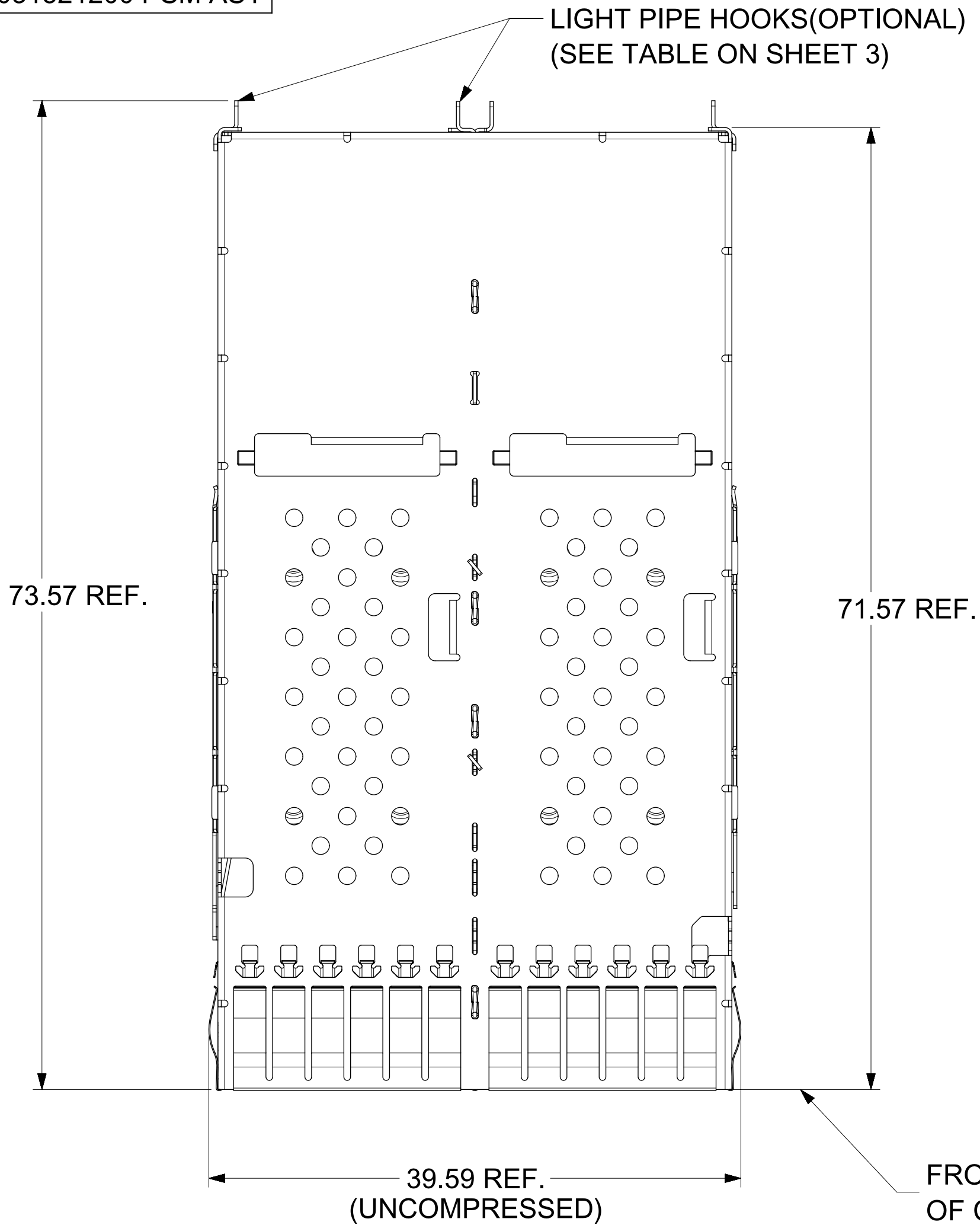


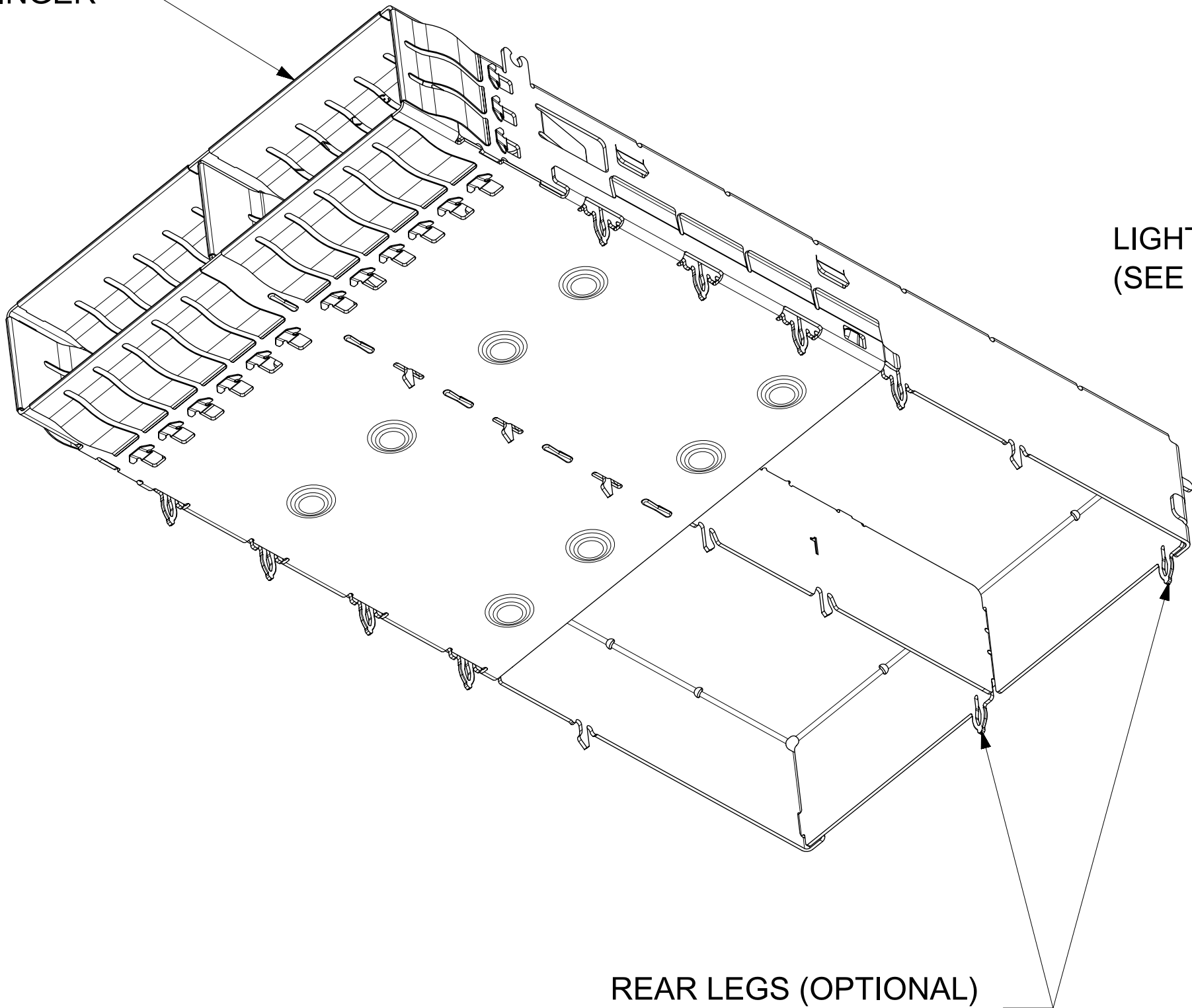
3D MODEL: 2031521200 PSM ASY

BASE CAGE DETAILS

2031521242 SHOWN



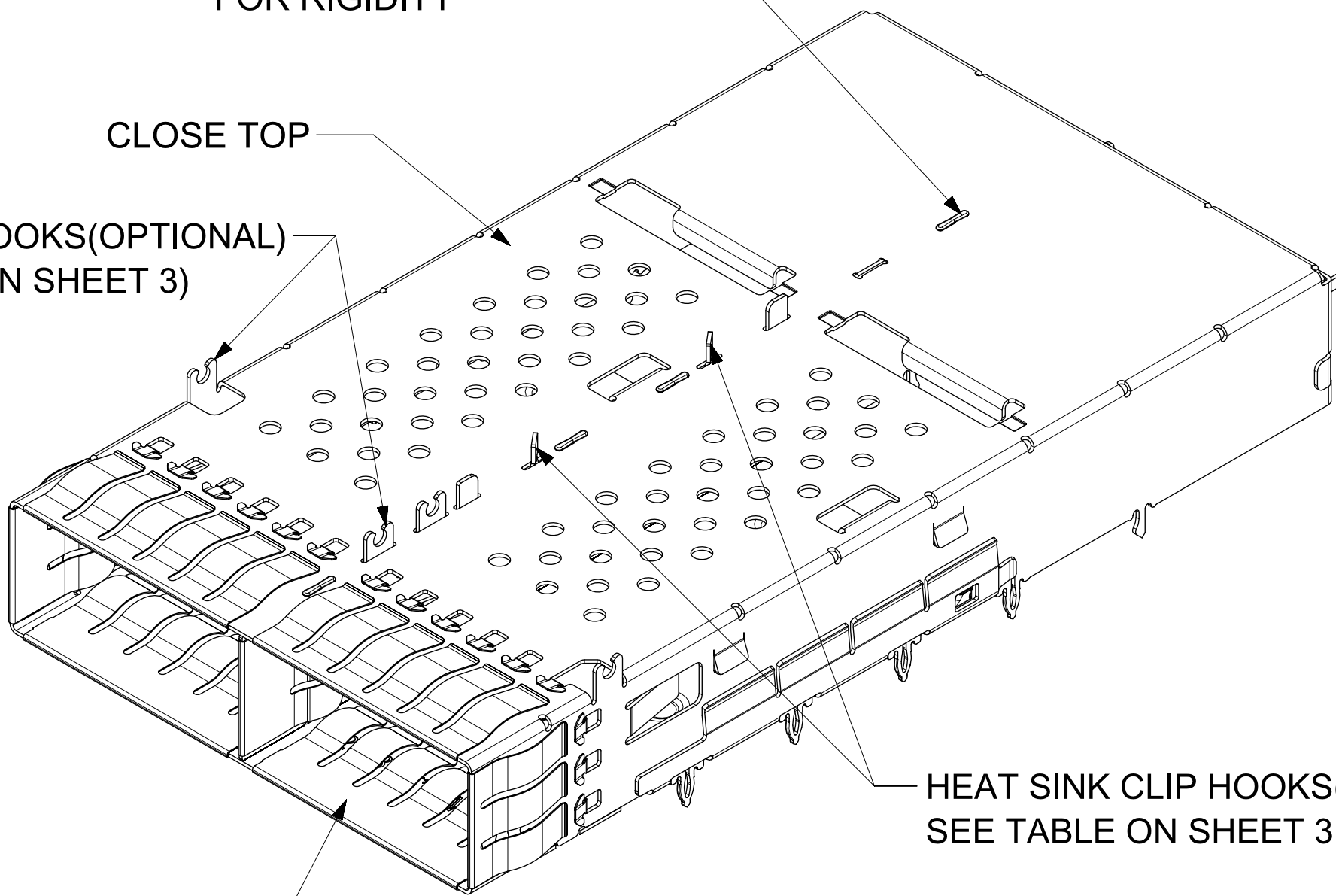
SPRING FINGER



INNER WALL TABS ARE
COINED OVER BASE AND
FOR RIGIDITY

CLOSE TOP

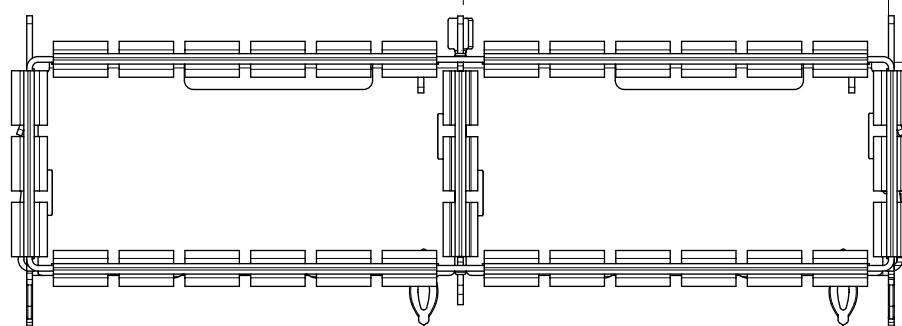
LIGHT PIPE HOOKS(OPTIONAL)
(SEE TABLE ON SHEET 3)



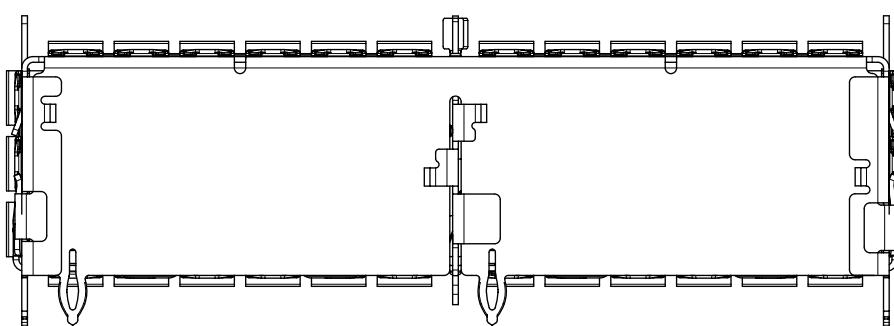
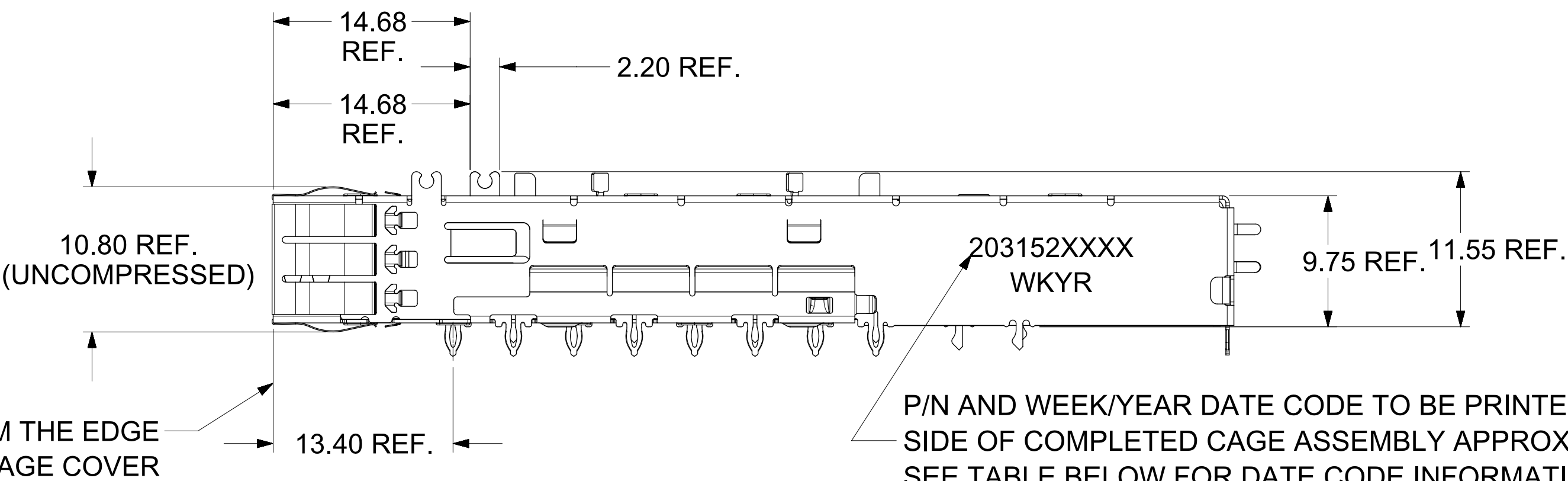
HEAT SINK CLIP HOOKS(OPTIONAL)
SEE TABLE ON SHEET 3


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

2X 18.75 ±0.10
(INSIDE TO INSIDE)



2X 8.96 ±0.10
(INSIDE TO INSIDE)



- NOTES:
- MATERIAL: CAGE: STAINLESS STEEL
SPRING FINGERS:STAINLESS STEEL
HEAT SINKS: ALUMINUM(BLACK ANODIZATION)
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, REFER TO SHEETS 2 AND 3.
 - PARTS TO BE INSPECTED PER MOLEX COSMETIC SPEC WI-HP-7-2774 (CLASS B UNLESS OTHERWISE SPECIFIED)
 - PRESS-FIT LEGS 2.20mm LONG -
1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.
2.70mm MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.
 - NO RoHS EXEMPTIONS

WEEK/YEAR DATE CODE TABLE

WK	WEEK OF THE YEAR 01 THRU 52 OR 53 (EXAMPLE: 01= FIRST WEEK OF YEAR, 52 OR 53 = LAST WEEK OF YEAR
YR	17, 18, 19 ETC.. (EXAMPLE: YEAR 2017= 17)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
QUALITY SYMBOLS		SEE REVISION TABLE 2017/01/31 EC NO: DRWN: NGK01 CHK'D: CHKD: REV: APPR:		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		<div>molex®</div> QSFP-DD 1X2 GANGED CAGE SPRING FINGER WITH H/S AND LP OPTIONS		
= 0	ANGULAR TOL ± 2.0 °			MM		3:1						
= 0	4 PLACES ±			DRWN BY		DATE						
= 0	3 PLACES ±			NGK01		2017/01/31						
= 0	2 PLACES ± 0.13			CHK'D BY		DATE						
= 0	1 PLACE ± 0.25			APPR BY		DATE						
= 0	0 PLACES ±		DRAWING SIZE		THIRD ANGLE PROJECTION		PRODUCT CUSTOMER DRAWING					
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		D				SERIES	MATERIAL NUMBER		CUSTOMER		
= 0							203152	SEE P/N TABLE		GENERAL MARKET		
= 0							DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
= 0							2031521200		PSD	ASY	1 OF 7	

2031521446 SHOWN



SPRING FINGER



14.1 REF.

2.0 REF.

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

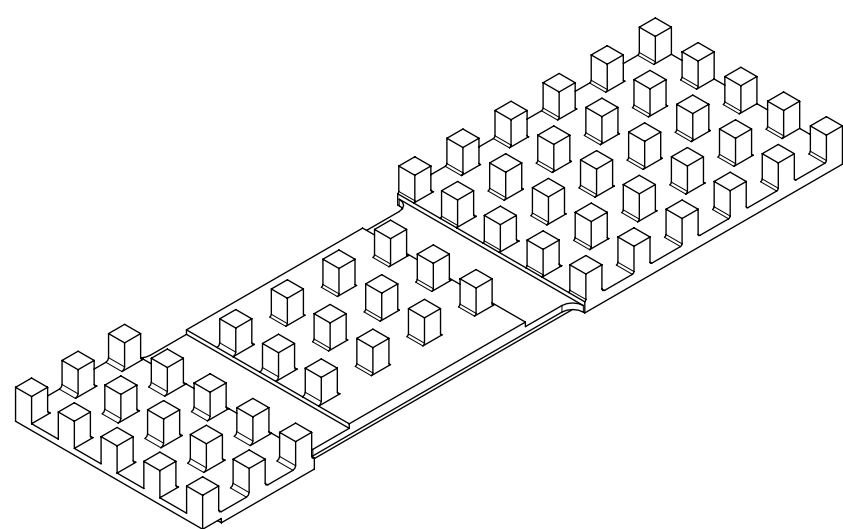
A triangle with the number 1 inside.

The diagram illustrates two chair configurations. On the left, labeled '0 REAR LEGS', a chair is shown with a single rear leg. On the right, labeled '1 REAR LEGS', a chair is shown with two rear legs. A line points from the label '1 REAR LEGS' to the second rear leg of the chair.

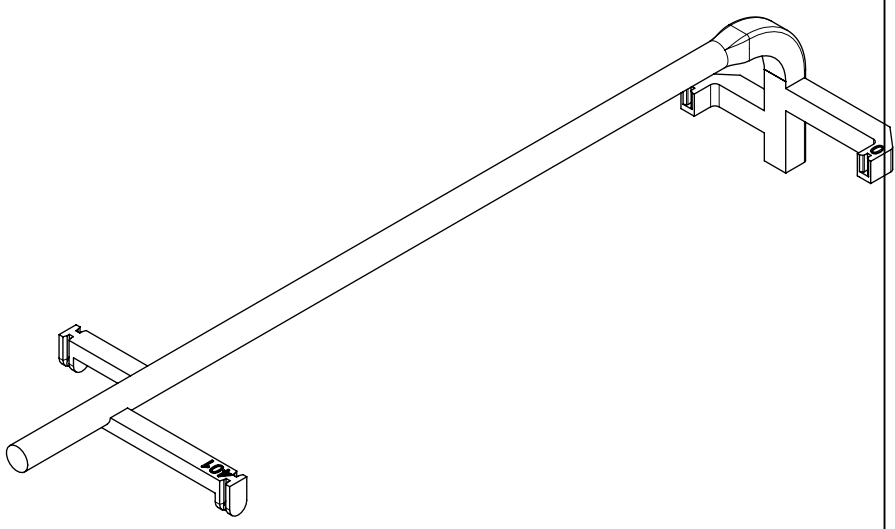
0 REAR LEGS

— 1 REAR LEGS

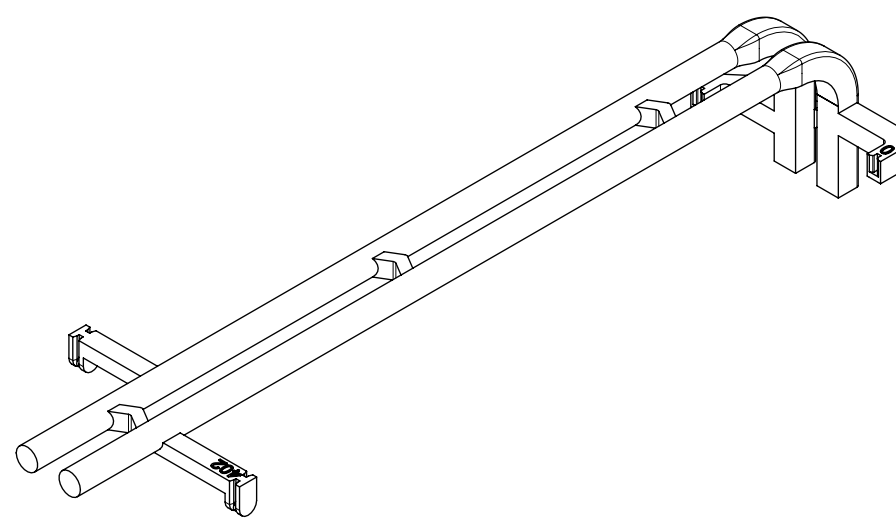
HEATSINK



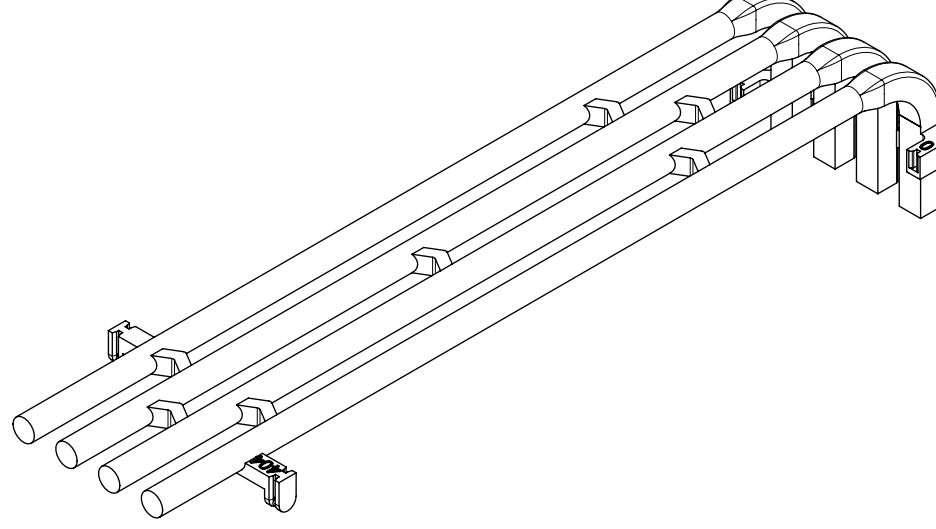
SINGLE LIGHT PIPE



DUAL LIGHT PIPE



QUAD LIGHT PIPE



PRE-RELEASE
REFERENCE
USE ONLY

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

Ø 1.05 ±0.05 TYP.

Ø 0.10 (M) A K L

-A-

DATUM -A- IS THE TOP SURFACE OF HOST BOARD

AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

CROSS HATCHED AREA DENOTES WHERE SURFACE TRACES ARE PERMITTED

HOLES FOR OPTIONAL REAR LEGS

38.00

19.00

37.00 MAX.

34.60

30.10

25.60

21.10

16.60

12.10

7.60

3.10

0.00

3.10

7.60

23.10

34.78

19.52

17.90

16.80

16.28

1.02

1.10

4.50 HOLE OF ADJACENT CAGE

0.00

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 2.00x2.40mm RECTANGLE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER QSFP-DD WILL ACCOMODATE MOLEX CONNECTOR SERRIES 202718.

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

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS		SCALE					
FA = 0	SEE REVISION TABLE	EC NO: 2017/01/31 DRWN: NGK01 CHKD: NGK01 REV: APPR:	MM		4:1					
EC = 0			DRWN BY		DATE					
FP = 0			NGK01		2017/01/31					
FA = 0			CHKD BY		DATE					
EC = 0			APPR BY		DATE					
FP = 0			DRAWING SIZE		THIRD ANGLE PROJECTION					
FA = 0			D							
EC = 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
FP = 0										
FA = 0										
			SERIES		MATERIAL NUMBER		CUSTOMER			
			203152		SEE P/N TABLE		GENERAL MARKET			
			DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
			2031521200		PSD		ASY		5 OF 7	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

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QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS		SCALE	
▽ = 0	SEE REVISION TABLE	EC NO: 1 DRWN: NGK01 CHKD: REV APPR:	MM		4:1	
▽ = 0			DRWN BY DATE			
▽ = 0			NGK01 2017/01/31			
▽ = 0			CHKD BY DATE			
▽ = 0			APPR BY DATE			
▽ = 0			DRAWING SIZE			
▽ = 0			THIRD ANGLE PROJECTION			
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 2.0 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
▽ = 0	4 PLACES ±		3 PLACES ±		2 PLACES ± 0.13	
▽ = 0	1 PLACE ± 0.25		0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		D		THIRD ANGLE PROJECTION	

RELEASE STATUS		RELEASE DATE		SERIES		MATERIAL NUMBER		CUSTOMER	
19		18		203152		SEE P/N TABLE		GENERAL MARKET	
17		16		DOCUMENT NUMBER		DOC TYPE		DOC PART SHEET NUMBER	
15		14		2031521200		PSD		ASY 5 OF 7	
13		12		3		2		1	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

DATUM -A- IS THE TOP SURFACE OF HOST BOARD

AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

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0.00

34.78

19.52

17.90

16.80

16.28

1.02

1.10

4.50 HOLE OF ADAJCENT CAGE

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3.10

3.10

0.00

7.60

3.10

12.10

16.60

21.10

25.60

30.10

34.60

37.00 MAX.

19.00

38.00

Ø 1.05 ±0.05 TYP.

Ø 0.10 (M) A K L

-A-

K

L

23.10

0.00

4.50 HOLE OF ADAJCENT CAGE

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- PCB LAYOUT FOR BELLY TO BELLY MOUNTING

HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

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0.00

34.78

19.52

17.90

16.80

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1.10

4.50 HOLE OF ADAJCENT CAGE

0.00

7.60

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3.10

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16.60

21.10

25.60

30.10

34.60

37.00 MAX.

19.00

38.00

Ø 1.05 ±0.05 TYP.

Ø 0.10 (M) A K L

-A-

K L

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PCB LAYOUT FOR BELLY TO BELLY MOUNTING

HATCHED AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

DATUM -A- IS THE TOP SURFACE OF HOST BOARD

AREA DENOTES COMPONENT KEEP-OUT AND NO SURFACE TRACES (EXCEPT CHASSIS GROUND)

CROSS HATCHED AREA DENOTES WHERE SURFACE TRACES ARE PERMITTED

HOLES FOR OPTIONAL REAR LEGS

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 2.00x2.40mm RECTANGLE.)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
3. CONNECTOR PAD LAYOUT PER QSFP-DD WILL ACCOMODATE MOLEX CONNECTOR SERRIES 202718.

0.00

34.78

19.52

17.90

16.80

16.28

1.02

1.10

4.50 HOLE OF ADAJCENT CAGE

0.00

7.60

3.10

3.10

0.00

7.60

3.10

12.10

16.60

21.10

25.60

30.10

34.60

37.00 MAX.

19.00

38.00

Ø 1.05 ±0.05 TYP.

Ø 0.10 (M) A K L

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K

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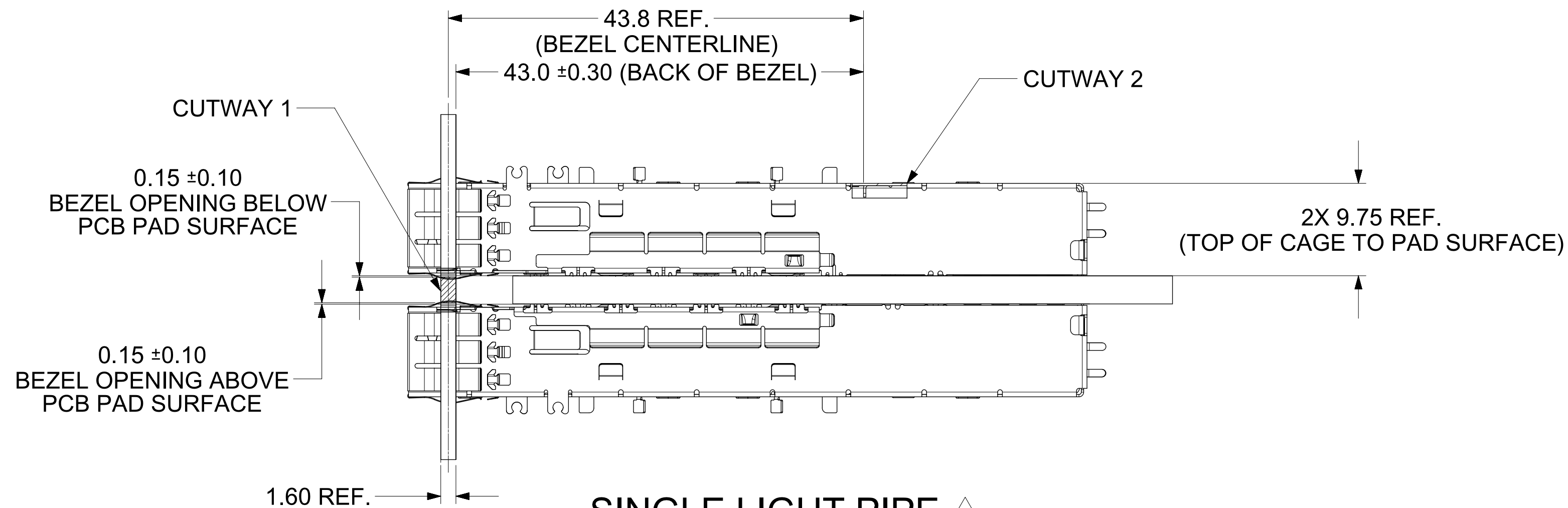
17.90

19.52

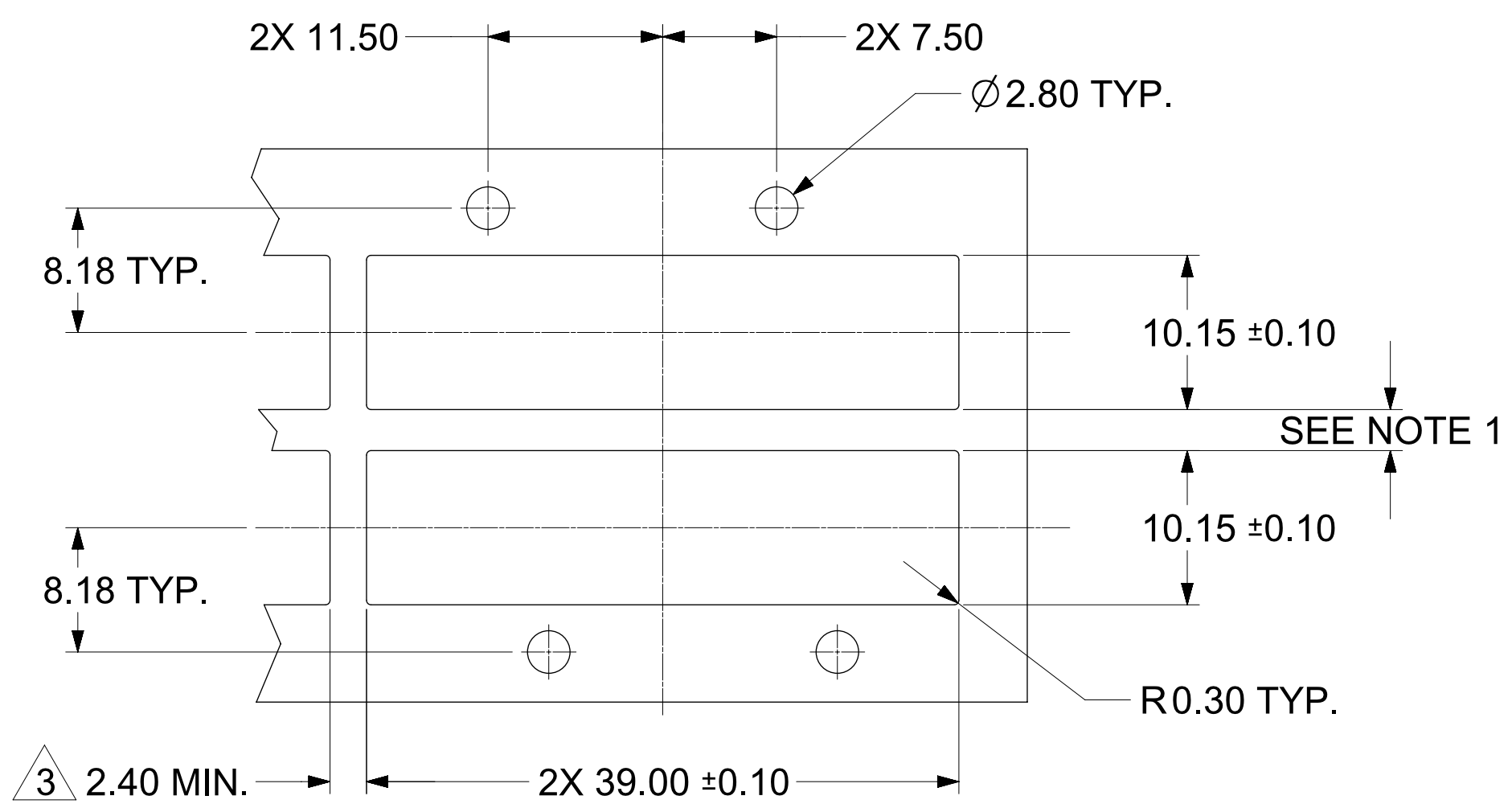
34.78

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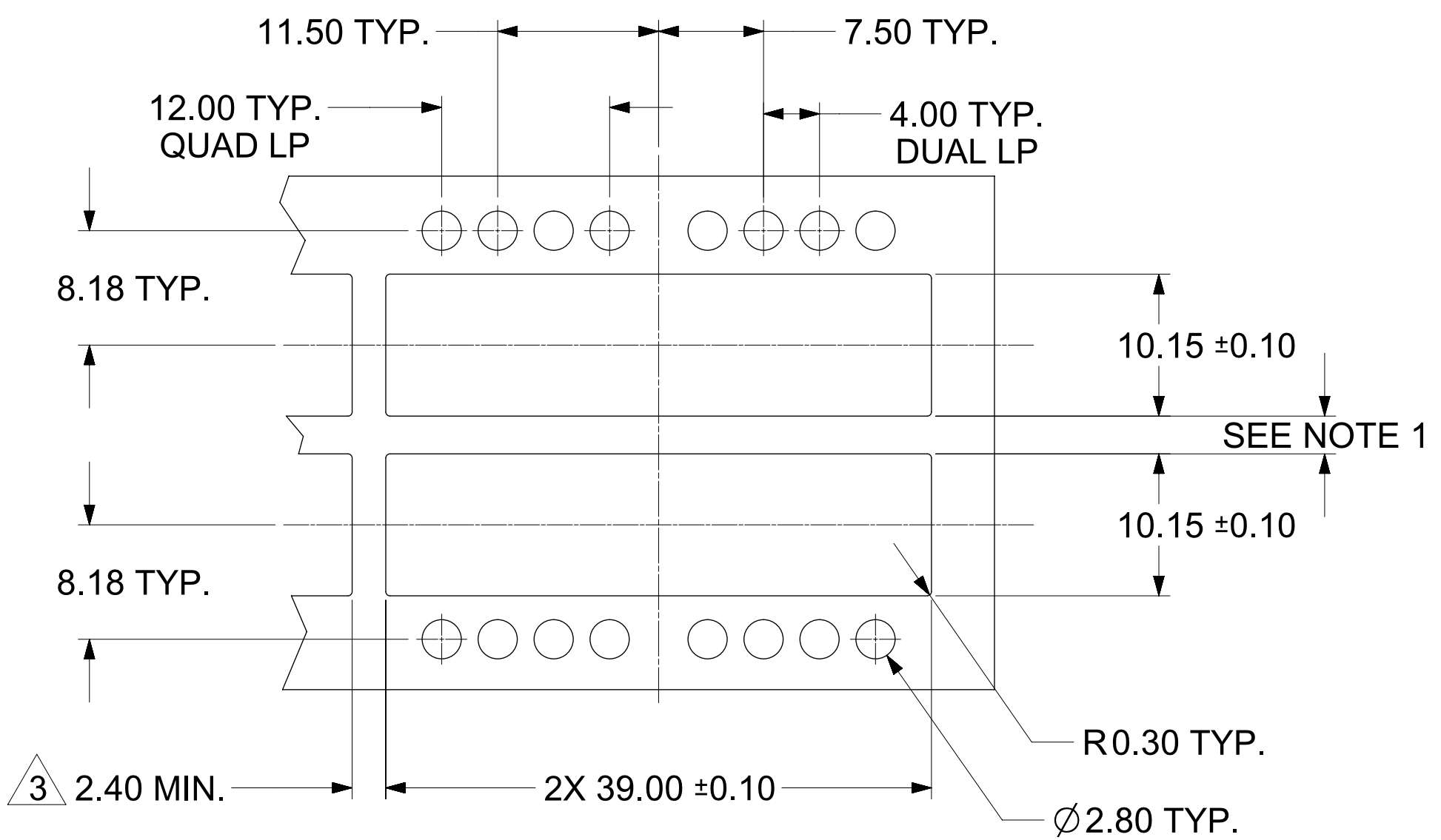
BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY TO BELLY MOUNTING



SINGLE LIGHT PIPE ²

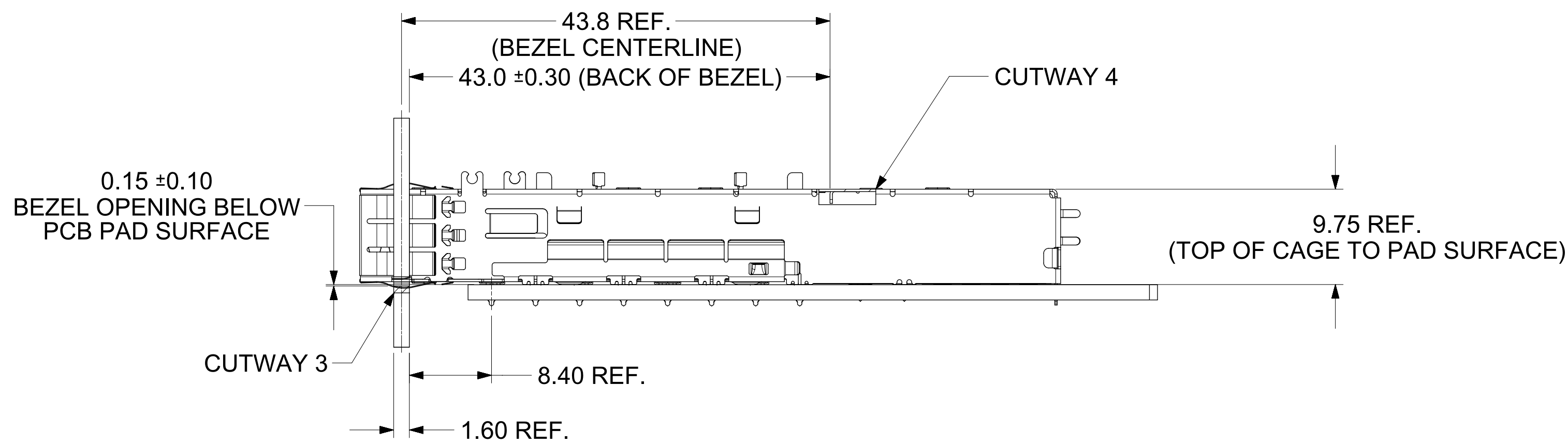


DUAL/QUAD LIGHT PIPE ²

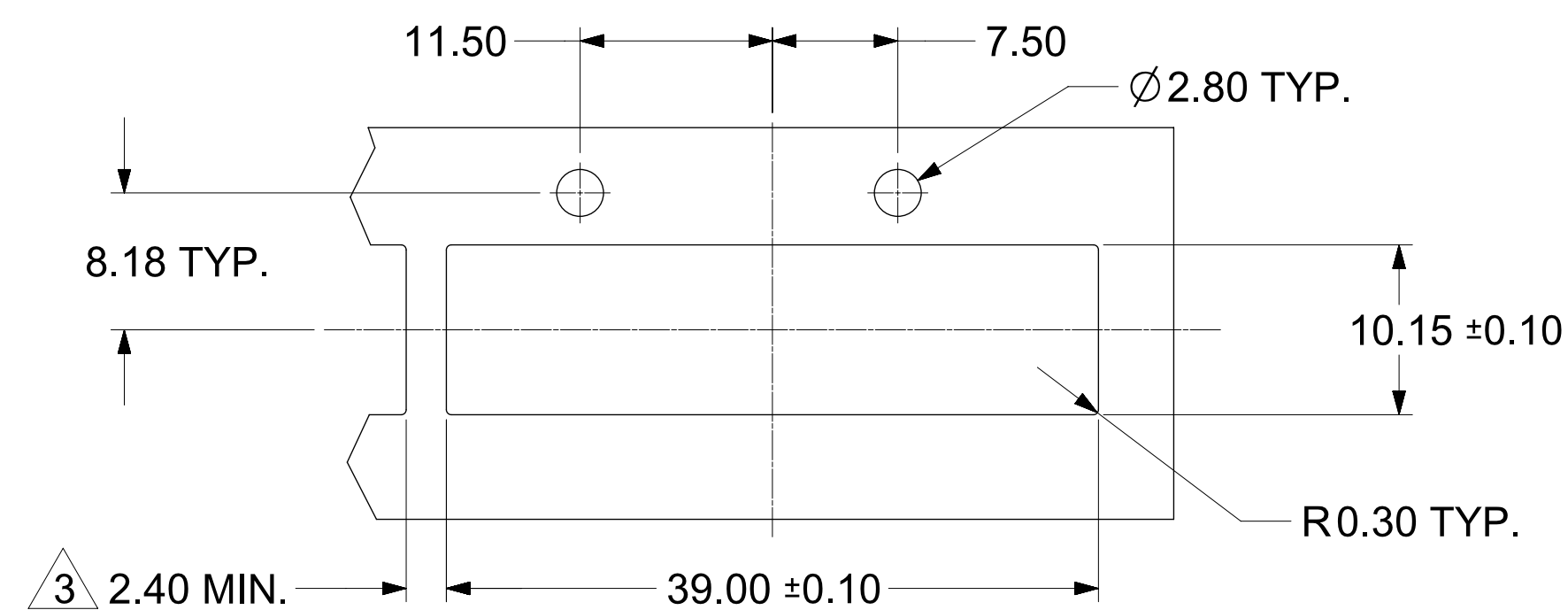


- NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.
 2. NOTED DIMENSIONS ONLY APPLY TO CAGE ASSEMBLIES WITH LIGHT PIPES.
 3. THIS DIMENSION IS FOR REFERENCE ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. (THIS DIMENSION VARIES BASED ON DISTANCE OF "HOLE OF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

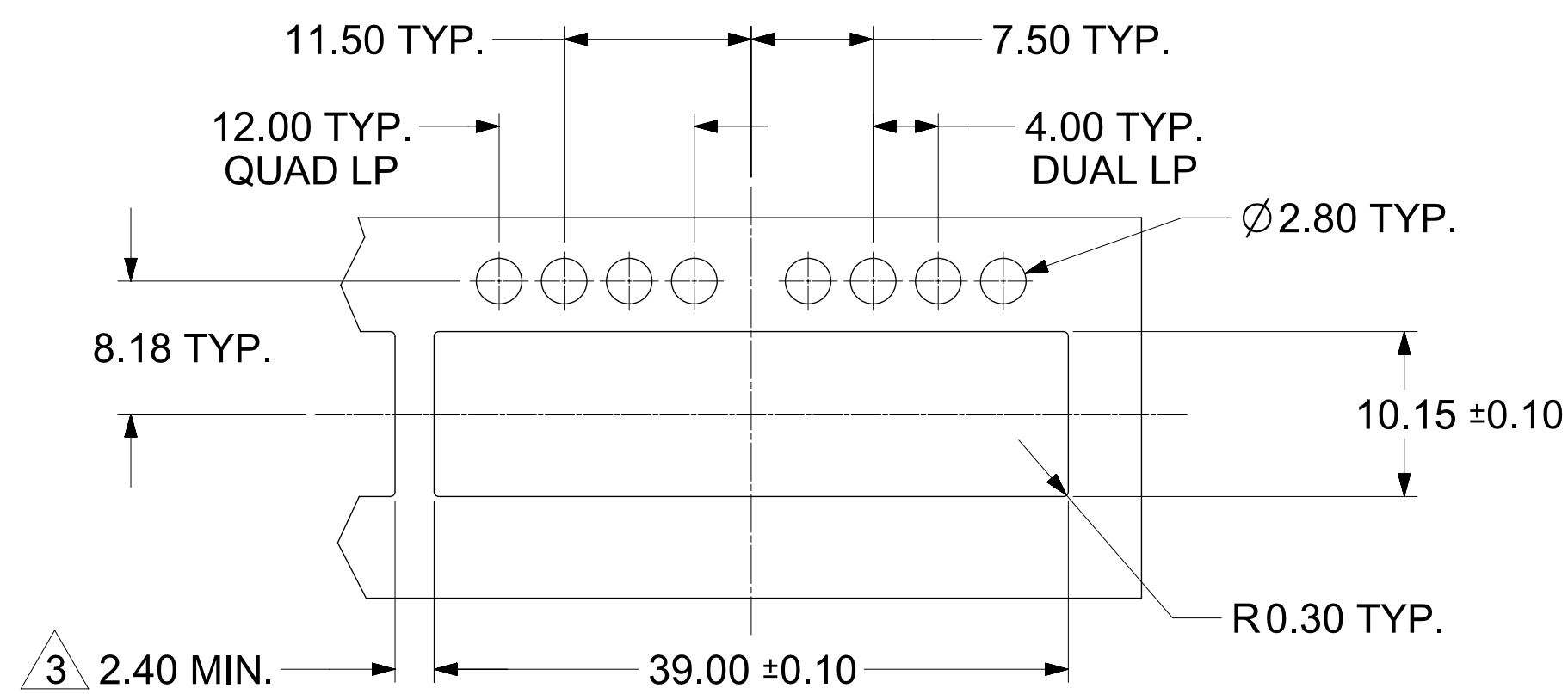
BEZEL AND BOARD POSITION DIMENSIONS
FOR SINGLE SIDE MOUNTING



SINGLE LIGHT PIPE ²



DUAL/QUAD LIGHT PIPE ²



PRE-RELEASE
REFERENCE
USE ONLY

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	= 0	SEE REVISION TABLE	2017/01/31	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE					
	= 0				MM		2.5:1					
	= 0				DRWN BY		DATE					
	= 0				4 PLACES ±		NGK01		2017/01/31			
	= 0				3 PLACES ±		CHK'D BY		DATE			
	= 0				2 PLACES ± 0.13		APPR BY		DATE			
	= 0				1 PLACE ± 0.25		DRAWING SIZE		THIRD ANGLE PROJECTION			
	= 0	EC NO: 1	DRWN: NGK01	CHK'D: APPR:	0 PLACES ±		D					
	= 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
	= 0											
						SERIES		MATERIAL NUMBER		CUSTOMER		
						203152		SEE P/N TABLE		GENERAL MARKET		
						DOCUMENT NUMBER		DOC TYPE		DOC PART		
						2031521200		PSD		ASY		
										SHEET NUMBER		
										6 OF 7		

