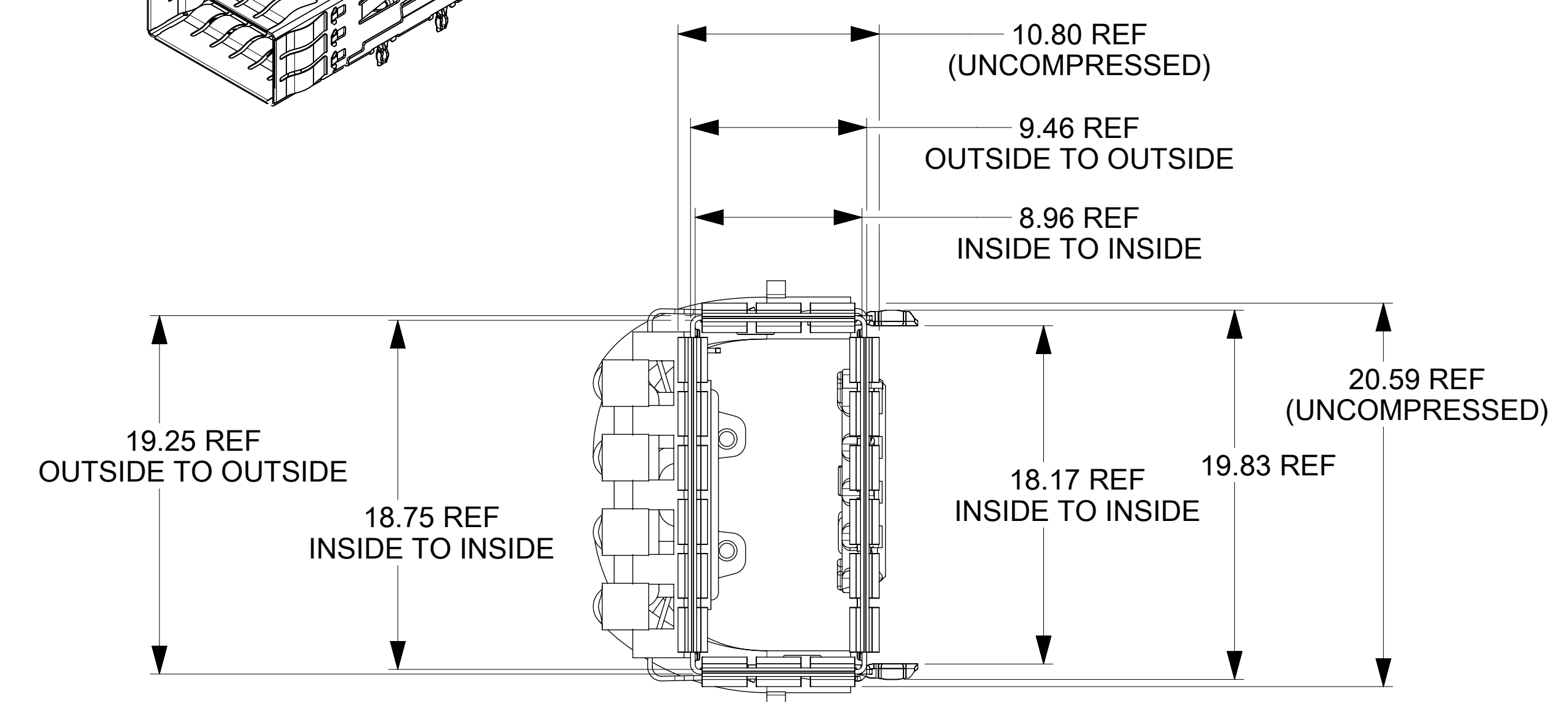
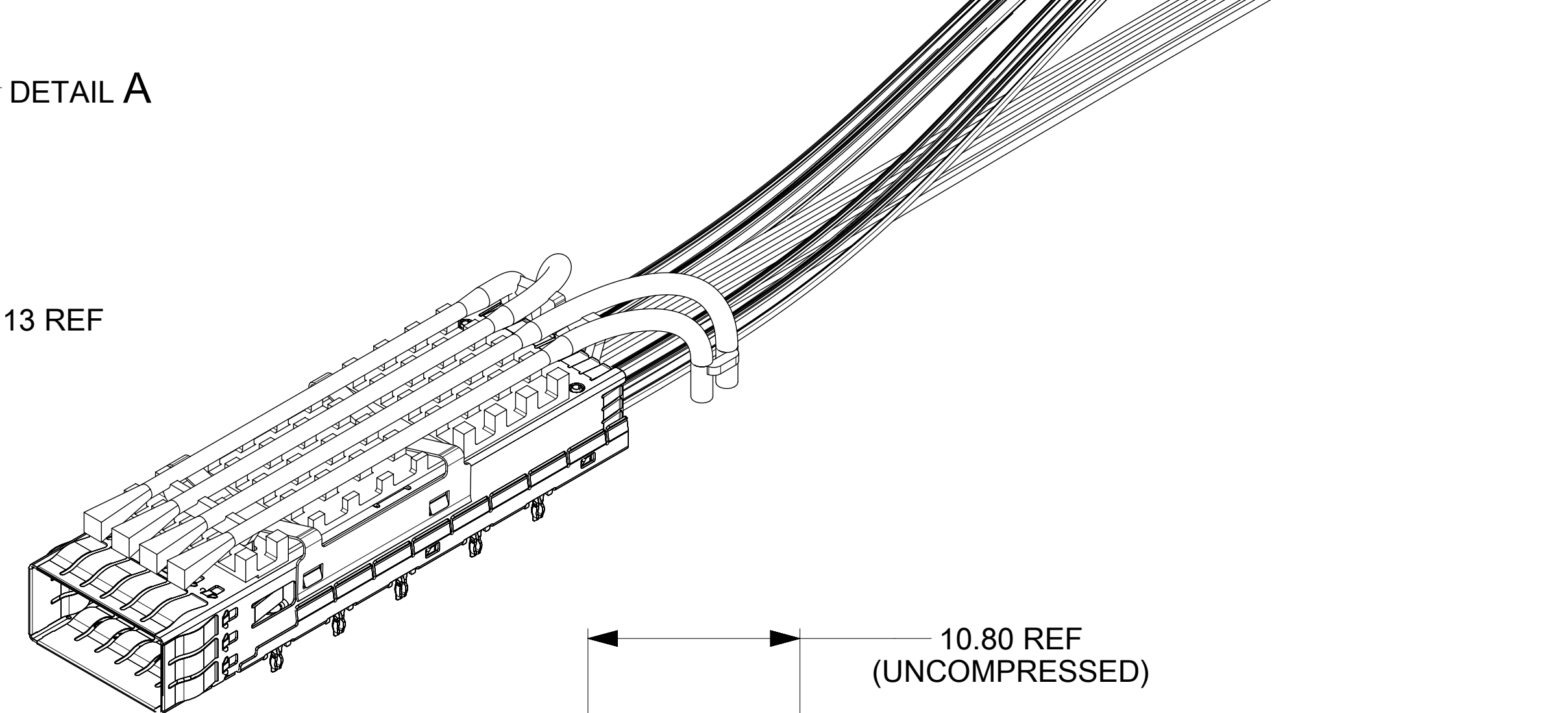
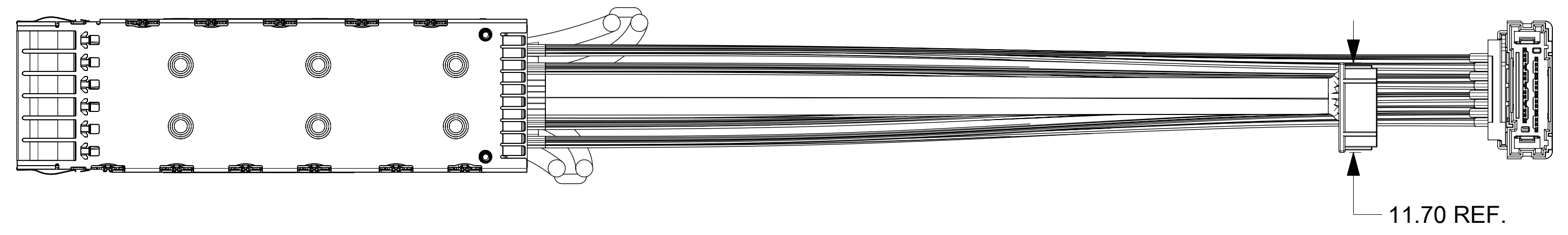
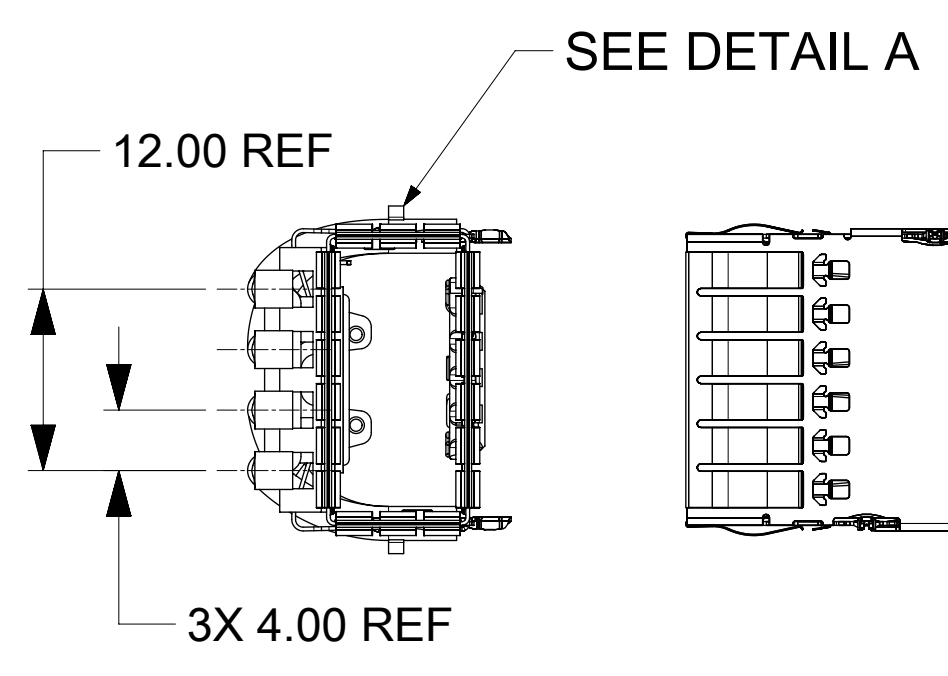
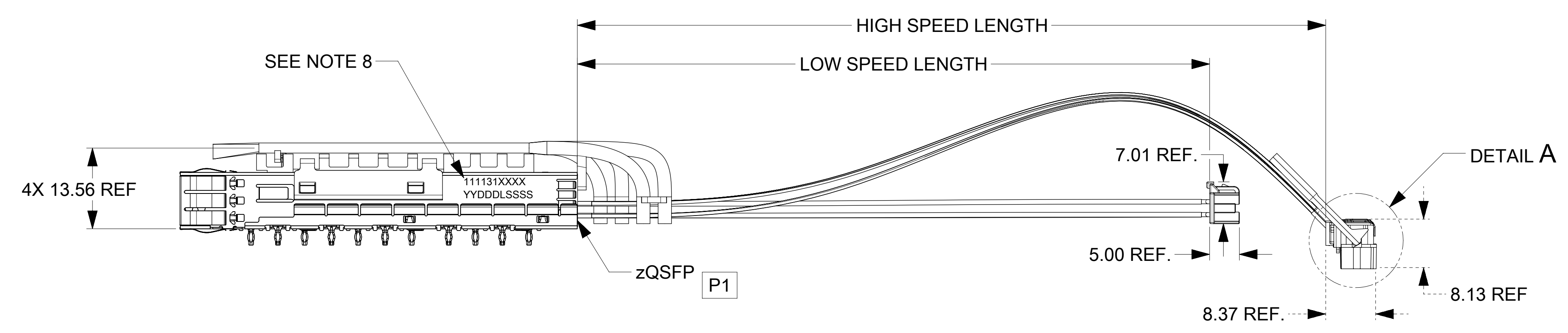
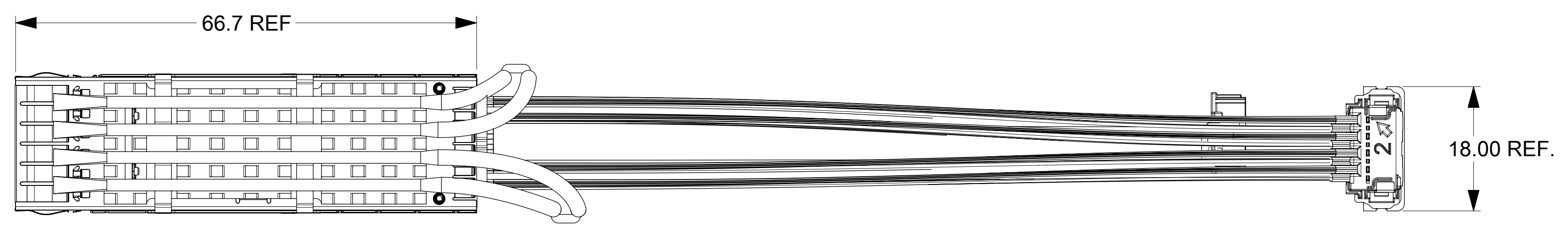
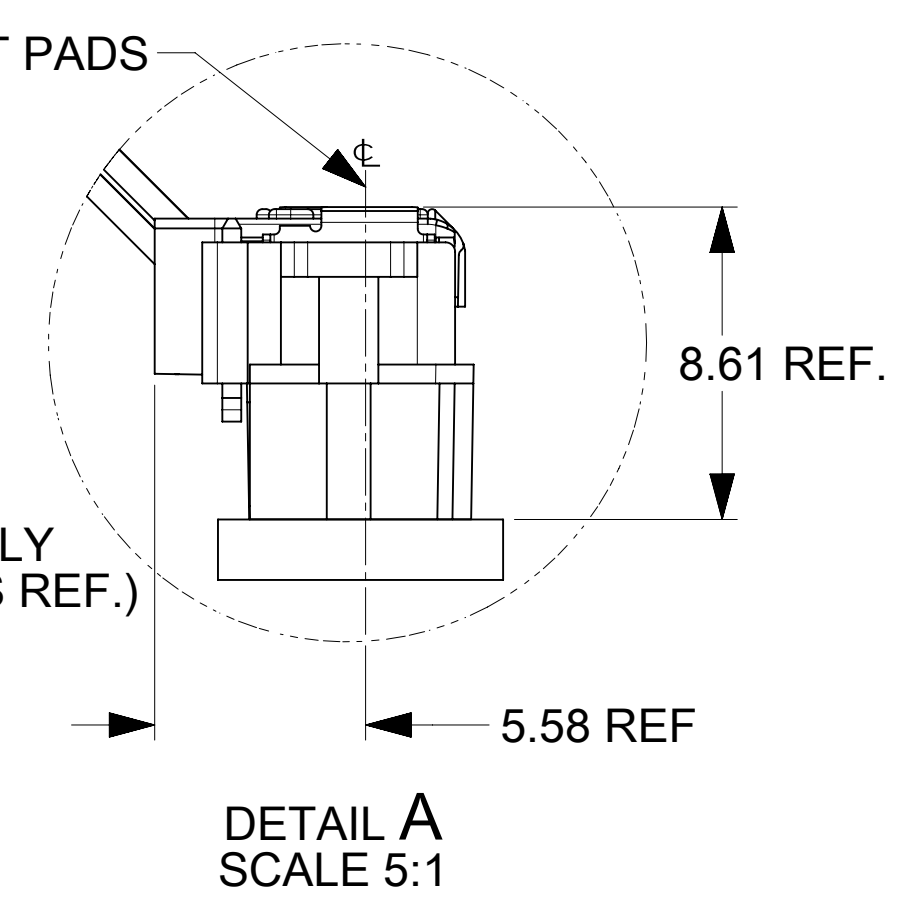


**ENHANCED zQSFP+ 1X1 CAGE TO NEARSTACK (1) PICO-CLASP (1) CABLE ASSEMBLY**



**DETAIL A**  
SCALE 4:1



**NEARSTACK MATED ASSEMBLY**  
(PCB SHOWN AS REF.)

**DETAIL A**  
SCALE 5:1

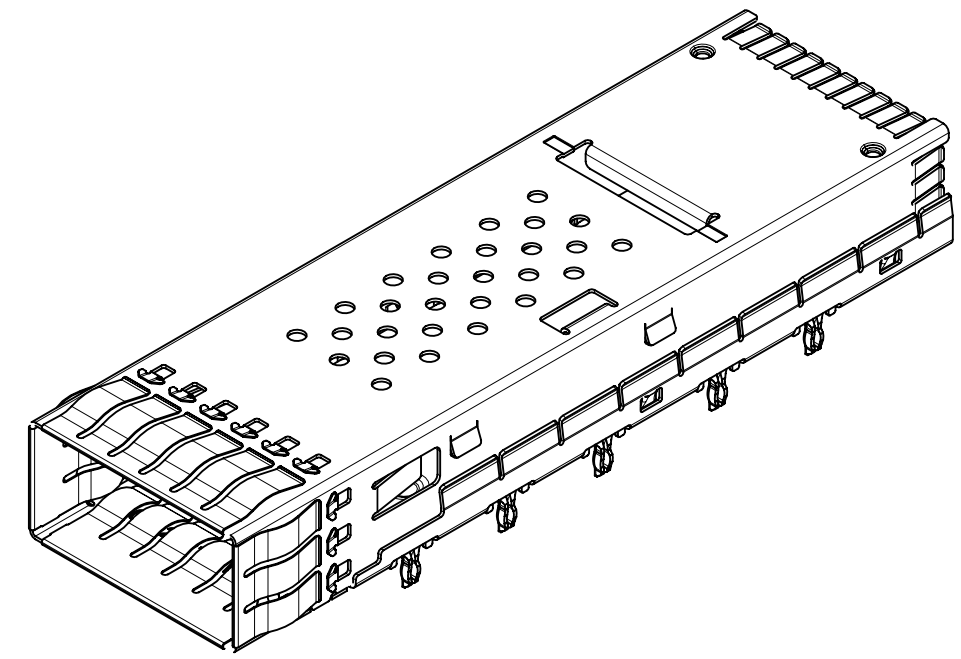
- NOTES:**
- CABLE LENGTH DEPENDS ON WIRE GAUGE, DATA RATE AND HOST BOARD DRIVER CAPABILITIES.
  - MATERIALS:**  
CAGE - STAINLESS STEEL  
HEAT SINK - ALUMINUM  
LIGHT PIPE - TRANSPARENT POLYMER
  - TWINAX CABLE (HIGH SPEED)**  
SHIELD - ALUMINUM/POLYESTER FOIL WRAP  
SIGNAL PAIR - 34AWG SOLID SILVER PLATED COPPER  
DRAIN - 34AWG SOLID SILVER PLATED COPPER  
CONFORMS TO UL VW-1  
IMPEDENCE - 100 OHMS  
COLOR: YELLOW
  - DISCRETE CABLE (LOW SPEED)**  
INSULATION - XLPE  
CONDUCTOR - 28AWG SOLID SILVER PLATED COPPER  
COLOR: BLACK
  - 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.
  - P2: BOTH NEARSTACK RECEPTACLE MOLEX PN 2042731000 (GEN 1.0) OR PN 2042731100 (GEN 2.0). MATES WITH EITHER NEARSTACK PLUG PN 2033162000 (GEN1.0) OR PN 2033162200 (GEN 2.0). P3: MOLEX PN 5011892010 UTILIZING TERMINAL PN 5011939000 (GOLD PLATED ON CRIMP BARREL) MATES WITH PN 5011902017.**
  - RoHS COMPLIANT. NO EXEMPTIONS.
  - MARK WITH PART NUMBER SERIAL NUMBER  
PART NUMBER: SEE PART NUMBER TABLE  
SERIAL NUMBER:  
YY - YEAR  
DDD - DAY OF THE YEAR  
L - MANUFACTURE LOCATION  
SSSS - SERIAL NUMBER (0001-9999)

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	
	DIMENSION UNITS	SCALE		
▽ = 0	mm	2:1		
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			
▽ = 0	ANGULAR TOL	±		
▽ = 0	4 PLACES	±		
▽ = 0	3 PLACES	±		
▽ = 0	2 PLACES	±		
▽ = 0	1 PLACE	±		
▽ = 0	0 PLACES	±		
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING SERIES
▽ = 0			D-SIZE	111131
			EC NO: 691051	2020/02/20
			DRWN: ZDANDURAND	2022/01/14
			CHK'D: BCHEN06	2022/01/14
			APPR: BCHEN06	2022/01/14
			INITIAL REVISION:	
			DRWN: RWHIPPLE	2017/08/09
			APPR: JALEXANDER	2017/10/05
DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
1111310799		PSD	000	H
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
1111310799		GENERAL MARKET		1 OF 17

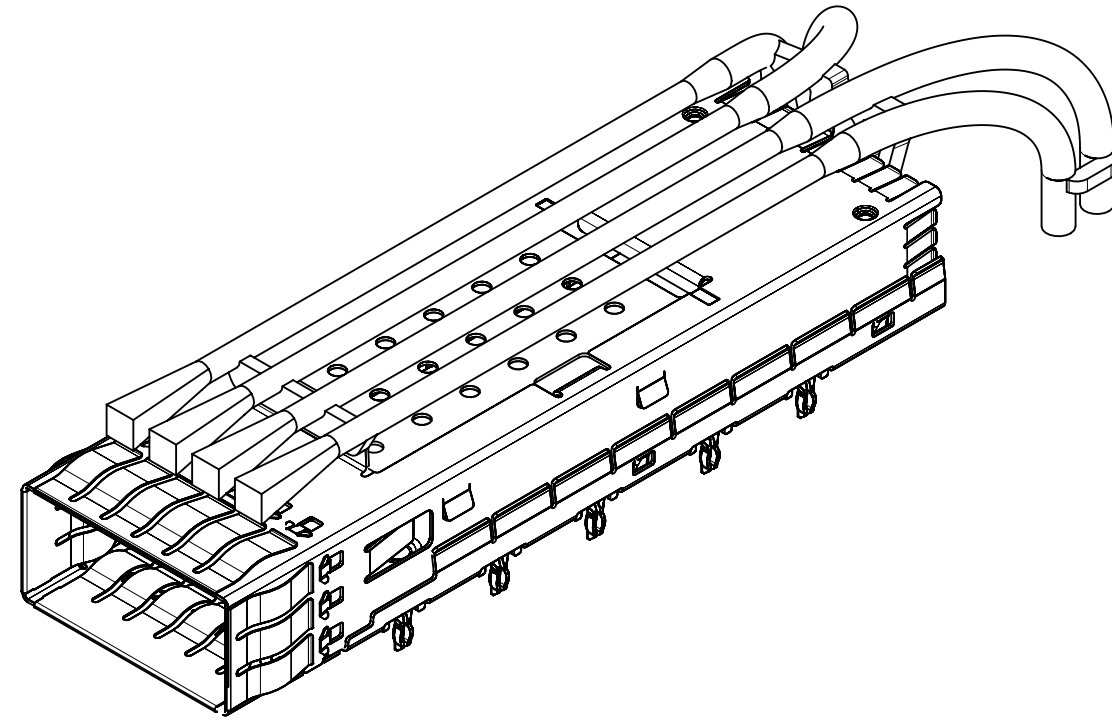
DOCUMENT STATUS	P1	RELEASE DATE	2022/01/14	21:04:26
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# zQSFP BiPASS 1 X 1 CAGE ASSEMBLY

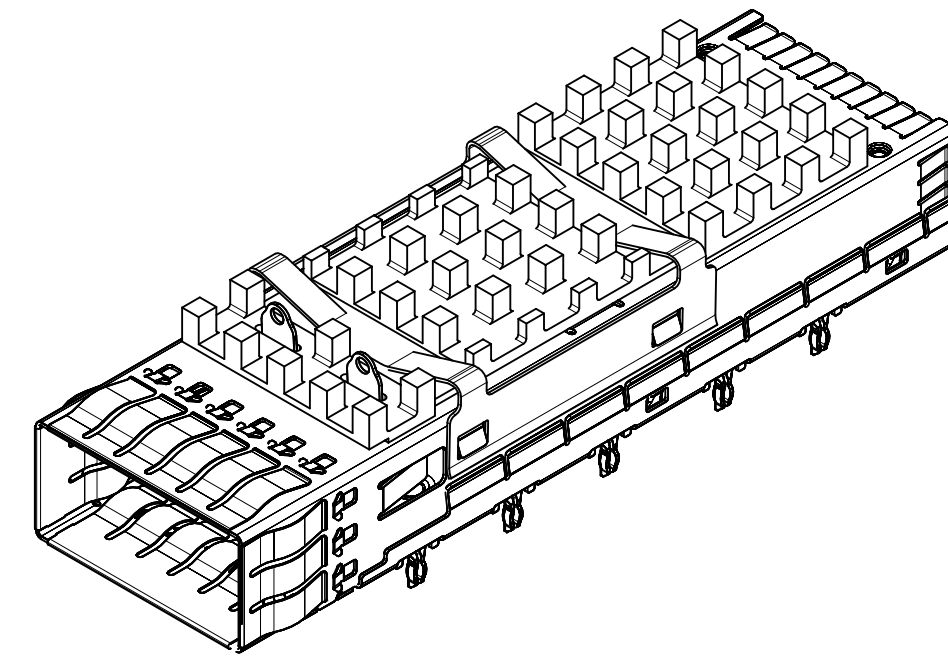
NOTE: ALL LENGTHS ±5.0mm



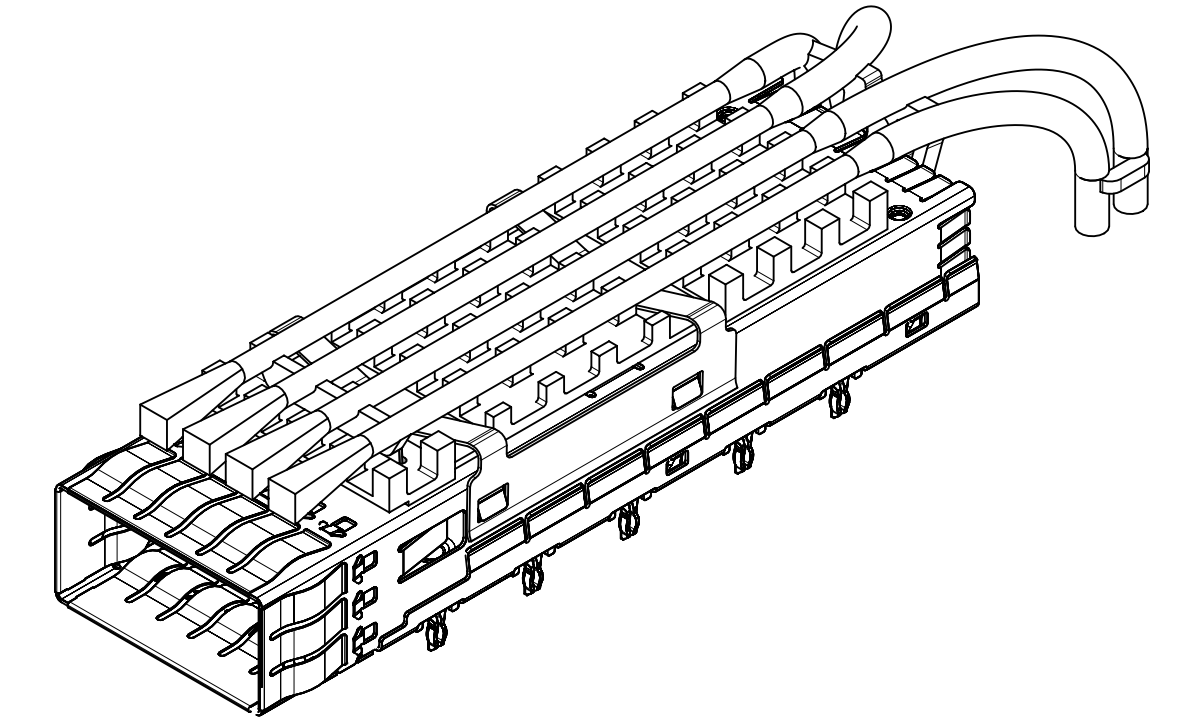
CLOSED TOP



CLOSE TOP WITH LIGHTPIPE



OPEN TOP WITH HEAT SINK



OPEN TOP WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111311920	75	150
1111311921	75	200
1111311922	75	300
1111311923	75	400
1111311924	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111311930	75	150
1111311931	75	200
1111311932	75	300
1111311933	75	400
1111311934	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111311940	75	150
1111311941	75	200
1111311942	75	300
1111311945	75	350
1111311943	75	400
1111311944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111311911	75	150
1111311912	75	200
1111311913	75	300
1111311914	75	400
1111311915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111311960	75	150
1111311961	75	200
1111311962	75	300
1111311963	75	400
1111311964	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111311970	75	150
1111311971	75	200
1111311972	75	300
1111311973	75	400
1111311974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111311980	75	150
1111311981	75	200
1111311982	75	300
1111311983	75	400
1111311984	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

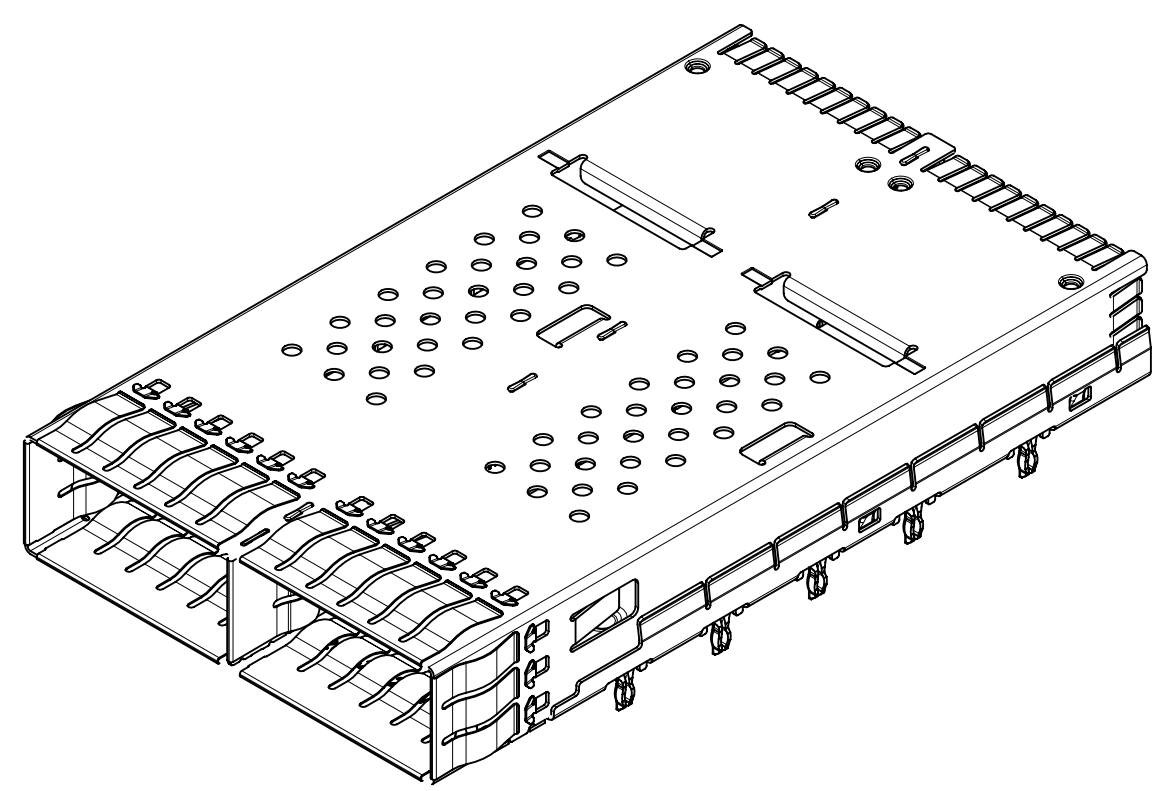
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111311950	75	150
1111311951	75	200
1111311952	75	300
1111311953	75	400
1111311954	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

<b>SYMBOLS</b> ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 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: <b>mm</b> SCALE: <b>2:1</b> CURRENT REV DESC: EC NO: 691051 DRWN: ZDANDURAND      2020/02/20 CHK'D: BCHEN06      2022/01/14 APPR: BCHEN06      2022/01/14 INITIAL REVISION: DRWN: RWHIPPLE      2017/08/09 APPR: JALEXANDER      2017/10/05 DRAFT WHERE APPLICABLE      THIRD ANGLE PROJECTION      DRAWING      SERIES MUST REMAIN      WITHIN DIMENSIONS <b>D-SIZE</b> 111131	<b>molex</b>
		ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: <b>1111310799</b> DOC TYPE: PSD      DOC PART: 000      REVISION: H
DOCUMENT STATUS: P1      RELEASE DATE: 2022/01/14      21:04:26	MATERIAL NUMBER: 1111310799      CUSTOMER: GENERAL MARKET      SHEET NUMBER: 2 OF 17	

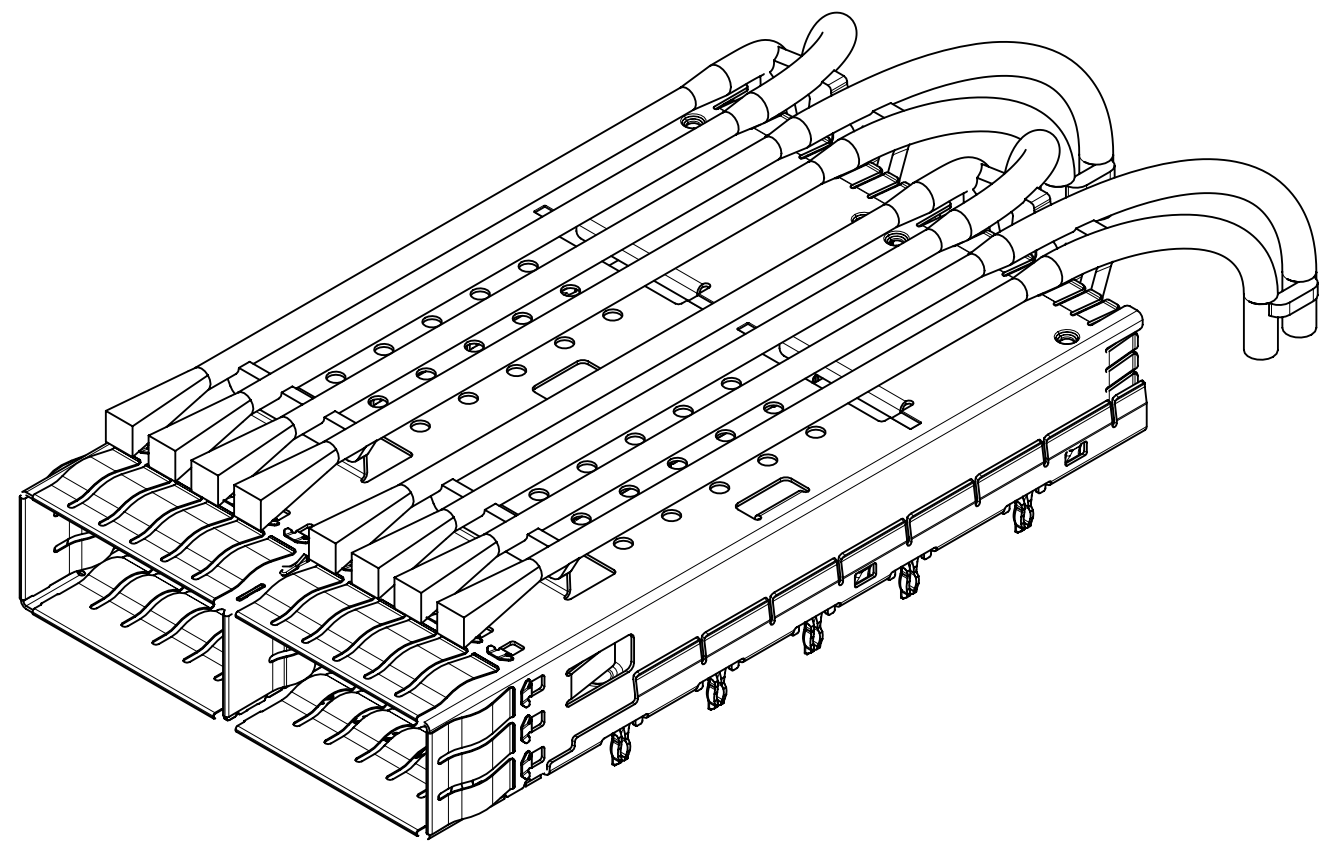
# zQSFP BiPASS 1 X 2 CAGE ASSEMBLY

NOTE: ALL LENGTHS ±5.0mm



CLOSED TOP

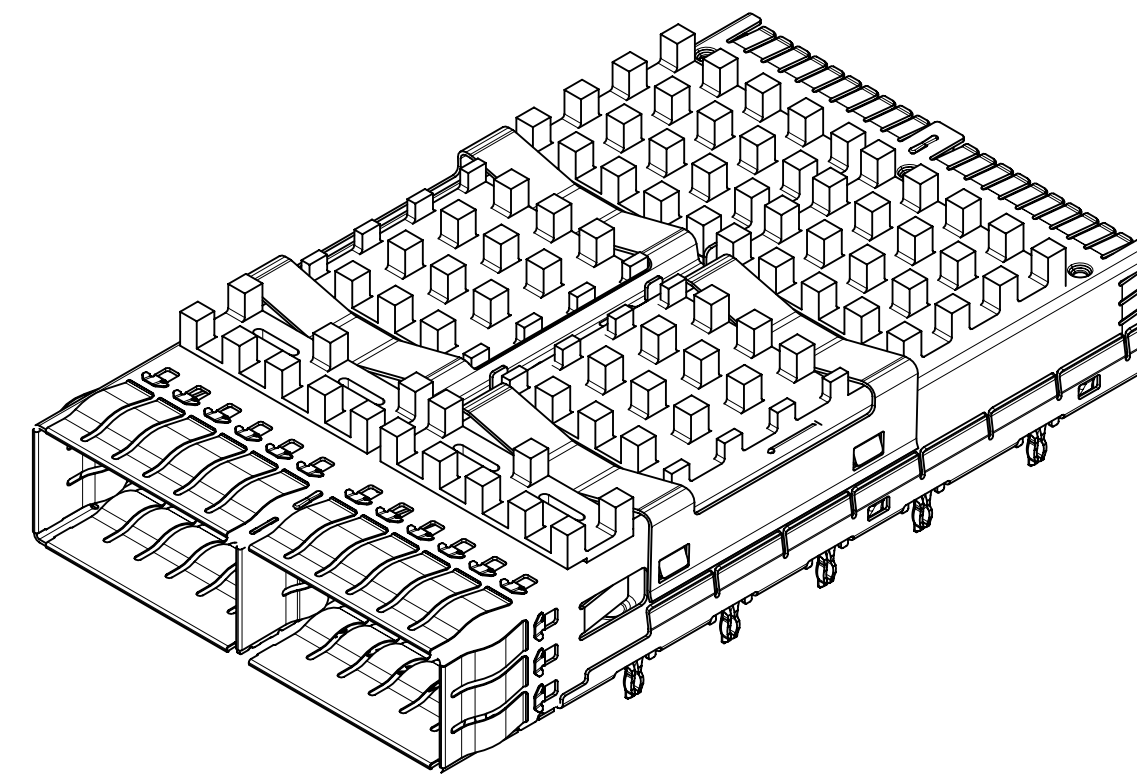
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111313011	75	150
1111313012	75	200
1111313013	75	300
1111313014	75	400
1111313015	75	500
1111313016	75	210



CLOSED TOP WITH LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111312930	75	150
1111312931	75	200
1111312932	75	300
1111312933	75	400
1111312934	75	500

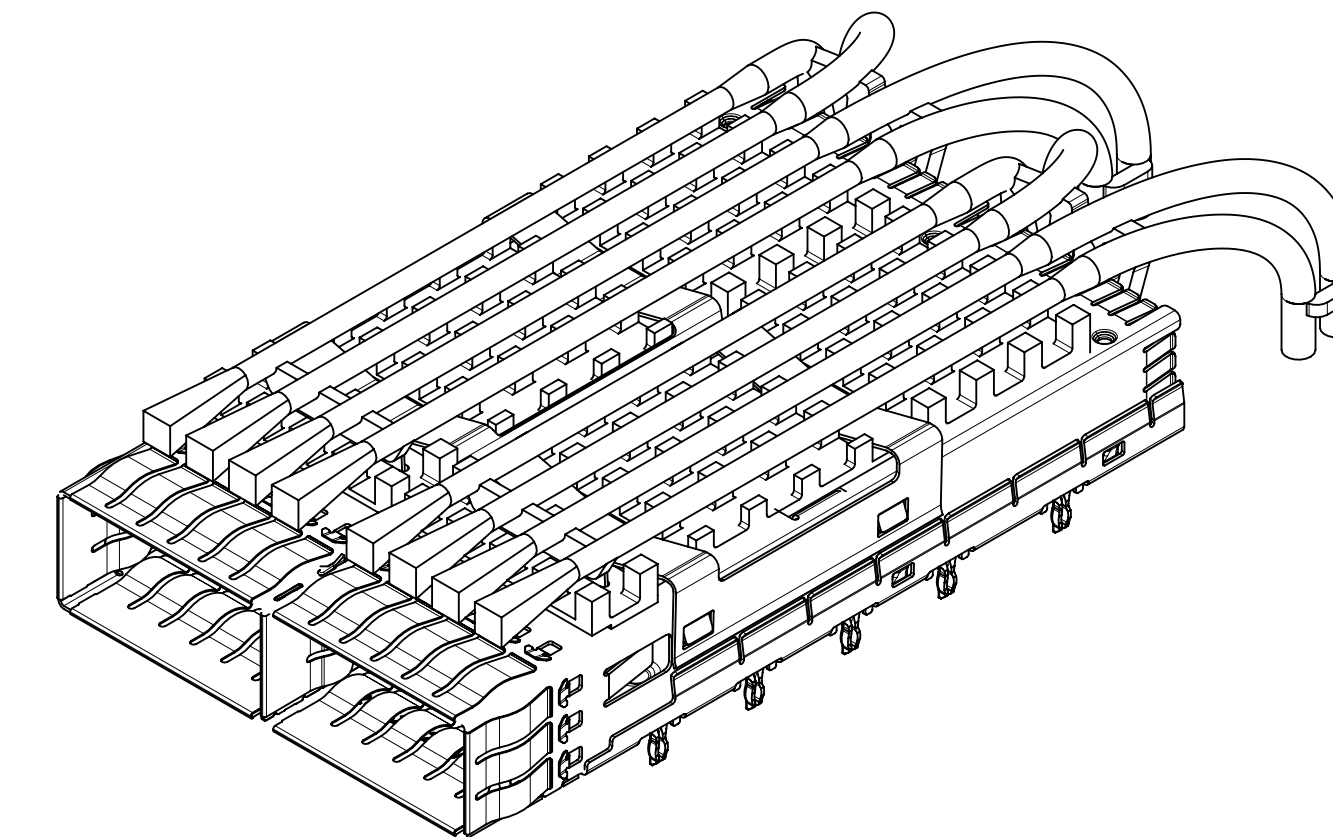
\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS



OPEN TOP WITH HEAT SINK

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111312940	75	150
1111312941	75	200
1111312942	75	300
1111312943	75	400
1111312944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS



OPEN TOP WITH WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111312911	75	150
1111312912	75	200
1111312913	75	300
1111312914	75	400
1111312915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111313060	75	150
1111313061	75	200
1111313062	75	300
1111313063	75	400
1111313064	75	500
1111313065	75	210

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111312970	75	150
1111312971	75	200
1111312972	75	300
1111312973	75	400
1111312974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111312980	75	150
1111312981	75	200
1111312982	75	300
1111312983	75	400
1111312984	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

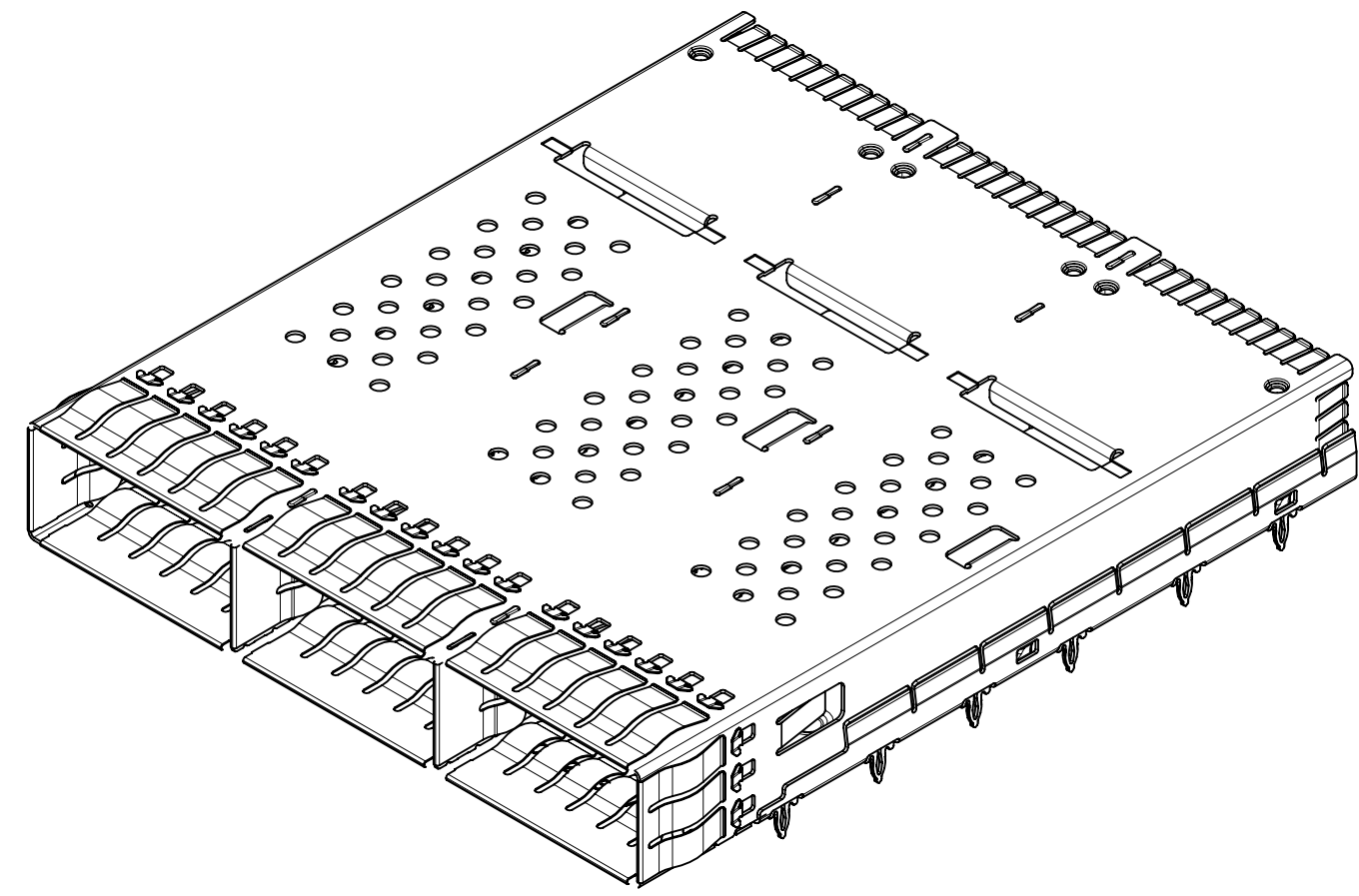
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111312950	75	150
1111312951	75	200
1111312952	75	300
1111312953	75	400
1111312954	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

<b>SYMBOLS</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>mm</b> SCALE: <b>2:1</b>	CURRENT REV DESC:  EC NO: 691051 DRWN: ZDANDURAND      2020/02/20 CHK'D: BCHEN06      2022/01/14 APPR: BCHEN06      2022/01/14 INITIAL REVISION: DRWN: RWHIPPLE      2017/08/09 APPR: JALEXANDER      2017/10/05
▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL    ±    ° 4 PLACES      ± 3 PLACES      ± 2 PLACES      ± 1 PLACE        ± 0 PLACES       ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP  PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: <b>1111310799</b> DOC TYPE: PSD      DOC PART: 000      REVISION: H MATERIAL NUMBER: 1111310799      CUSTOMER: GENERAL MARKET      SHEET NUMBER: 3 OF 17

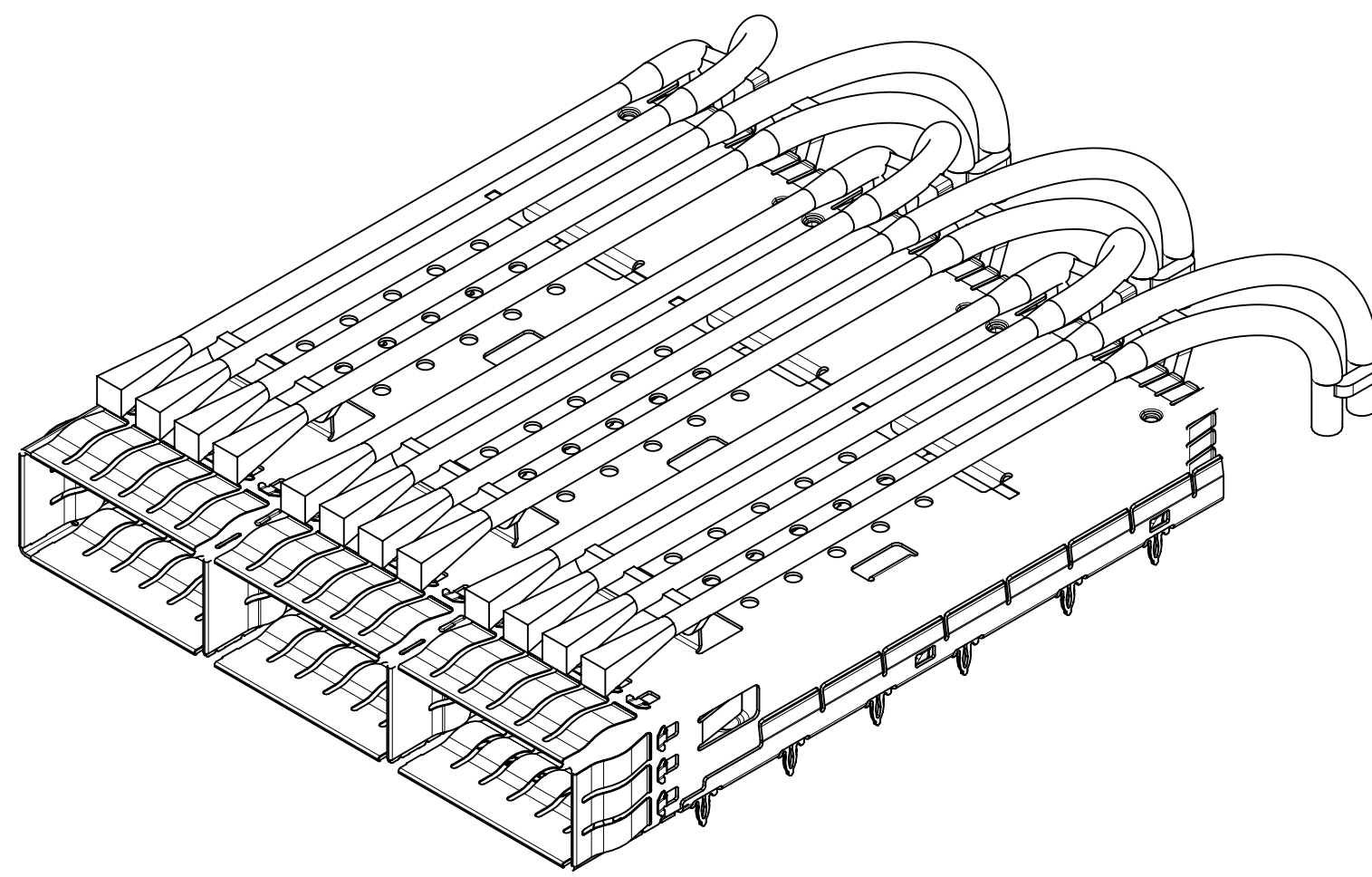
# zQSFP BiPASS 1 X 3 CAGE ASSEMBLY

NOTE: ALL LENGTHS ±5.0mm



CLOSE TOP

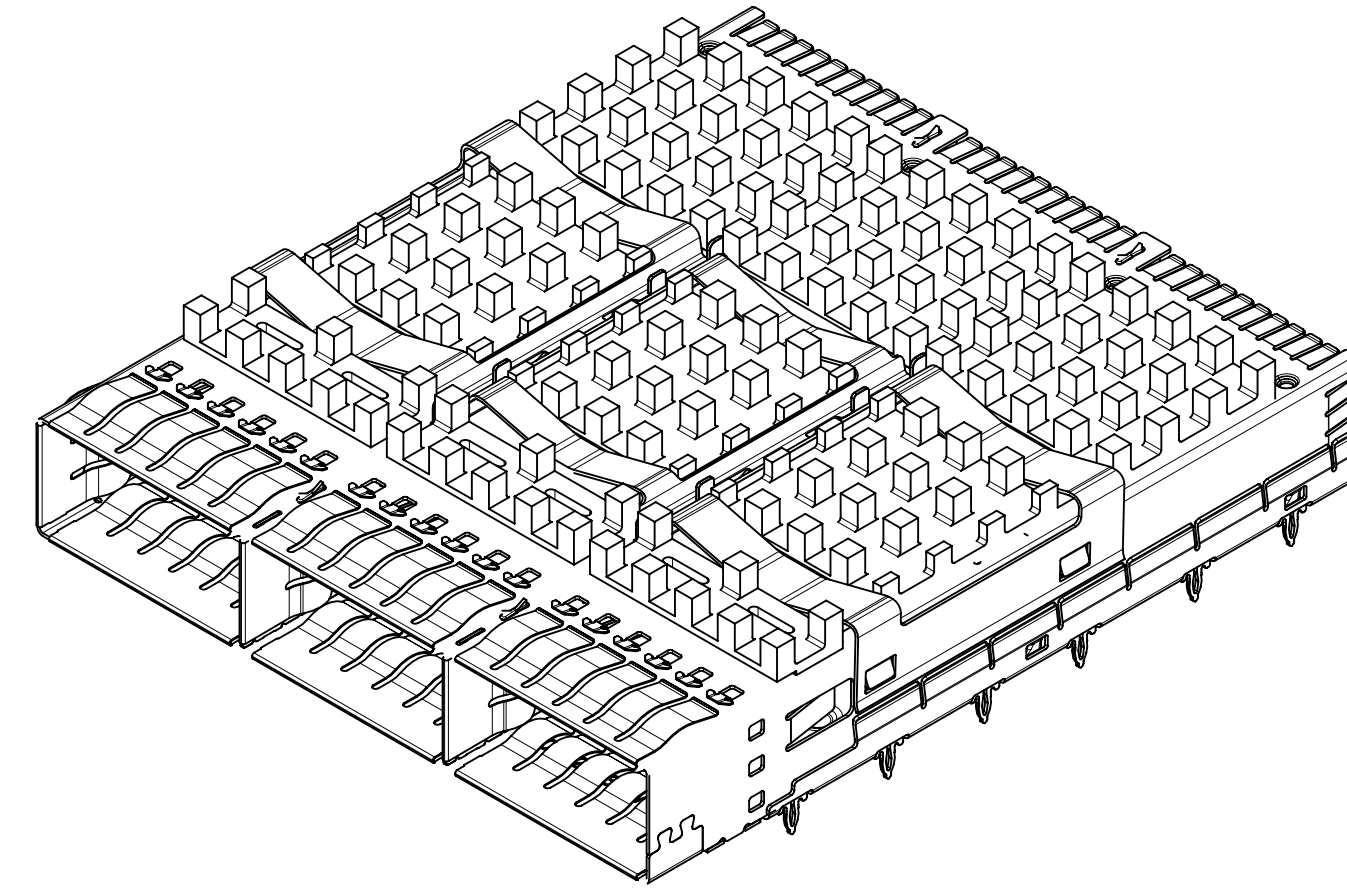
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111313920	75	150
1111313921	75	200
1111313922	75	300
1111313923	75	400
1111313924	75	500



CLOSE TOP WITH LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111313930	75	150
1111313931	75	200
1111313932	75	300
1111313933	75	400
1111313934	75	500

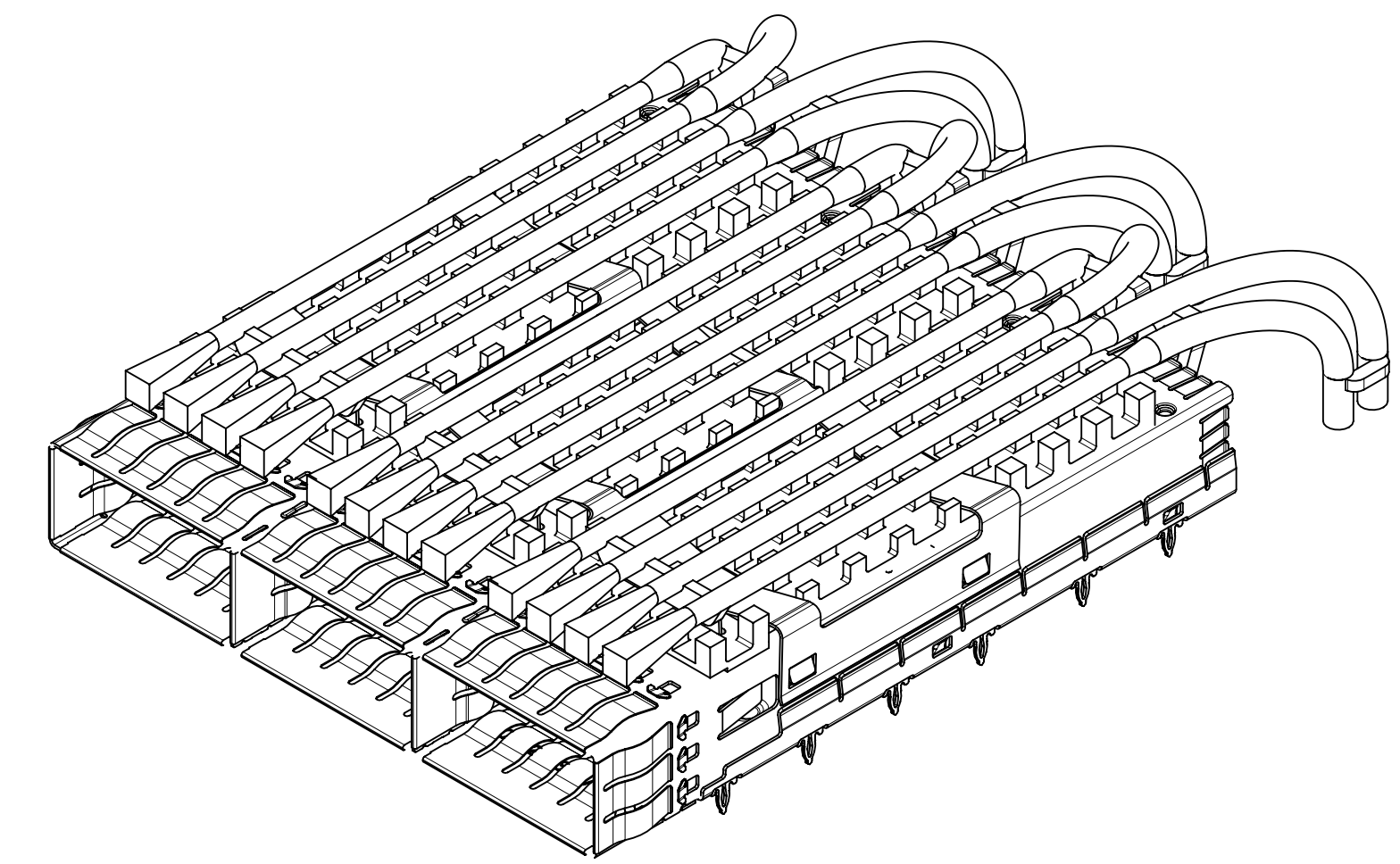
\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS



OPEN TOP WITH HEAT SINK

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111313940	75	150
1111313941	75	200
1111313942	75	300
1111313943	75	400
1111313944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS



OPEN TOP WITH WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111313911	75	150
1111313912	75	200
1111313913	75	300
1111313914	75	400
1111313915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111313960	75	150
1111313961	75	200
1111313962	75	300
1111313963	75	400
1111313964	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111313970	75	150
1111313971	75	200
1111313972	75	300
1111313973	75	400
1111313974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111313980	75	150
1111313981	75	200
1111313982	75	300
1111313983	75	400
1111313984	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

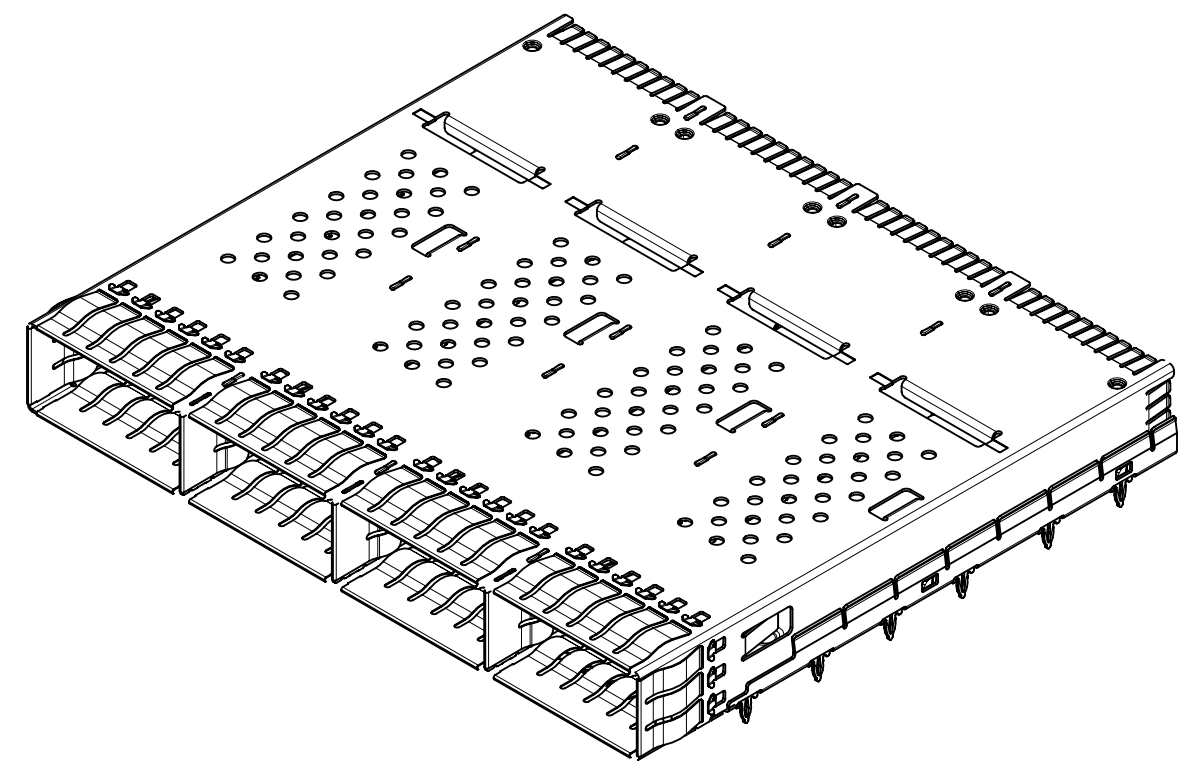
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111313950	75	150
1111313951	75	200
1111313952	75	300
1111313953	75	400
1111313954	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

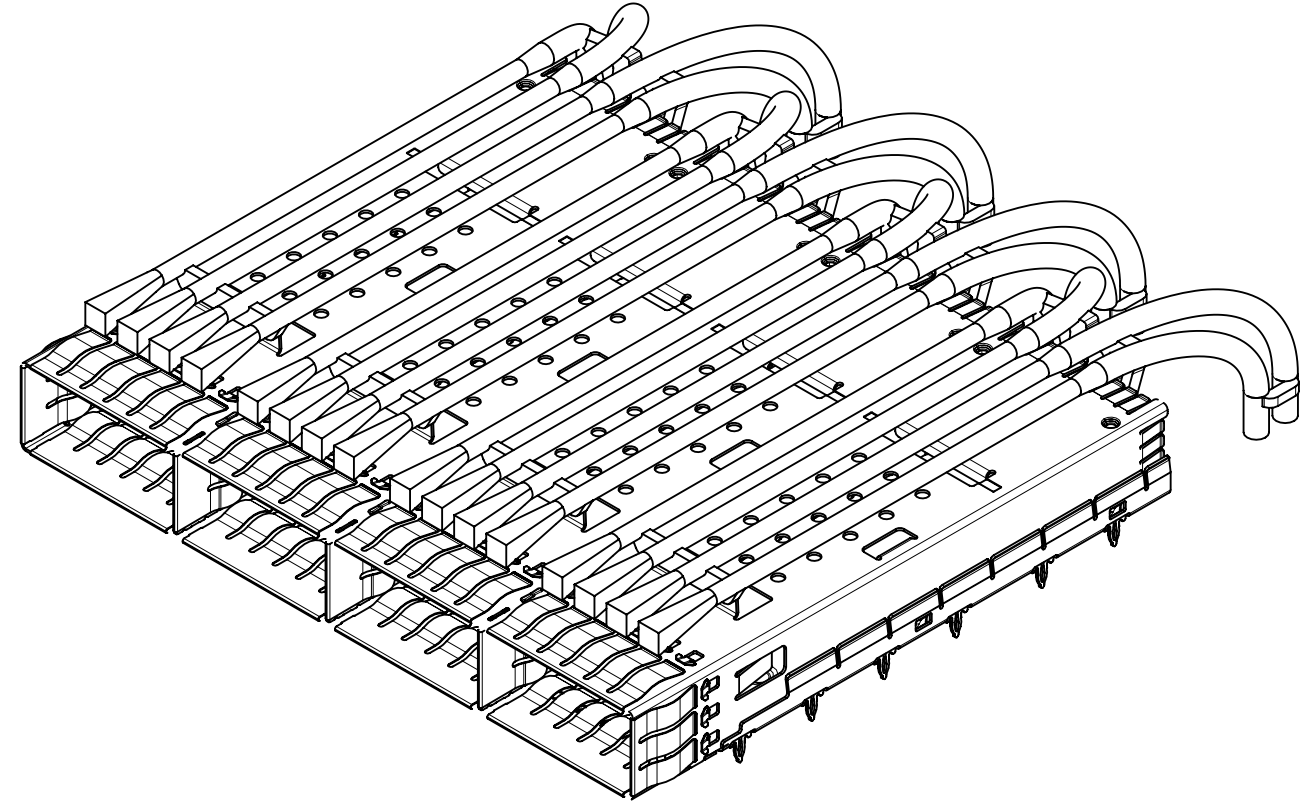
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	<b>molex</b>
	DIMENSION UNITS	SCALE		
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▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ZDANDURAND 2020/02/20	
▽ = 0	ANGULAR TOL ± °		CHK'D: BCHEN06 2022/01/14	DOCUMENT NUMBER
▽ = 0	4 PLACES ±		APPR: BCHEN06 2022/01/14	
▽ = 0	3 PLACES ±		INITIAL REVISION:	DOC PART
▽ = 0	2 PLACES ±		DRWN: RWHIPPLE 2017/08/09	
▽ = 0	1 PLACE ±		APPR: JALEXANDER 2017/10/05	1111310799
▽ = 0	0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	PSD
□ = 0	THIRD ANGLE PROJECTION	DRAWING	SERIES	000
■ = 0				H
▽ = 0				
D-DRAWING			MATERIAL NUMBER	CUSTOMER
D-SIZE			111131	GENERAL MARKET
			1111310799	SHEET NUMBER
				4 OF 17

# zQSFP BiPASS 1X 4 CAGE ASSEMBLY

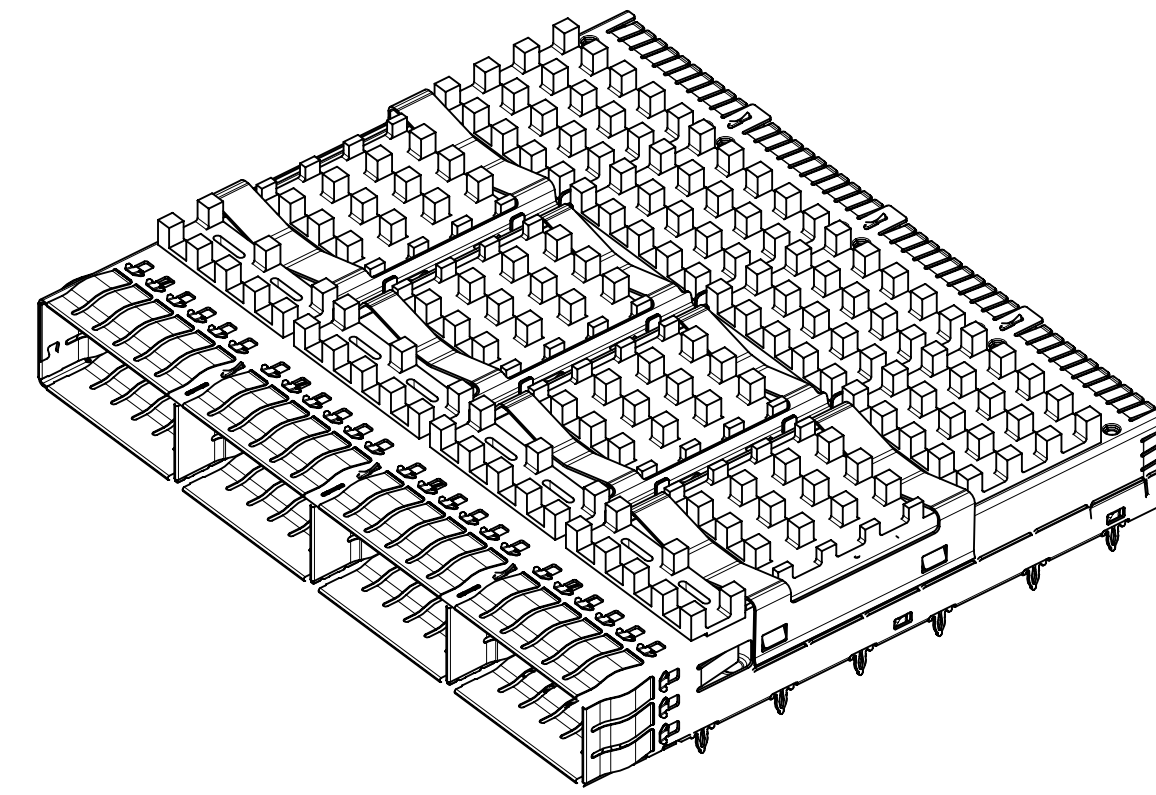
NOTE: ALL LENGTHS ±5.0mm



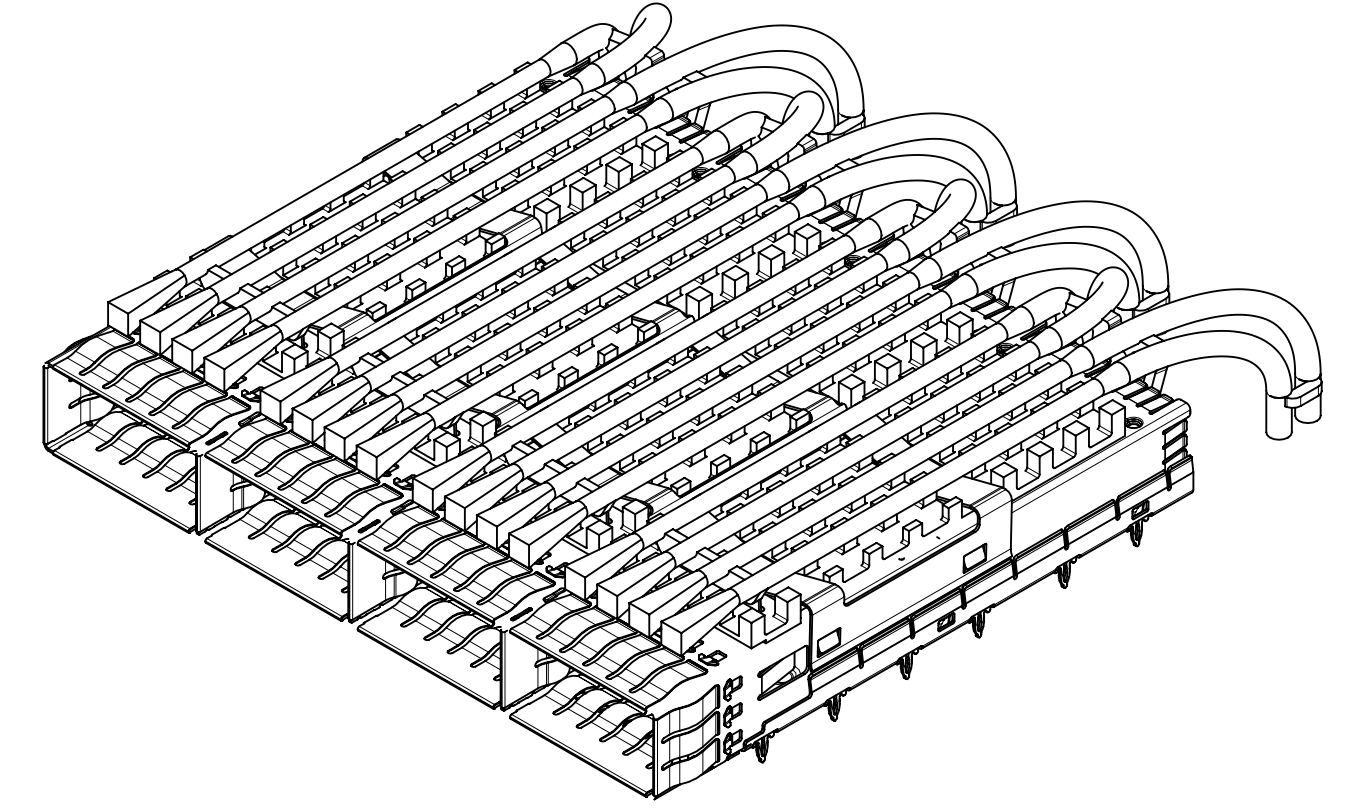
CLOSE TOP



CLOSE TOP WITH LIGHTPIPE



OPEN TOP WITH HEAT SINK



OPEN TOP WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111314920	75	150
1111314921	75	200
1111314922	75	300
1111314923	75	400
1111314924	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111314930	75	150
1111314931	75	200
1111314932	75	300
1111314933	75	400
1111314934	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111314940	75	150
1111314941	75	200
1111314942	75	300
1111314943	75	400
1111314944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111314911	75	150
1111314912	75	200
1111314913	75	300
1111314914	75	400
1111314915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111314960	75	150
1111314961	75	200
1111314962	75	300
1111314963	75	400
1111314964	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111314970	75	150
1111314971	75	200
1111314972	75	300
1111314973	75	400
1111314974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111314980	75	150
1111314981	75	200
1111314982	75	300
1111314983	75	400
1111314984	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

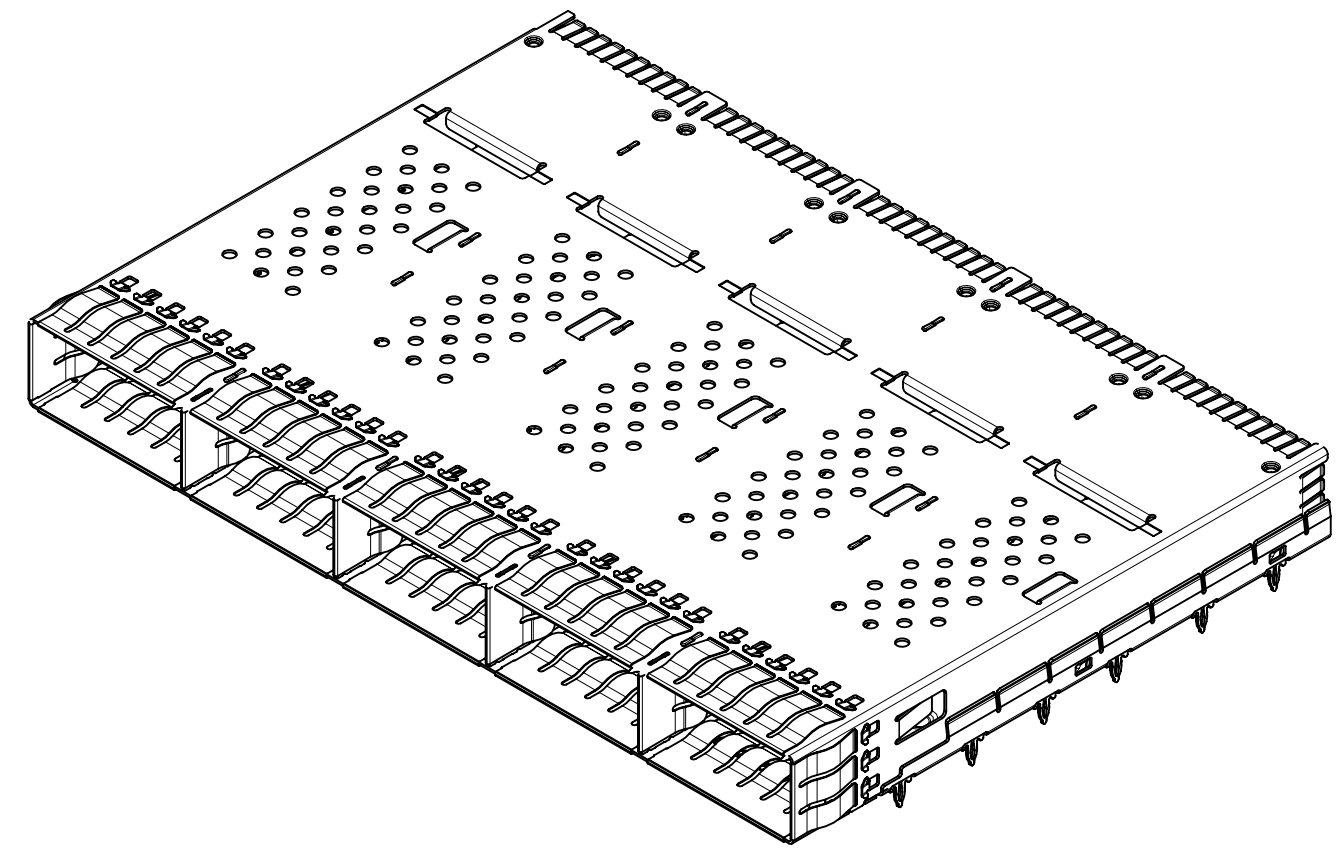
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111314950	75	150
1111314951	75	200
1111314952	75	300
1111314953	75	400
1111314954	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

<b>SYMBOLS</b> ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 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: <b>mm</b> SCALE: <b>2:1</b> GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CURRENT REV DESC: EC NO: 691051 DRWN: ZDANDURAND    2020/02/20 CHK'D: BCHEN06    2022/01/14 APPR: BCHEN06    2022/01/14 INITIAL REVISION: DRWN: RWHIPPLE    2017/08/09 APPR: JALEXANDER    2017/10/05 THIRD ANGLE PROJECTION D-SIZE    111131	 ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: <b>1111310799</b> DOC TYPE: PSD    DOC PART: 000    REVISION: H MATERIAL NUMBER: 1111310799    CUSTOMER: GENERAL MARKET    SHEET NUMBER: 5 OF 17
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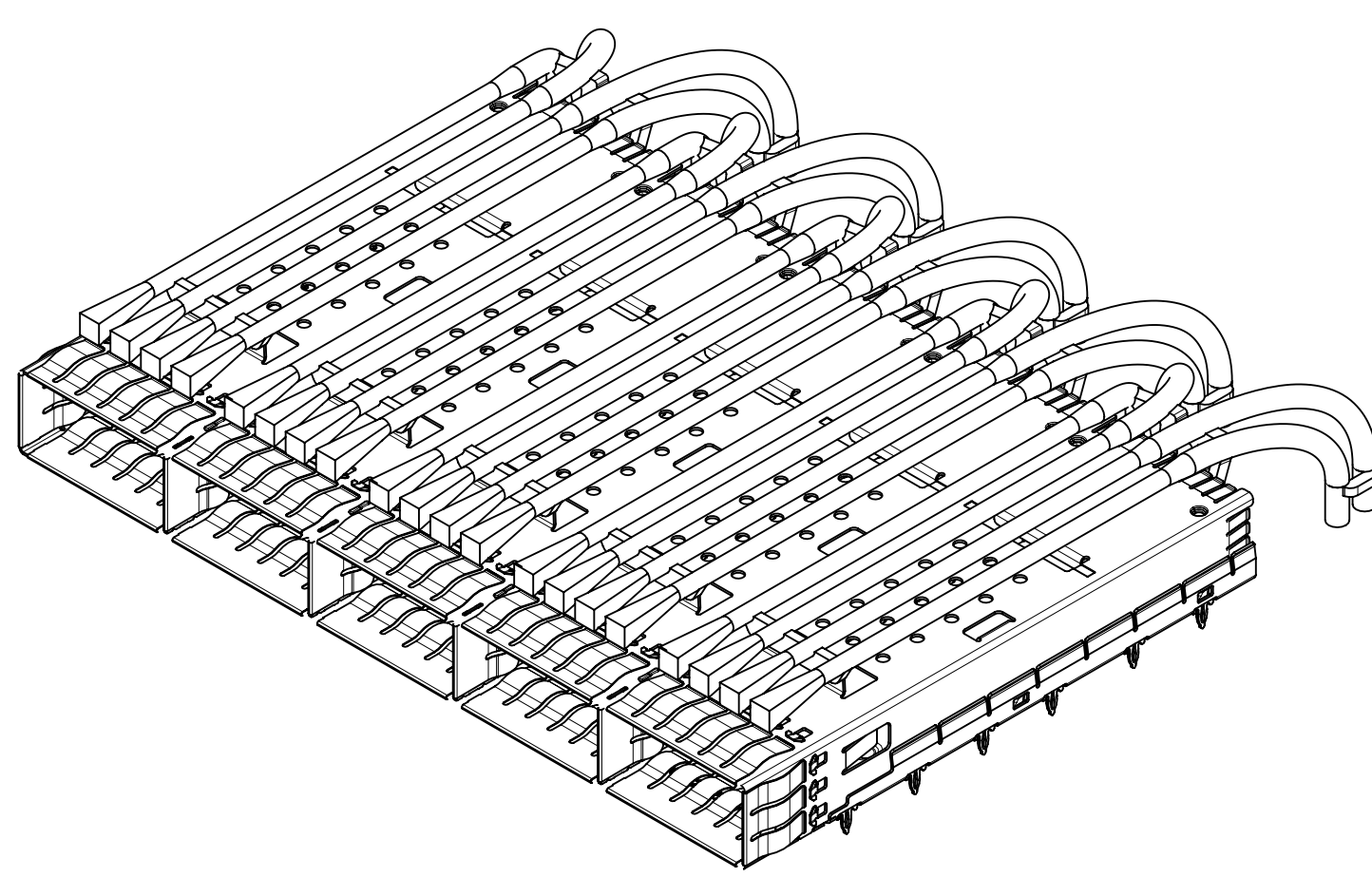
# zQSFP BiPASS 1 X 5 CAGE ASSEMBLY

NOTE: ALL LENGTHS ±5.0mm



CLOSE TOP

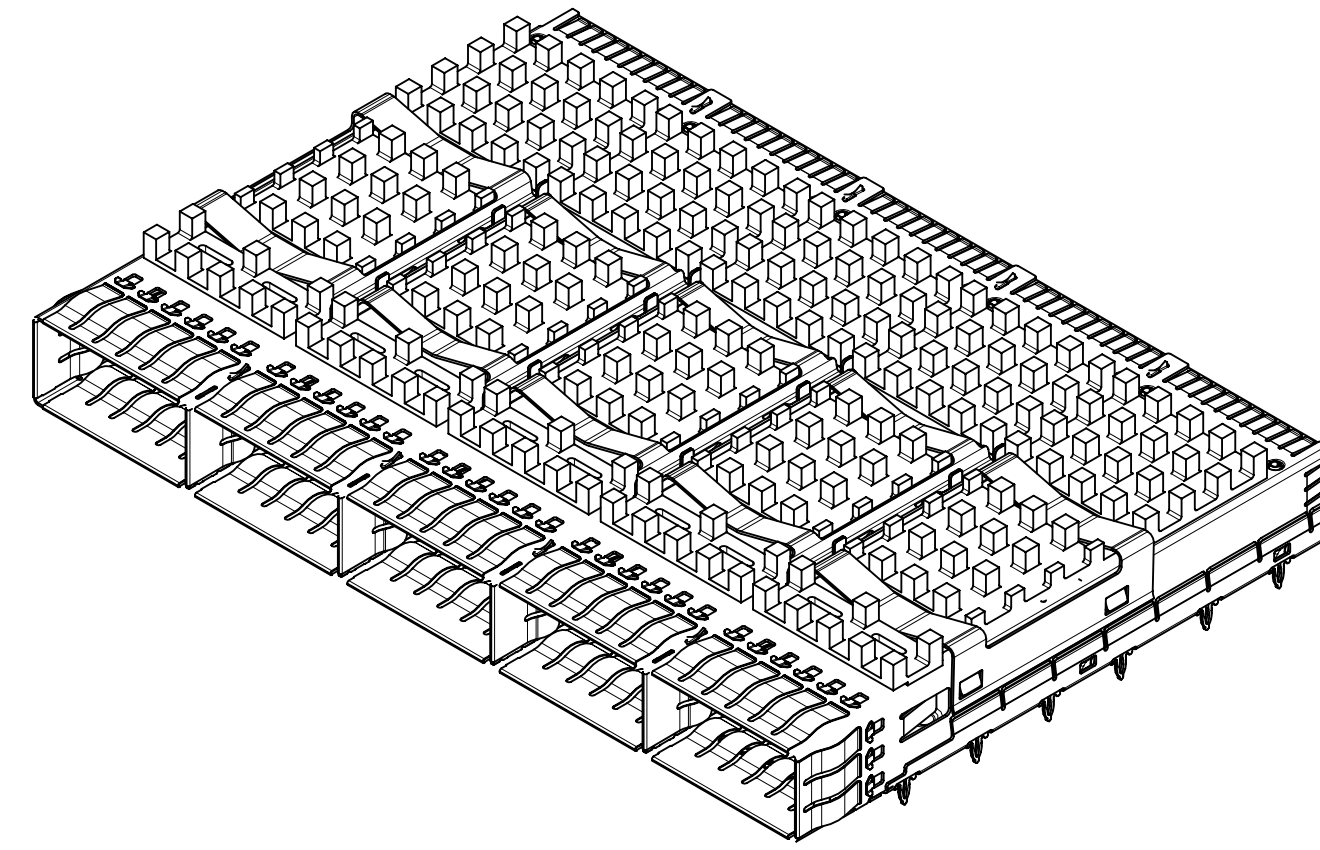
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111315920	75	150
1111315921	75	200
1111315922	75	300
1111315923	75	400
1111315924	75	500



CLOSE TOP WITH LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111315930	75	150
1111315931	75	200
1111315932	75	300
1111315933	75	400
1111315934	75	500

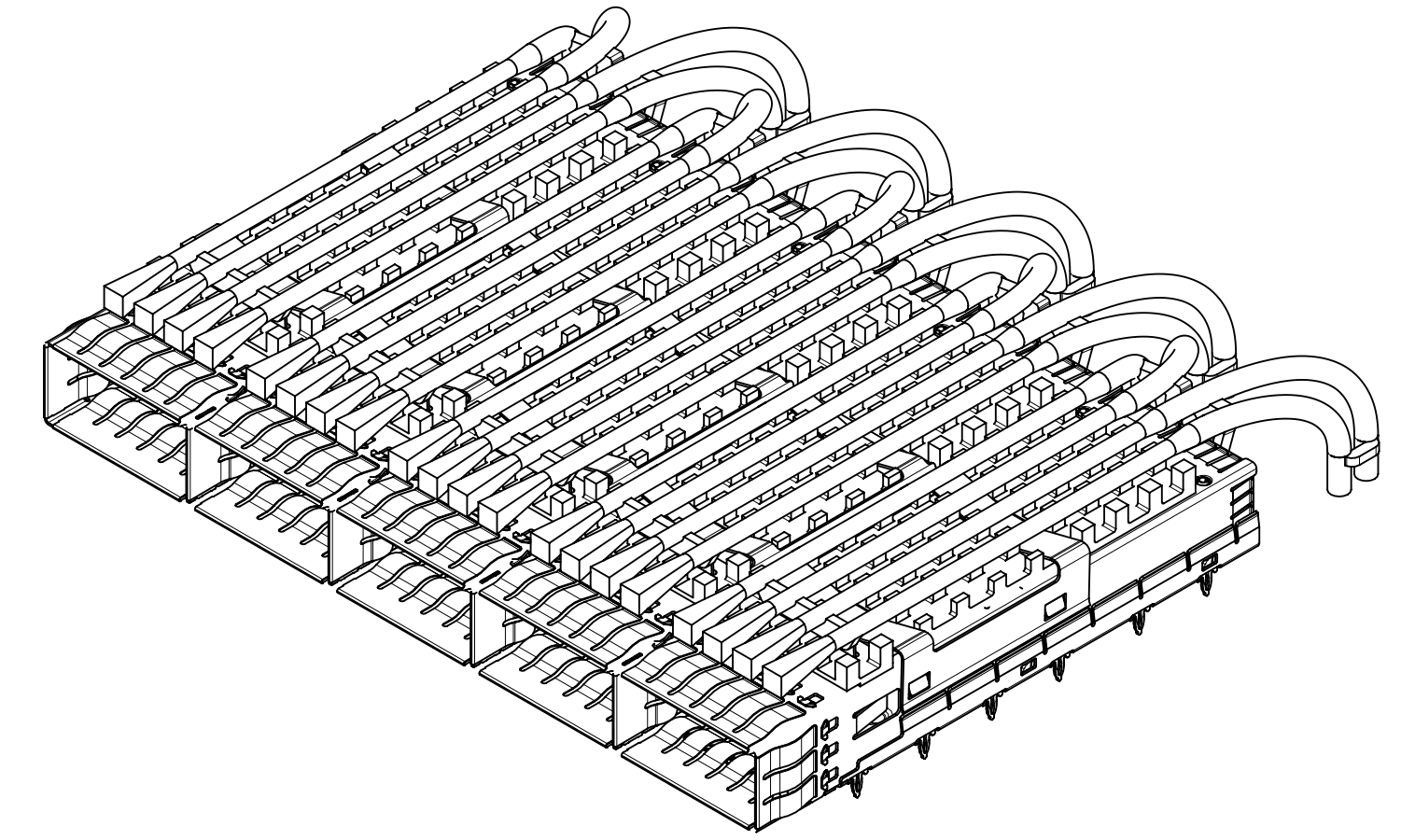
\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS



OPEN TOP WITH HEAT SINK

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111315940	75	150
1111315941	75	200
1111315942	75	300
1111315943	75	400
1111315944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS



OPEN TOP WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111315911	75	150
1111315912	75	200
1111315913	75	300
1111315914	75	400
1111315915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111315960	75	150
1111315961	75	200
1111315962	75	300
1111315963	75	400
1111315964	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111315970	75	150
1111315971	75	200
1111315972	75	300
1111315973	75	400
1111315974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111315980	75	150
1111315981	75	200
1111315982	75	300
1111315983	75	400
1111315984	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111315950	75	150
1111315951	75	200
1111315952	75	300
1111315953	75	400
1111315954	75	500

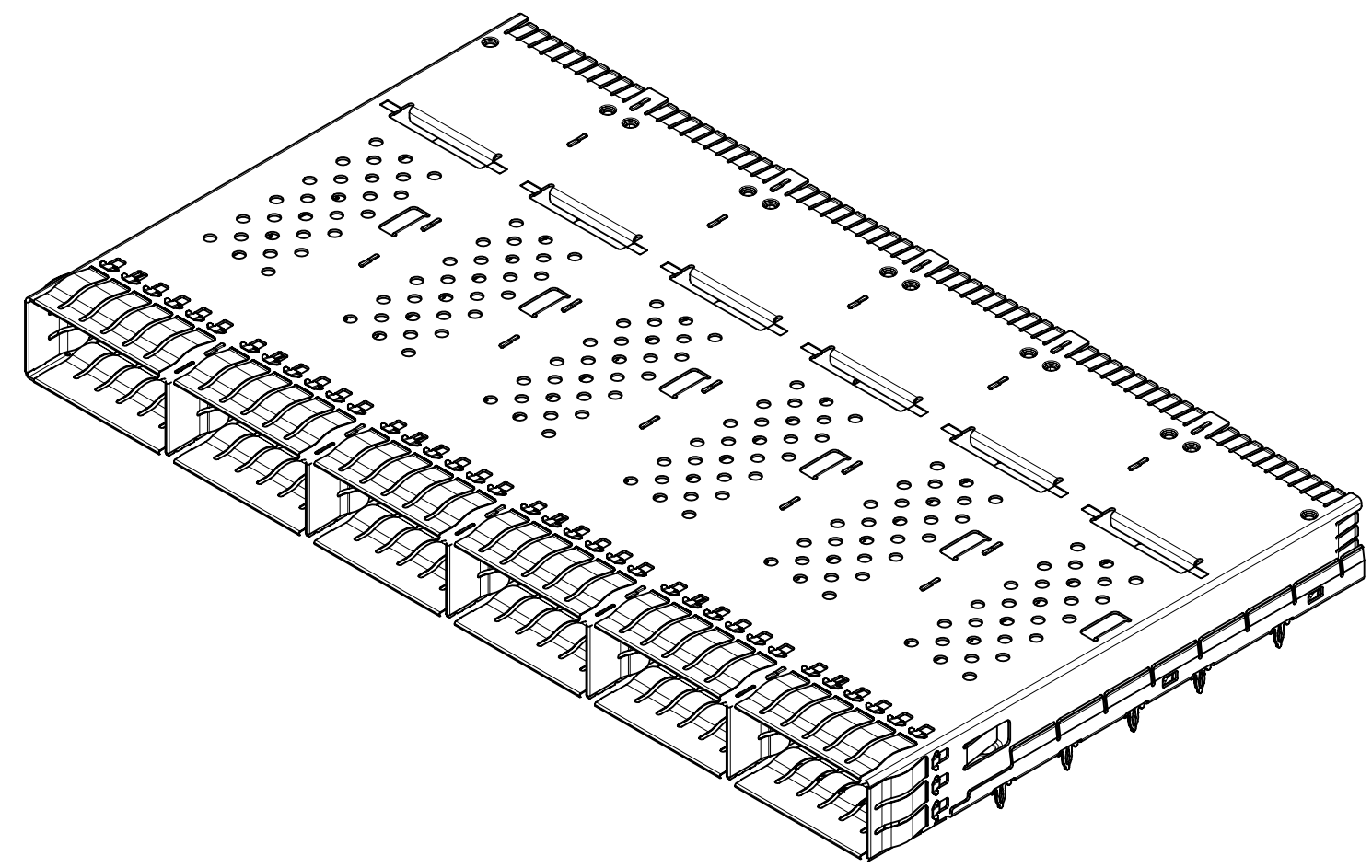
\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

<b>SYMBOLS</b>	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:	
	mm	2:1		
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 691051 DRWN: ZDANDURAND     2020/02/20 CHK'D: BCHEN06     2022/01/14 APPR: BCHEN06     2022/01/14 INITIAL REVISION: DRWN: RWHIPPLE     2017/08/09 APPR: JALEXANDER     2017/10/05	
▽ = 0	ANGULAR TOL	± °		
▽ = 0	4 PLACES	±		
▽ = 0	3 PLACES	±		
▽ = 0	2 PLACES	±		
▽ = 0	1 PLACE	±	DRWN: RWHIPPLE     2017/08/09 APPR: JALEXANDER     2017/10/05	
▽ = 0	0 PLACES	±		
▣ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
				<b>D-SIZE</b>
		111131	1111310799	GENERAL MARKET

ENHANCED zQSFP+ NEARSTACK TO PICO CLASP			
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1111310799	PSD	000	H
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
1111310799	GENERAL MARKET	6 OF 17	

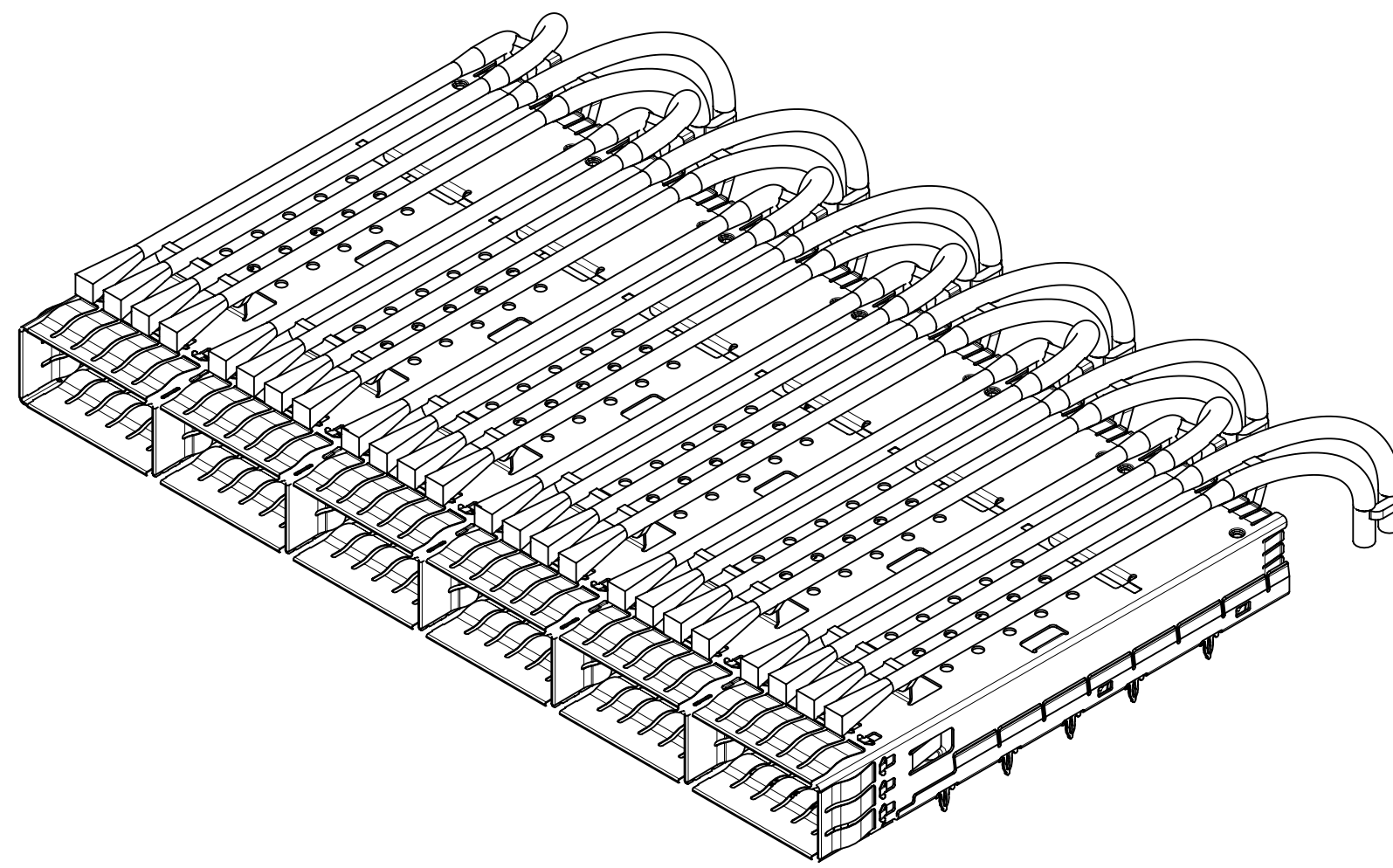
# zQSFP BiPASS 1 X 6 CAGE ASSEMBLY

NOTE: ALL LENGTHS ±5.0mm



CLOSE TOP

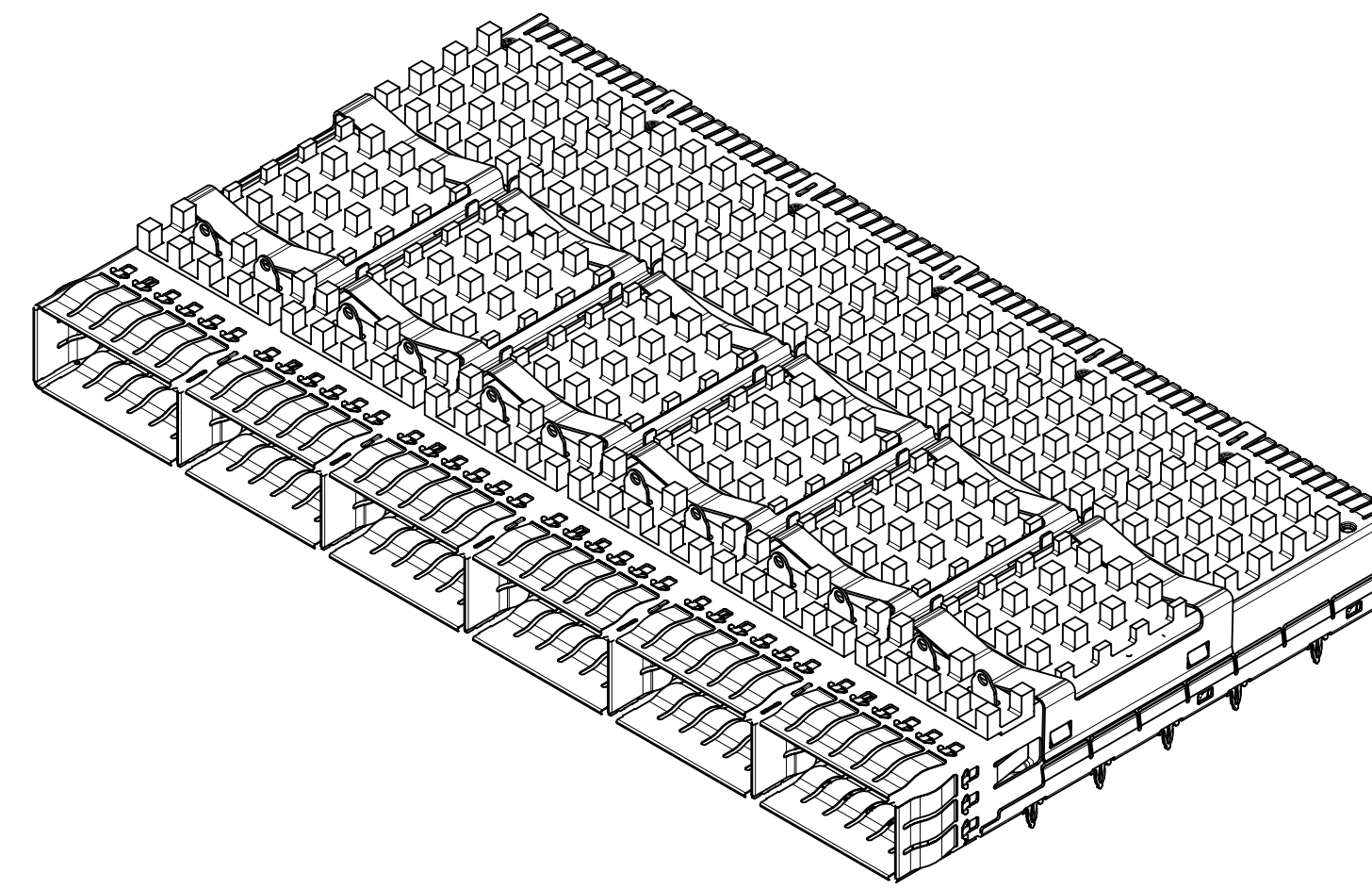
PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111316920	75	150
1111316921	75	200
1111316922	75	300
1111316923	75	400
1111316924	75	500



CLOSE TOP WITH LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111316930	75	150
1111316931	75	200
1111316932	75	300
1111316933	75	400
1111316934	75	500

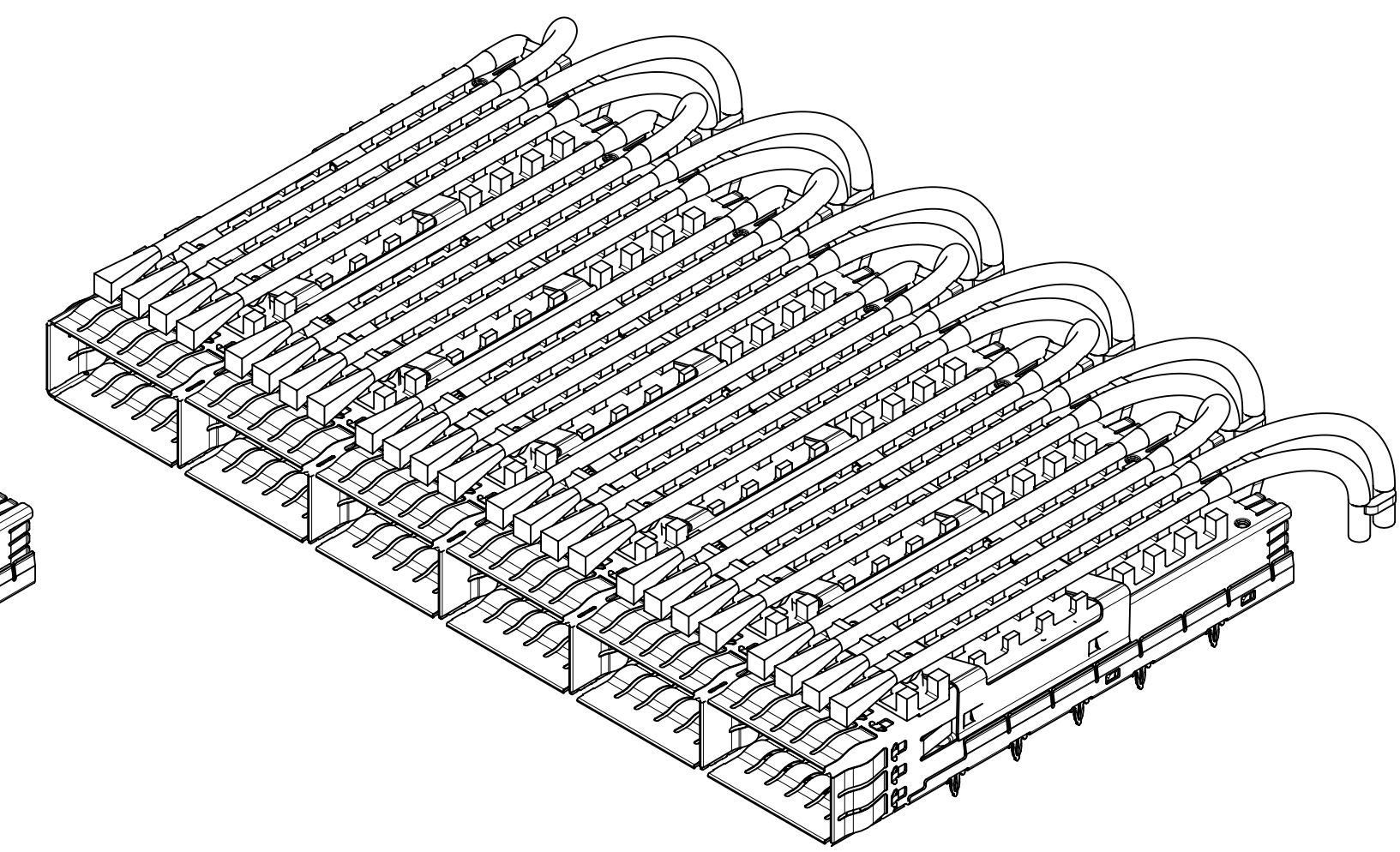
\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS



OPEN TOP WITH HEAT SINK

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111316940	75	150
1111316941	75	200
1111316942	75	300
1111316943	75	400
1111316944	75	500

\*SEE SHEET 8 FOR HEAT SINK OPTIONS



OPEN TOP WITH HEAT SINK AND LIGHTPIPE

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 1.0) HIGH SPEED LENGTH (MM)
1111316911	75	150
1111316912	75	200
1111316913	75	300
1111316914	75	400
1111316915	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111316960	75	150
1111316961	75	200
1111316962	75	300
1111316963	75	400
1111316964	75	500

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111316970	75	150
1111316971	75	200
1111316972	75	300
1111316973	75	400
1111316974	75	500

\*SEE SHEET 8 FOR LIGHT PIPE OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111316980	75	150
1111316981	75	200
1111316982	75	300
1111316983	75	400
1111316984	75	500

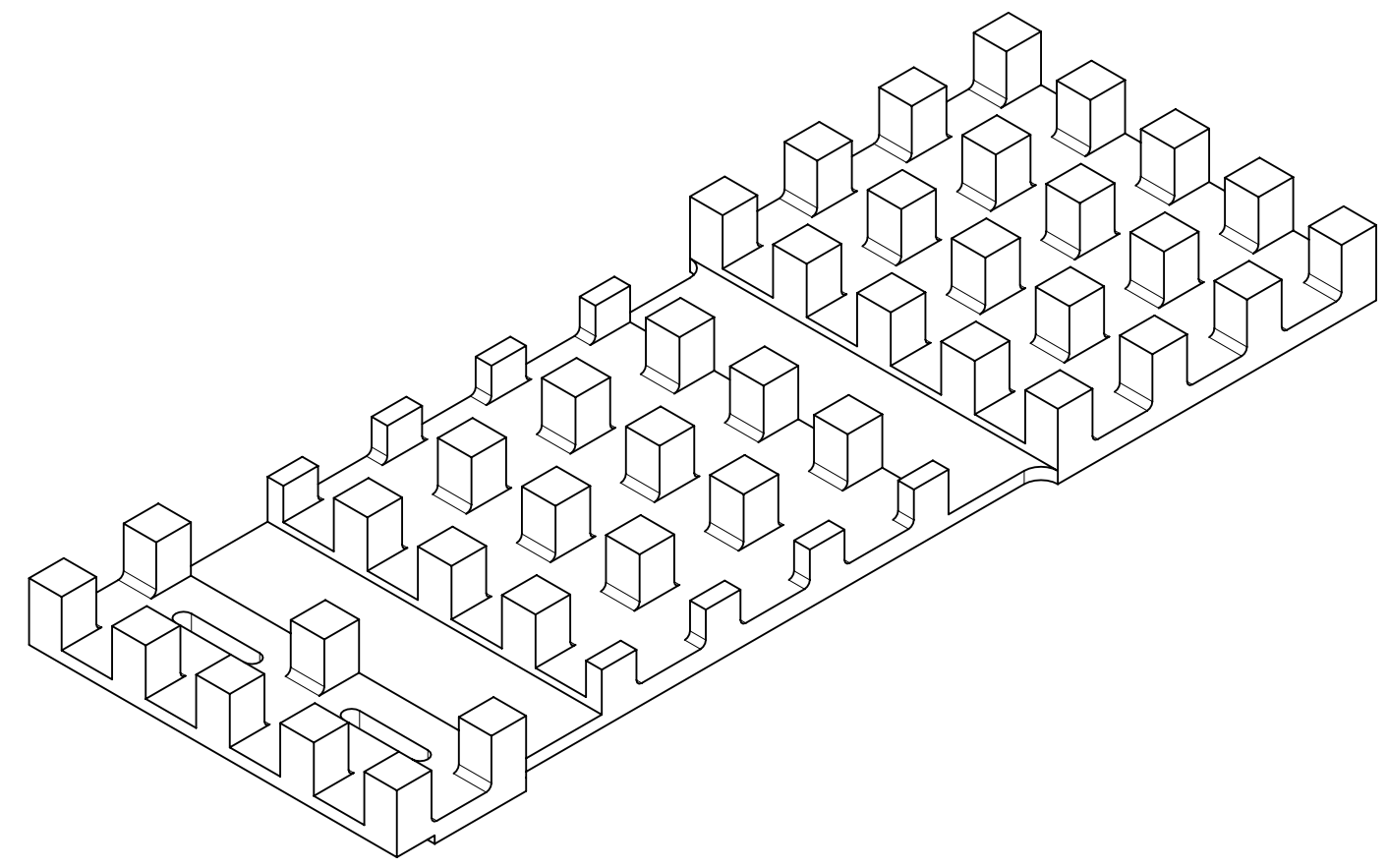
\*SEE SHEET 8 FOR HEAT SINK OPTIONS

PART NUMBER	PICO-CLASP LOW SPEED LENGTH (MM)	NEARSTACK (GEN 2.0) HIGH SPEED LENGTH (MM)
1111316950	75	150
1111316951	75	200
1111316952	75	300
1111316953	75	400
1111316954	75	500

\*SEE SHEET 8 FOR HEAT SINK AND LIGHT PIPE OPTIONS

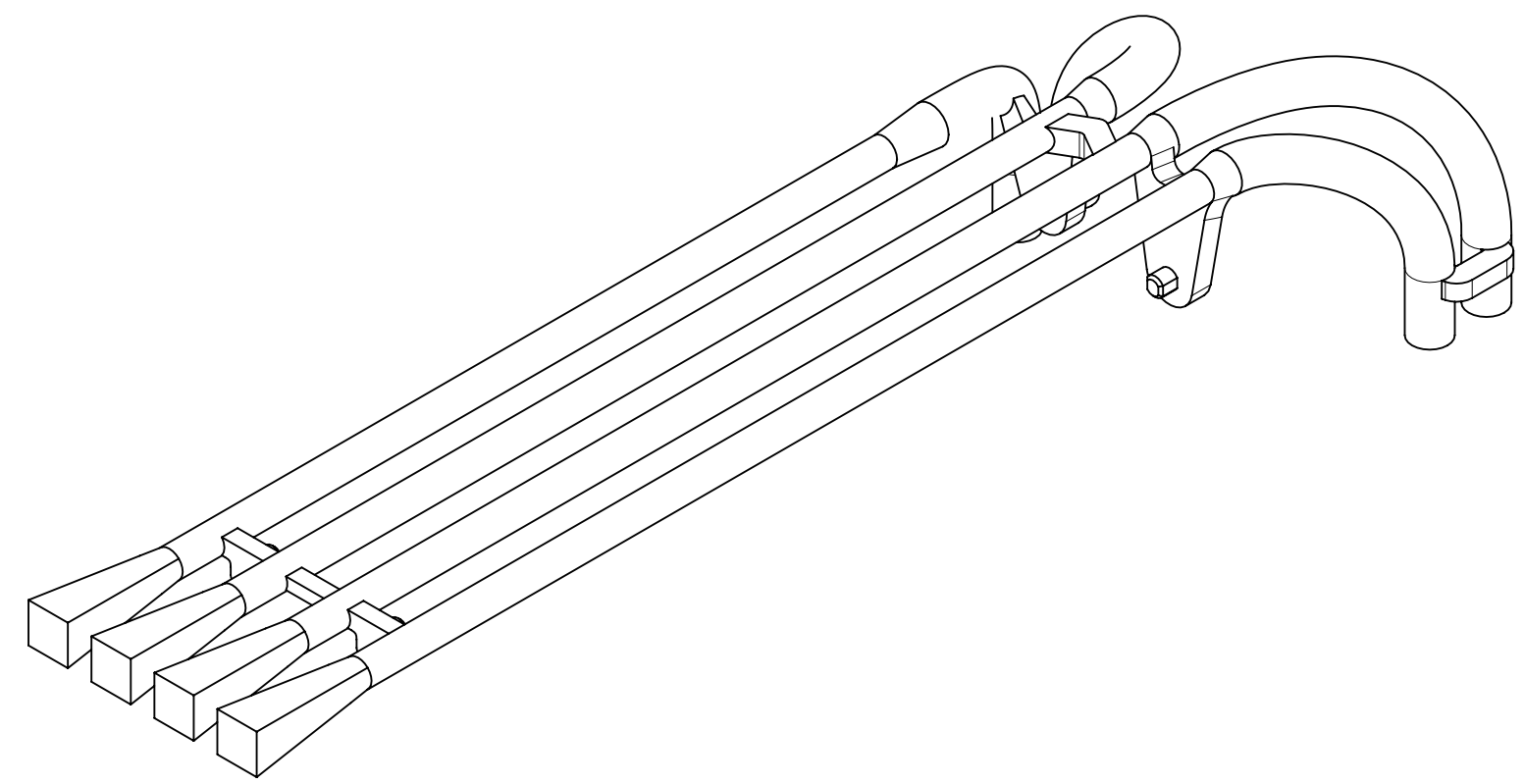
<b>SYMBOLS</b> ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>mm</b> SCALE: <b>2:1</b> GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION CURRENT REV DESC: EC NO: 691051 DRWN: ZDANDURAND    2020/02/20 CHK'D: BCHEN06    2022/01/14 APPR: BCHEN06    2022/01/14 INITIAL REVISION: DRWN: RWHIPPLE    2017/08/09 APPR: JALEXANDER    2017/10/05 D-SIZE    111131	
ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP		PRODUCT CUSTOMER DRAWING
DOCUMENT NUMBER: <b>1111310799</b>		DOC TYPE: <b>PSD</b> DOC PART: <b>000</b> REVISION: <b>H</b>
MATERIAL NUMBER: <b>1111310799</b>	CUSTOMER: <b>GENERAL MARKET</b>	SHEET NUMBER: <b>7 OF 17</b>

STANDARD HEAT SINK  
USED ON ASSEMBLIES SHOWN  
IN THIS DRAWING



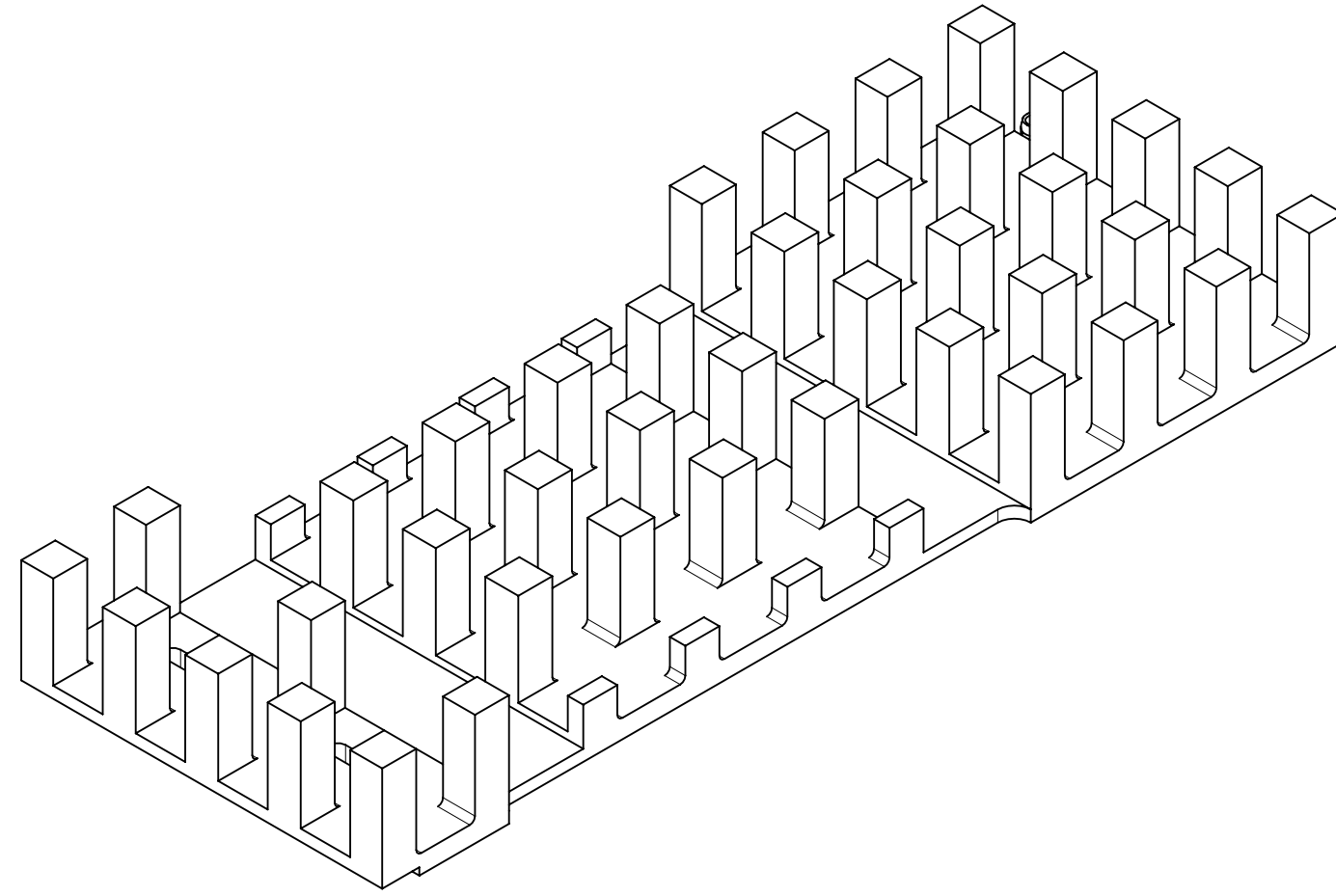
HEAT SINK PIN TYPE  
HEIGHT = 3.1MM  
(PCI)

STANDARD LIGHT PIPE  
USED ON ASSEMBLIES SHOWN  
IN THIS DRAWING

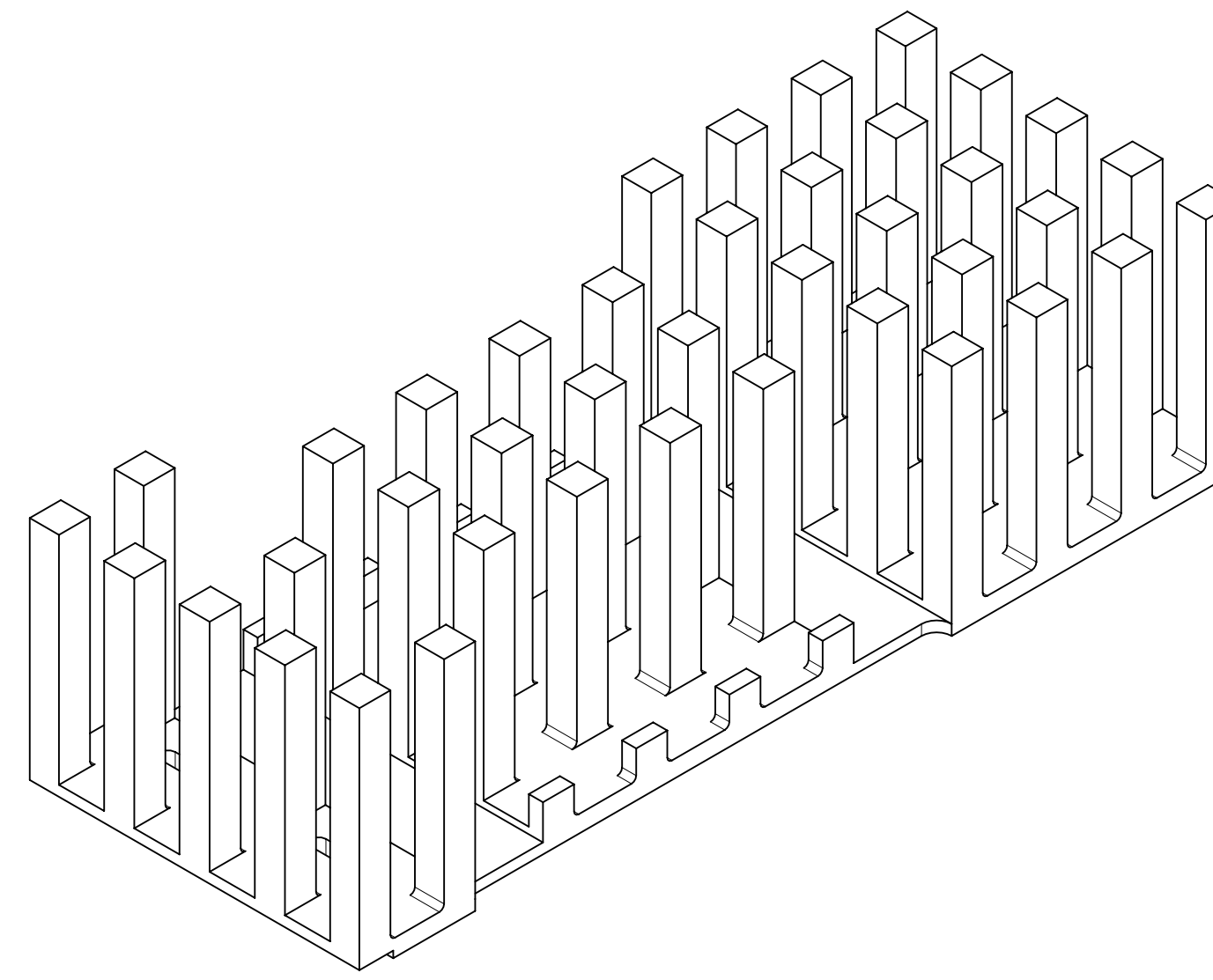


LIGHT PIPE  
4 CHANNEL

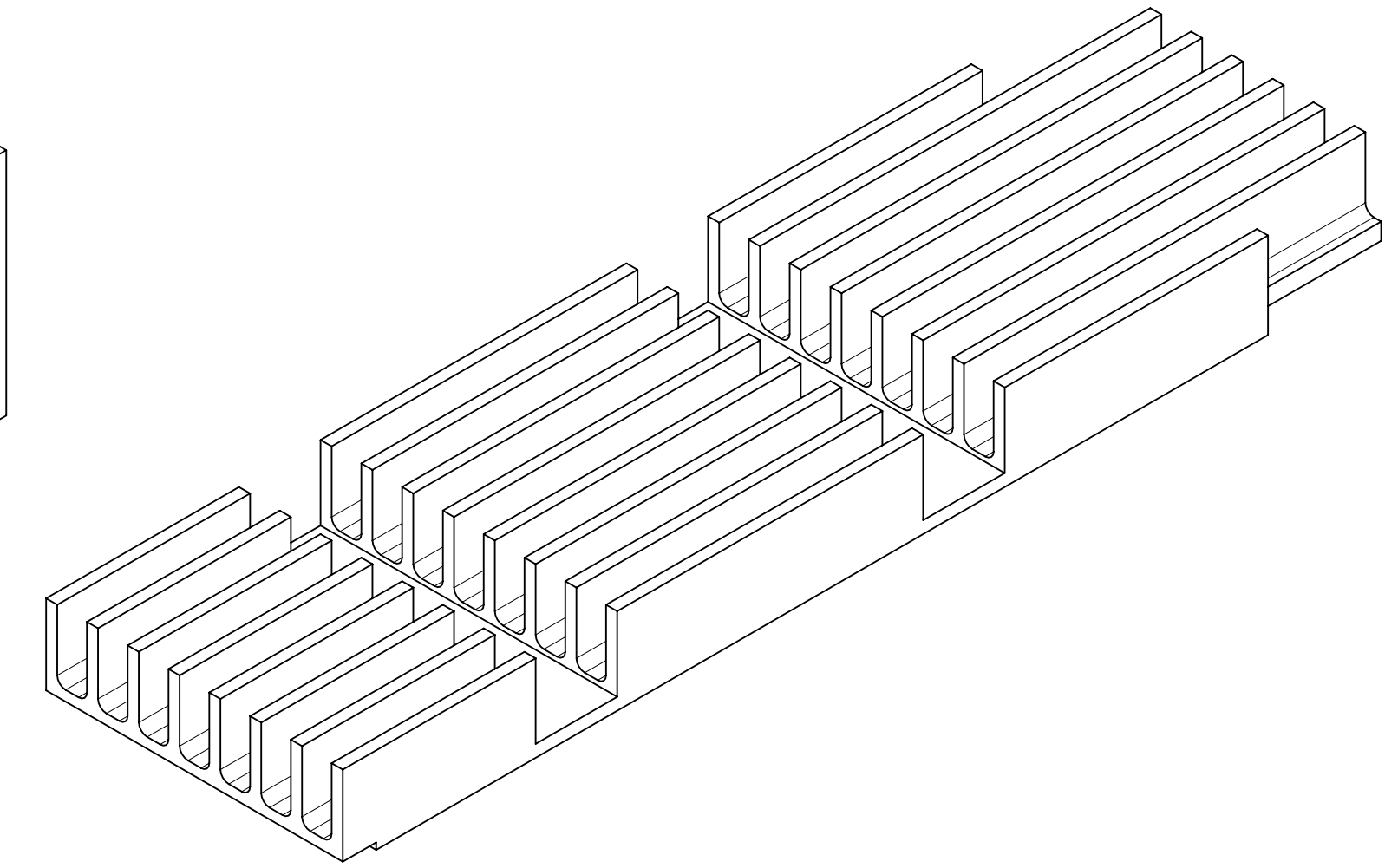
HEAT SINK OPTIONS



HEAT SINK PIN TYPE  
HEIGHT = 5.4MM  
(SAN)

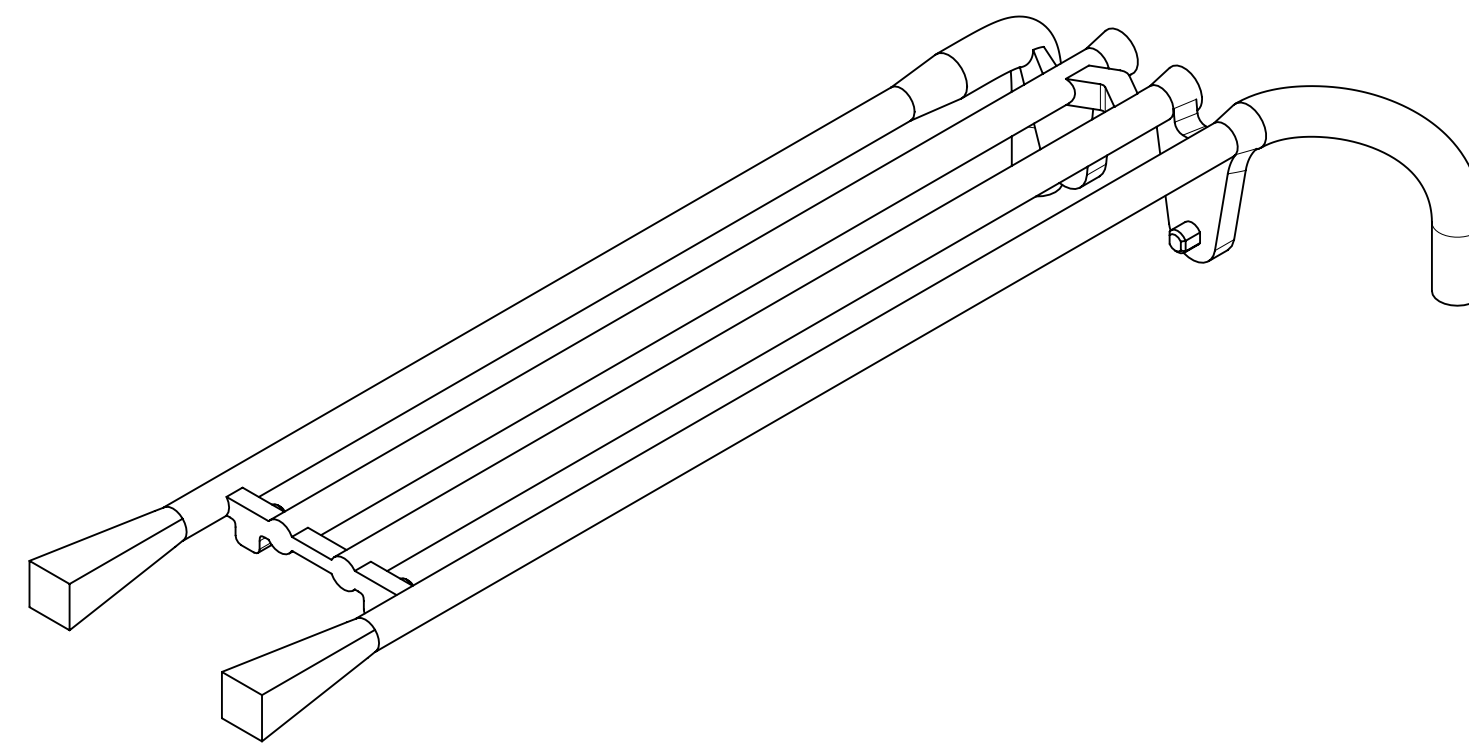


HEAT SINK PIN TYPE  
HEIGHT = 12.4MM  
(NET)



HEAT SINK FIN TYPE  
HEIGHT = 3.7MM

LIGHT PIPE OPTIONS



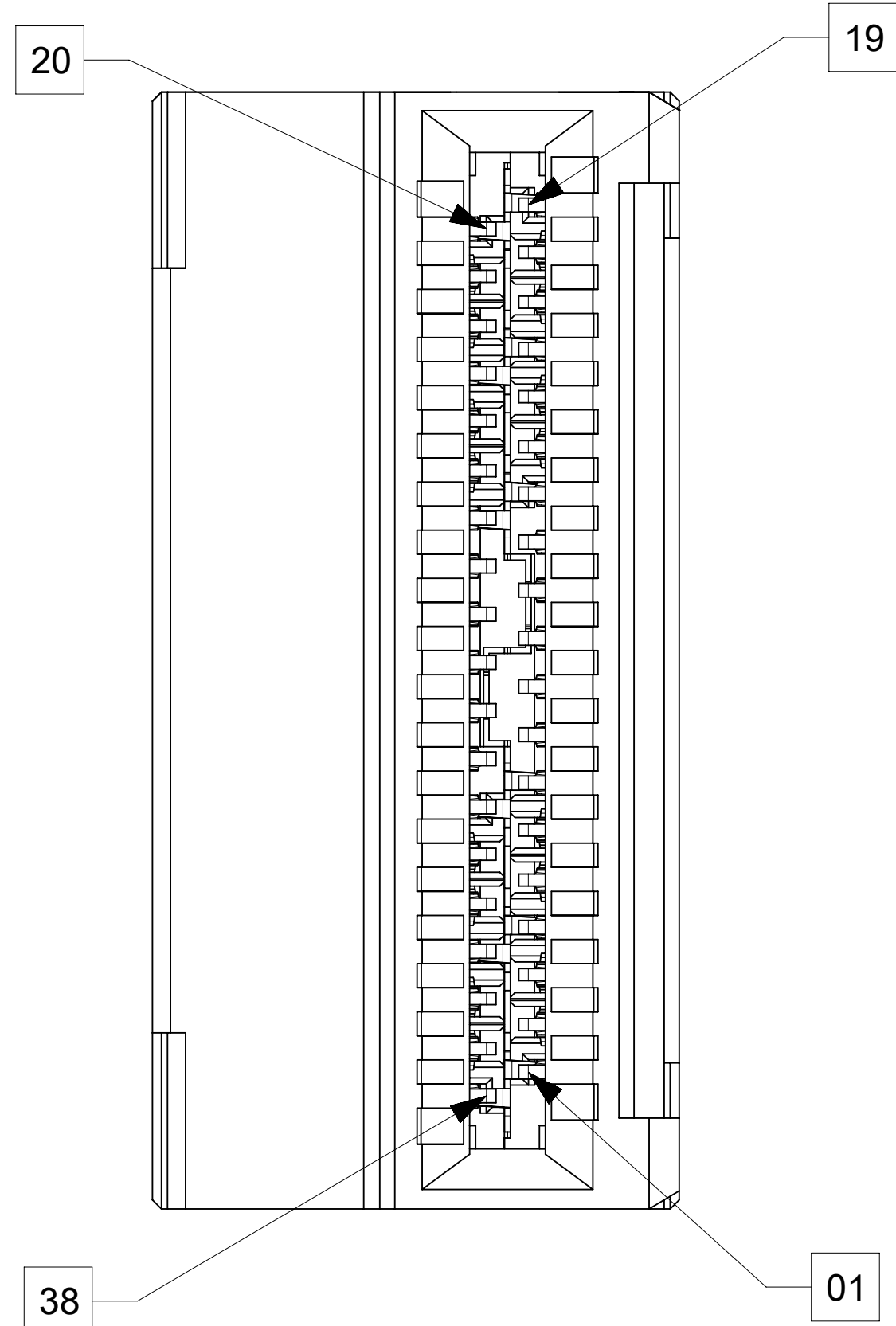
LIGHT PIPE  
2 CHANNEL

CONTACT MOLEX FOR BiPASS ASSEMBLY PART NUMBER AND AVAILABILITY

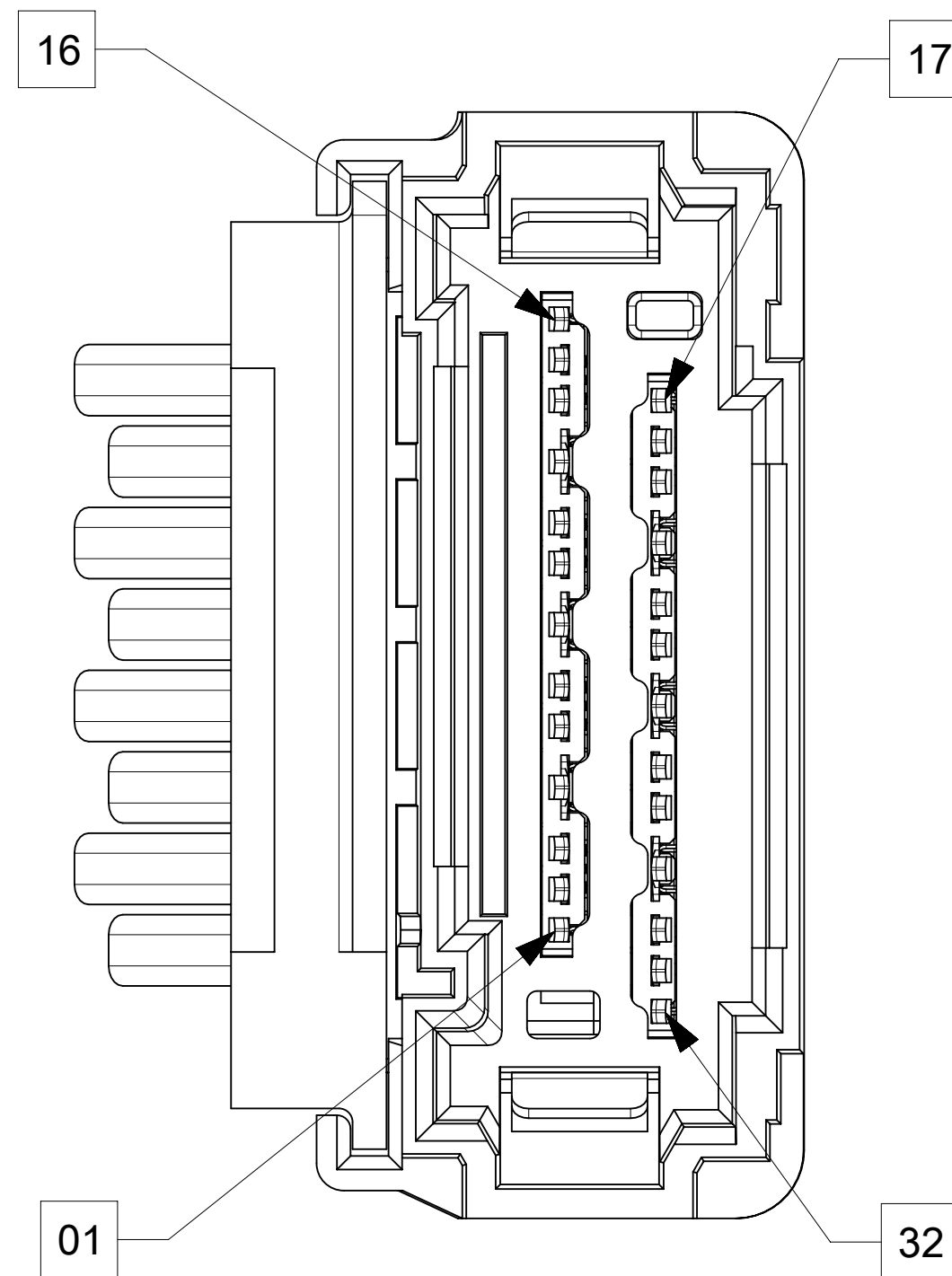
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
	DIMENSION UNITS	SCALE	CURRENT REV DESC:
▽ = 0	mm	4:1	EC NO: 691051 DRWN: ZDANDURAND 2020/02/20 CHK'D: BCHEN06 2022/01/14 APPR: BCHEN06 2022/01/14
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL	± °	INITIAL REVISION: DRWN: RWHIPPLE 2017/08/09 APPR: JALEXANDER 2017/10/05
▽ = 0	4 PLACES	±	
▽ = 0	3 PLACES	±	DOCUMENT NUMBER 1111310799
▽ = 0	2 PLACES	±	
▽ = 0	1 PLACE	±	DOC TYPE PSD
▽ = 0	0 PLACES	±	
□ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DOC PART 000
▽ = 0	THIRD ANGLE PROJECTION	DRAWING	
		SERIES	REVISION H
	D-SIZE	111131	MATERIAL NUMBER 1111310799
			CUSTOMER GENERAL MARKET
			SHEET NUMBER 8 OF 17



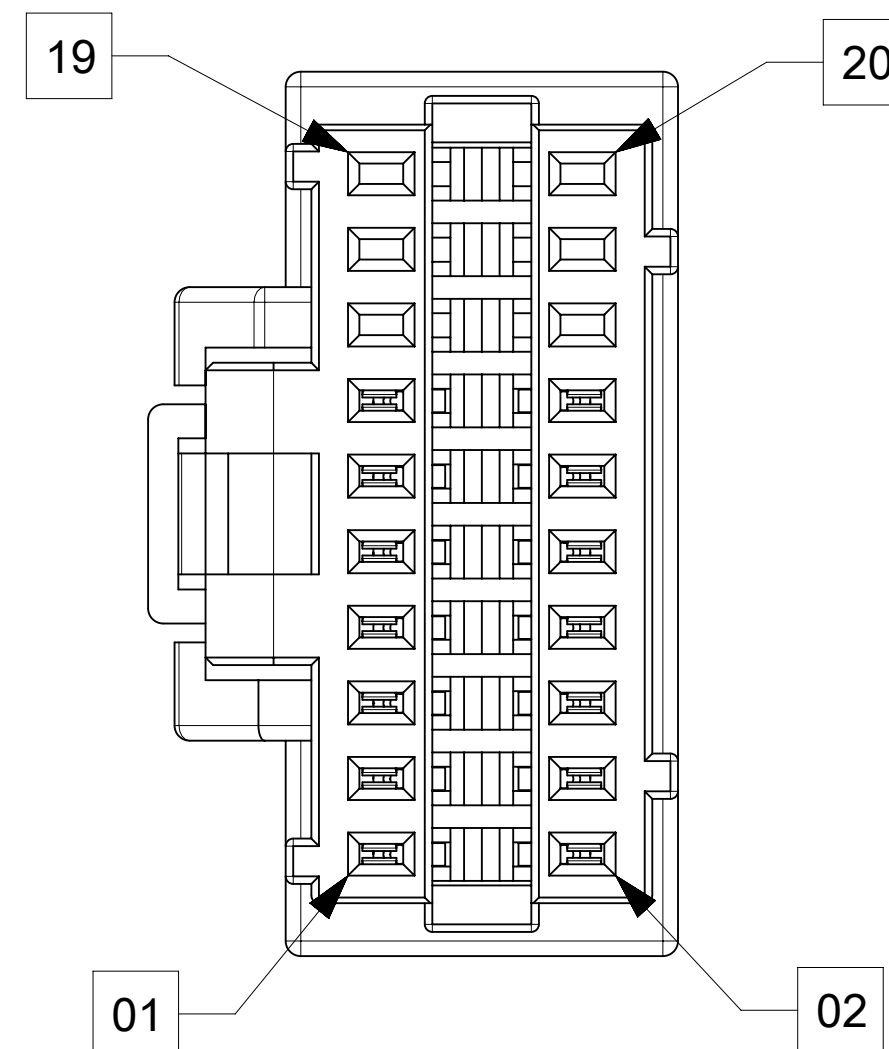
**P1 QSFP  
HIGH/LOW SPEED**



**P2 NEARSTACK  
HIGH SPEED**



**P3 PICO-CLASP  
LOW SPEED**

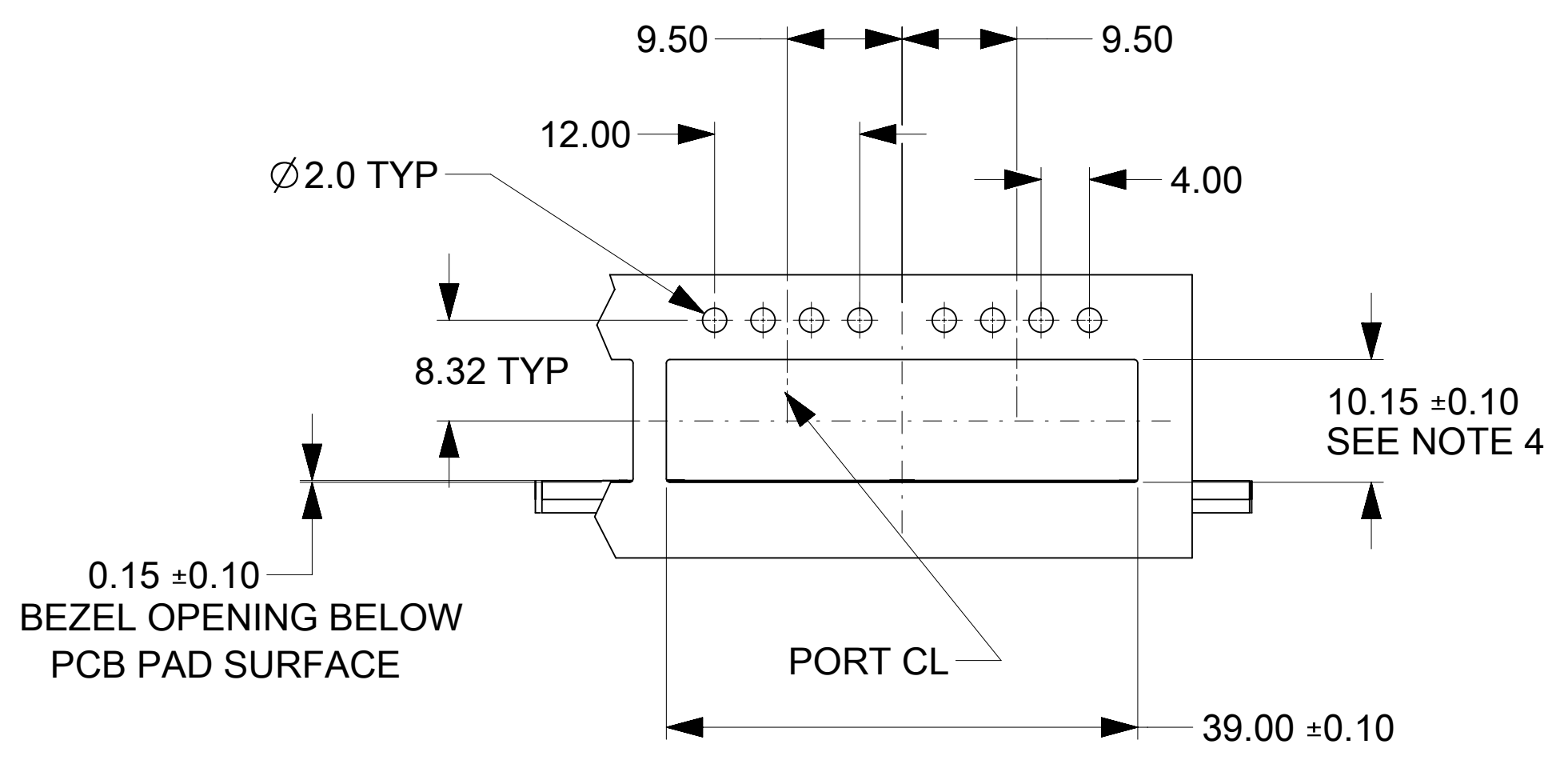
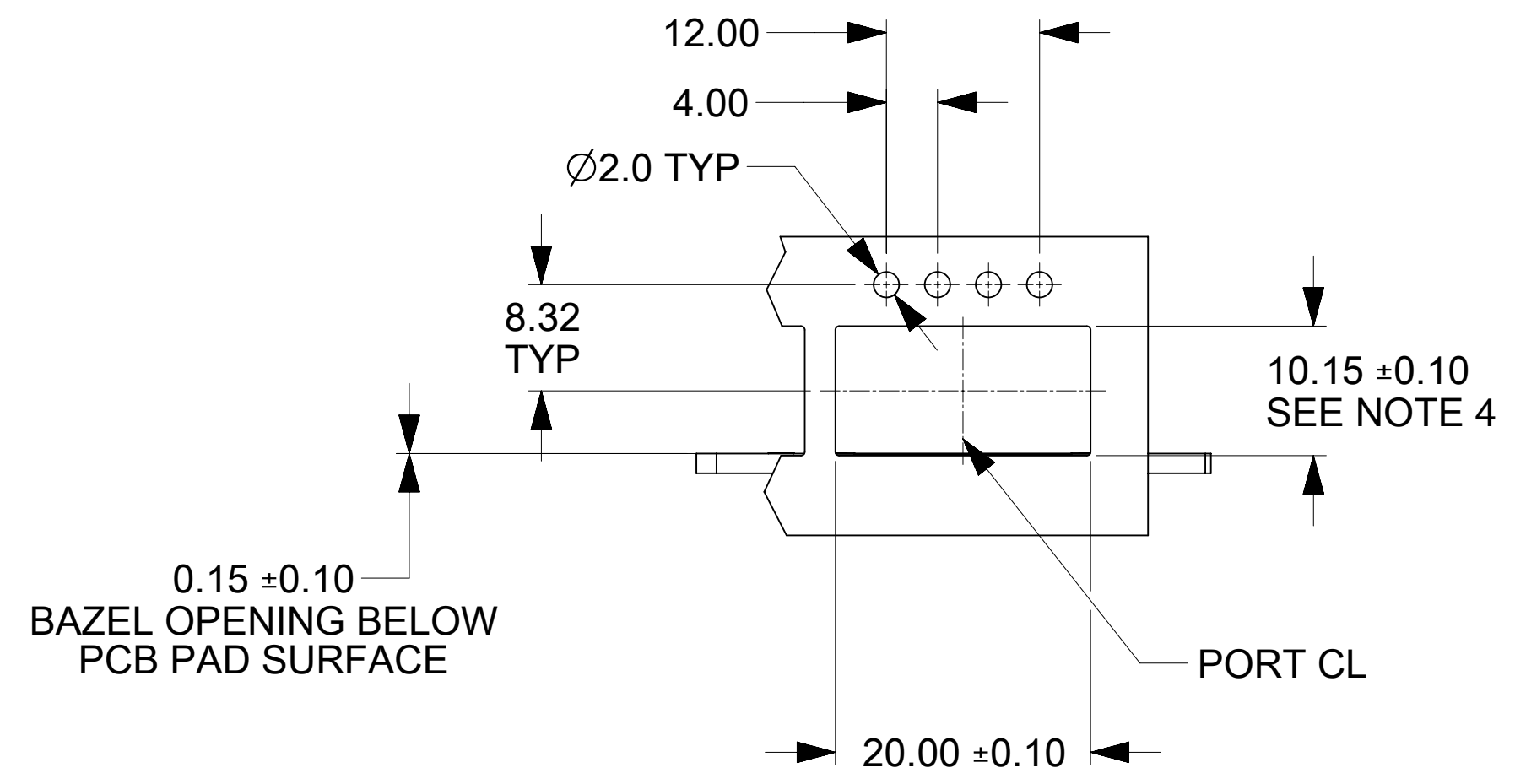
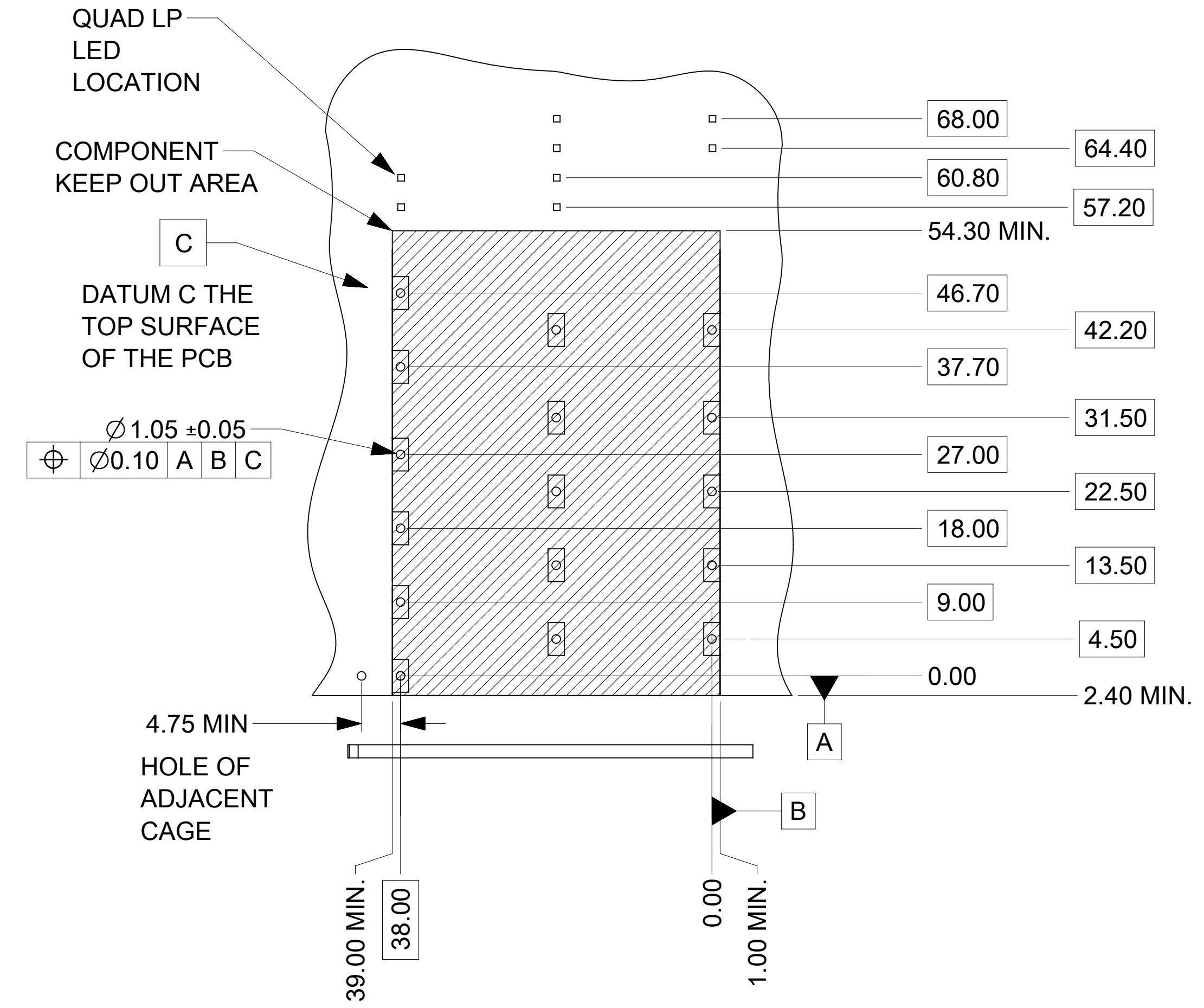
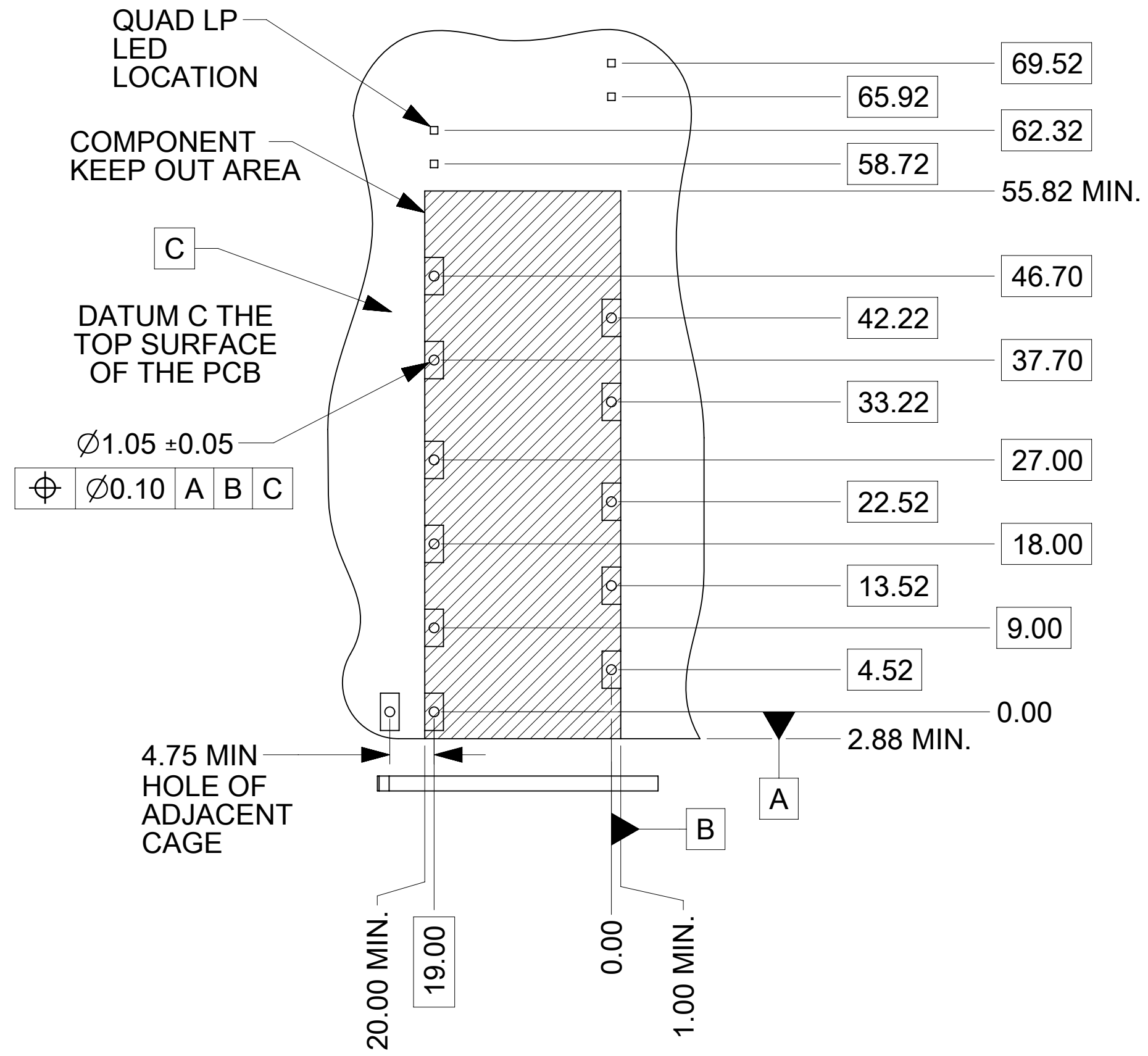


LOW SPEED SIGNALS		
P1		P3
PIN	SIGNAL	PIN
	NC	20
	NC	18
	NC	16
32, 35, 38	GND	14
08	ModSelL	12
09	ResetL	10
10	VccRx	08
11	SCL	06
12	SDA	04
13, 16, 19	GND	02
20, 23, 26	GND	01
27	ModPrsL	03
28	IntL	05
29	VccTx	07
30	Vcc1	09
31	LPMode	11
1, 4, 7	GND	13
	NC	15
	NC	17
	NC	19

HIGH SPEED WIRING DIAGRAM				
P1 END zQSFP			P2 END NEARSTACK	
PIN	SIGNAL		PIN	SIGNAL
01	GND (TX)		01	GND
02	TX2n	↔	02	TX2p
03	TX2p	↔	03	TX2n
04	GND (TX)		04, 05	GND
05	TX4n	↔	06	TX4p
06	TX4p	↔	07	TX4n
07	GND (TX)		08	GND
13	GND (RX)		09	GND
14	RX3p	↔	10	RX3n
15	RX3n	↔	11	RX3p
16	GND (RX)		12, 13	GND
17	RX1p	↔	14	RX1n
18	RX1n	↔	15	RX1p
19	GND (RX)		16	GND
20	GND (RX)		17	GND
21	RX2n	↔	18	RX2n
22	RX2p	↔	19	RX2p
23	GND (RX)		20, 21	GND
24	RX4n	↔	22	RX4n
25	RX4p	↔	23	RX4p
26	GND (RX)		24	GND
32	GND (TX)		25	GND
33	TX3p	↔	26	TX3p
34	TX3n	↔	27	TX3n
35	GND (TX)		28, 29	GND
36	TX1p	↔	30	TX1p
37	TX1n	↔	31	TX1n
38	GND (TX)		32	GND

<b>SYMBOLS</b> DIMENSION UNITS: mm SCALE: 10:1 GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL: ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC:						
	EC NO: 691051 DRWN: ZDANDURAND 2020/02/20 CHK'D: BCHEN06 2022/01/14 APPR: BCHEN06 2022/01/14				ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP		
	INITIAL REVISION: DRWN: RWHIPPLE 2017/08/09 APPR: JALEXANDER 2017/10/05		PRODUCT CUSTOMER DRAWING				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: D-SIZE	SERIES: 111131	MATERIAL NUMBER: 1111310799	CUSTOMER: GENERAL MARKET

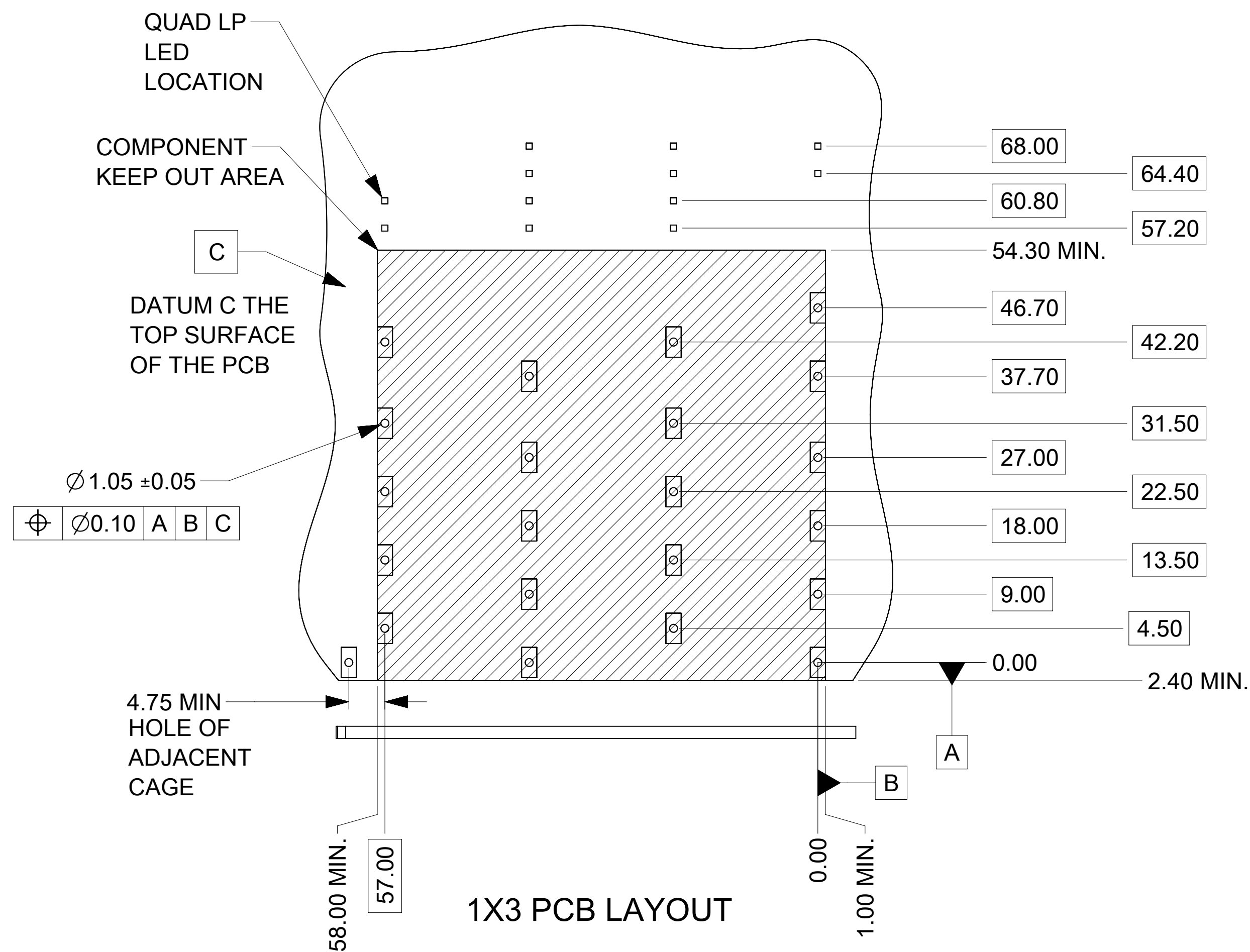
# PCB LAYOUT FOR SINGLE SIDED MOUNTING



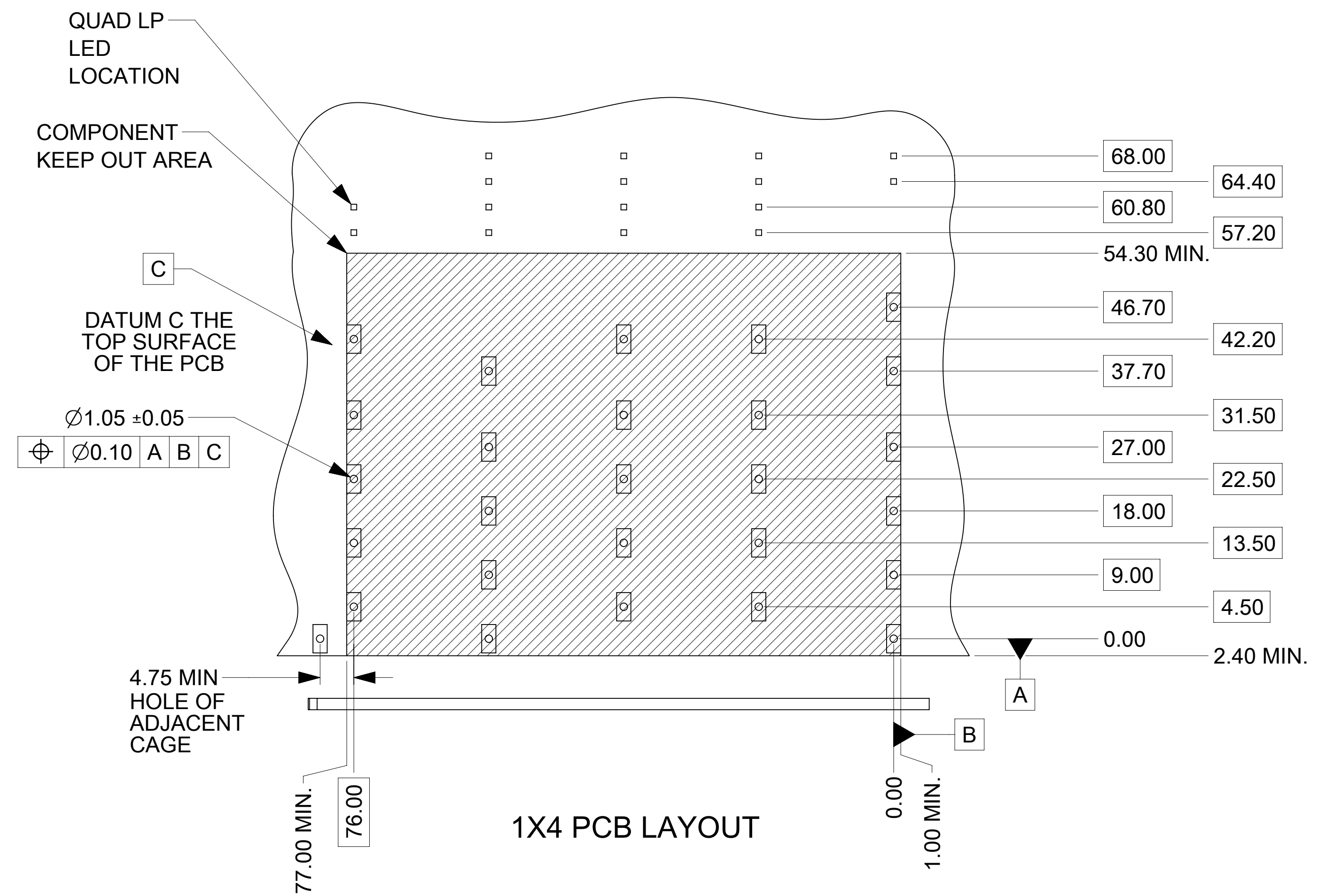
- NOTES:
- PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM - 4.0mm SQUARE)
  - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
  - HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
  - PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		<b>molex</b>	
	DIMENSION UNITS	SCALE				
▽ = 0	mm	2:1	EC NO: 691051		ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ZDANDURAND 2020/02/20		PRODUCT CUSTOMER DRAWING	
▽ = 0	ANGULAR TOL ± °		CHK'D: BCHEN06 2022/01/14		DOCUMENT NUMBER	
▽ = 0	4 PLACES ±		APPR: BCHEN06 2022/01/14		1111310799	
▽ = 0	3 PLACES ±		INITIAL REVISION:		DOC TYPE	
▽ = 0	2 PLACES ±		DRWN: RWHIPPLE 2017/08/09		PSD	
▽ = 0	1 PLACE ±		APPR: JALEXANDER 2017/10/05		000	
▽ = 0	0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		H	
▽ = 0	THIRD ANGLE PROJECTION		DRAWING		REVISION	
▽ = 0	D-SIZE		SERIES		MATERIAL NUMBER	
			111131		1111310799	
			GENERAL MARKET		CUSTOMER	
					SHEET NUMBER	
					10 OF 17	

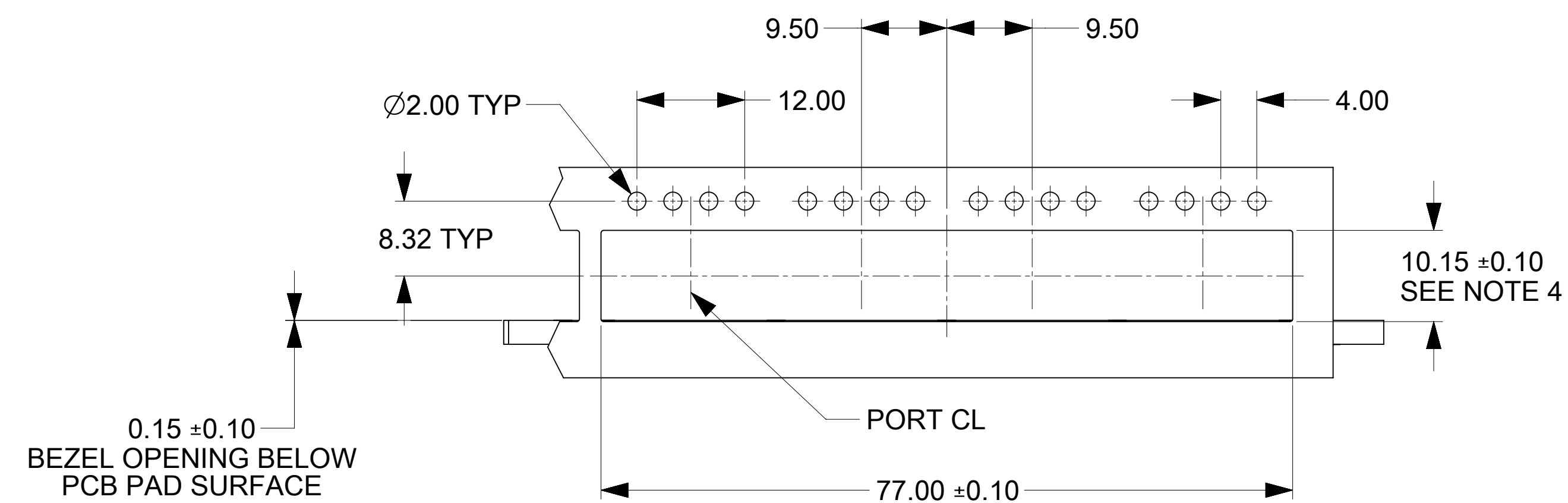
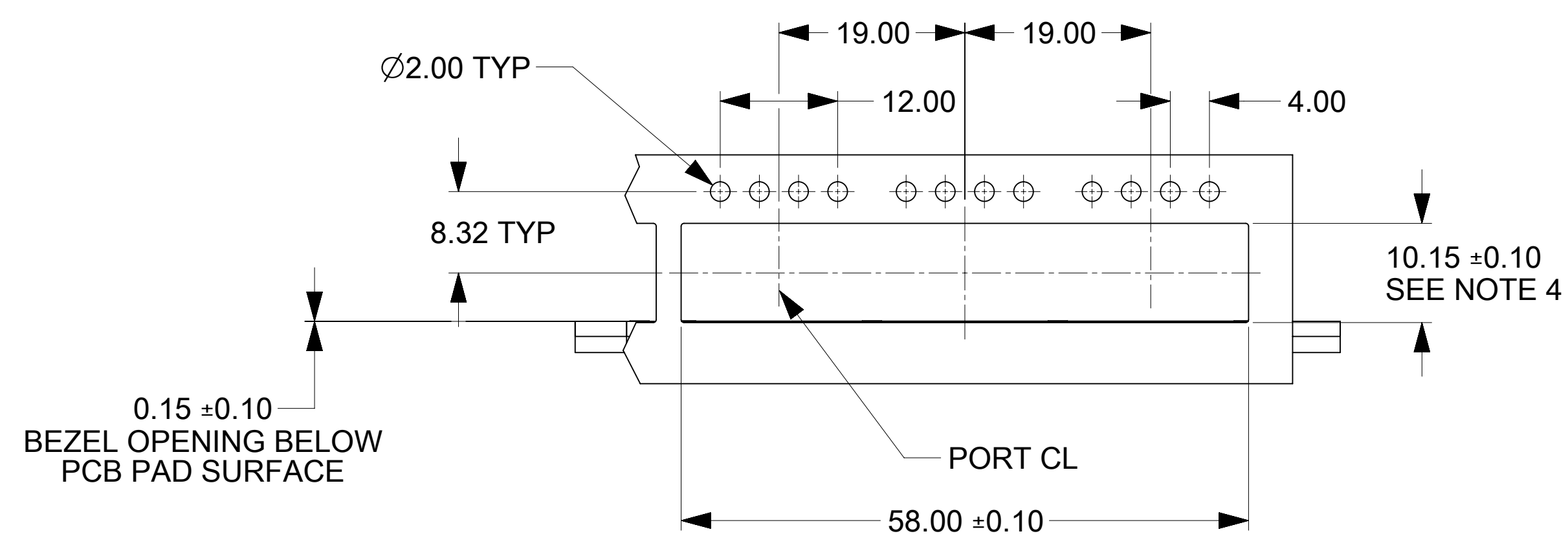
# PCB LAYOUT FOR SINGLE SIDED MOUNTING



1X3 PCB LAYOUT



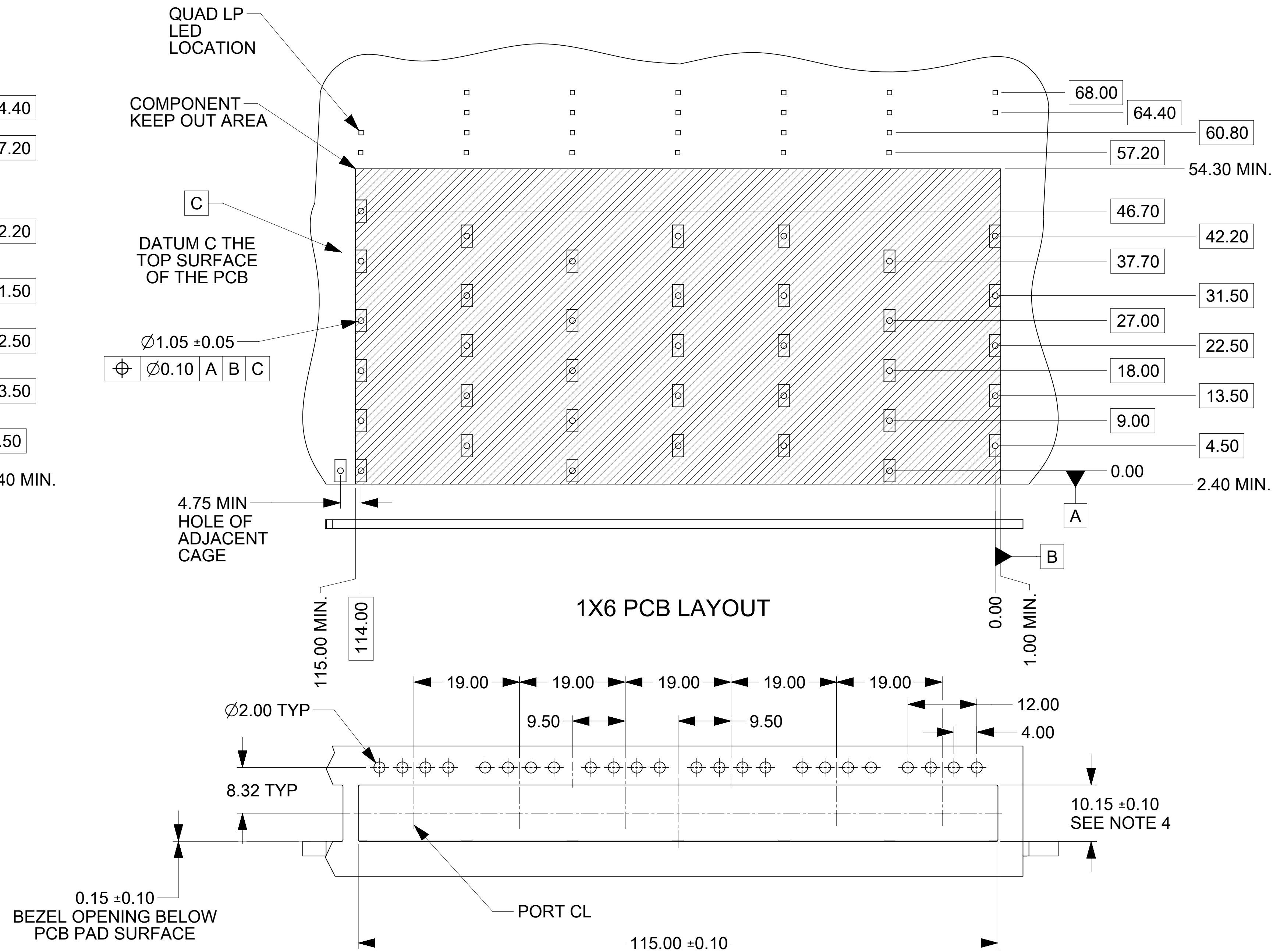
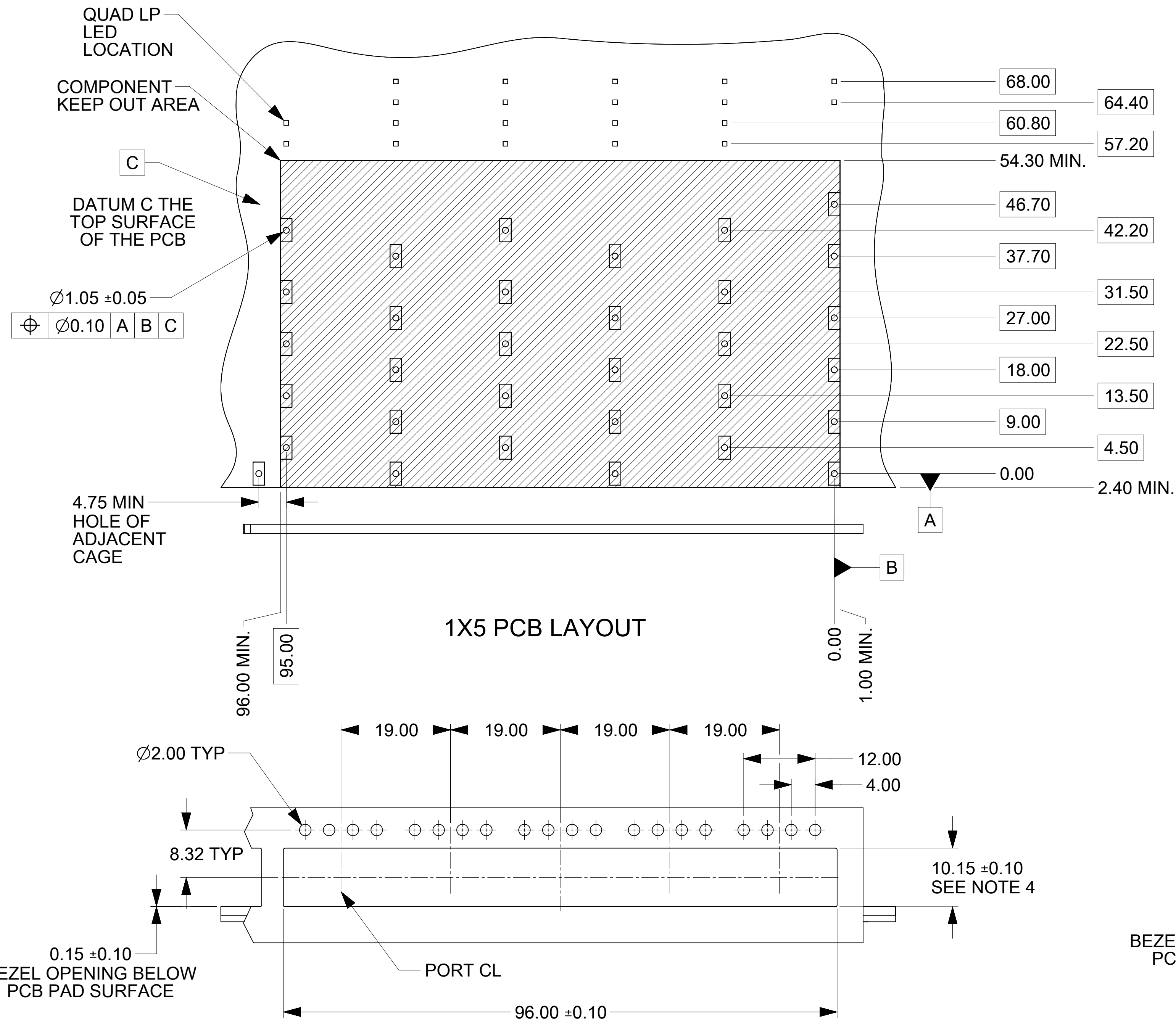
1X4 PCB LAYOUT



- NOTES:
- PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM - 4.0MM SQUARE)
  - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
  - HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
  - PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

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:
▽ = 0	mm	2:1	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
▽ = 0	ANGULAR TOL	± °	
▽ = 0	4 PLACES	±	
▽ = 0	3 PLACES	±	
▽ = 0	2 PLACES	±	
▽ = 0	1 PLACE	±	
▽ = 0	0 PLACES	±	
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	SERIES
▽ = 0			
MOLEX			ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP
PRODUCT CUSTOMER DRAWING			
DOCUMENT NUMBER		DOC TYPE	DOC PART
1111310799		PSD	000
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
1111310799		GENERAL MARKET	11 OF 17

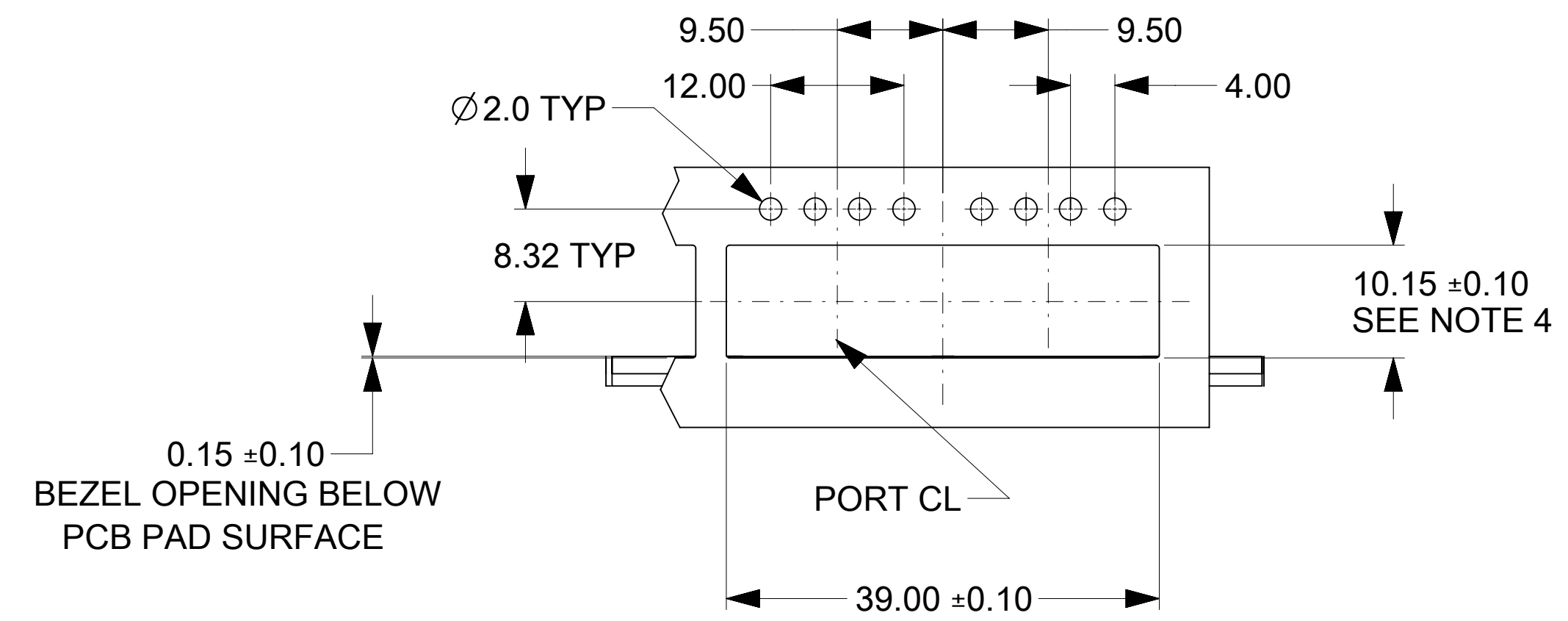
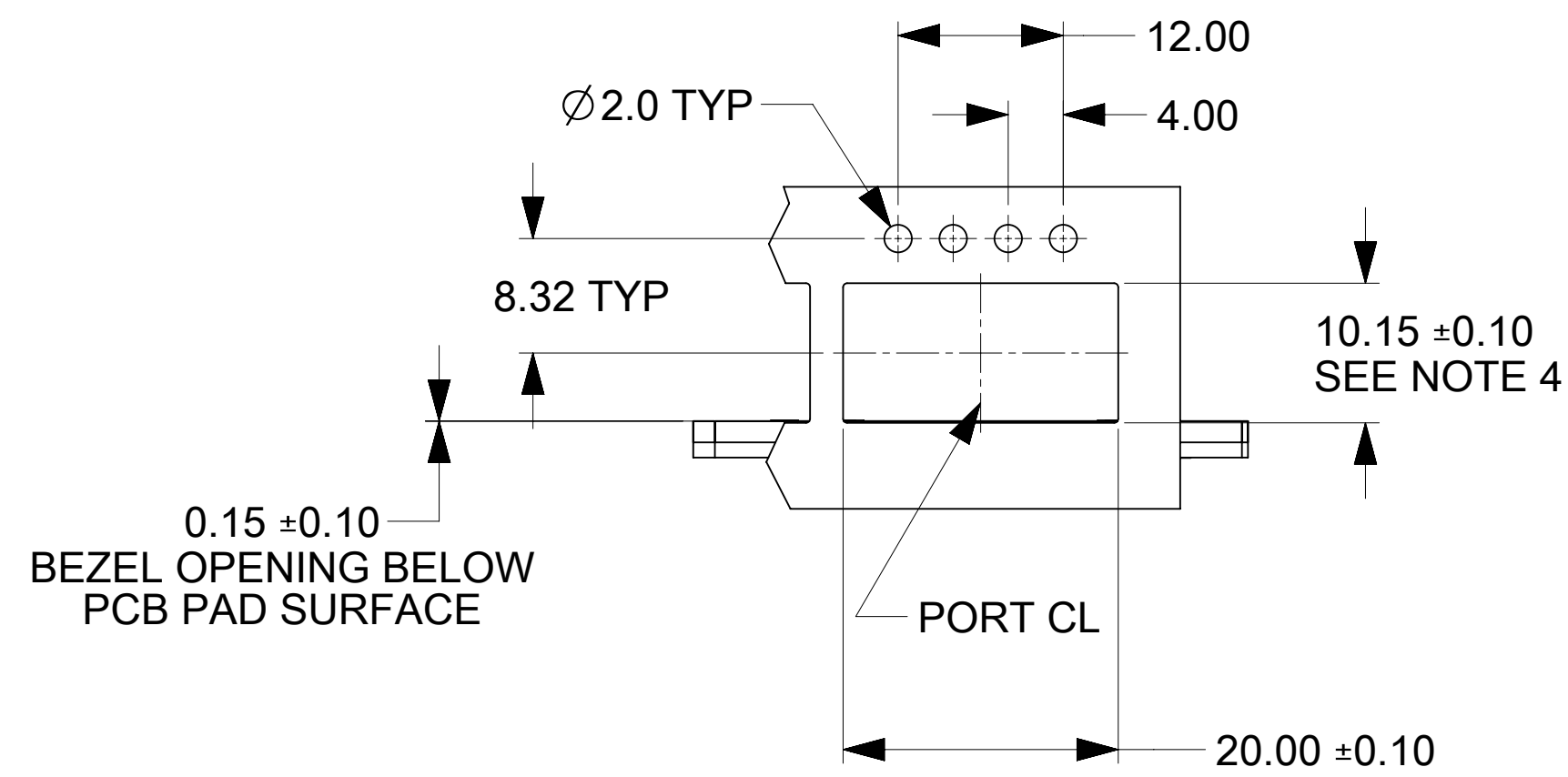
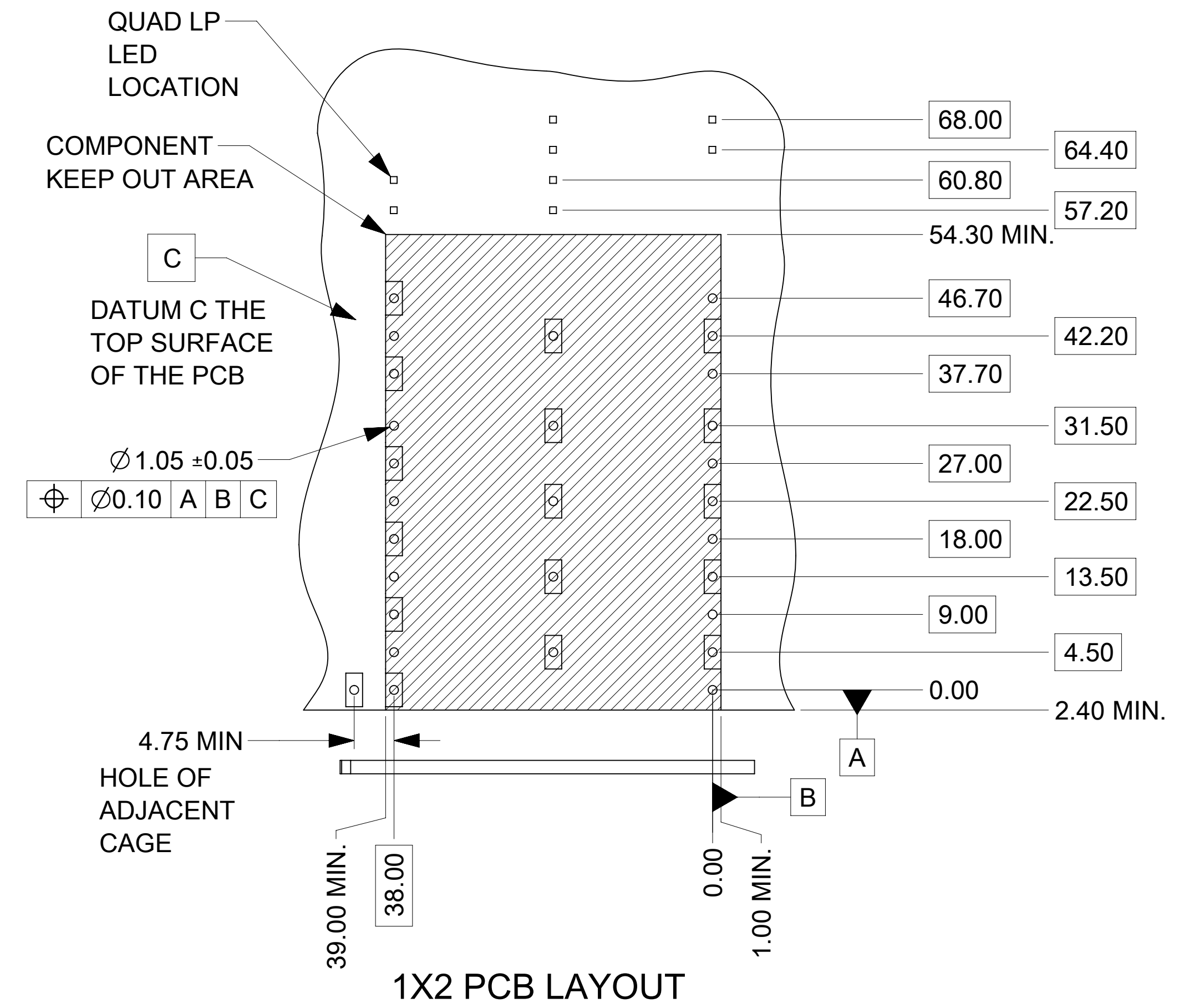
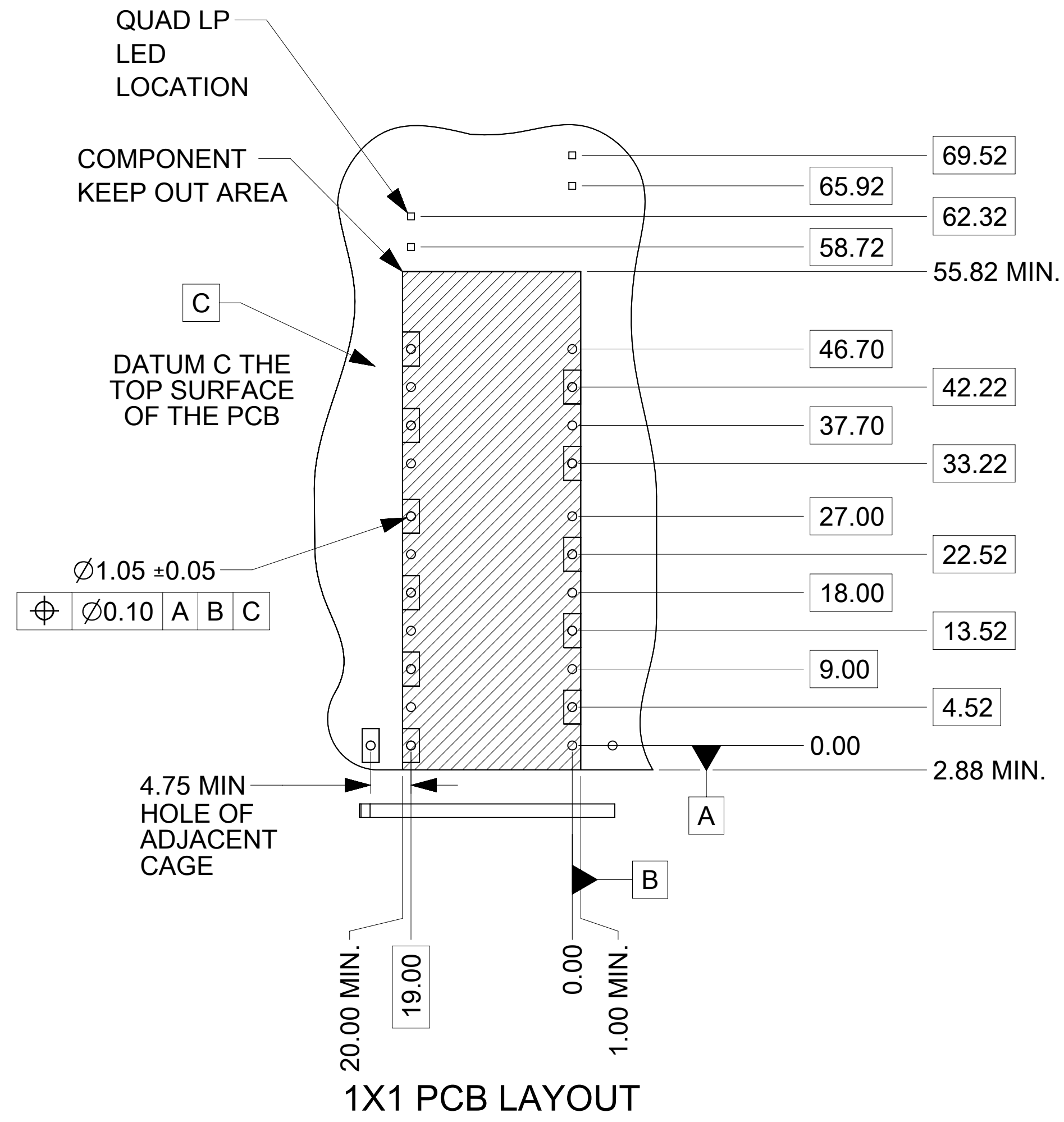
# PCB LAYOUT FOR SINGLE SIDED MOUNTING



- NOTES:**
- PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM X 4.0MM SQUARE)
  - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
  - HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
  - PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

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:							<b>molex</b>			
▽ = 0	mm	2:1											
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)												
▽ = 0	ANGULAR TOL	±								ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP			
▽ = 0	4 PLACES	±								PRODUCT CUSTOMER DRAWING			
▽ = 0	3 PLACES	±								DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
▽ = 0	2 PLACES	±								1111310799	PSD	000	H
▽ = 0	1 PLACE	±								MATERIAL NUMBER			
▽ = 0	0 PLACES	±								CUSTOMER			
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	SHEET NUMBER						
▽ = 0			D-SIZE		111131	1111310799		GENERAL MARKET		12 OF 17			

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING

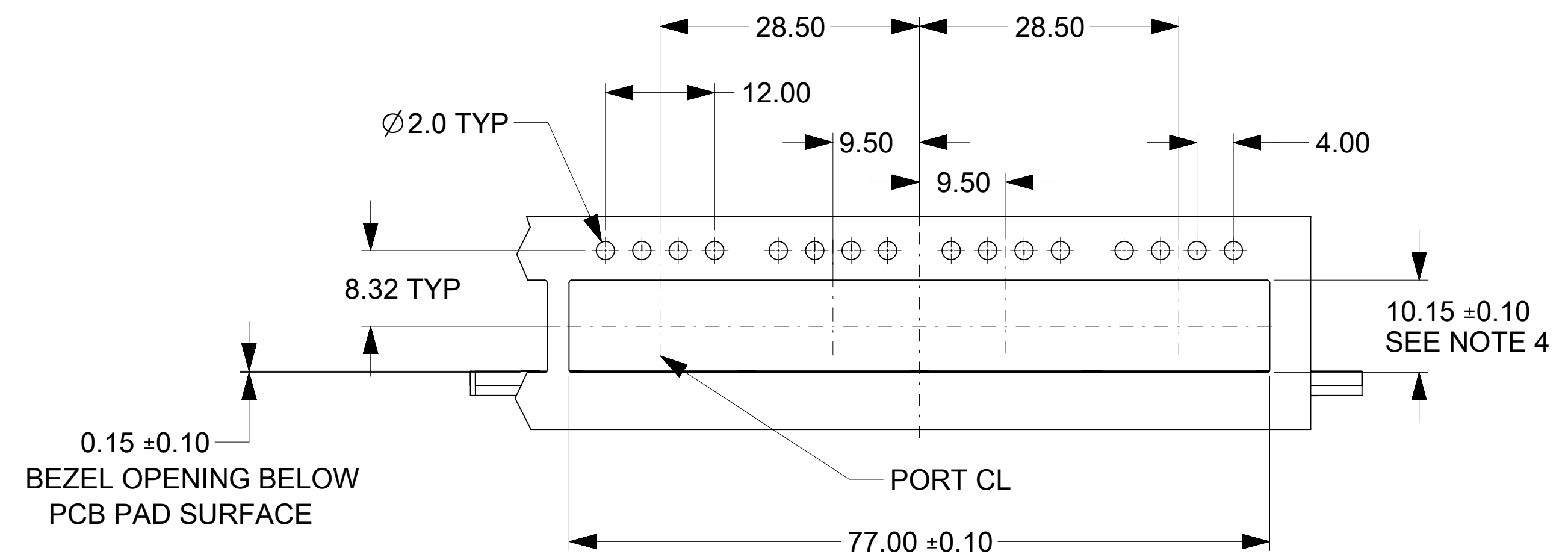
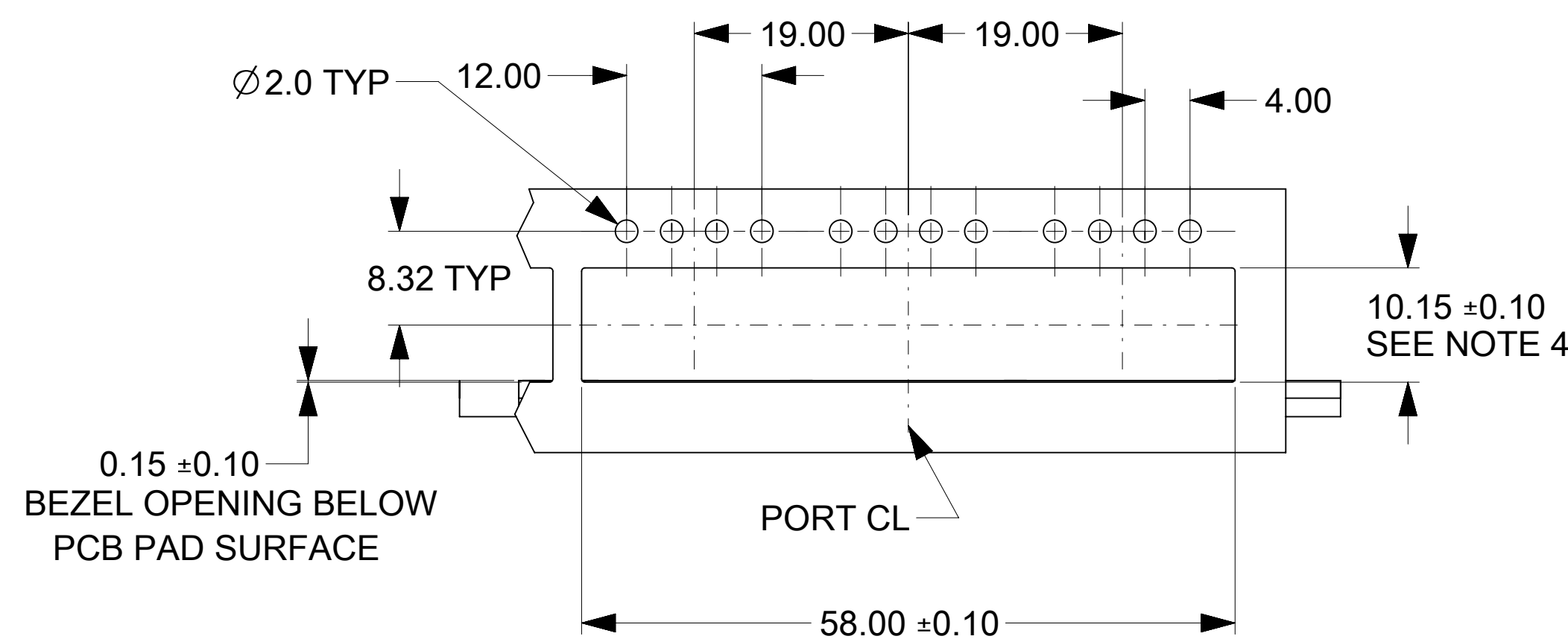
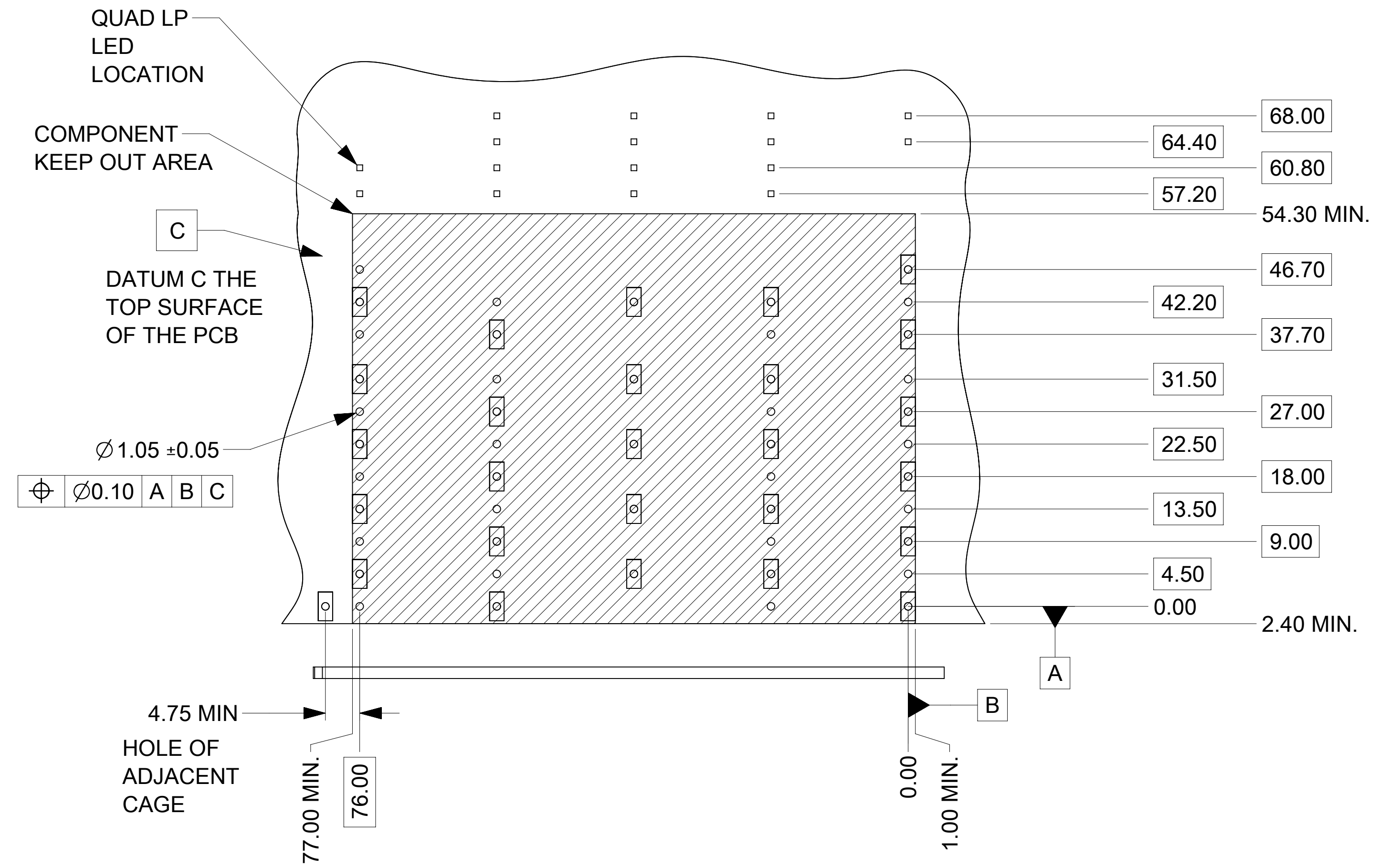
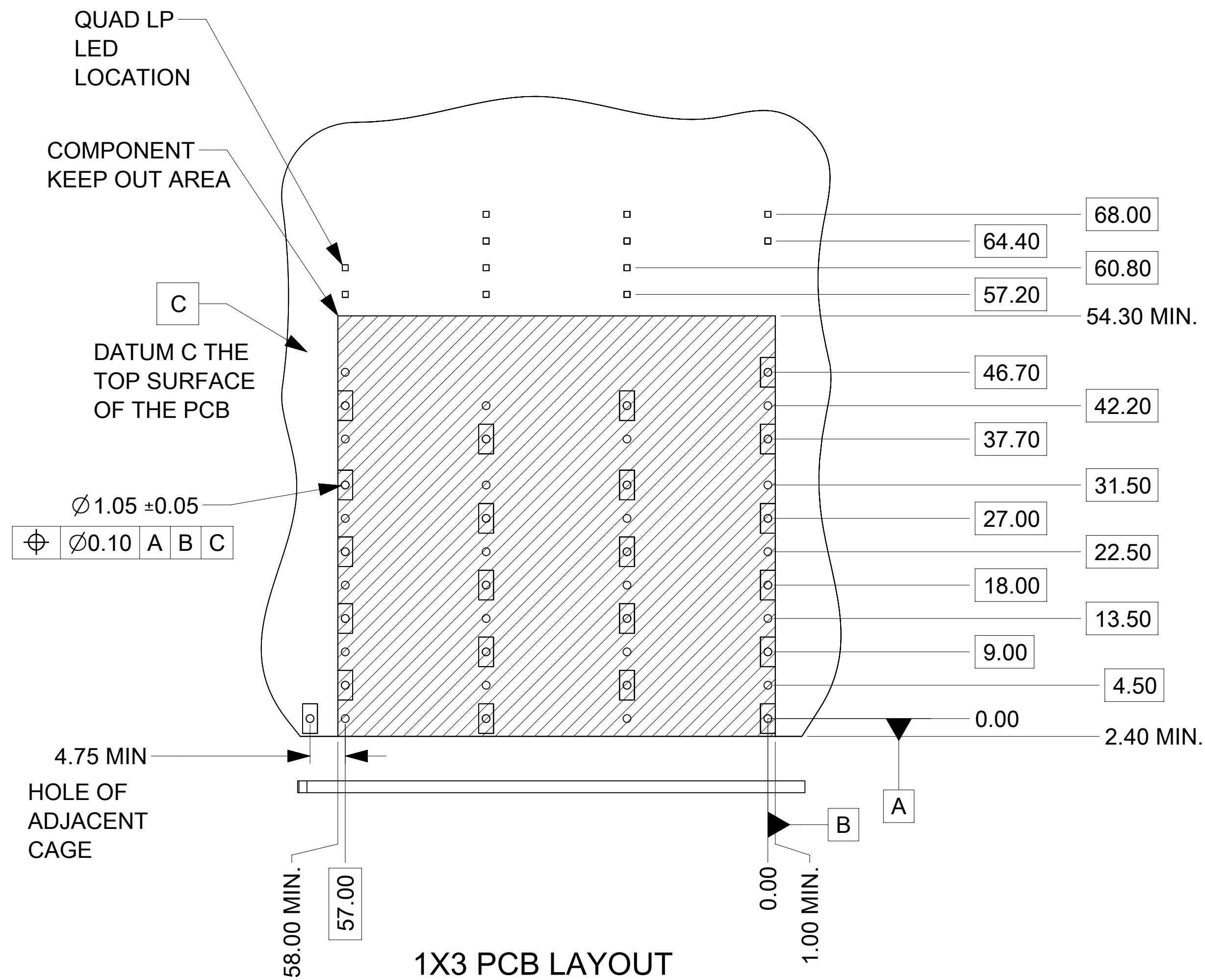


**NOTES:**

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM X 4.0MM SQUARE)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
3. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
4. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

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:
$\nabla = 0$	mm	2:1	
$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		
$\nabla = 0$	ANGULAR TOL	± °	
$\nabla = 0$	4 PLACES	±	
$\nabla = 0$	3 PLACES	±	
$\nabla = 0$	2 PLACES	±	
$\nabla = 0$	1 PLACE	±	
$\nabla = 0$	0 PLACES	±	
$\blacksquare = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
$\nabla = 0$	THIRD ANGLE PROJECTION	DRAWING	SERIES
		D-SIZE	111131
		EC NO: 691051	2020/02/20
		DRWN: ZDANDURAND	2022/01/14
		CHK'D: BCHEN06	2022/01/14
		APPR: BCHEN06	2022/01/14
		INITIAL REVISION:	
		DRWN: RWHIPPLE	2017/08/09
		APPR: JALEXANDER	2017/10/05
DOCUMENT NUMBER		DOC TYPE	DOC PART
1111310799		PSD	000
REVISION		H	
MATERIAL NUMBER		CUSTOMER	
1111310799		GENERAL MARKET	
SHEET NUMBER		13 OF 17	

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING



**NOTES:**

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM - 4.0MM SQUARE)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
3. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
4. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	
	DIMENSION UNITS	SCALE		
$\nabla = 0$	mm	2:1		
$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)			
$\nabla = 0$	ANGULAR TOL	$\pm$		
$\nabla = 0$	4 PLACES	$\pm$		
$\nabla = 0$	3 PLACES	$\pm$		
$\nabla = 0$	2 PLACES	$\pm$		
$\nabla = 0$	1 PLACE	$\pm$		
$\nabla = 0$	0 PLACES	$\pm$		
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
$\nabla = 0$			D-SIZE	111131
		EC NO: 691051		2020/02/20
		DRWN: ZDANDURAND		2022/01/14
		CHK'D: BCHEN06		2022/01/14
		APPR: BCHEN06		2022/01/14
		INITIAL REVISION:		
		DRWN: RWHIPPLE		2017/08/09
		APPR: JALEXANDER		2017/10/05
DOCUMENT STATUS		DOCUMENT NUMBER	DOC TYPE	DOC PART
P1	RELEASE DATE	1111310799	PSD	000
2022/01/14	21:04:26			
		MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		1111310799	GENERAL MARKET	14 OF 17

**molex**

ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP

PRODUCT CUSTOMER DRAWING

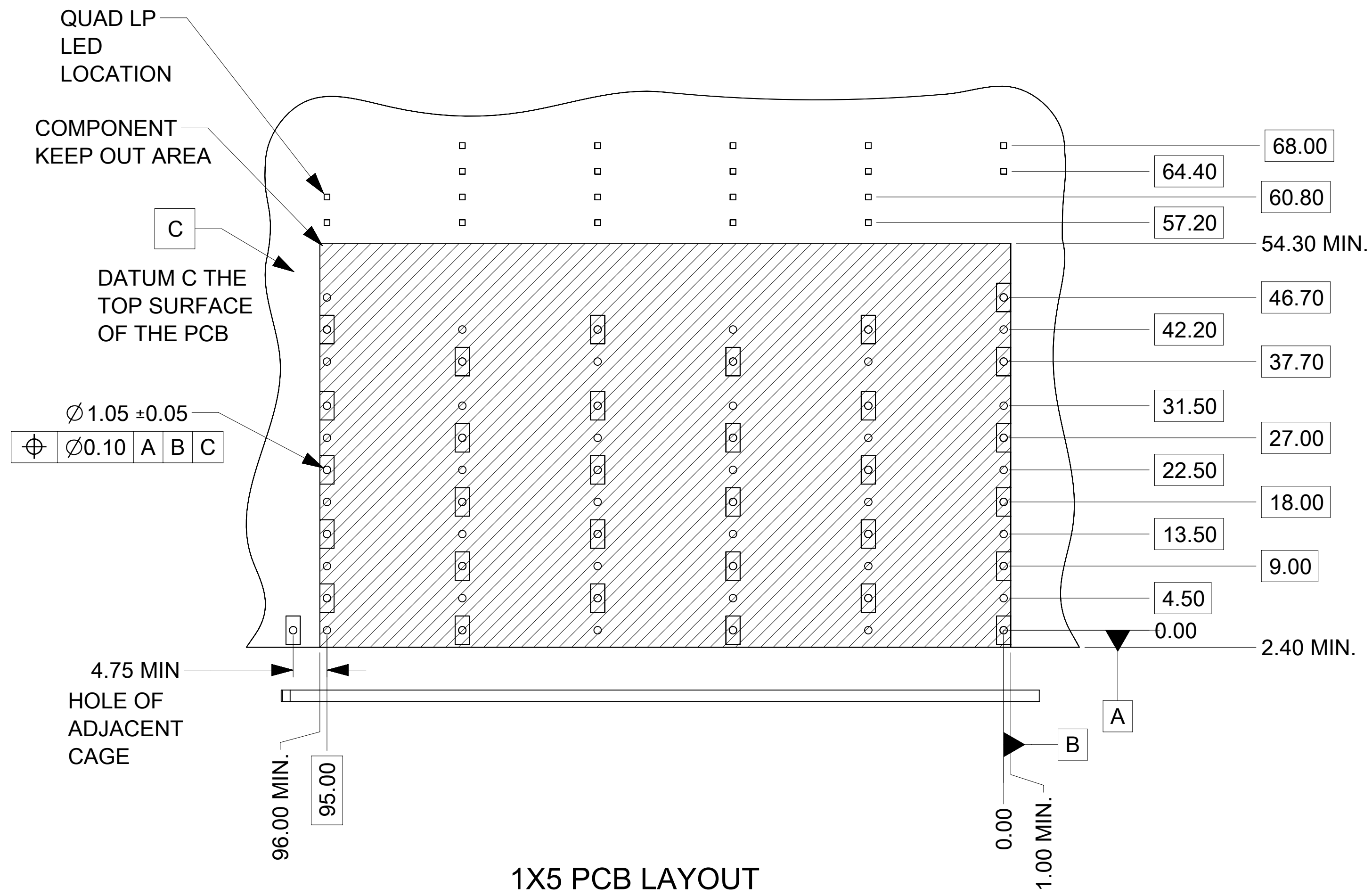
DOCUMENT NUMBER DOC TYPE DOC PART REVISION

1111310799 PSD 000 H

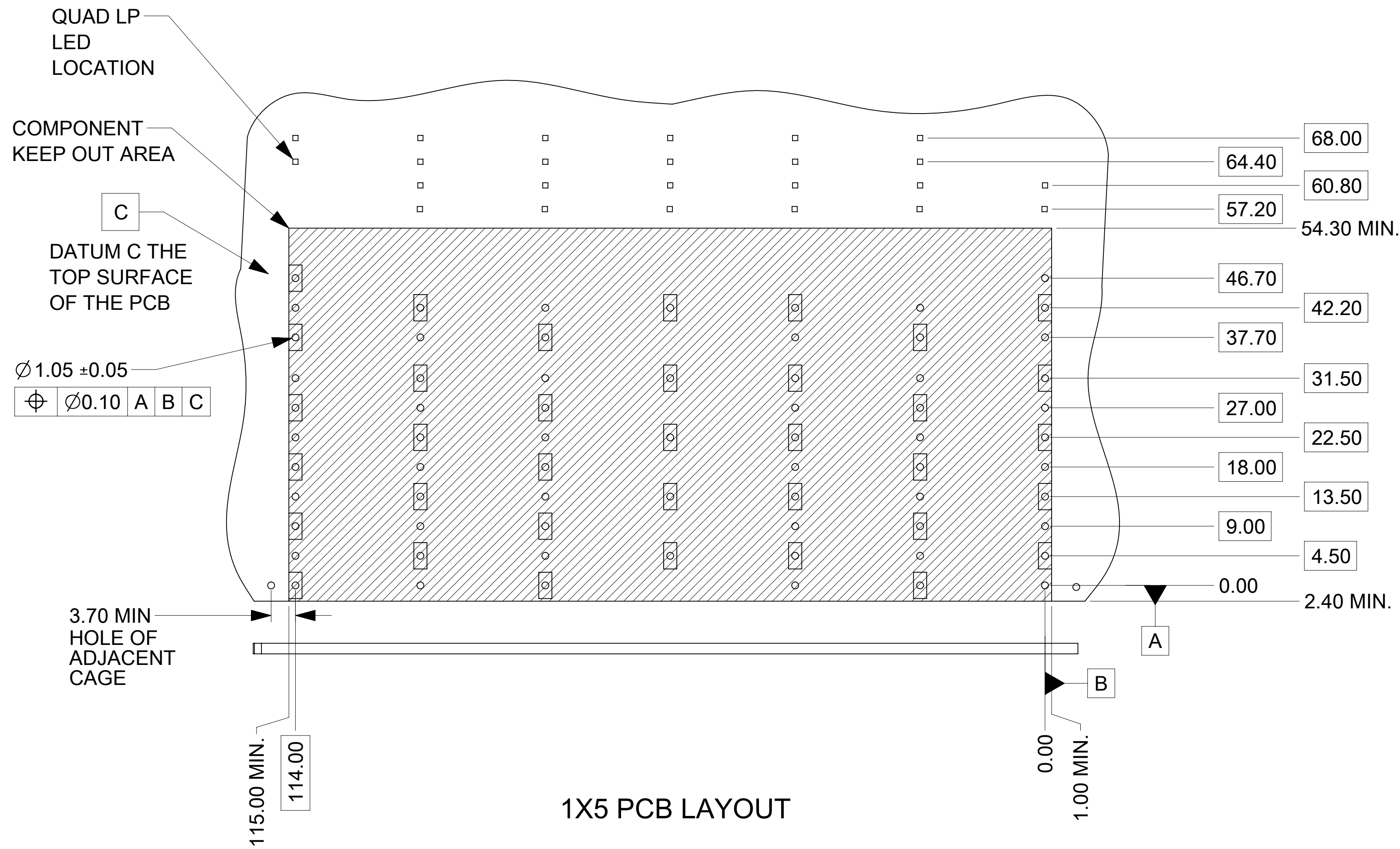
MATERIAL NUMBER CUSTOMER SHEET NUMBER

1111310799 GENERAL MARKET 14 OF 17

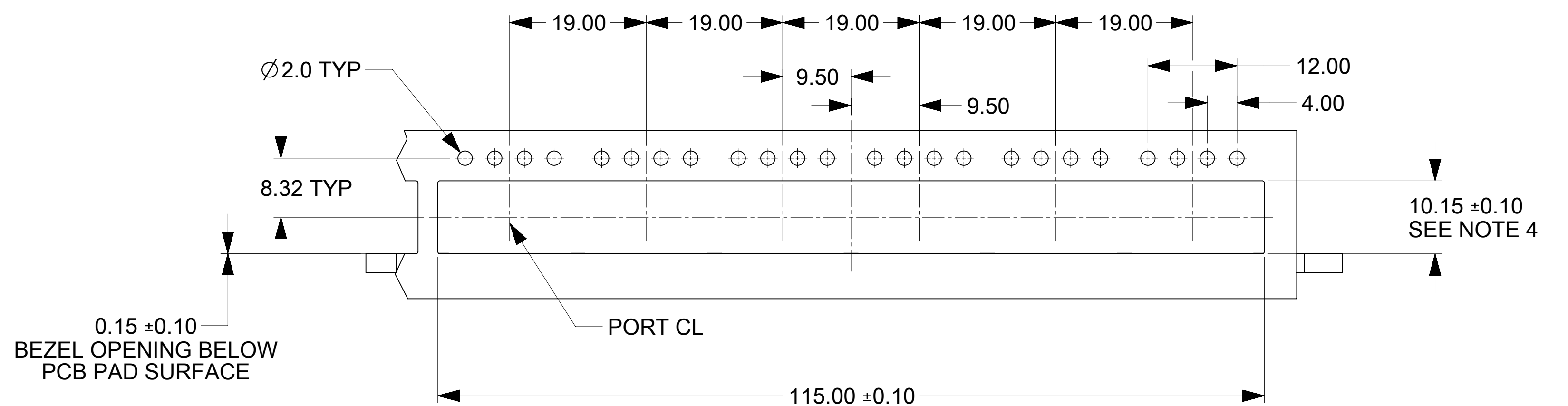
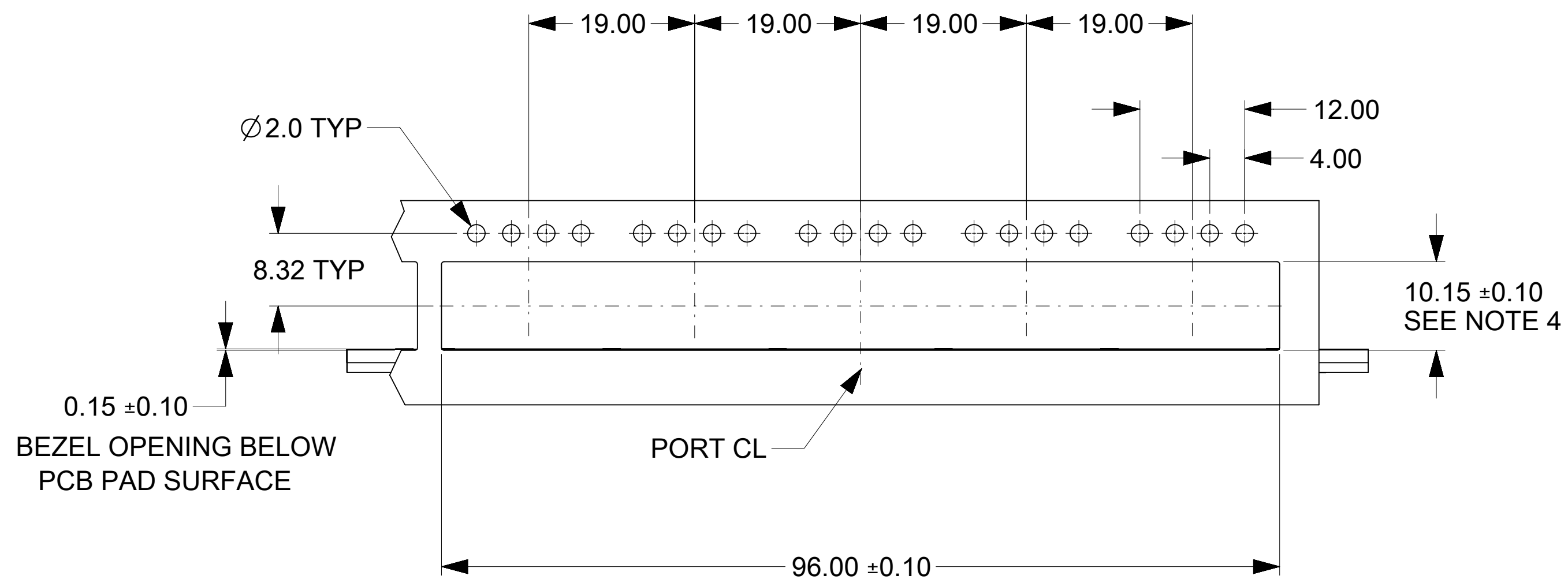
# PCB LAYOUT FOR BELLY TO BELLY MOUNTING



1X5 PCB LAYOUT



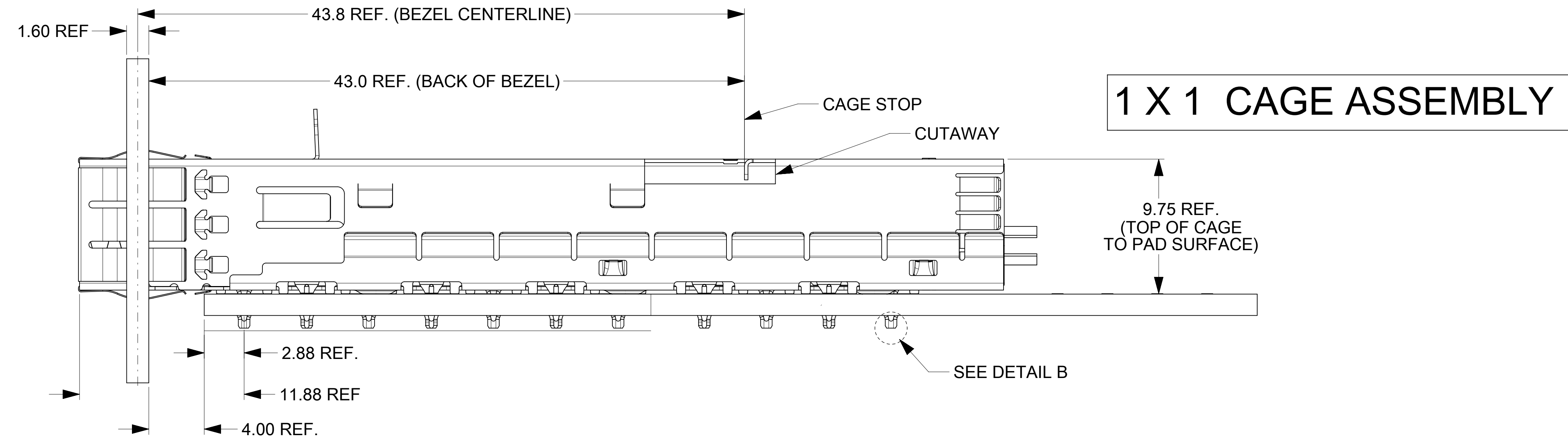
1X5 PCB LAYOUT



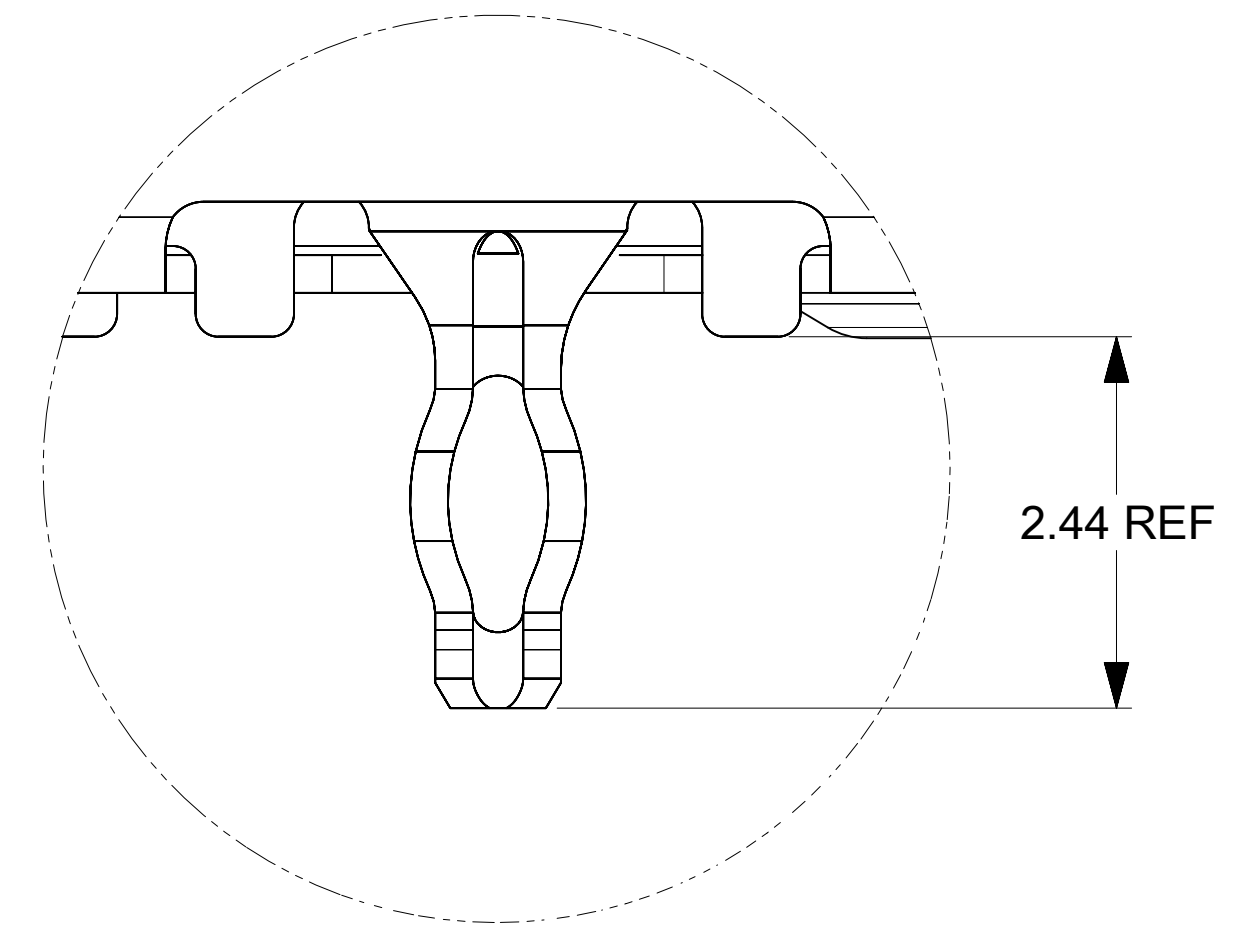
**NOTES:**

1. PADS AND VIAS GO TO CHASSIS GROUND. (RECOMMENDED PADS TO BE 2.0MM - 4.0mm SQUARE)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION Au, Ag OR Sn.
3. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00MM.
4. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		<b>molex</b>
	DIMENSION UNITS	SCALE			
▽ = 0	mm	1:1			ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± °		EC NO: 691051		PRODUCT CUSTOMER DRAWING
▽ = 0	4 PLACES ±		DRWN: ZDANDURAND 2020/02/20		
▽ = 0	3 PLACES ±		CHK'D: BCHEN06 2022/01/14		DOCUMENT NUMBER
▽ = 0	2 PLACES ±		APPR: BCHEN06 2022/01/14		
▽ = 0	1 PLACE ±		INITIAL REVISION:		1111310799
▽ = 0	0 PLACES ±		DRWN: RWHIPPLE 2017/08/09		
⊠ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: JALEXANDER 2017/10/05		DOC TYPE
▽ = 0	THIRD ANGLE PROJECTION		DRAWING		DOC PART
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MATERIAL NUMBER			CUSTOMER		SHEET NUMBER
111131			GENERAL MARKET		15 OF 17

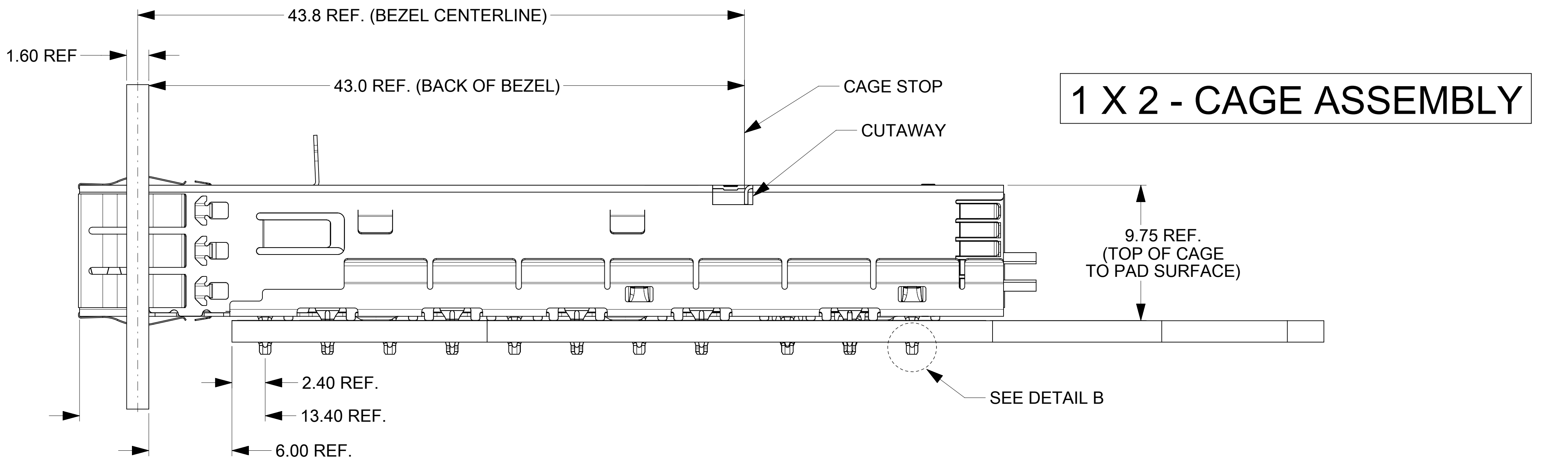


**1 X 1 CAGE ASSEMBLY**

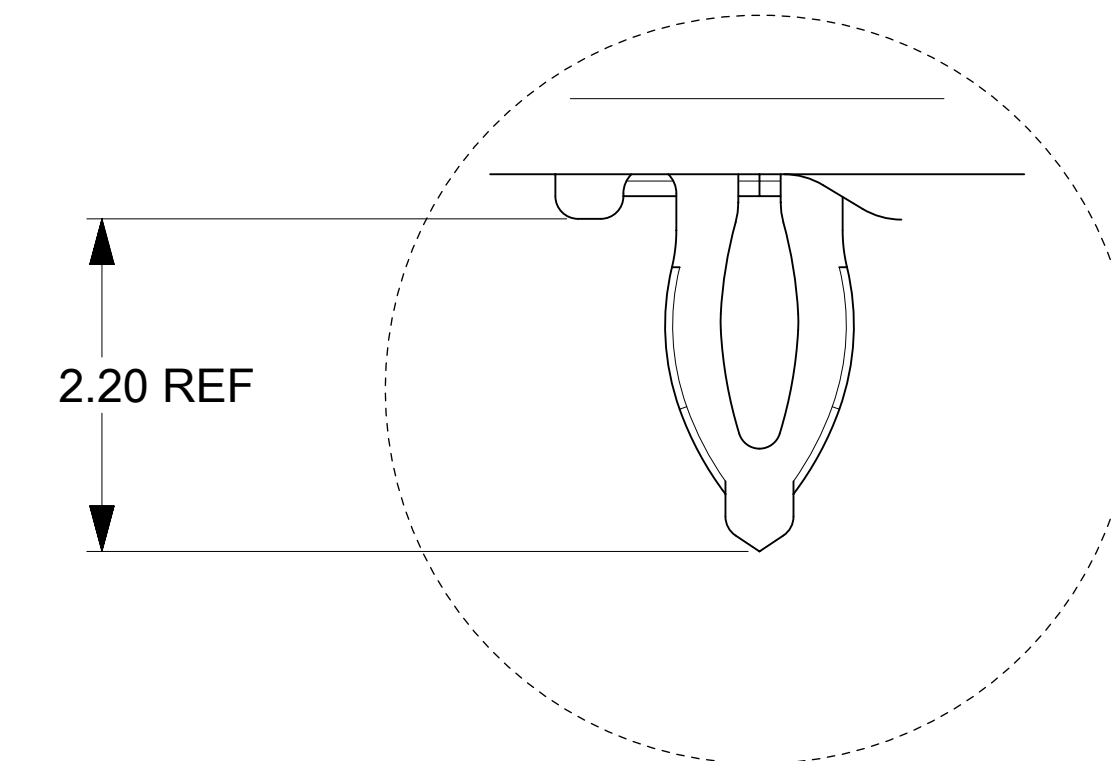


CAGE ASSEMBLIES 1X1 AND 1X2 USE 3D PINS

DETAIL B  
SCALE 20:1

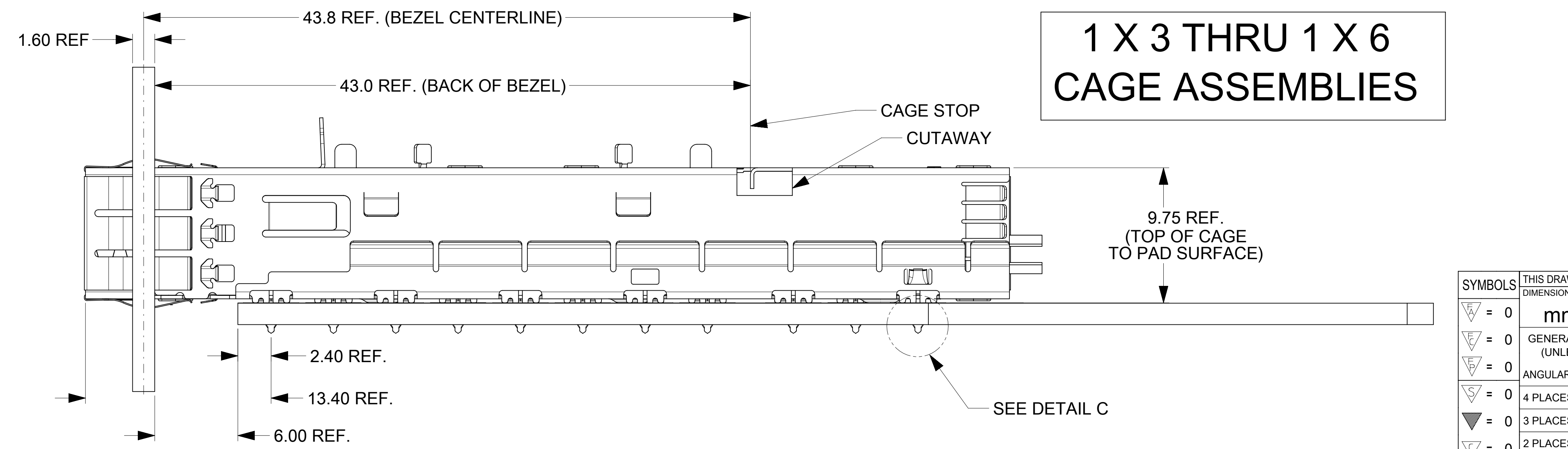


**1 X 2 - CAGE ASSEMBLY**



CAGE ASSEMBLIES 1X3 - 1X6 AND 1X2 USE 2D PINS

DETAIL C  
SCALE 20:1



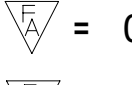
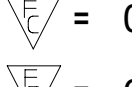
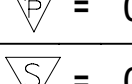

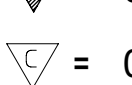
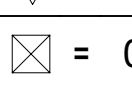

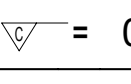

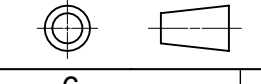
**1 X 3 THRU 1 X 6  
CAGE ASSEMBLIES**

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:								
▽ = 0	mm	1:1	EC NO: 691051								
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: ZDANDURAND 2020/02/20							PRODUCT CUSTOMER DRAWING	
▽ = 0	ANGULAR TOL ± °		CHK'D: BCHEN06 2022/01/14							DOCUMENT NUMBER	
▽ = 0	4 PLACES ±		APPR: BCHEN06 2022/01/14							1111310799	
▽ = 0	3 PLACES ±		INITIAL REVISION:							DOC TYPE	
▽ = 0	2 PLACES ±		DRWN: RWHIPPLE 2017/08/09							PSD 000	
▽ = 0	1 PLACE ±		APPR: JALEXANDER 2017/10/05							DOC PART	
▽ = 0	0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							H	
▽ = 0	THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		
▽ = 0	D-SIZE		111131		1111310799		GENERAL MARKET		SHEET NUMBER		
									16 OF 17		



REVISION HISTORY

DATE	REV	DESCRIPTION
10/04/2017	A	INITIAL RELEASE
10/06/2017	B	CORRECTION BASIC DIMENSIONS ON 1X1 PCB LAYOUT VIEW, SHEET 4
12/12/2017	C	1. CLARIFIED WIRING DIAGRAM 2. MODIFIED VIEWS FOR CLARITY 3. ADDED HEAT SINK INFOMATION
02/08/2018	C1	1. SHEET 13, UPDATED VIEWS FOR CLARITY
07/18/2018	D	1. ADDED PART NUMBER 1111311945. SHEET 2, PART NUMBER TABLE. 2. ADDED REF DIMENSIONS ON LIGHT PIPES, SHEET 1. 3. ADDED PICO CLASP OVERMOLD NEAR CONNECTOR FOR REPRESENTATION OF FINAL ASSEMBLY.
08/07/2018	E	1. UPDATED VIEW ON 1X2 CAGE ASSEMBLY. SHEET 16. 2. UPDATED CAGE HEIGHT ON 1X3-1X6 CAGE ASSEMBLIES. SHEET 16, ZONE C10. 3. UPDATED PIN REF HEIGHTS. SHEET 16, ZONES E16 AND J2. 4. UPDATED DATUM A REFERENCE ON 1X1 PCB LAYOUT. SHEET 10, ZONE F15. 5. ADDED NEARSTACK CONNECTOR VIEW. SHEET 1. 6. ADDED LIGHT PIPE OPTIONS. SHEET 8. 7. ADDED COMPONENT KEEPOUT AREA MIN. DIMENSIONS. PCP LAYOUT SHEETS.
06/19/2019	F	1. UPDATED SHEETS TO REMOVE PRE-RELEASE SIGN 2. ADDED NOTE 8 AND LASER ETCHING TO SHEET 1
01/09/2020	G	1. ADDED NEARSTACK PULLBALE ON SHEET 1
2021/12/31	H	1. ADDED F/G PN FOR NEARSTACK GEN 2.0 2. UPADTE NOTES 6

<b>SYMBOLS</b>  = 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		CURRENT REV DESC:		 ENHANCED ZQSFP+ NEARSTACK TO PICO CLASP PRODUCT CUSTOMER DRAWING		
	DIMENSION UNITS	SCALE	EC NO: 691051				
	mm	1:1	DRWN: ZDANDURAND	2020/02/20			
	GENERAL TOLERANCES (UNLESS SPECIFIED)		CHK'D: BCHEN06	2022/01/14			
	ANGULAR TOL	± °	APPR: BCHEN06	2022/01/14			
	4 PLACES	±	INITIAL REVISION:				
	3 PLACES	±	DRWN: RWHIPPLE	2017/08/09			
	2 PLACES	±	APPR: JALEXANDER	2017/10/05			
	1 PLACE	±	DOCUMENT NUMBER				
	0 PLACES	±	1111310799				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	DOC TYPE	DOC PART	REVISION
			D-SIZE	111131	PSD	000	H
		MATERIAL NUMBER		CUSTOMER	SHEET NUMBER		
		GENERAL MARKET		17 OF 17			