOLD WITH DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

REV	DATE	DESCRIPTION
A	03/29/2013	RELEASE
B	03/17/2013	SHEET 2: E-3 CHANGED 2 REAR LEGS TO 1 REAR LEG SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED AREA FOR WHERE SURFACE TRACES ARE PERMITTED. REMOVED "HOLE PATTERN REPEATS FOR EACH PORT" FROM NOTE 4.
C	06/27/2014	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.
D	10/06/2014	SHEET 2: CHANGED HEATSINK HEIGHT DIMENSIONS TO REF J13: 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 SHEET 6: EDIT NOTE 1, REMOVED "SIZE" REMOVED NOTE 1 FROM ALL "10.15" DIMENSIONS
E	04/14/2015	SHEET 4: REVISED DIM "MAS" 12.77 "NOM" 12.79 #G9 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 #D4, #E4, #E6, #F3, #F6, AND #H4 SHEET 5: REVISED DIM "MAS" 12.77 "NOM" 12.79 #B7 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REMOVED SEE NOTE 4 AND ADDED DIMS #K10, #K12 AND #K14 SHEET 6: REVISED PORT CL "MAS" (#4) "NOM" PORT CL #E7 AND #E16

SEE REVISION TABLE EC NO. 05005-54-09 DATE 03/29/2013 APPROVAL DATE 03/29/2013 APPROVAL SIGNATURE	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	<input checked="" type="checkbox"/> 0 <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input checked="" type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12 <input checked="" type="checkbox"/> 13 <input checked="" type="checkbox"/> 14 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 16 <input checked="" type="checkbox"/> 17 <input checked="" type="checkbox"/> 18 <input checked="" type="checkbox"/> 19 <input checked="" type="checkbox"/> 20	UNLESS SPECIFIED mm INCH ±.005 ±.010 ±.015 ±.025 ±.050 ±.100 ANGULAR ±.2° DRAFT WHERE APPLICABLE WITH DIMENSIONS	MM ONLY DRAWN BY BRED 2012/09/06 CHECKED BY SRY 2012/09/06 TITLE PRICE 2012/09/06 APPROVED BY DATE 2013/04/08 KLOYD	METRIC THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION	TITLE ZQSF-1Y3 GANGED CAGE ASSY (SPRING FINGER) WITH H/S & L/P OPTIONS molex DRAWING SD-100016-1200
	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
			7 OF 7			

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