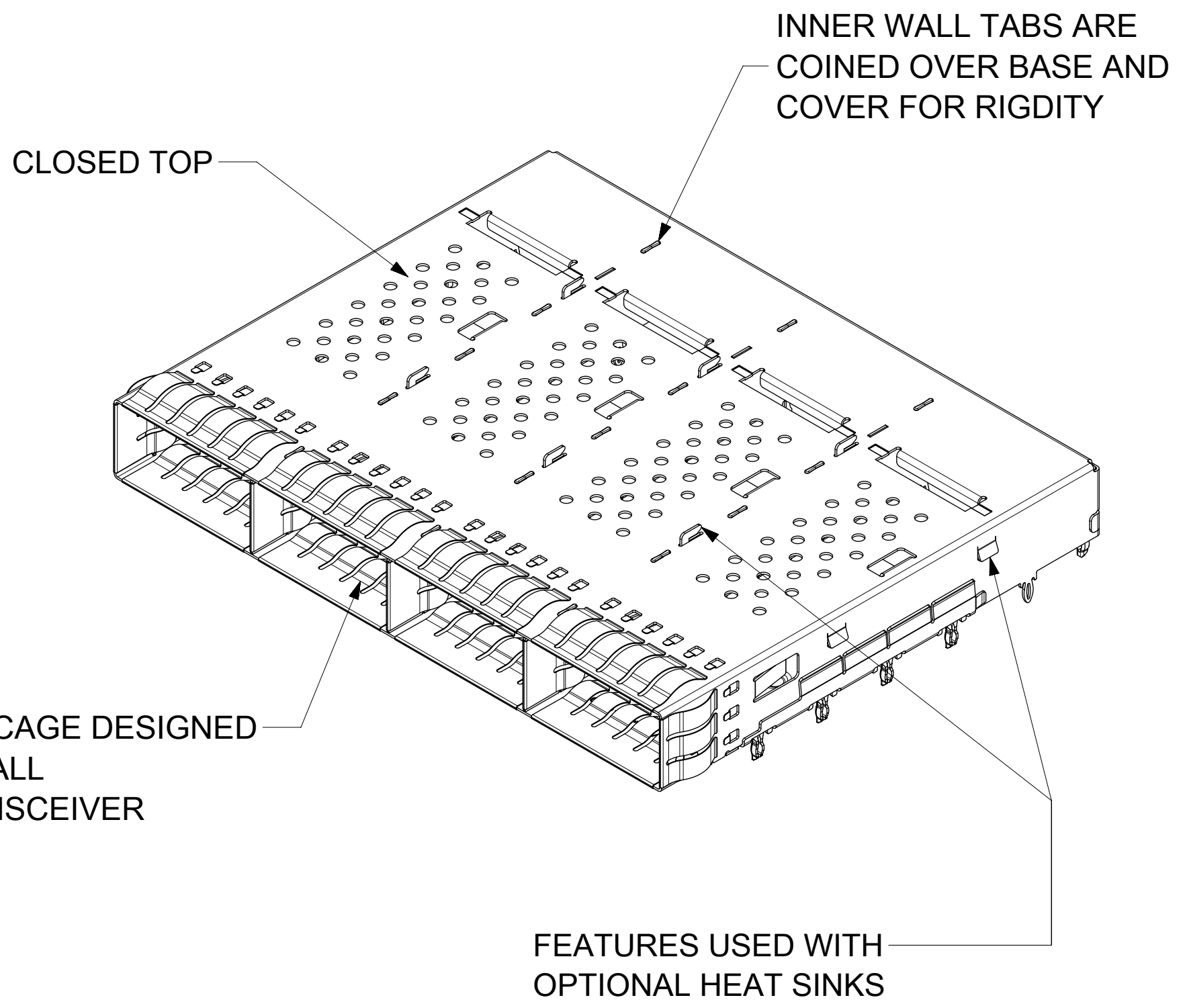
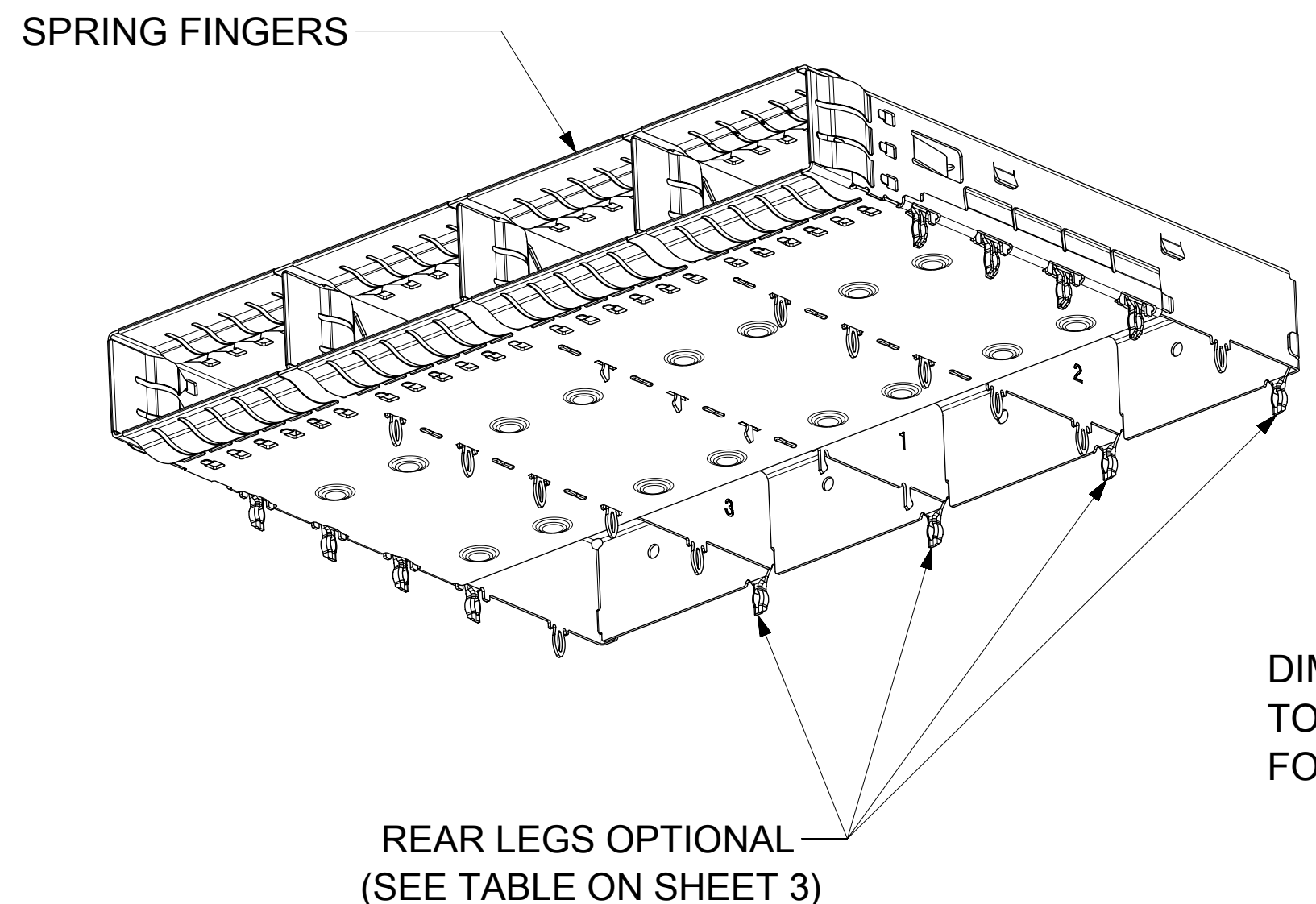
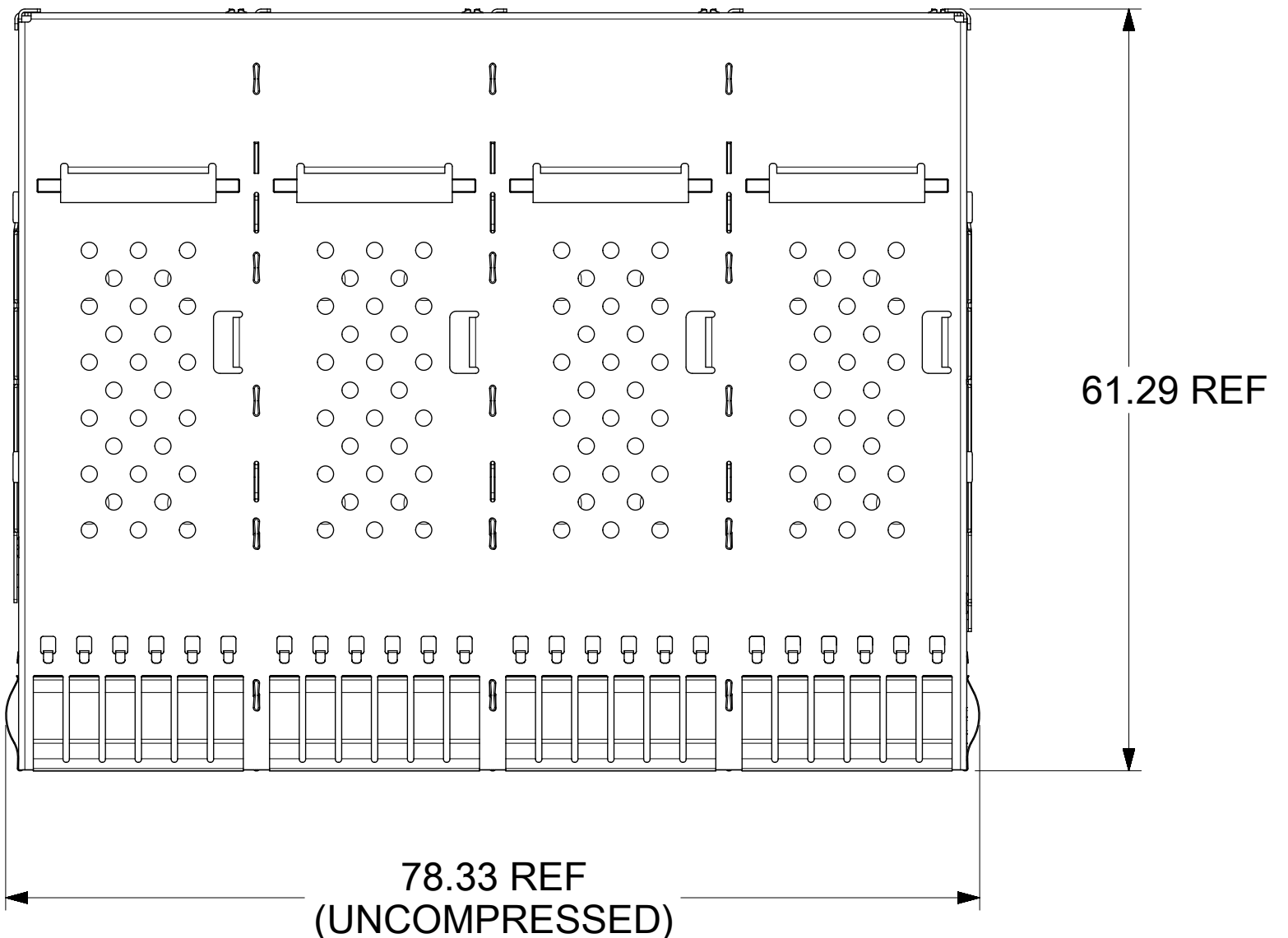
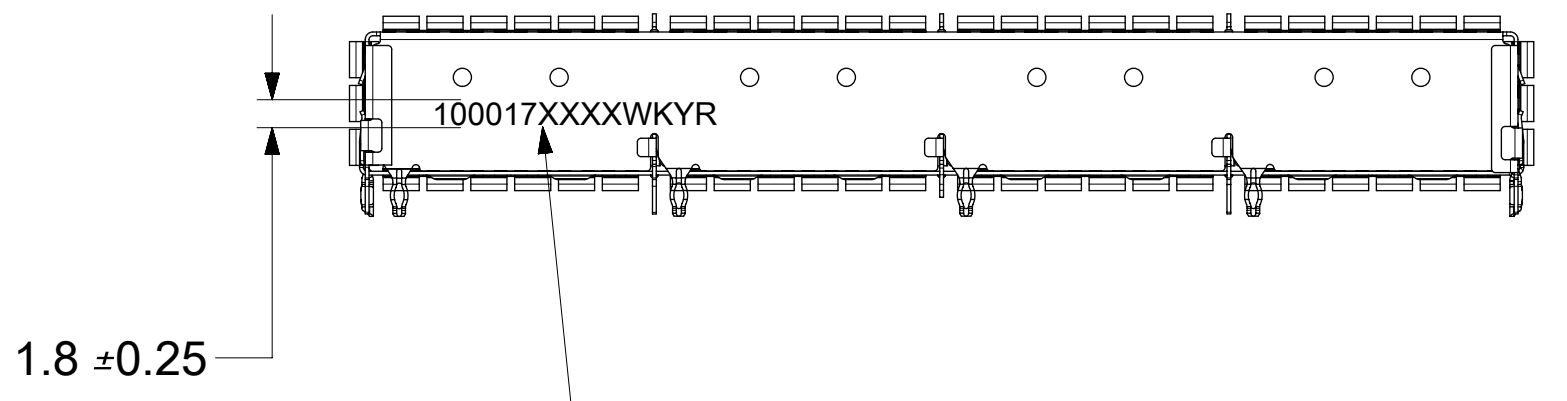
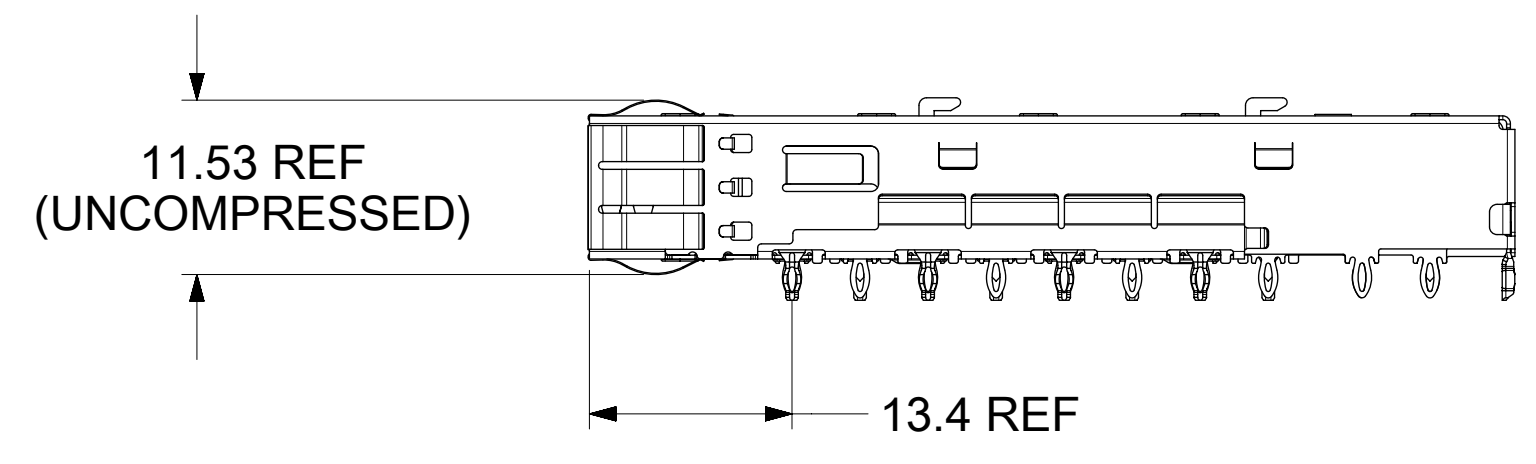
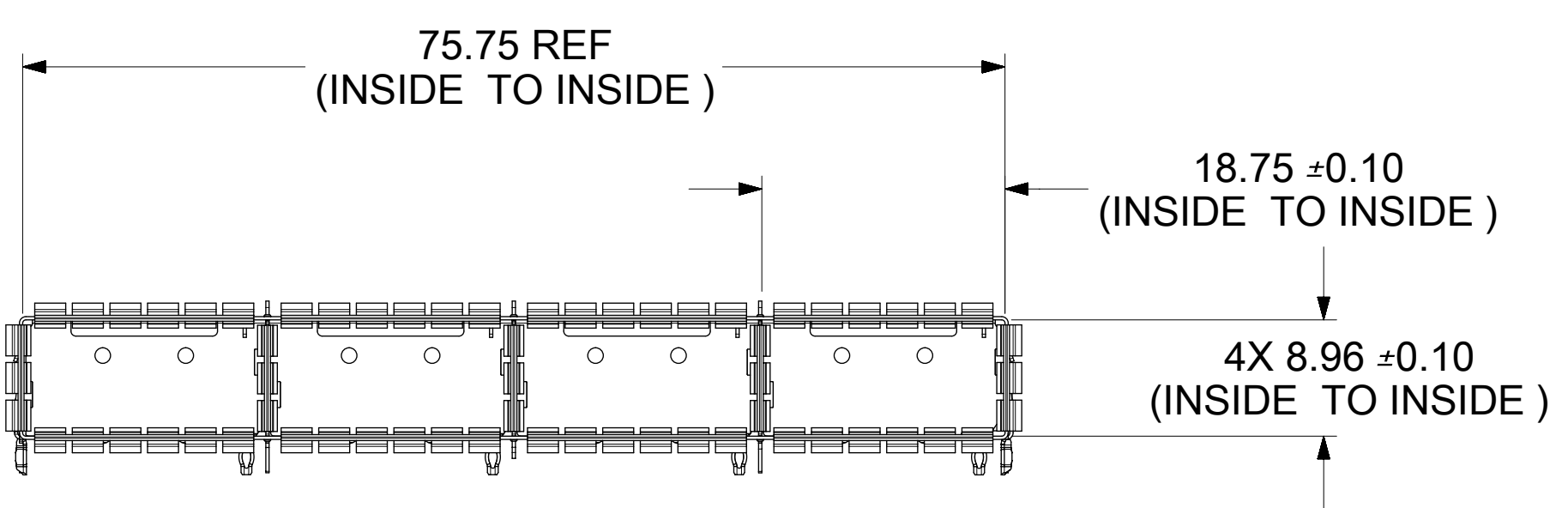


BASE CAGE DETAILS

1000171242
SHOWN



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



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

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

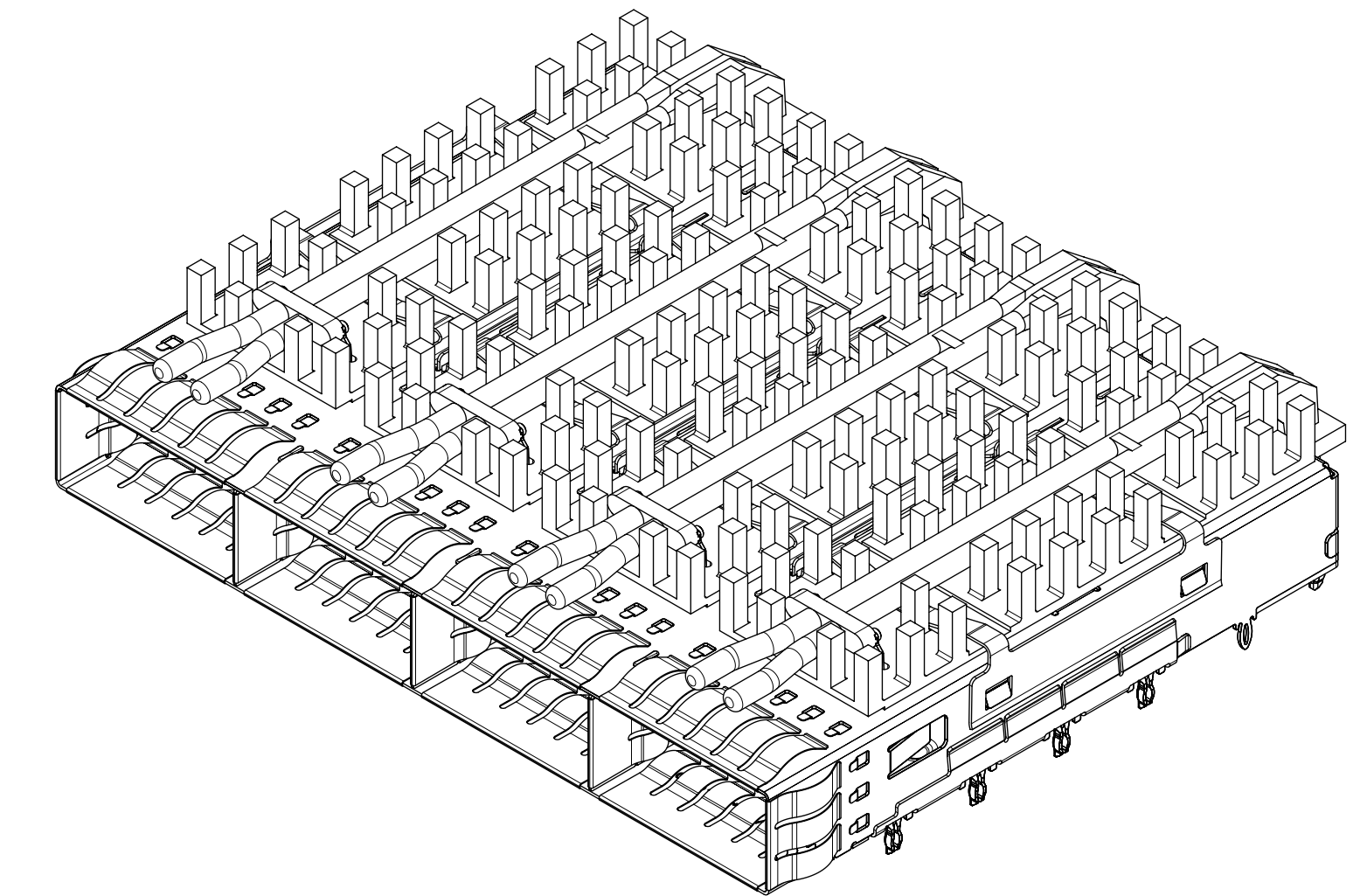
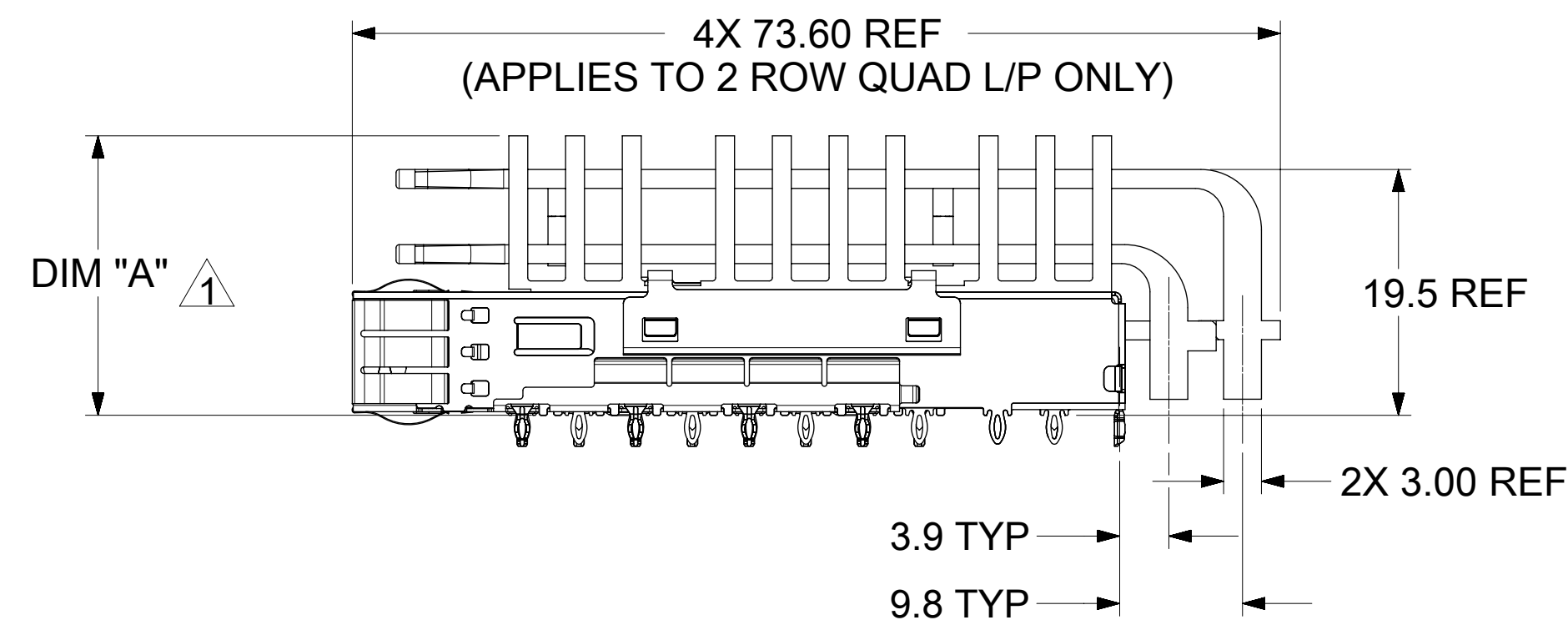
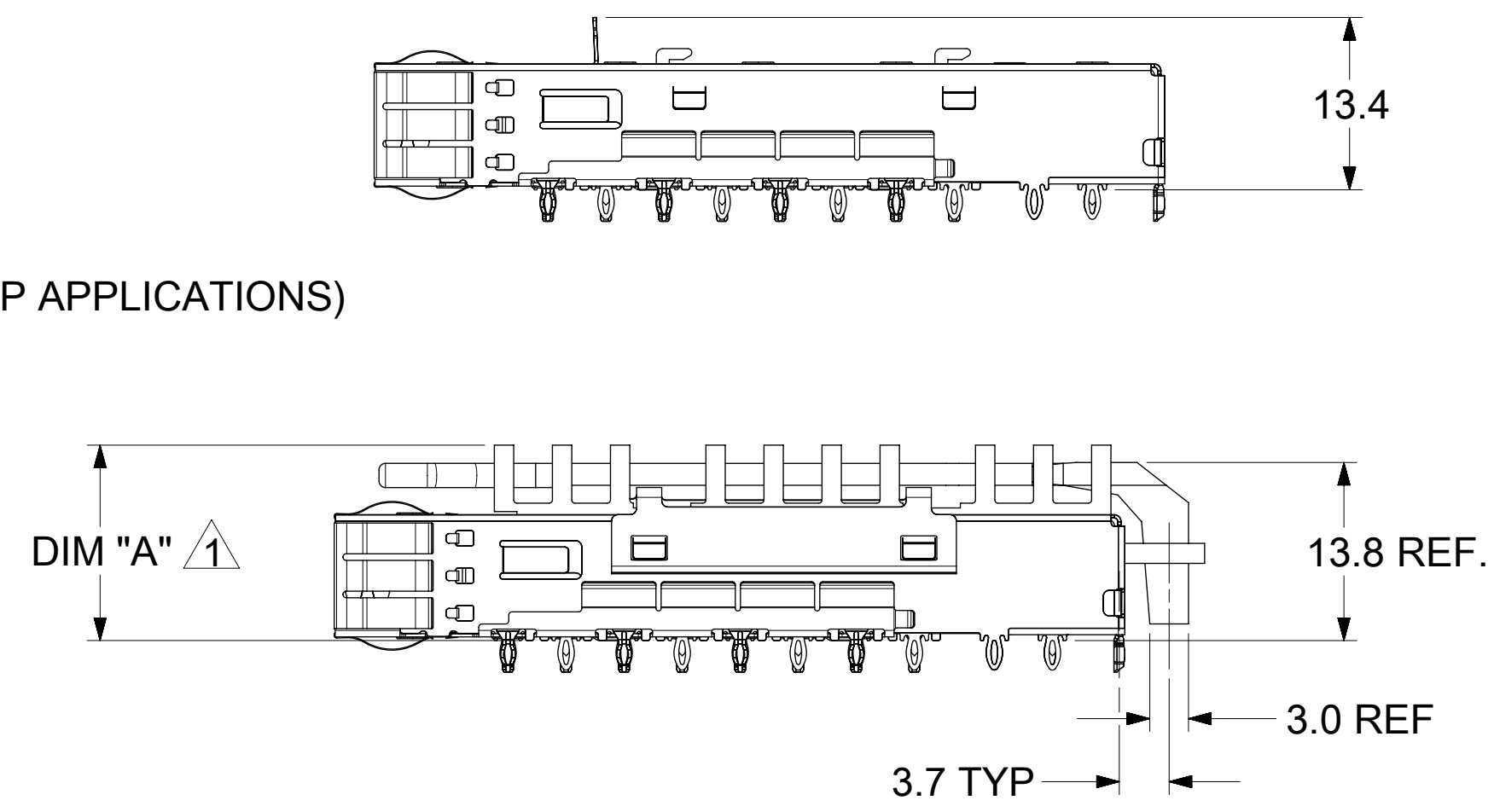
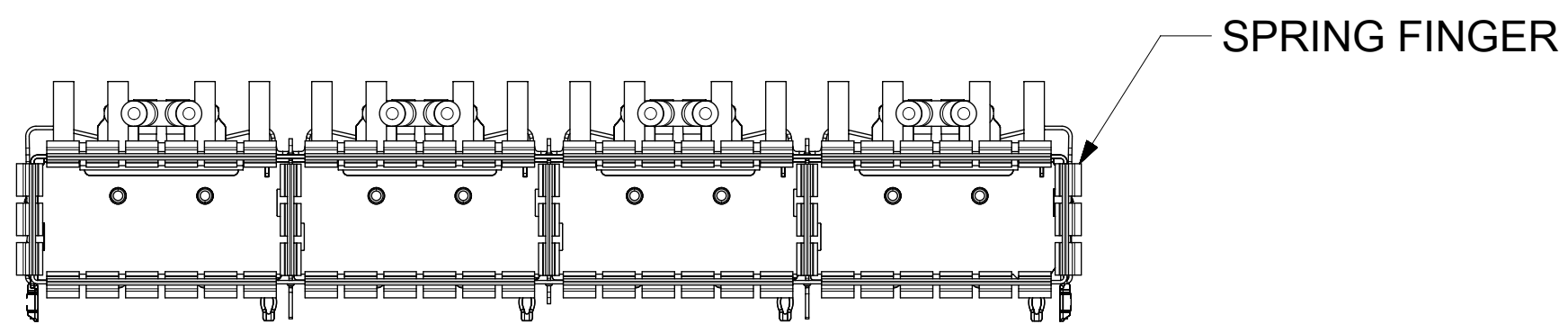
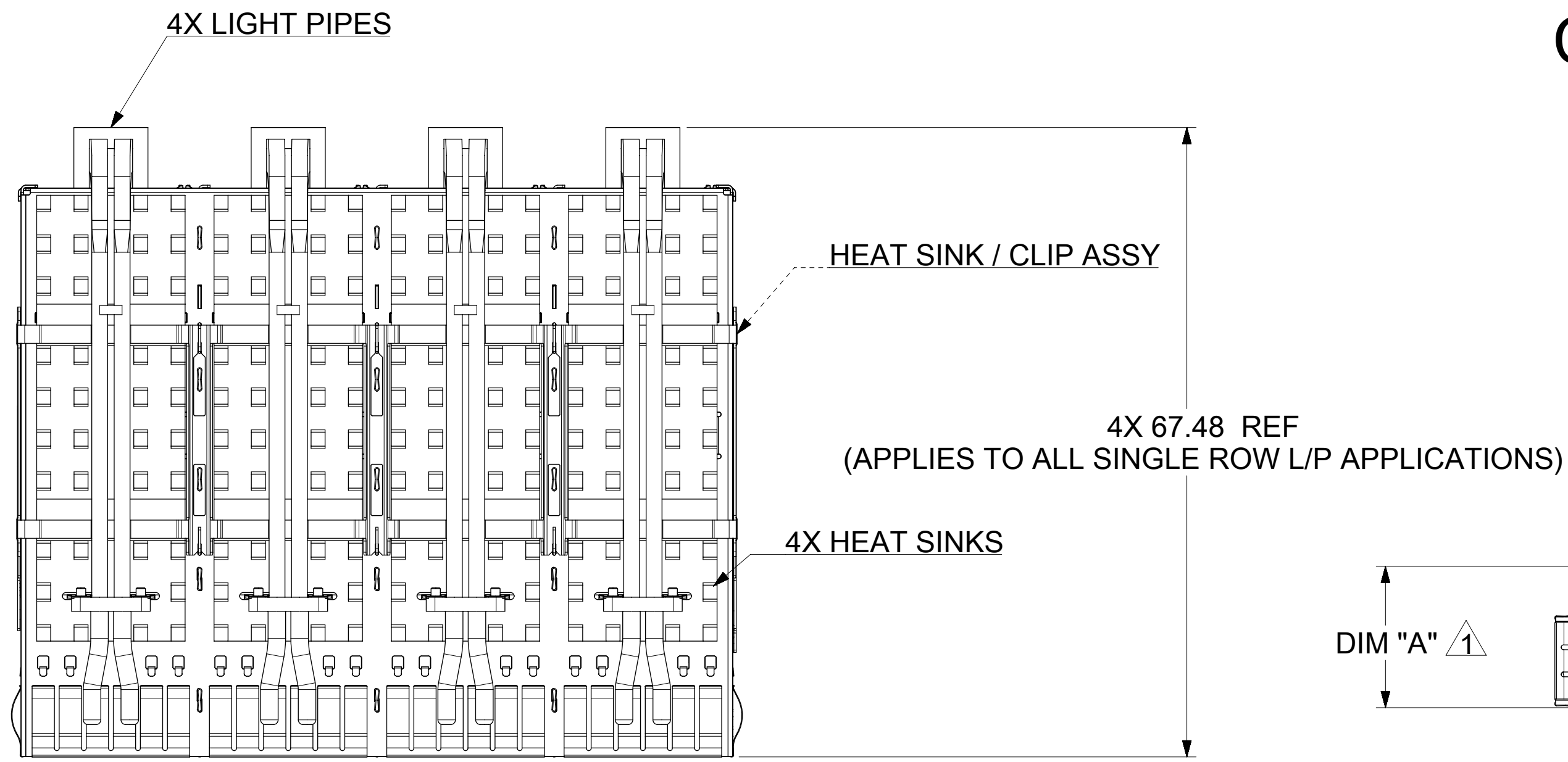
WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	18, 19, 20 ETC.. (EXAMPLE: YEAR 2018= 18)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION HISTORY						
∇ = 0	mm	2:1	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						
∇ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)								
∇ = 0	ANGULAR TOL \pm 1.0°								
∇ = 0	4 PLACES	\pm							
∇ = 0	3 PLACES	\pm							
∇ = 0	2 PLACES	\pm 0.13	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: 1000171200 DOC TYPE: PSD DOC PART: SD REVISION: K						
∇ = 0	1 PLACE	\pm 0.25							
∇ = 0	0 PLACES	\pm							
∇ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
∇ = 0				D-SIZE	100017	SEE P/N TABLE	GENERAL MARKET	1 OF 9	

CAGE ASSEMBLY OPTIONS

1000171544

SHOWN



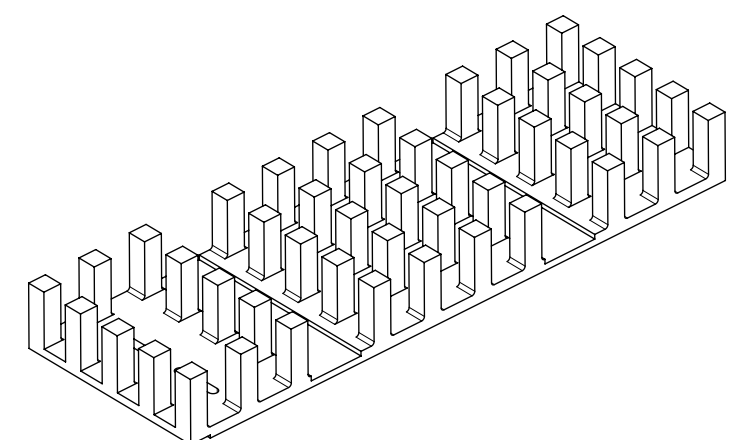
HEATSINK HEIGHT OPTIONS

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

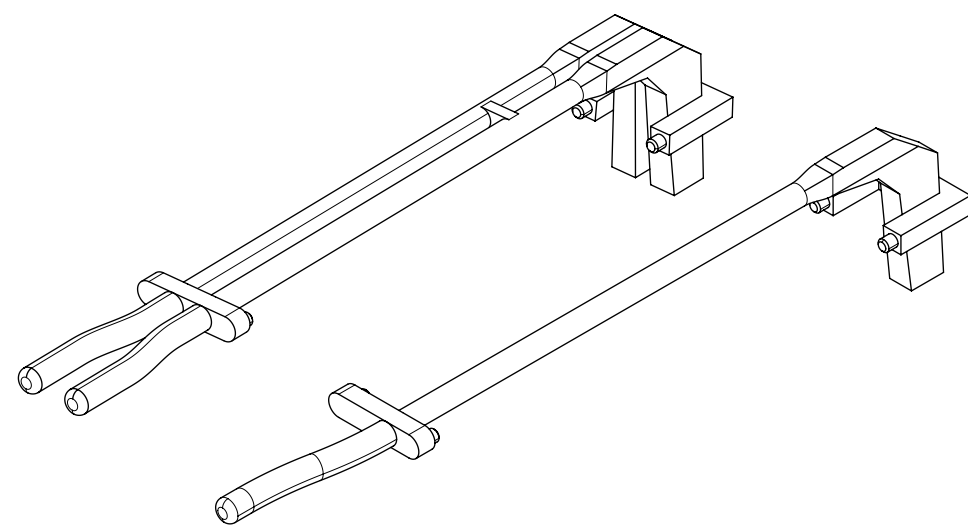
\triangle HEIGHT OF HEAT SINK WITH MODULE INSERTED.
DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS

HEATSINK AND LIGHT PIPE COMBINATIONS

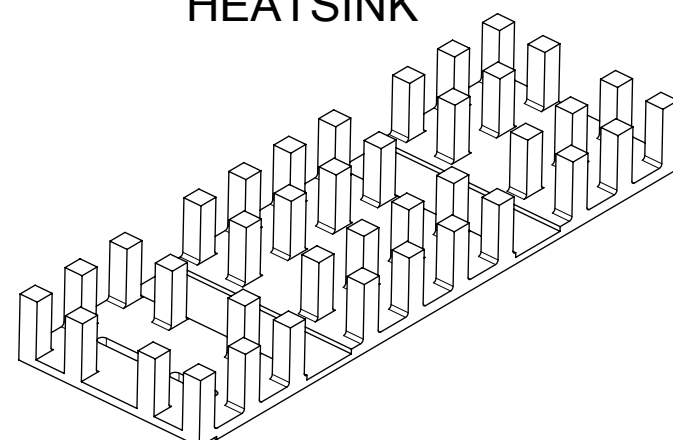
HEATSINK
USED
WITHOUT
LIGHTPIPE



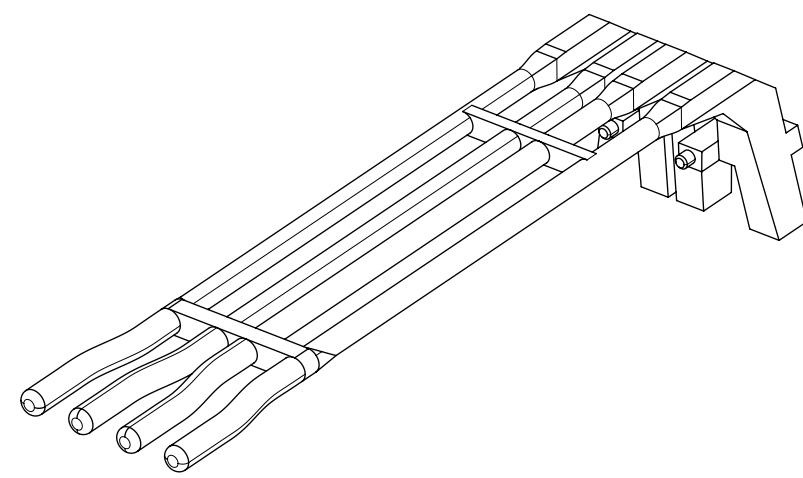
SINGLE / DUAL LIGHT PIPE



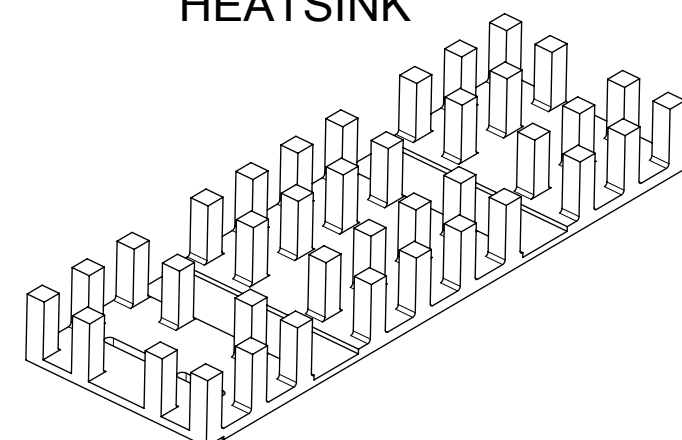
HEATSINK



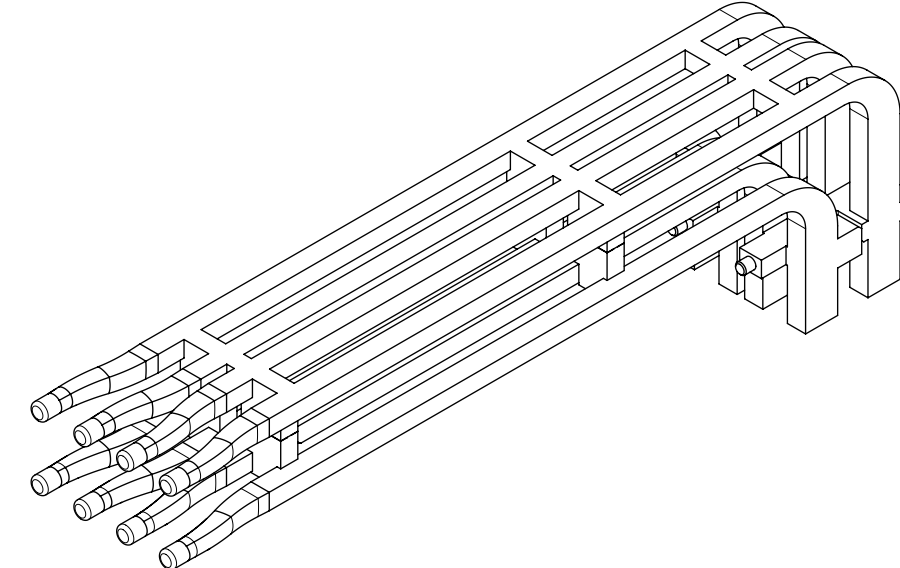
QUAD LIGHT PIPE



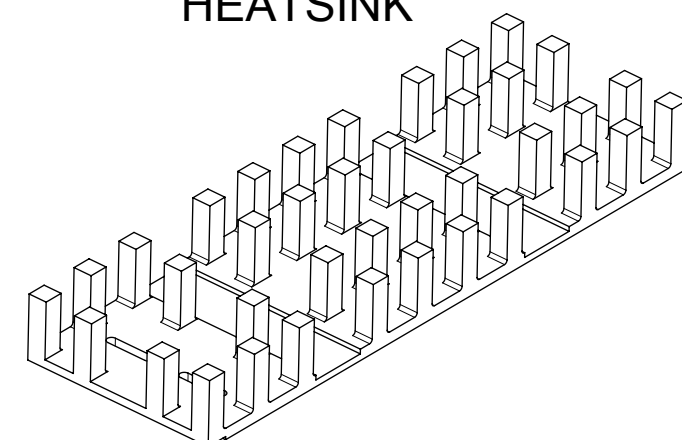
HEATSINK



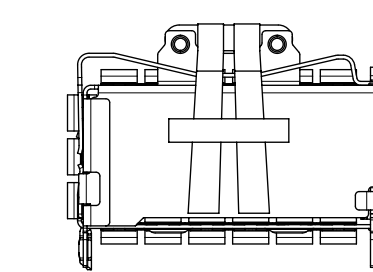
2 ROW QUAD LIGHT PIPE



HEATSINK

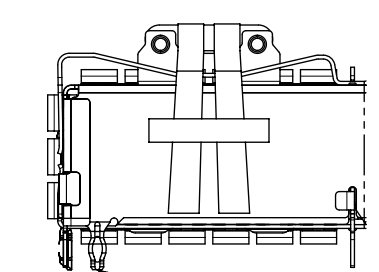


REAR LEG OPTIONS



0 REAR LEGS

Partial1
Scale 2.5:1



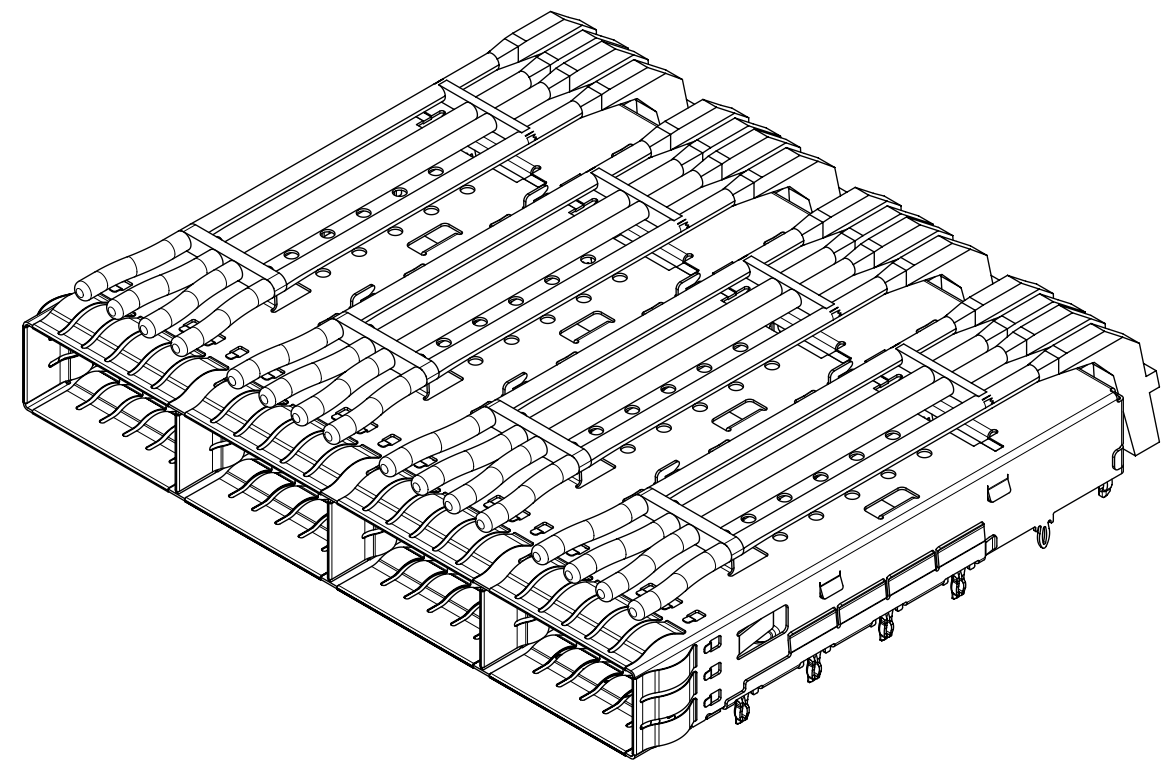
1 REAR LEGS

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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$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		
$\nabla = 0$	ANGULAR TOL $\pm 1.0^\circ$		
$\nabla = 0$	4 PLACES	\pm	
$\nabla = 0$	3 PLACES	\pm	
$\nabla = 0$	2 PLACES	± 0.13	
$\nabla = 0$	1 PLACE	± 0.25	
$\nabla = 0$	0 PLACES	\pm	
$\square = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
$\nabla = 0$	THIRD ANGLE PROJECTION		
CURRENT REV DESC: SEE REVISION HISTORY		EC NO: 601541	
		DRWN: MKMEPEGOWDA 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	
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000171200		PSD	SD
REVISION		K	
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
SEE P/N TABLE		GENERAL MARKET	2 OF 9

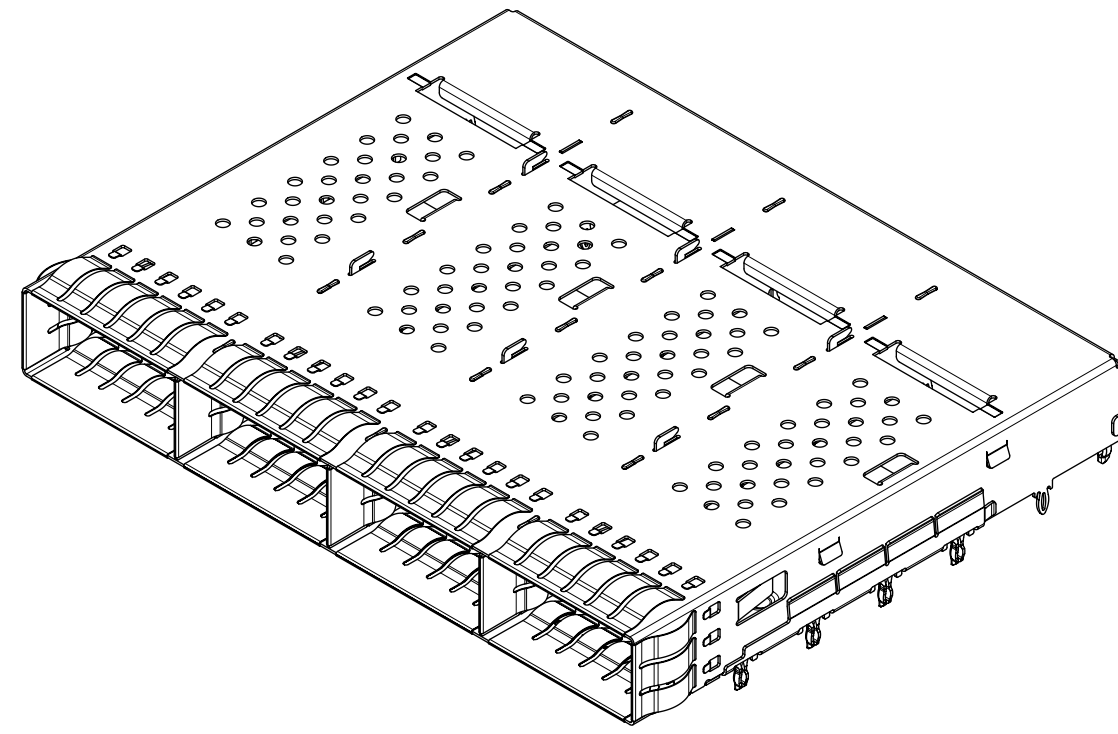
PART NUMBER SELECTION

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

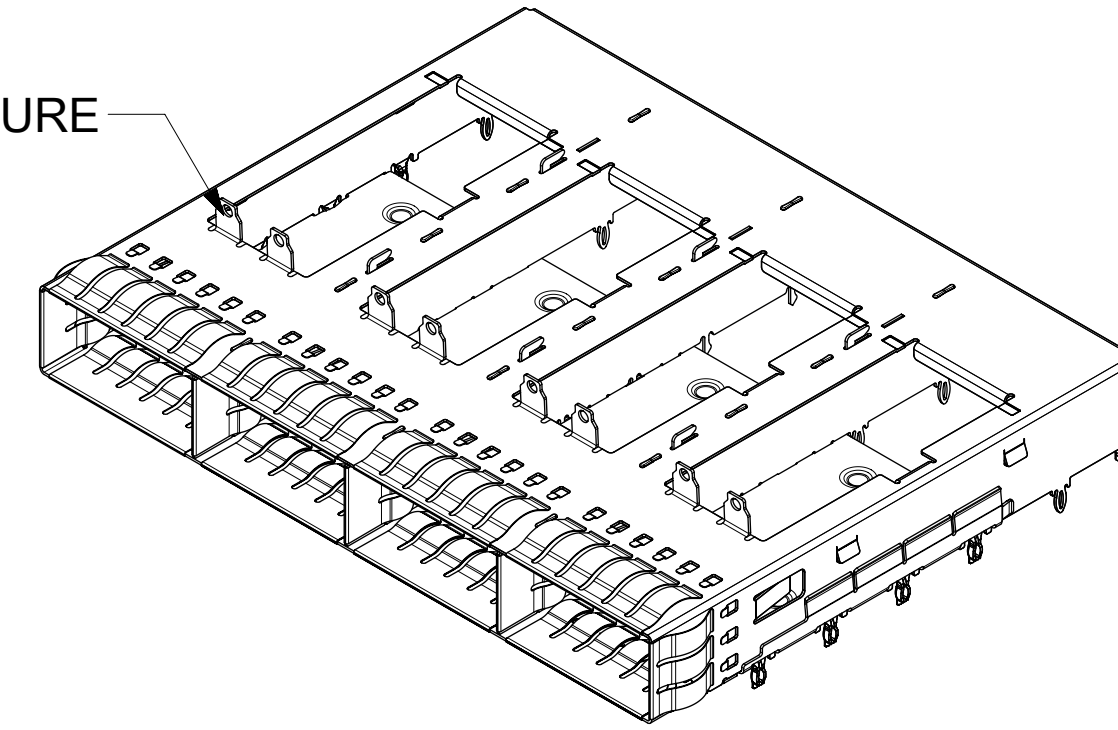
NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



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

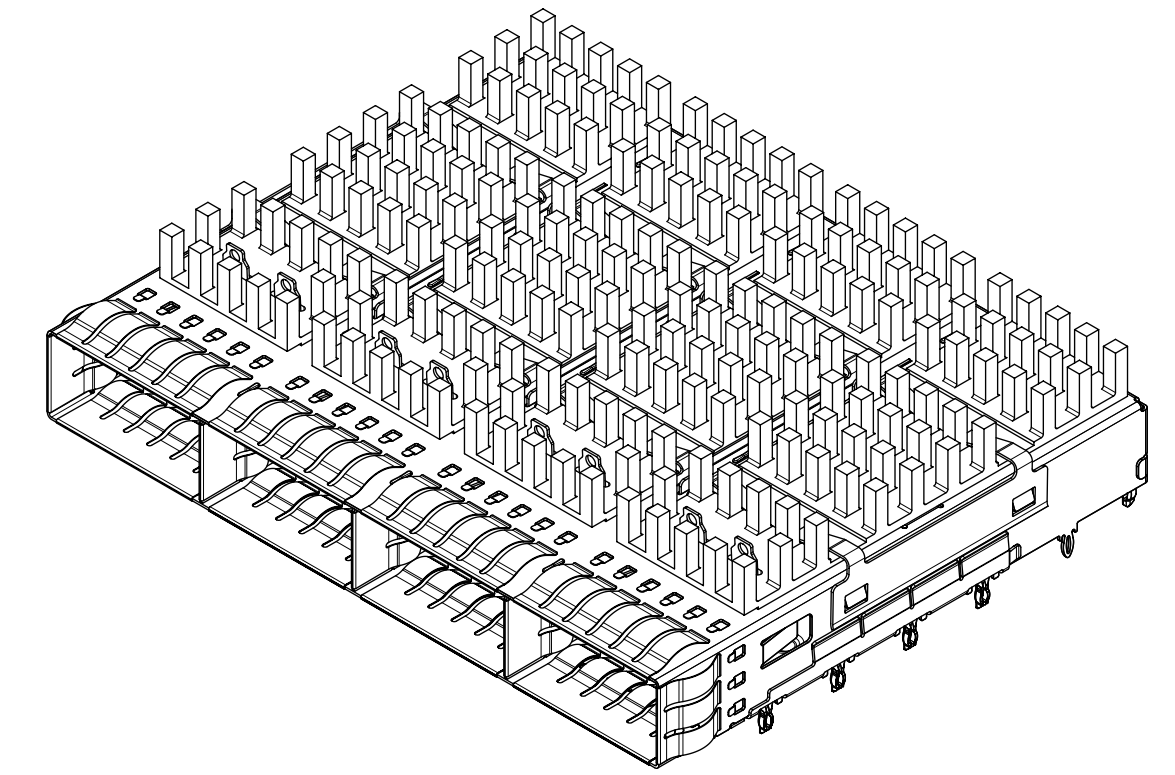
NO HEATSINKS
NO LIGHT PIPES
OPEN TOP

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

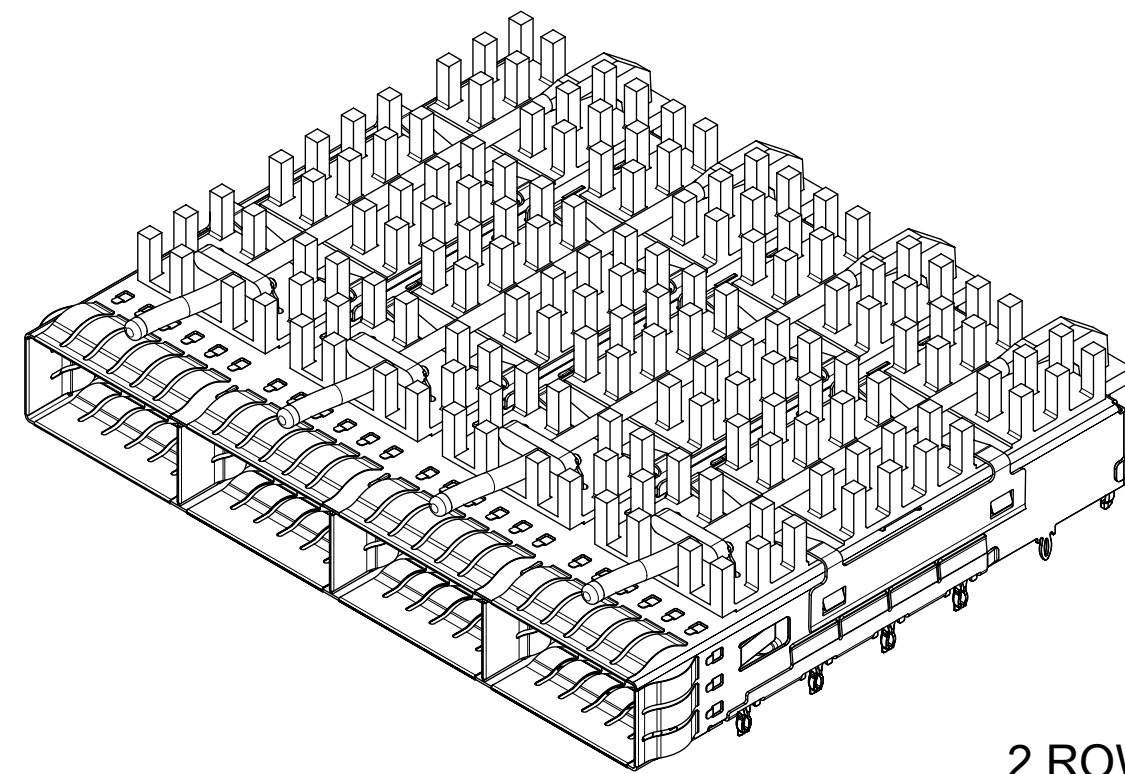


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000171340	PCI	0
1000171341	SAN	0
1000171342	NET	0
1000171343	PCI	1
1000171344	SAN	1
1000171345	NET	1

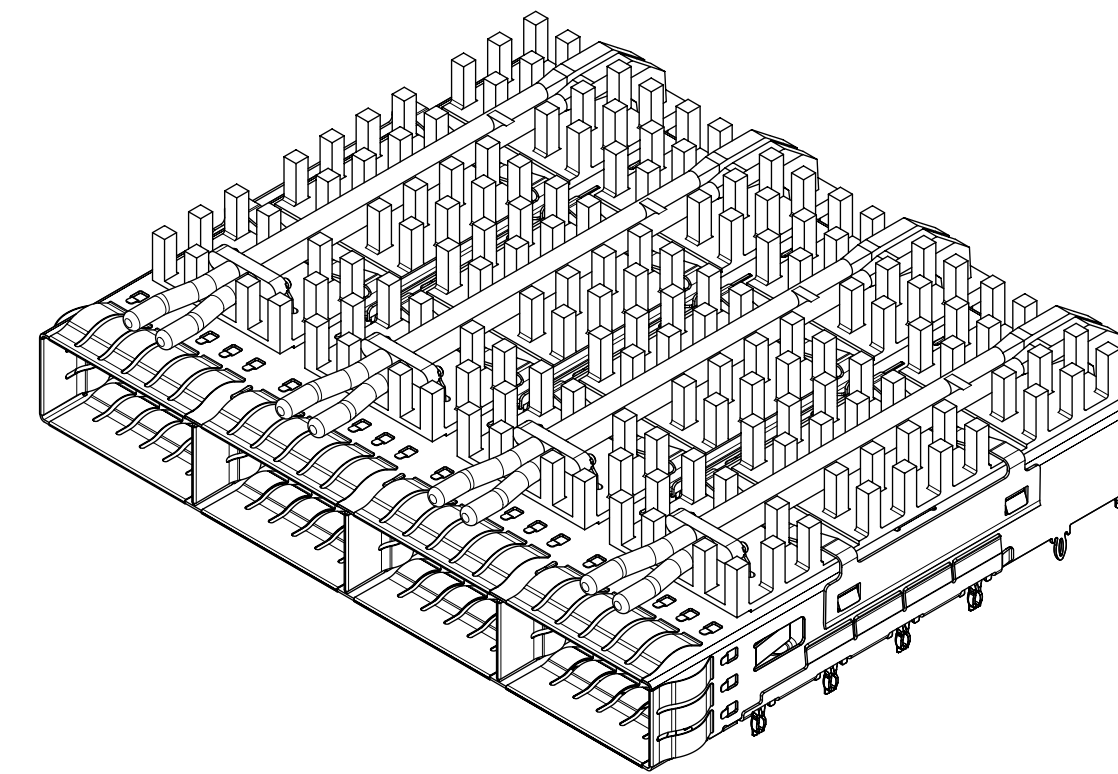
WITH HEATSINKS AND LIGHT PIPES

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

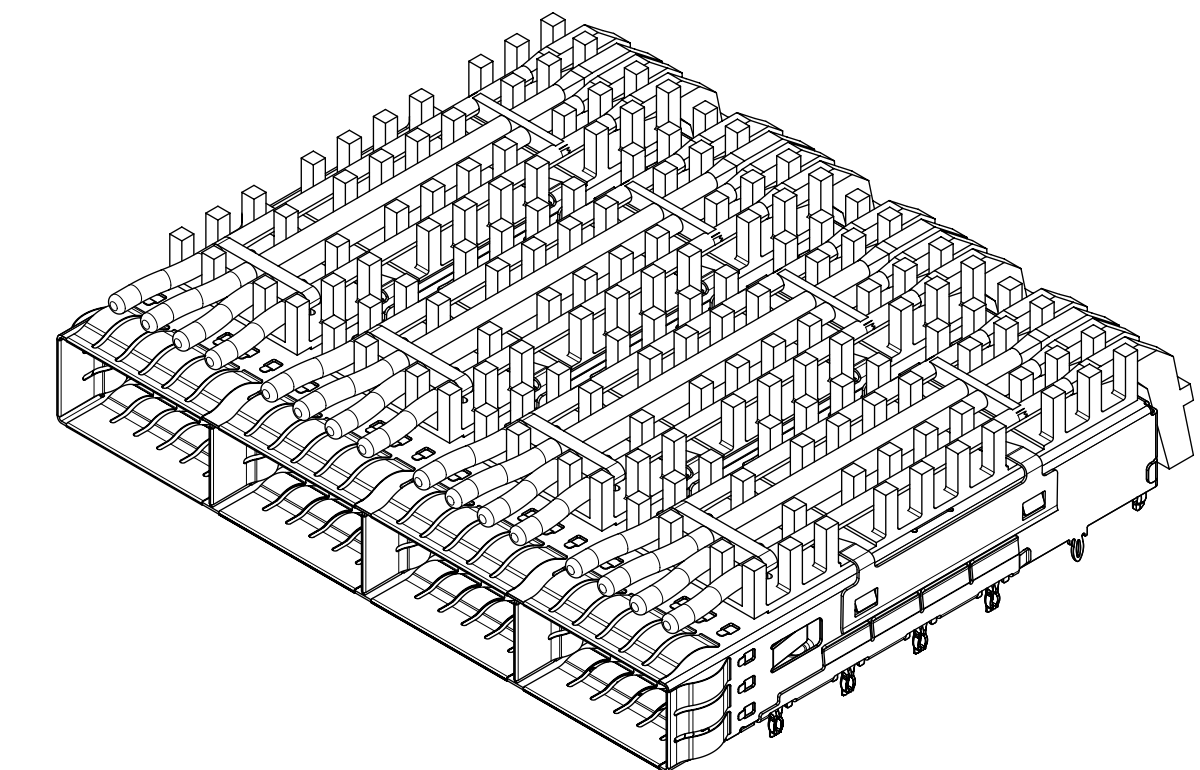
SINGLE LIGHT PIPE



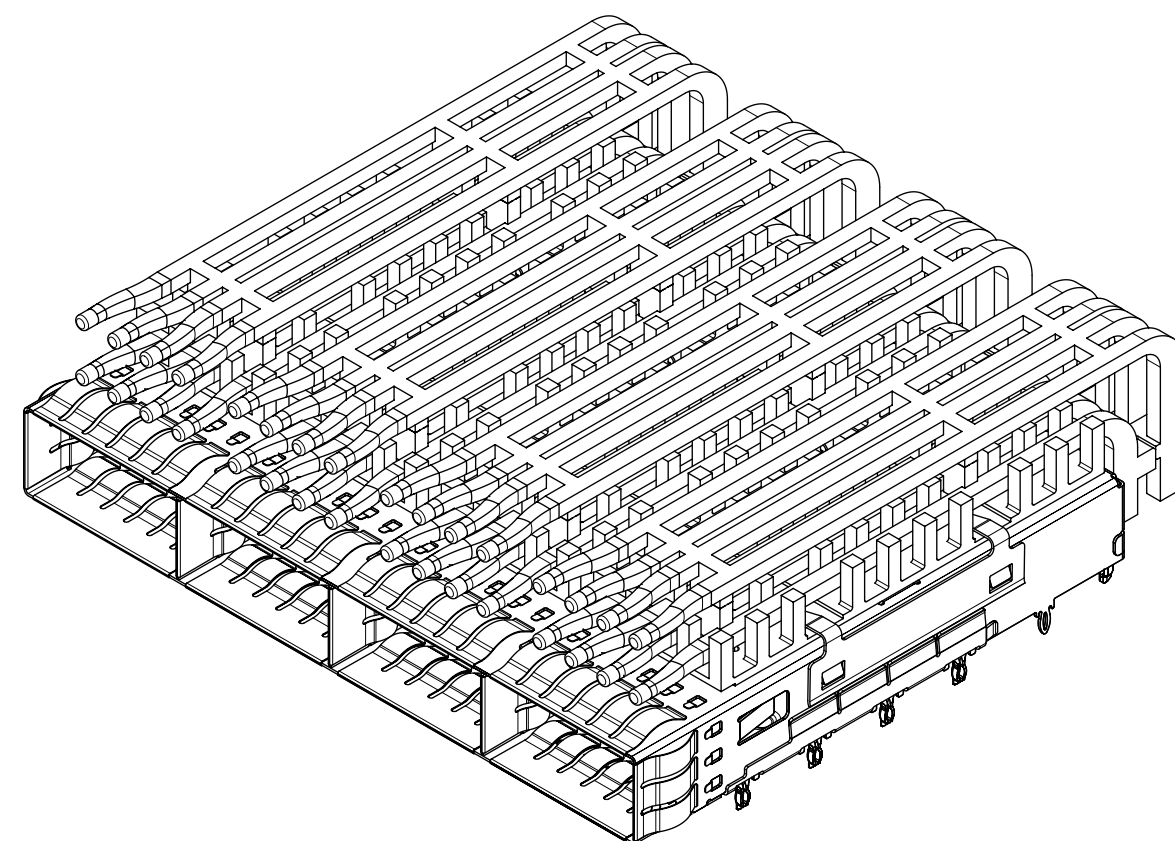
DUAL LIGHT PIPE



QUAD LIGHT PIPE

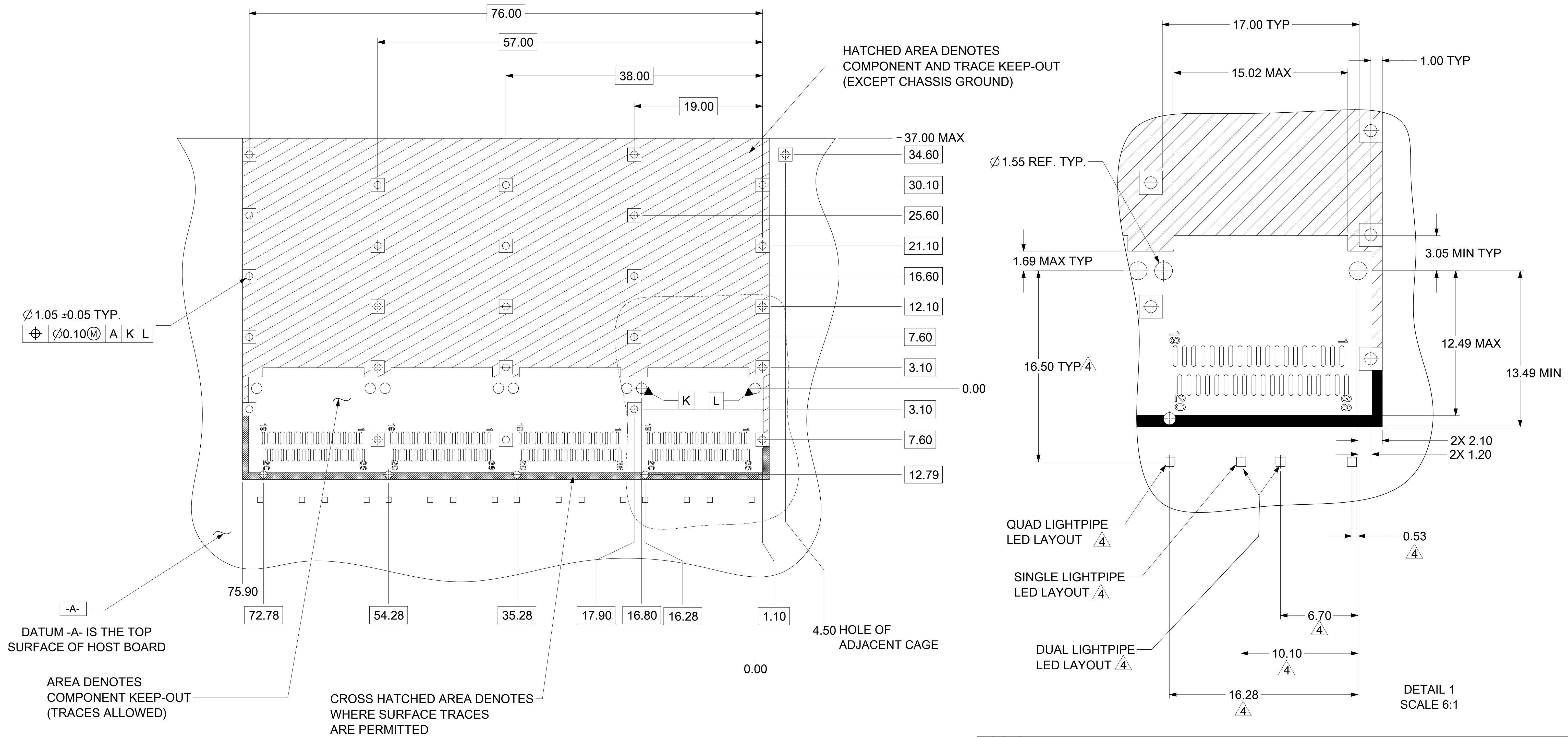


2 ROW QUAD LIGHT PIPE



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

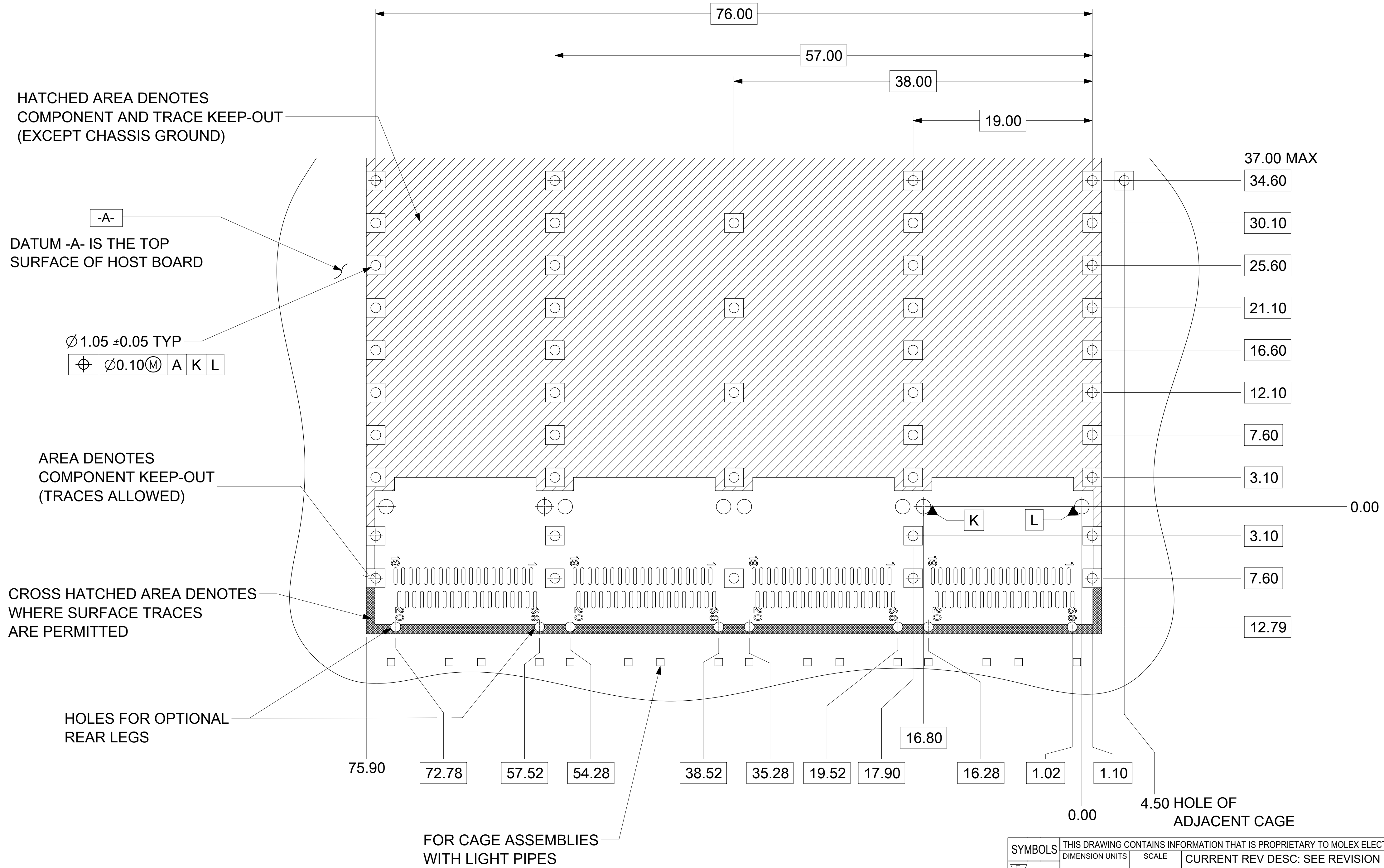
PCB LAYOUT FOR SINGLE SIDED MOUNTING



- 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		
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION HISTORY
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▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL ± 1.0°		
▽ = 0	4 PLACES	±	
▽ = 0	3 PLACES	±	
▽ = 0	2 PLACES	± 0.13	
▽ = 0	1 PLACE	± 0.25	
▽ = 0	0 PLACES	±	
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
		D-SIZE	100017
EC NO: 601541		2017/06/07	
DRWN: MKEMPEGOWDA		2018/07/17	
CHK'D: TKUMARKC		2018/07/18	
APPR: RCHEN08		2018/07/18	
INITIAL REVISION:			
DRWN: KNAGANNA		2015/06/03	
APPR: RCHEN08		2016/01/11	
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000171200		PSD	SD K
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
SEE P/N TABLE		GENERAL MARKET	4 OF 9

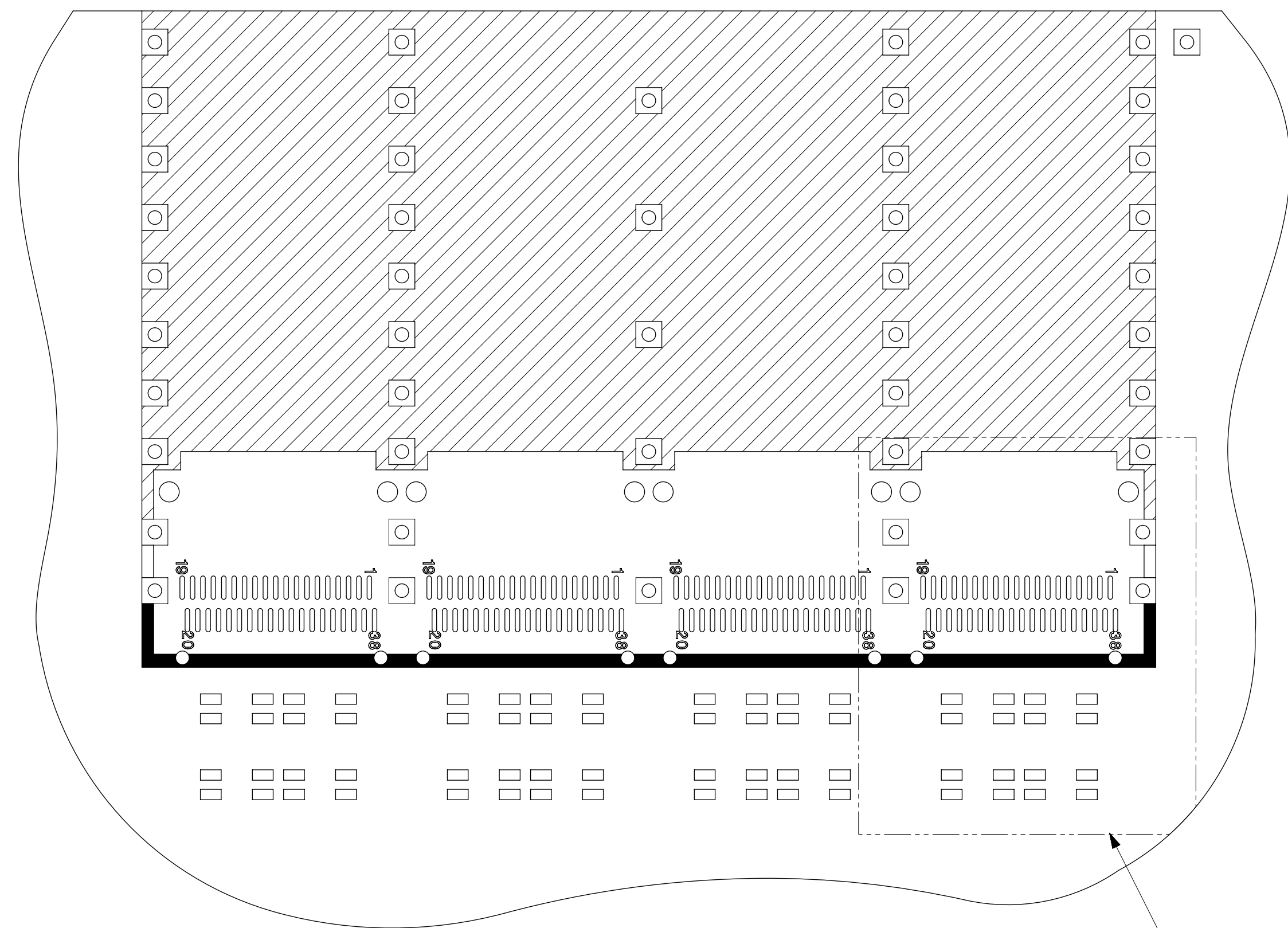
PCB LAYOUT FOR BELLY TO BELLY MOUNTING



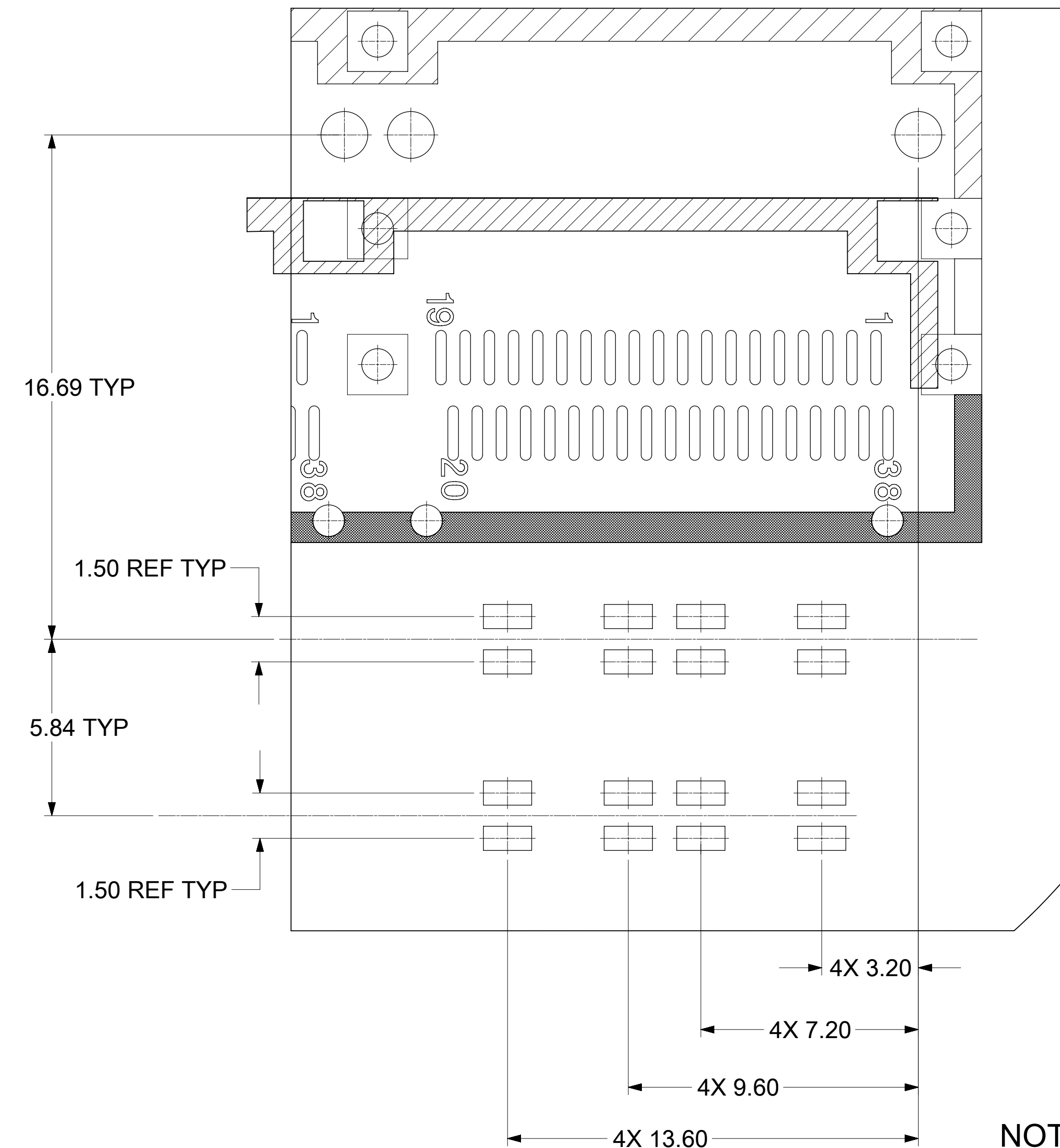
- NOTES:
- PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.00mm SQUARE.)
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 - CONNECTOR PAD LAYOUT PER SFF-8663 WILL ACCOMMODATE MOLEX CONNECTOR SERIES 170432.

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
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▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 601541
▽ = 0	ANGULAR TOL ± 1.0°		DRWN: MKMEPEGOWDA 2017/06/07
▽ = 0	4 PLACES ±		CHK'D: TKUMARKC 2018/07/17
▽ = 0	3 PLACES ±		APPR: RCHEN08 2018/07/18
▽ = 0	2 PLACES ± 0.13		INITIAL REVISION:
▽ = 0	1 PLACE ± 0.25		DRWN: KNAGANNA 2015/06/03
▽ = 0	0 PLACES ±		APPR: RCHEN08 2016/01/11
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
▽ = 0			DRAWING SERIES
		D-SIZE	100017
DOCUMENT STATUS		RELEASE DATE	2018/07/18 01:27:46
P1			
19		18	17
16		15	14
13		12	11
10		9	8
7		6	5
4		3	2
1			
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000171200		PSD	SD
REVISION			
K			
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
SEE P/N TABLE		GENERAL MARKET	5 OF 9

LED PLACEMENT FOR 2 ROW QUAD LIGHT PIPE



SEE Detail 1

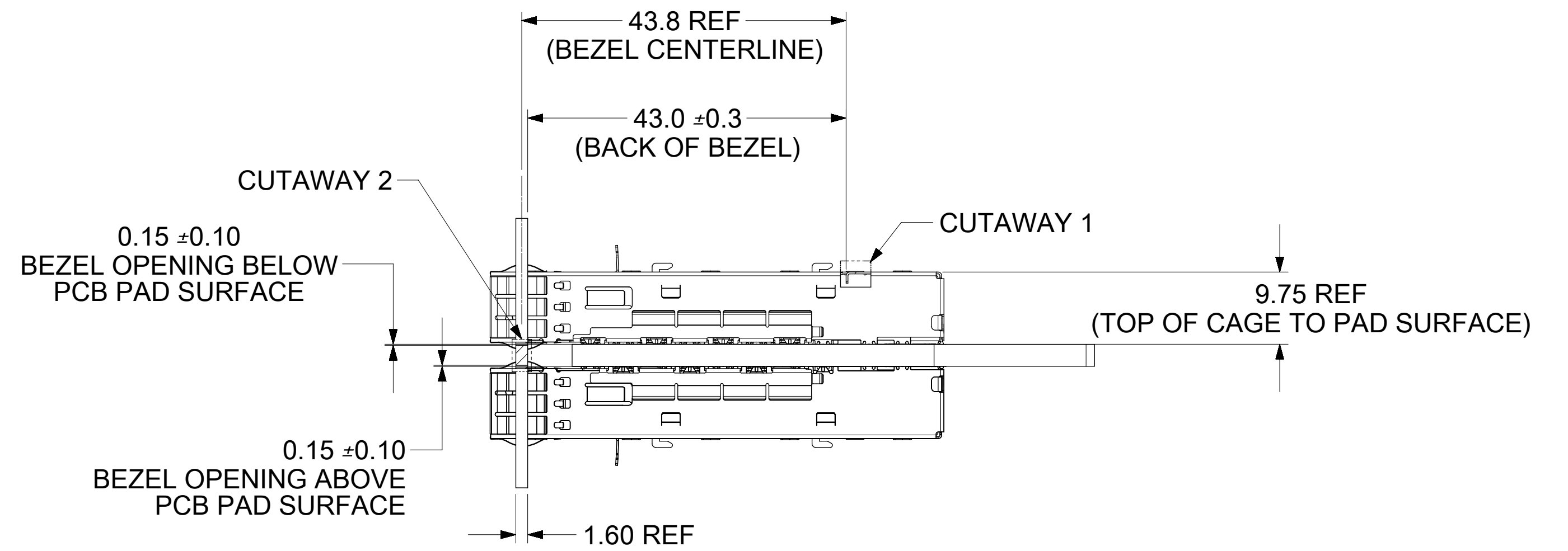
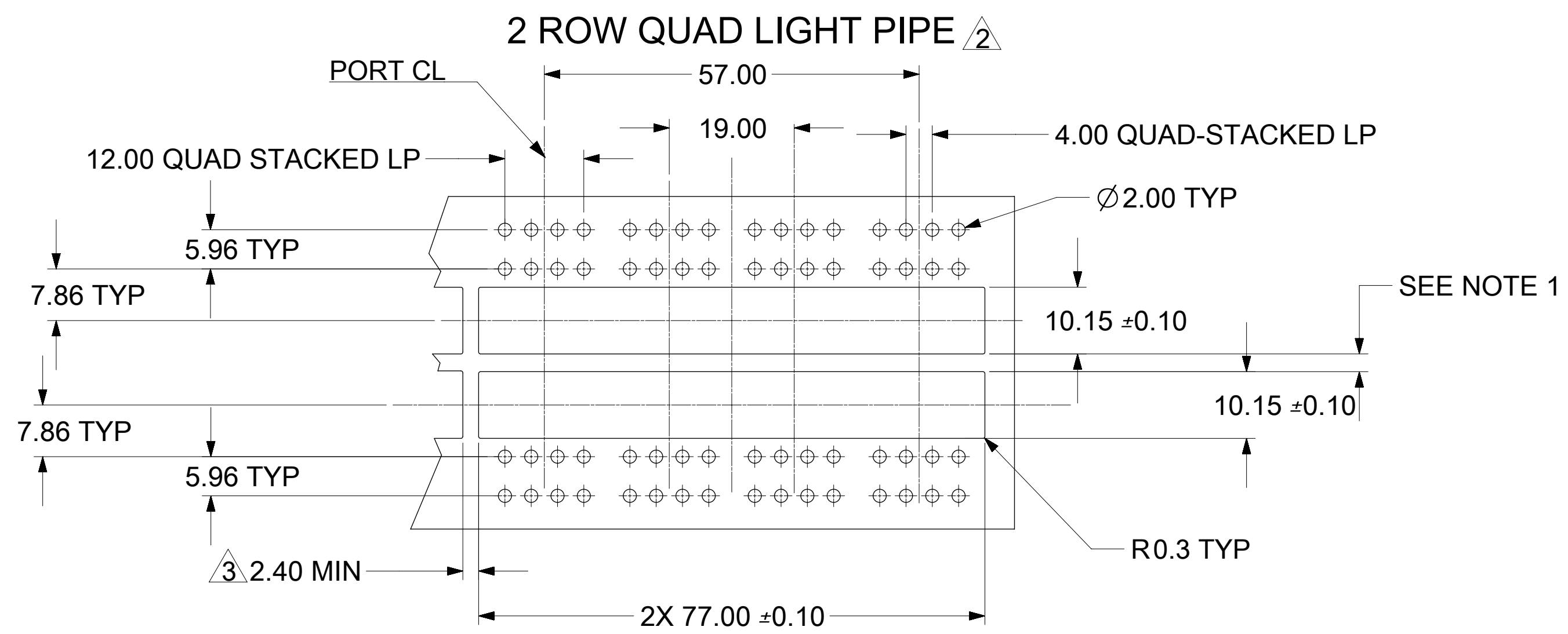
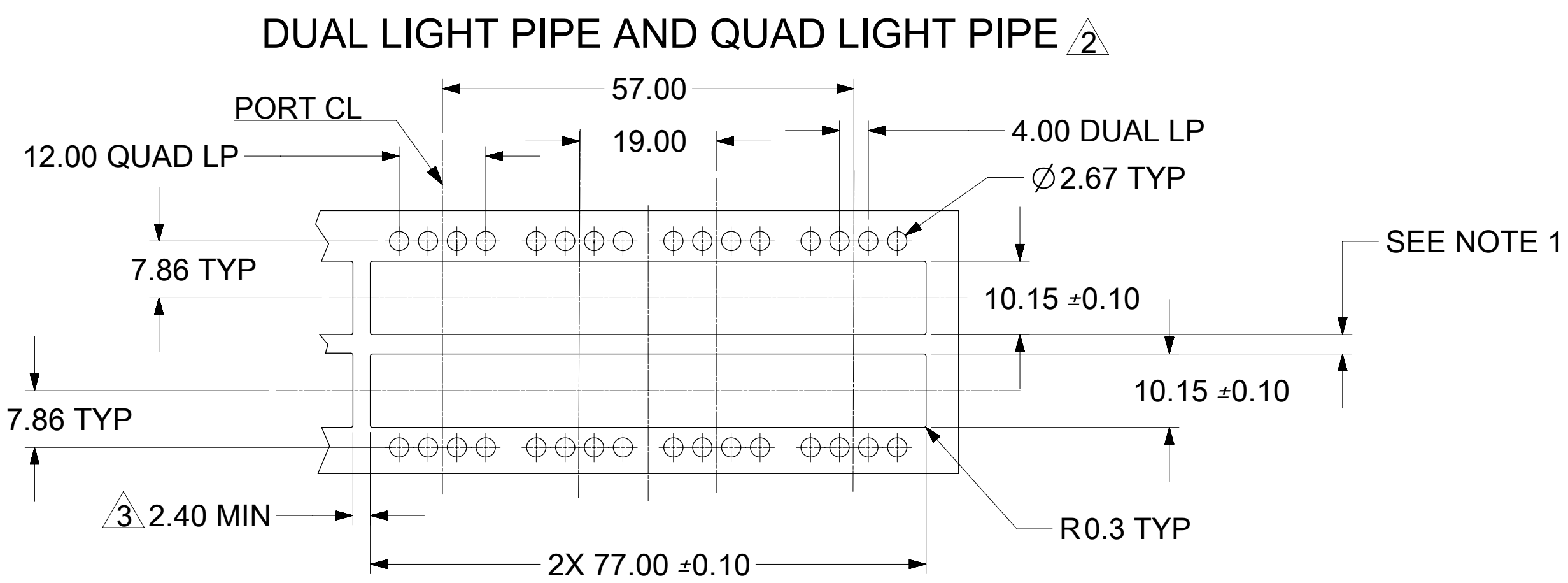
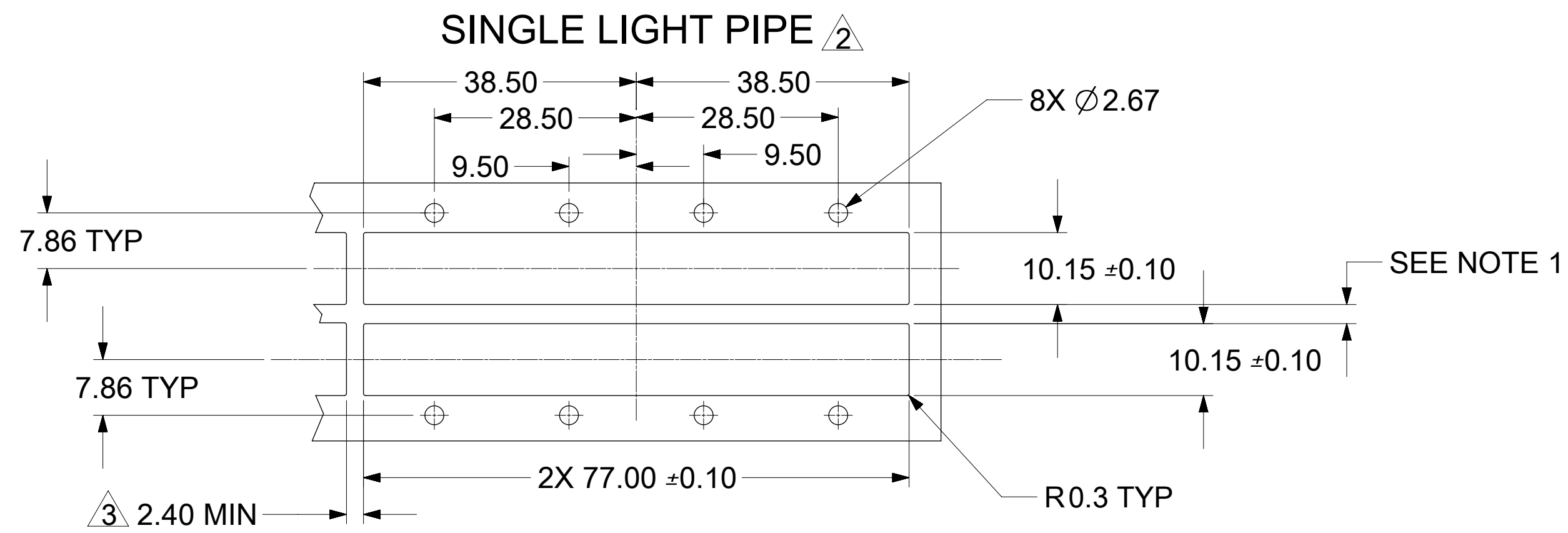


Detail 1
Scale 8:1

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
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▽ = 0	ANGULAR TOL ± 1.0°		
▽ = 0	4 PLACES	±	EC NO: 601541
▽ = 0	3 PLACES	±	DRWN: MKEMPEGOWDA 2017/06/07
▽ = 0	2 PLACES	± 0.13	CHK'D: TKUMARKC 2018/07/17
▽ = 0	1 PLACE	± 0.25	APPR: RCHEN08 2018/07/18
▽ = 0	0 PLACES	±	INITIAL REVISION:
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
		D-SIZE	100017
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000171200		PSD	SD
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
SEE P/N TABLE		GENERAL MARKET	6 OF 9

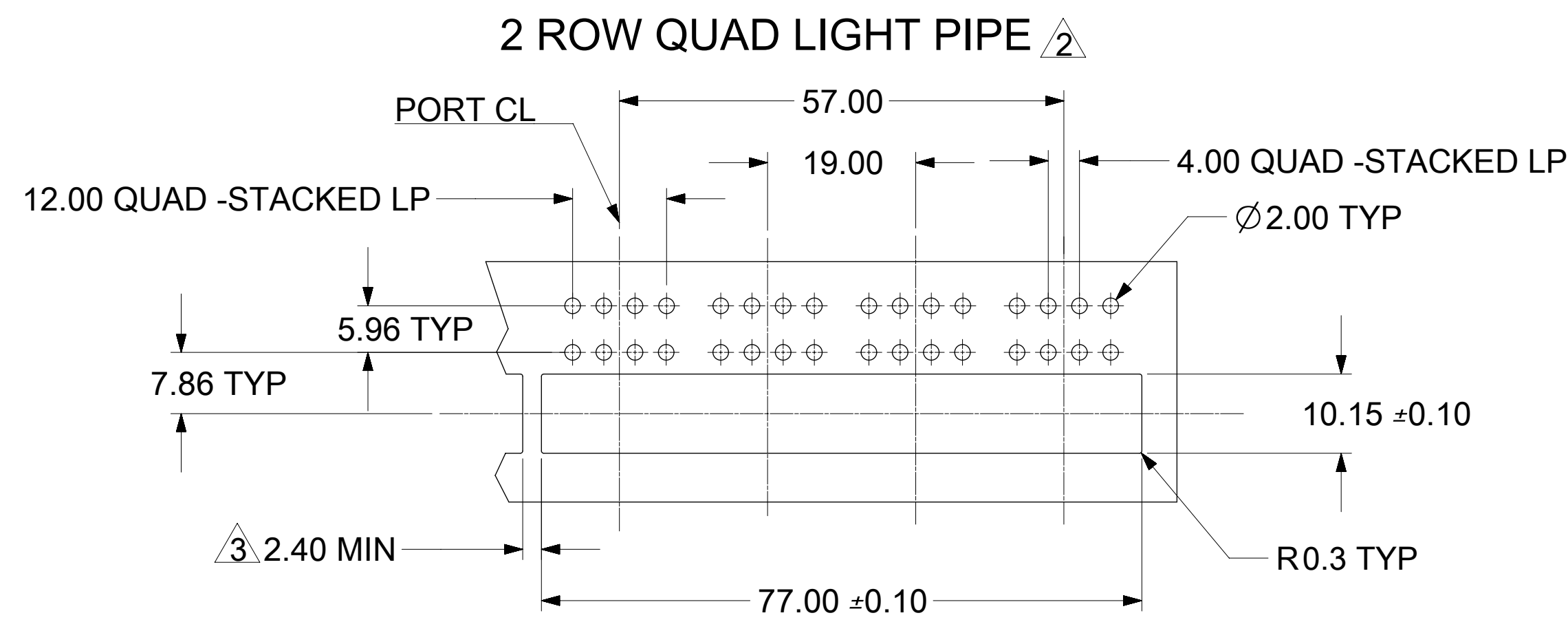
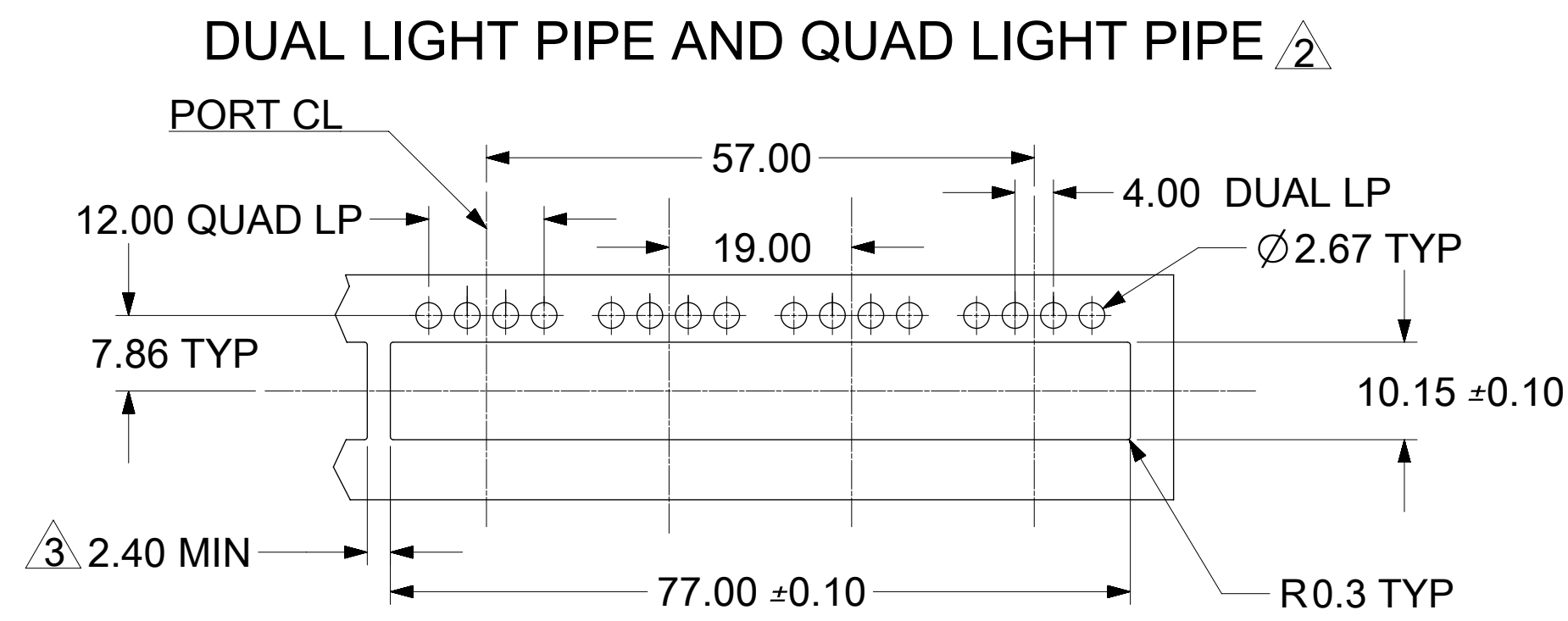
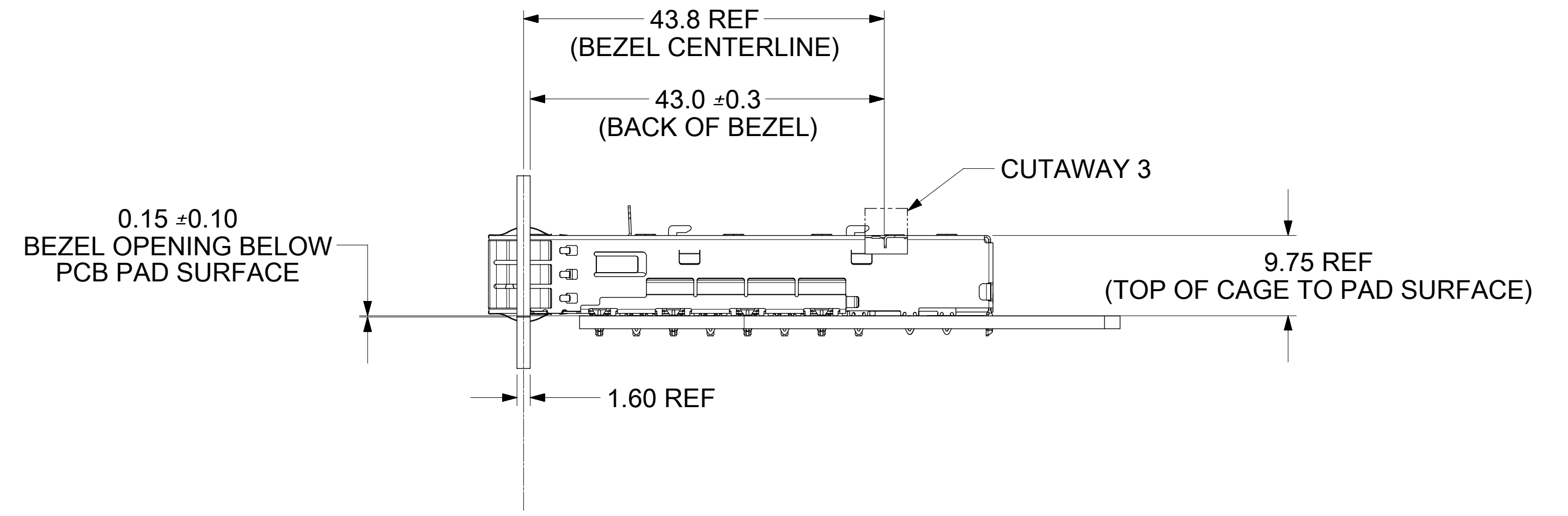
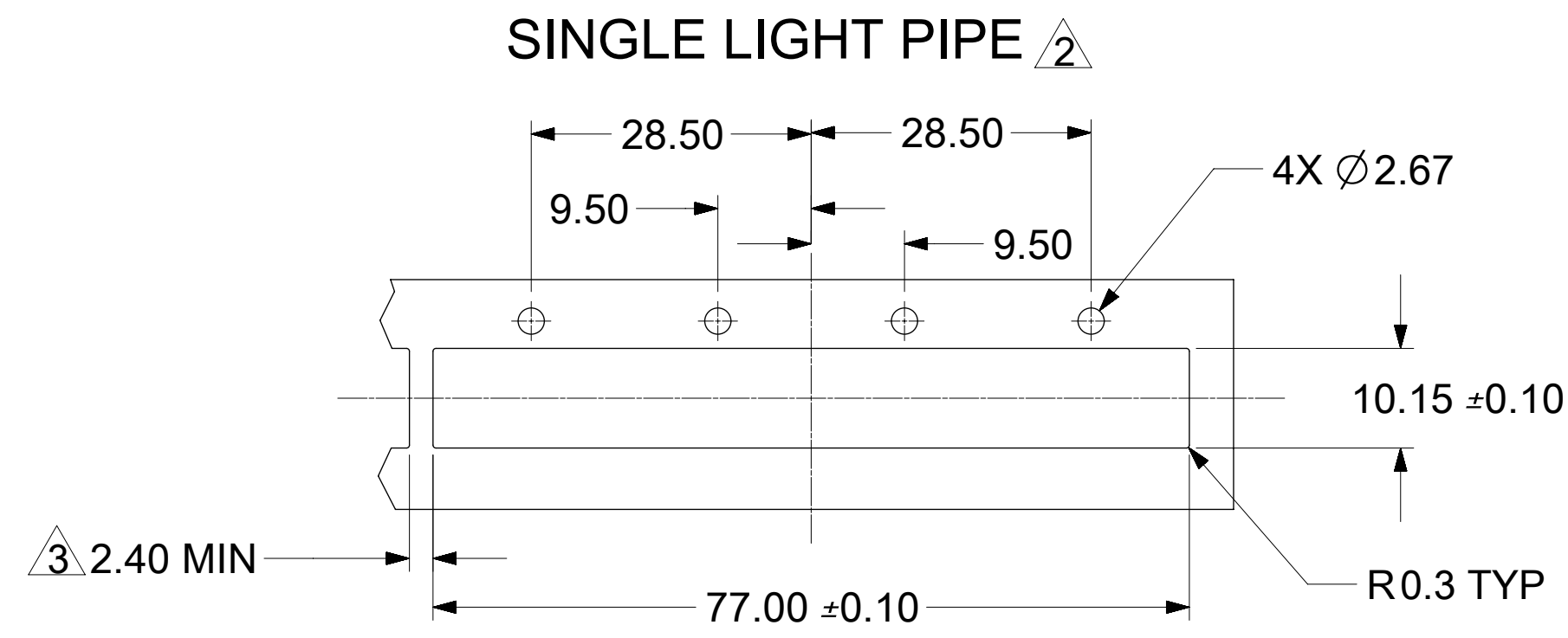
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



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		
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION HISTORY
▽ = 0	mm	2.5:1	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL ± 1.0°		
▽ = 0	4 PLACES	±	
▽ = 0	3 PLACES	±	
▽ = 0	2 PLACES	± 0.13	
▽ = 0	1 PLACE	± 0.25	
▽ = 0	0 PLACES	±	
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES
		D-SIZE	100017
DOCUMENT NUMBER		DOC TYPE	DOC PART
1000171200		PSD	SD
REVISION		K	
MATERIAL NUMBER		CUSTOMER	
SEE P/N TABLE		GENERAL MARKET	
SHEET NUMBER		7 OF 9	

BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE 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 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		
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION HISTORY
▽ = 0	mm	1:1	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL	± 1.0°	
▽ = 0	4 PLACES	±	EC NO: 601541
▽ = 0	3 PLACES	±	DRWN: MKEMPEGOWDA 2017/06/07
▽ = 0	2 PLACES	± 0.13	CHK'D: TKUMARKC 2018/07/17
▽ = 0	1 PLACE	± 0.25	APPR: RCHEN08 2018/07/18
▽ = 0	0 PLACES	±	INITIAL REVISION:
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: KNAGANNA 2015/06/03
▽ = 0	THIRD ANGLE PROJECTION		APPR: RCHEN08 2016/01/11
		DRAWING	SERIES
		D-SIZE	100017
DOCUMENT STATUS		DOCUMENT NUMBER	DOC TYPE
P1	1000171200	PSD	SD
RELEASE DATE	CUSTOMER	REVISION	
2018/07/18 01:27:46	GENERAL MARKET		K
		MATERIAL NUMBER	SHEET NUMBER
		SEE P/N TABLE	8 OF 9

molex

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

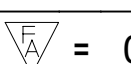
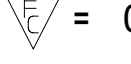
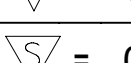

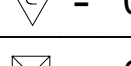

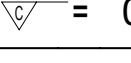


PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 1000171200

DOC TYPE: PSD, DOC PART: SD, REVISION: K

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

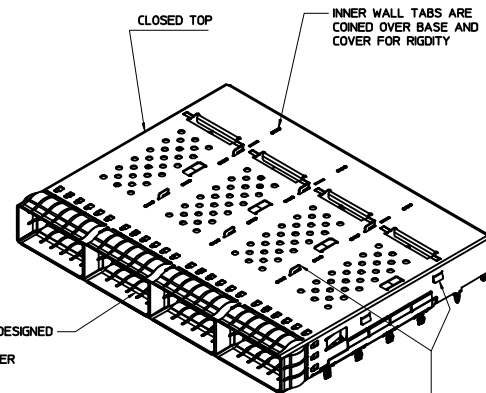
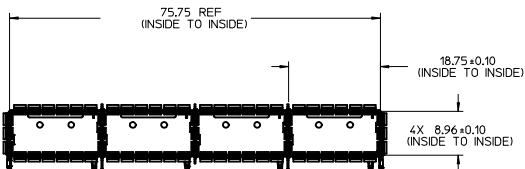
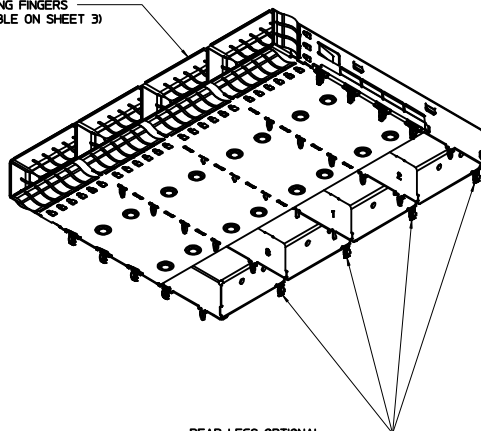
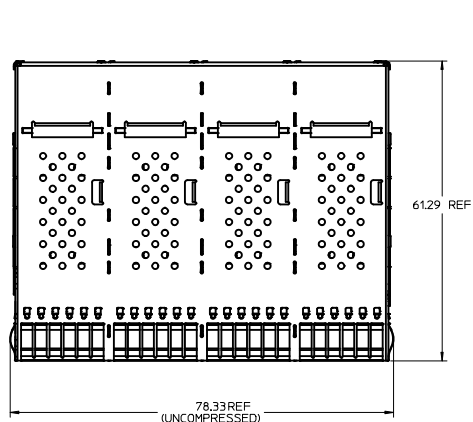
REV	DATE	DESCRIPTION
A	03/29/2013	RELEASE
B	06/26/2013	ADDED DIM 12.77 AT G-9 ON SHEET 4.
C	02/05/2014	SHEET 3: ADDED VIEW AND P/N TABLE FOR CLOSED TOP W/LP. SHEET 4/5: EXPANDED ALLOWABLE AREA WHERE SURFACE TRACES ARE PERMITTED. REMOVED "HOLE PATTERN REPEATS FOR EACH PORT." FROM NOTE 4
D	07/15/2014	SHEET 1: ADDED MATERIAL INFORMATION TO NOTES. SHEET 2: MADE HEATSINK HEIGHT DIMENSIONS REF. CHANGED REAR MOST LEG ON BOTH SIDES OF ALL CAGES FROM 3D PRESSFIT TO EYE-OF-THE-NEEDLE PRESSFIT LEG.
E	10/6/2014	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	3/12/2015	ADDED 1000171255 & LIGHT PIPE FEATURE IN COLUMN @ M10 ON SHEET3.
G	04/14/2015	SHEET 4: REVISED DIM "WAS" 12.77 "NOW" 12.79 @G9 REVISED FRAMED TEXT NUMBER 4 TRIANGLES TO FRAMED TEXT NUMBER 5 @D5, @E4, @E6, @F4, @F6, AND @H7 SHEET 5: REVISED DIM "WAS" 12.77 "NOW" 12.79 @F7 REMOVED NOTE 4 AND REVISED NOTE 5 TO NOTE 4 REMOVED NOTE 4 @A20 REMOVED SEE NOTE 4 AND ADDED DIMS @K11, K12, K13, AND @K14 SHEET 6: REVISED PORT CL "WAS" (4) "NOW" PORT CL @E7, D17, G17 AND @H7
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
J	06/26/2015	REMASTERED FROM SD-100017-1200_REV-H
J1	01/04/2016	UP-REVISIED TO CORRECT THE MODEL
J2	01/07/2016	CHANGED DOCUMENT FROM RSD TO SD
J3	2016/01/15	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.)
K	2017/06/07	SHEET 4: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION SHEET 5: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION C05: ADDED BASIC DIM 19.52 C10: ADDED BASIC DIM 35.28 & 38.52 C12: ADDED BASIC DIM 54.28 & 57.52 C13: ADDED BASIC DIM 72.78 SHEET 6: ADDED PAD TO HOLES & UPDATED VIEWS TO AVOID CONFUSION SHEET 7: J03: CHANGED DIM FROM 9.78 REF TO 9.75 REF SHEET 8: J03: CHANGED DIM FROM 9.78 REF TO 9.75 REF

SYMBOLS  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
	DIMENSION UNITS	SCALE	CURRENT REV DESC: SEE REVISION HISTORY					
	mm	1:1						
	GENERAL TOLERANCES (UNLESS SPECIFIED)							
	ANGULAR TOL	± 1.0°	EC NO: 601541					
	4 PLACES	±	DRWN: MKEMPEGOWDA 2017/06/07					
	3 PLACES	±	CHK'D: TKUMARKC 2018/07/17					
	2 PLACES	± 0.13	APPR: RCHEN08 2018/07/18					
	1 PLACE	± 0.25	INITIAL REVISION:					
	0 PLACES	±	DRWN: KNAGANNA 2015/06/03 APPR: RCHEN08 2016/01/11					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
			D-SIZE	100017	1000171200	PSD	SD	K
					SEE P/N TABLE	GENERAL MARKET	SHEET NUMBER 9 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 W1-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

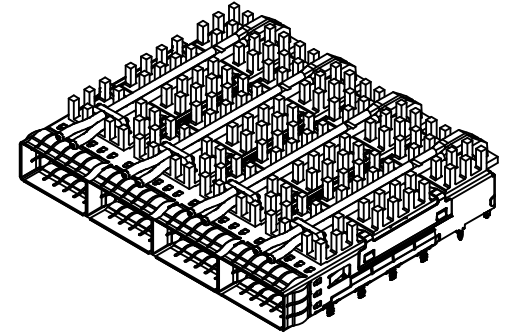
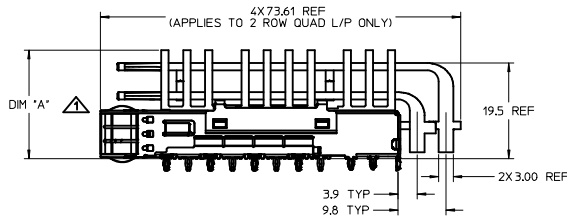
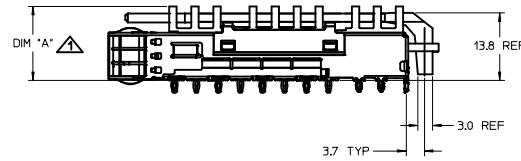
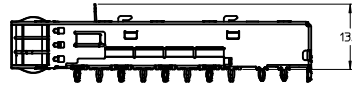
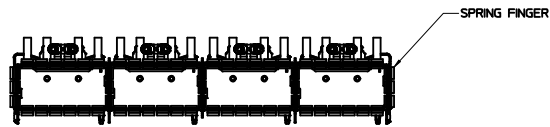
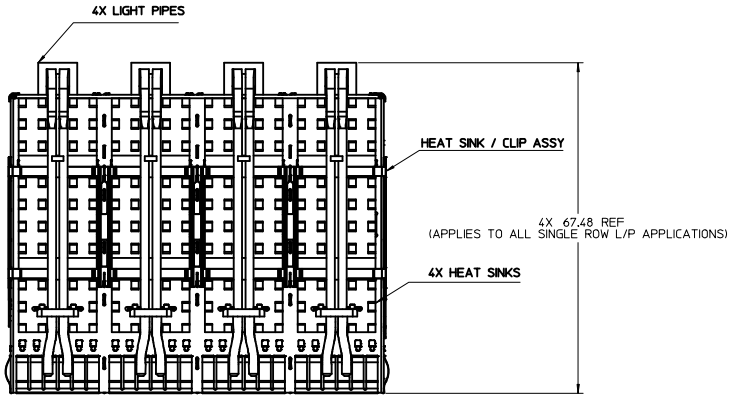
WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR 15, 16, 17 ETC.. (EXAMPLE: YEAR 2015= 15)

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

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

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

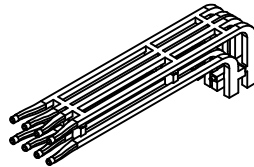
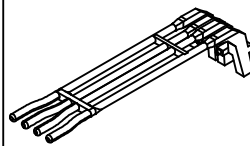
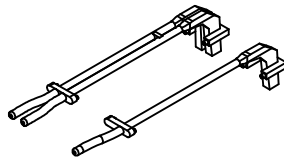
HEATSINK AND LIGHT PIPE COMBINATIONS

HEATSINK USED WITHOUT LIGHTPIPE

SINGLE / DUAL LIGHT PIPE

QUAD LIGHT PIPE

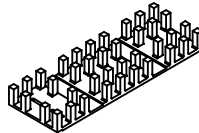
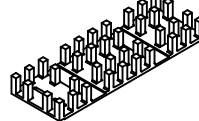
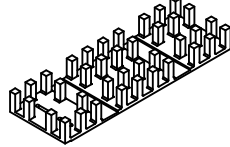
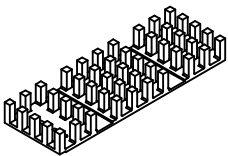
2 ROW QUAD LIGHT PIPE



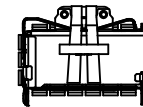
HEATSINK

HEATSINK

HEATSINK

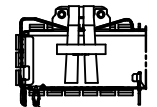


REAR LEG OPTIONS



0 REAR LEGS

Partial1
SCALE 2.5:1



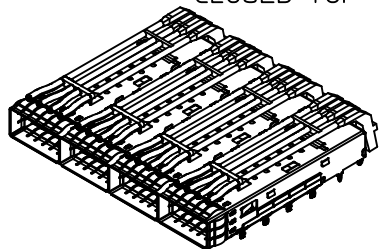
1 REAR LEG

Partial2
SCALE 2.5:1

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

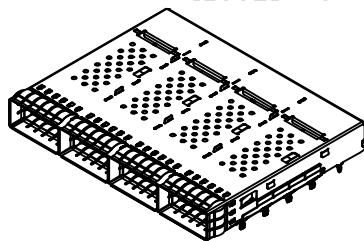
PART NUMBER SELECTION

NO HEATSINKS
WITH LIGHT PIPES
CLOSED TOP



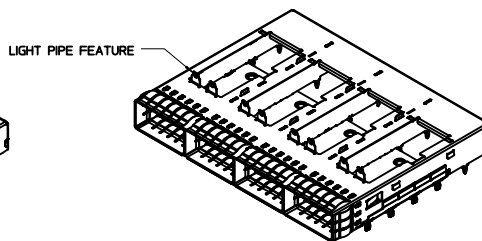
MOLEX P/N	LIGHTPIPES	#OF REAR LEGS PER PORT
1000171231	SINGLE	0
1000171232	SINGLE	1
1000171233	DUAL	0
1000171234	DUAL	1
1000171235	QUAD	0
1000171236	QUAD	1

NO HEATSINKS
NO LIGHT PIPES
CLOSED TOP



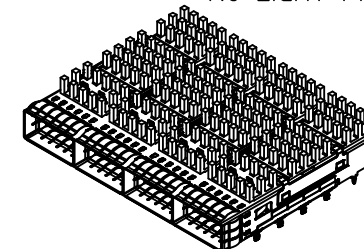
MOLEX P/N W/ SPRING FINGERS	# OF REAR LEGS PER PORT
1000171240	0
1000171242	1

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

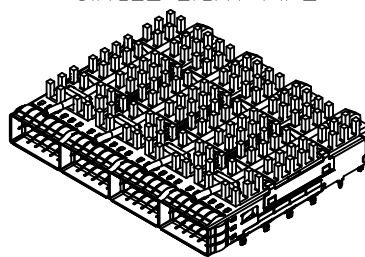


MOLEX P/N	HEATSINKS	#OF REAR LEGS PER PORT
1000171340	PCI	0
1000171341	SAN	0
1000171342	NET	0
1000171343	PCI	1
1000171344	SAN	1
1000171345	NET	1

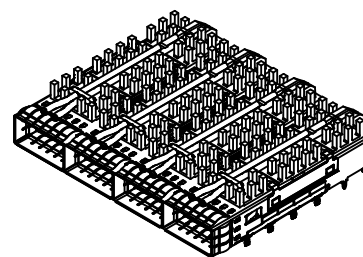
WITH HEATSINKS AND LIGHT PIPES

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

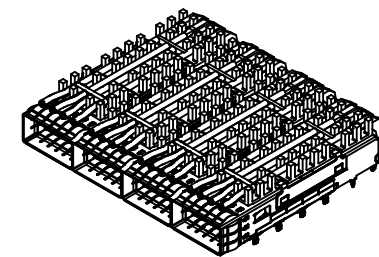
SINGLE LIGHT PIPE



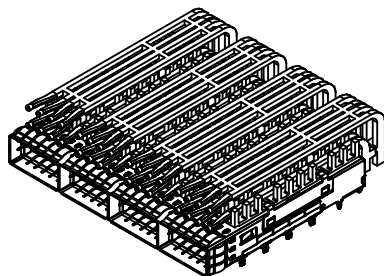
DUAL LIGHT PIPE



QUAD LIGHT PIPE

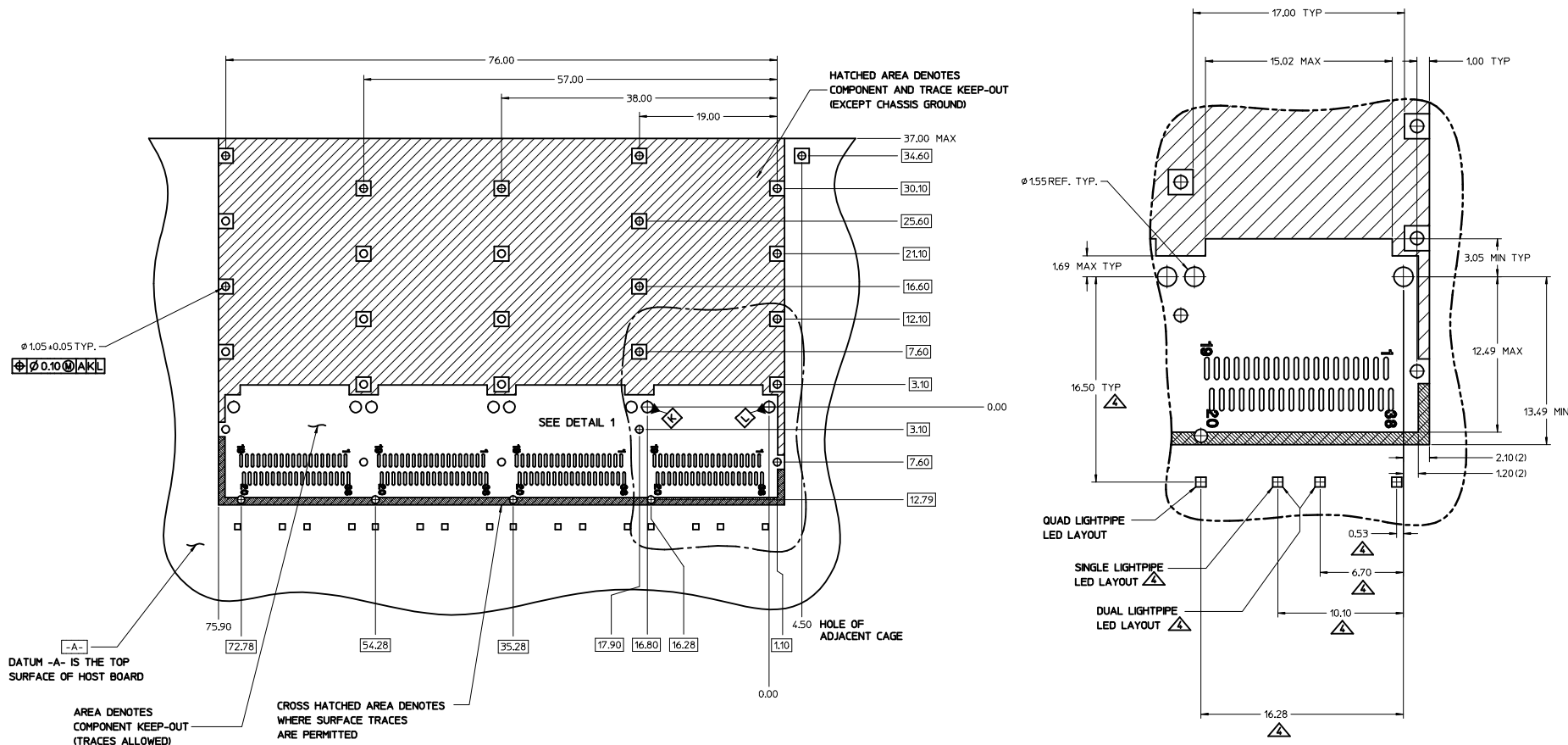


2 ROW QUAD LIGHT PIPE



SEE REVISION TABLE EC NO: CPG2015-6475 DRAWN: KOMARU CHKD: DASH APP: RICHENOB REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY	DATE	1.5:1	METRIC	DATE	
		4 PLACES ±---	±---	BREED	2012/08/17			ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
		3 PLACES ±---	±---	CHECKED BY	DATE				
		2 PLACES ±0.13	±---	TPRICE	2012/08/17			molex	
		1 PLACE ±0.25	±---	APPROVED BY	DATE				
		0 PLACE ±---	±---	KLLOYD	2013/04/08			DOCUMENT NO. SD-100017-1200	
				ANGULAR ± 1 °				SHEET NO. 3 OF 8	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
				SEE DRAWING					
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

PCB LAYOUT FOR SINGLE SIDED MOUNTING

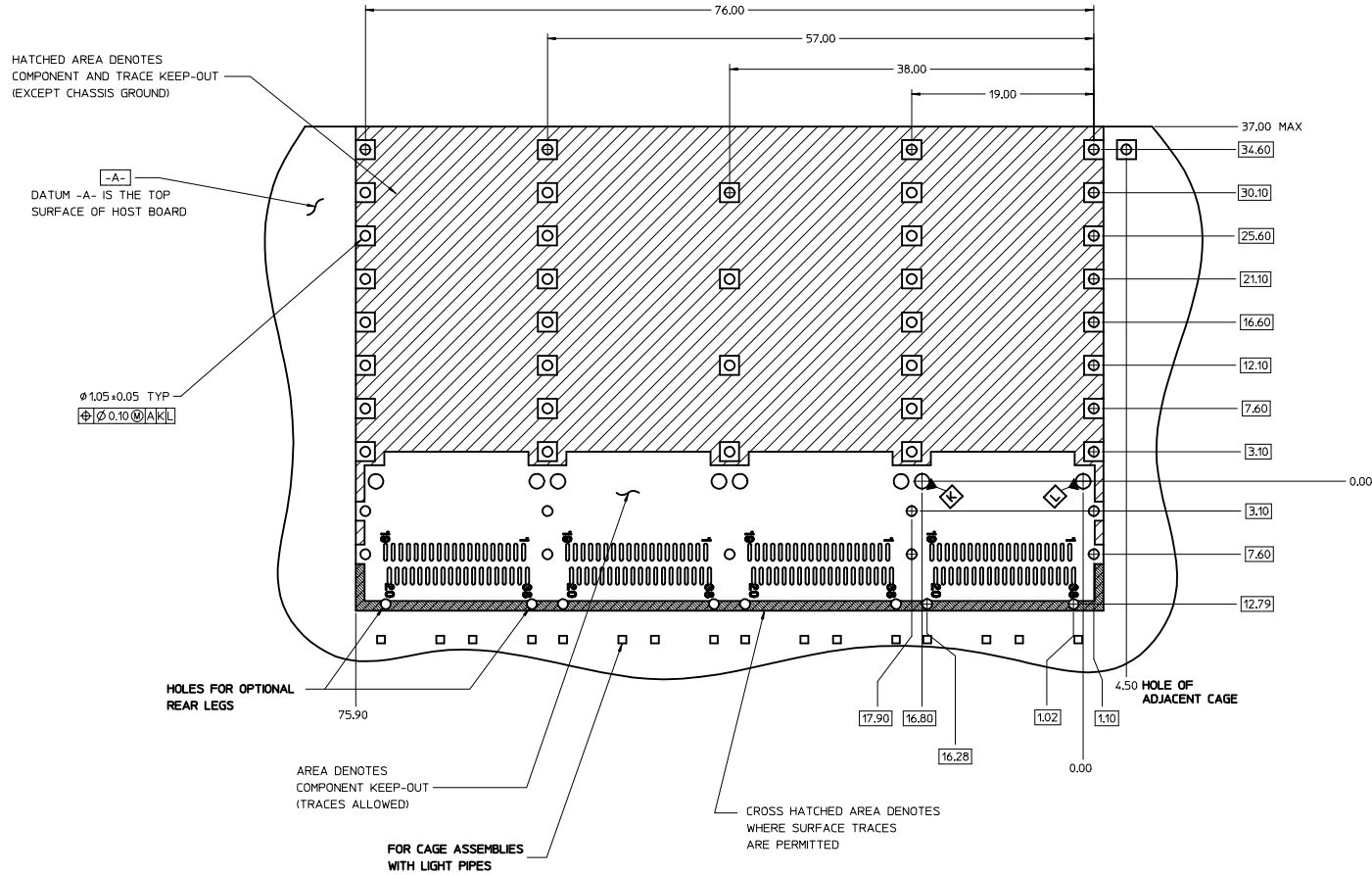


NOTES:

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.

SEE REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
REV	DESCRIPTION	mm	INCH	mm		MM ONLY		3.5:1	METRIC	☉
1	DRWNG:KUMARK	±0.13	±---	4 PLACES	±---	BREED	DATE	2012/08/17	TITLE	
2	CHKD:DASH	±0.25	±---	3 PLACES	±---	CHECKED BY	DATE	2012/08/17	ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
3	APPR:RCHEN08	±0.25	±---	2 PLACES	±---	APPROVED BY	DATE	2013/04/08	molex	
4		±0.25	±---	1 PLACE	±---	KLLOYD	DATE		SHEET NO.	
5		±0.25	±---	0 PLACE	±---		DATE		4 OF 8	
MATERIAL NO.						SEE DRAWING		DOCUMENT NO.		
SIZE						D		SD-100017-1200		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



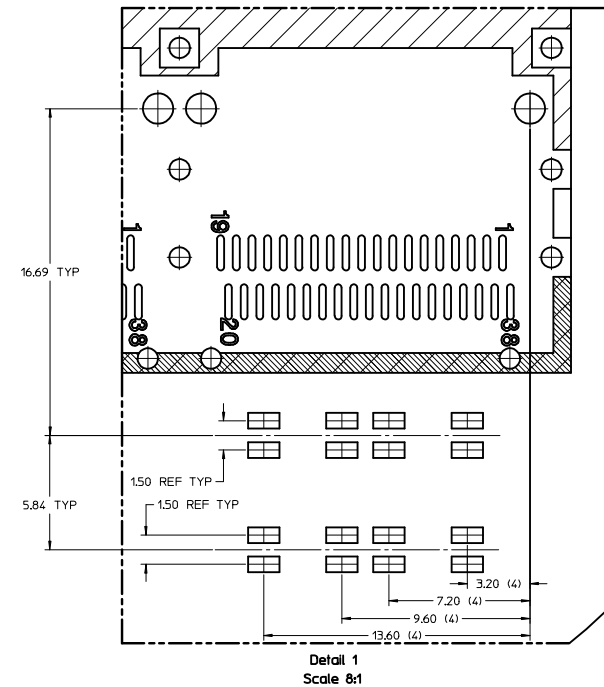
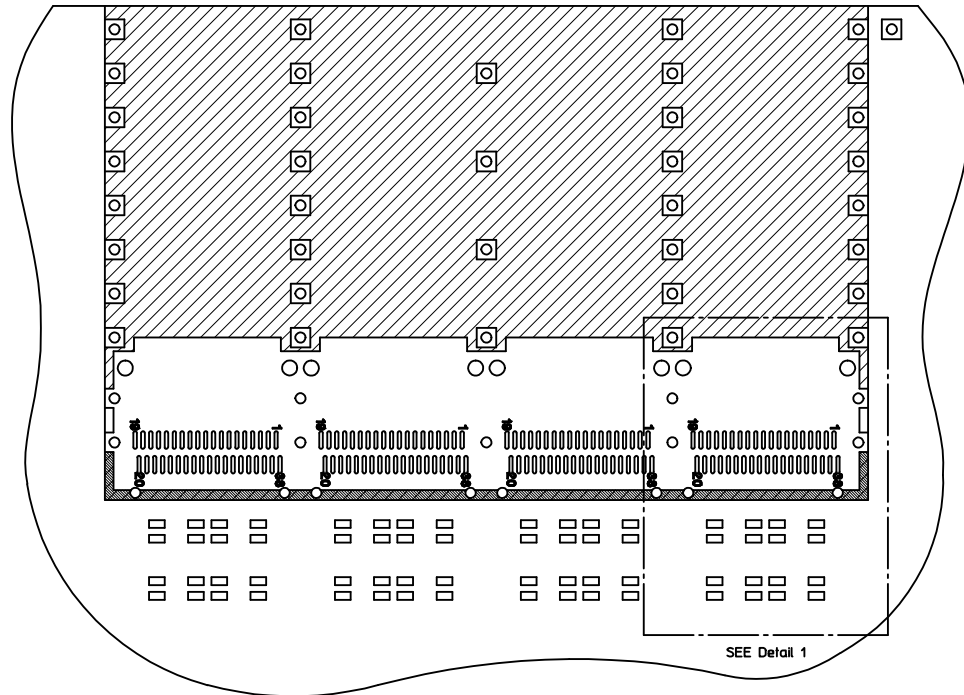
NOTE:
SEE SHEET 4 FOR HOST
CONNECTOR DETAIL
AND SINGLE ROW LED
LOCATION DETAIL

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 SERRIES 170432.

SEE REVISION TABLE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
REV	DESCRIPTION	▽=0	▽=0	mm	INCH	MM ONLY	4:1	METRIC	☉	
1	DRW:KUMARK	▽=0	▽=0	4 PLACES	±---	BREED	DATE	2012/08/17	TITLE	
2	CHK:DASH	▽=0	▽=0	3 PLACES	±---	CHECKED BY	DATE	2012/08/17	ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS	
3	APP:RCHEN08	▽=0	▽=0	2 PLACES	±0.13	APPROVED BY	DATE	2013/04/08	molex	
				1 PLACE	±0.25	KLLOYD	DATE		DOCUMENT NO.	
				0 PLACE	±---				SD-100017-1200	
MATERIAL NO.						SEE DRAWING		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						SIZE D		5 OF 8		
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

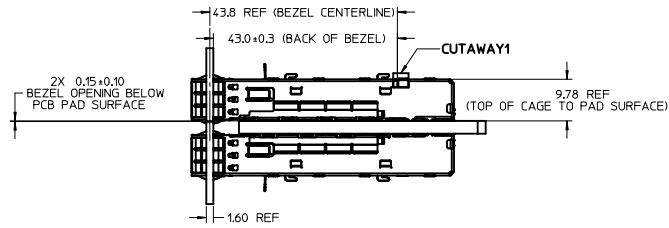


Detail 1
Scale 8:1

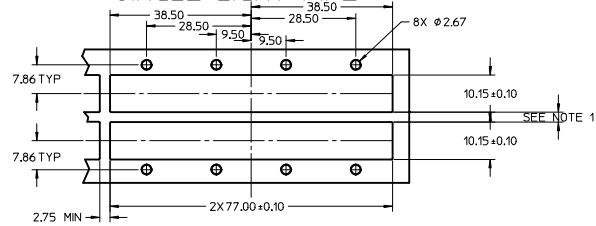
NOTE:
SEE SHEET 4 FOR HOST
CONNECTOR DETAIL

SEE REVISION TABLE IEC NO: CPG2015-6475 DRAWN: KUMARK CHYKOBASH APPR: RCHENOB 2015/06/16 2015/06/24 2015/06/24	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0	4 PLACES ± 0.13	MM ONLY	3:1	METRIC	☉	
	▽=0	3 PLACES ± 0.25	INCH				
	▽=0	1 PLACE ± 0.25					
	0 PLACE ± 0.25	ANGULAR ± 1°					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			DRAWN BY: BREED CHECKED BY: TPRICE APPROVED BY: KLLLOYD	DATE: 2012/08/17 DATE: 2012/08/17 DATE: 2013/04/08	TITLE: ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS		
			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				

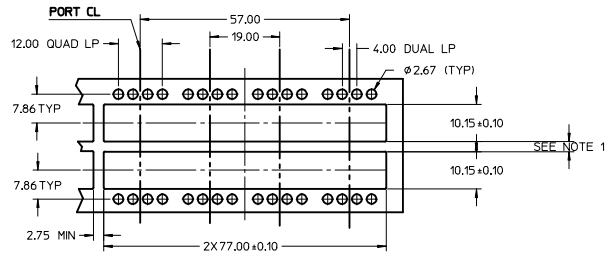
BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING



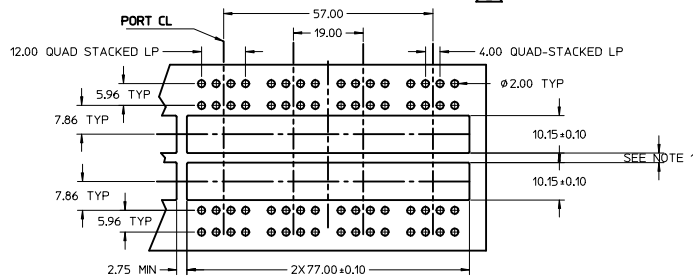
SINGLE LIGHT PIPE



DUAL LIGHT PIPE AND QUAD LIGHT PIPE

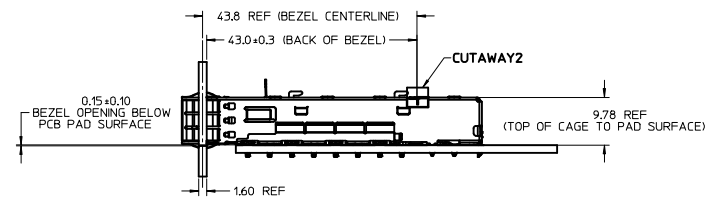


2 ROW QUAD LIGHT PIPE

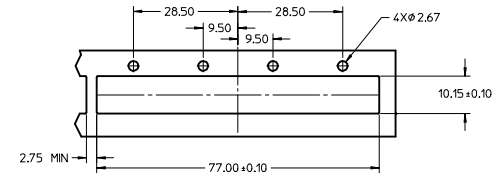


NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.

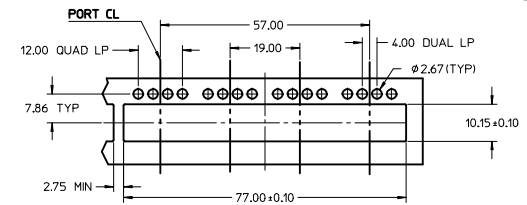
BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDE MOUNTING



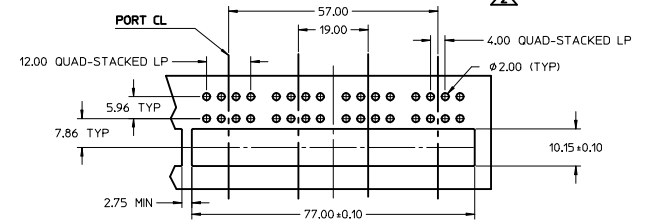
SINGLE LIGHT PIPE



DUAL LIGHT PIPE AND QUAD LIGHT PIPE



2 ROW QUAD LIGHT PIPE



SEE REVISION TABLE IEC NO: CPG2015-6475 DRAWN: KUMARK CHYKODASH APPROV: RCHEN08 2015/06/16 2015/06/24 2015/06/24	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2.5:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	BREED 2012/08/17	TITLE	ZQSFP+ 1X4 GANGED CAGE ASSY'S (SPRING FINGER) WITH H/S & L/P OPTIONS
	▽=0	3 PLACES ± --- ± ---	CHECKED BY DATE	TPRICE 2012/08/17	MATERIAL NO.	SD-100017-1200
	ANGULAR ± 1°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY DATE	KLOYD 2013/04/08	DOCUMENT NO.	SHEET NO. 7 OF 8
	SIZE D		SEE DRAWING			

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