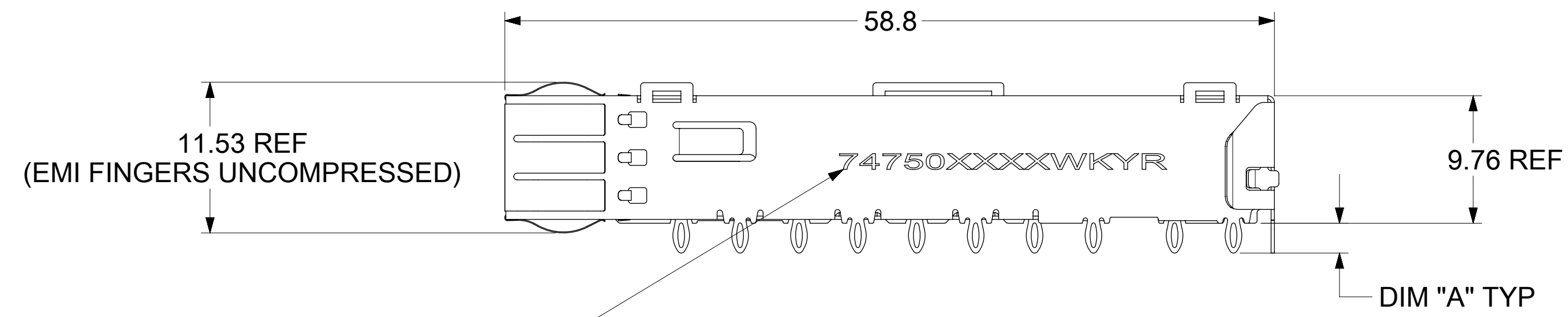
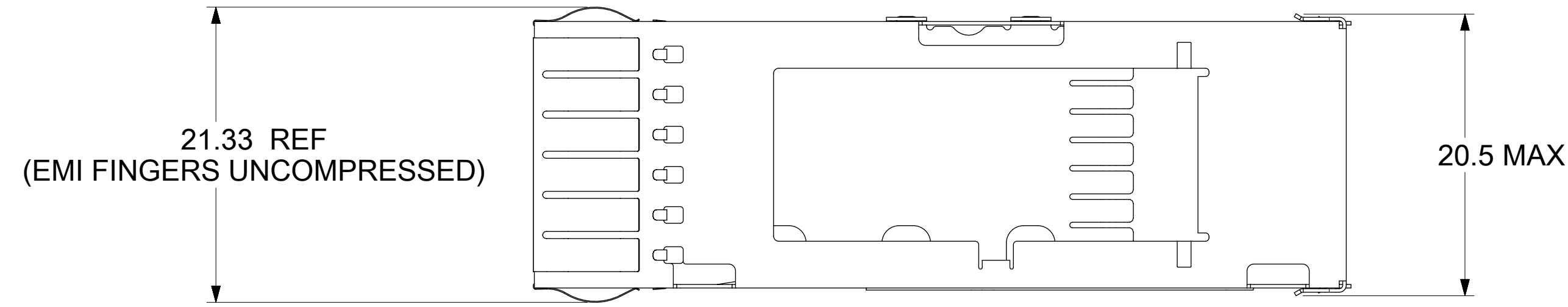


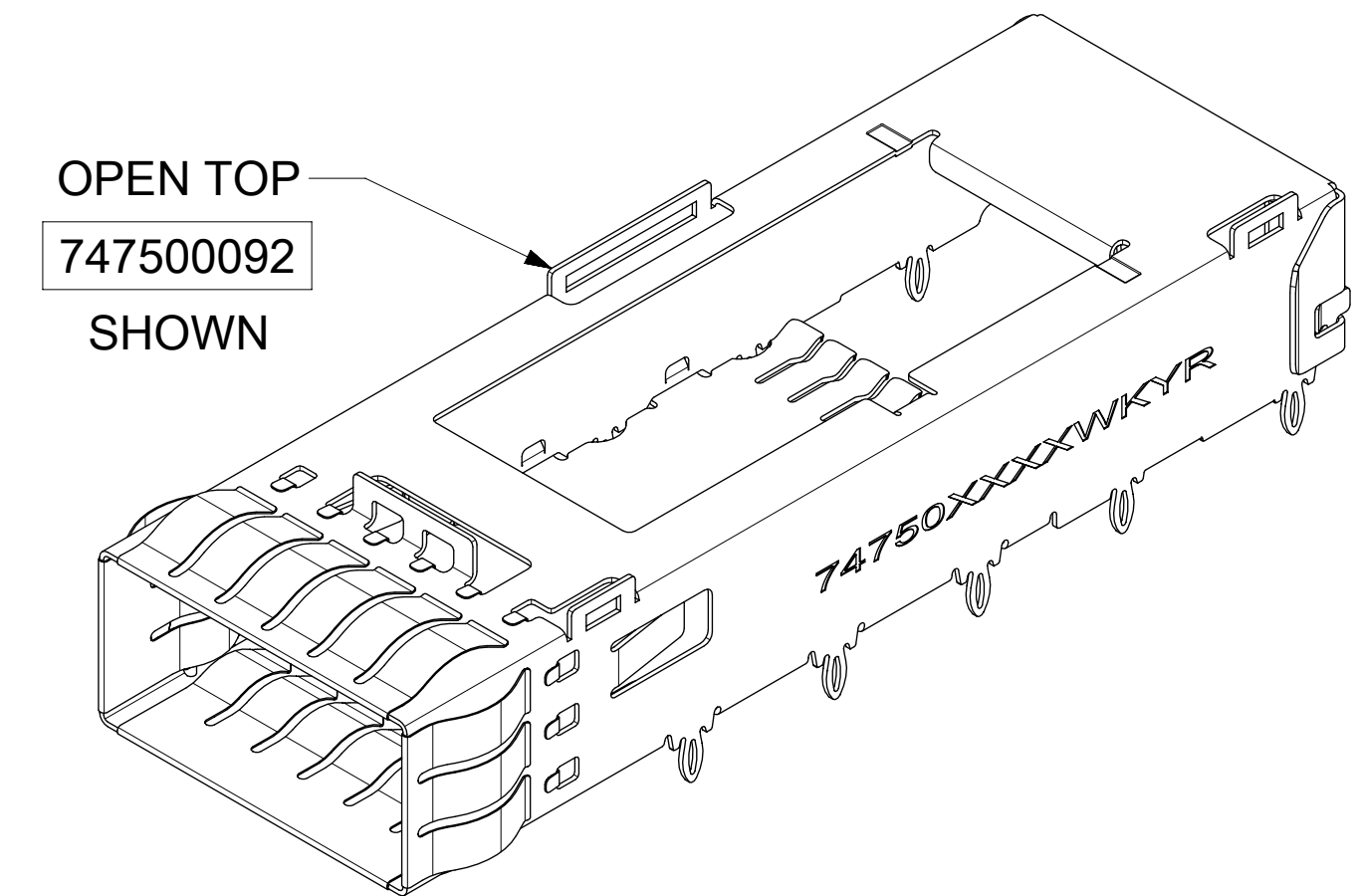
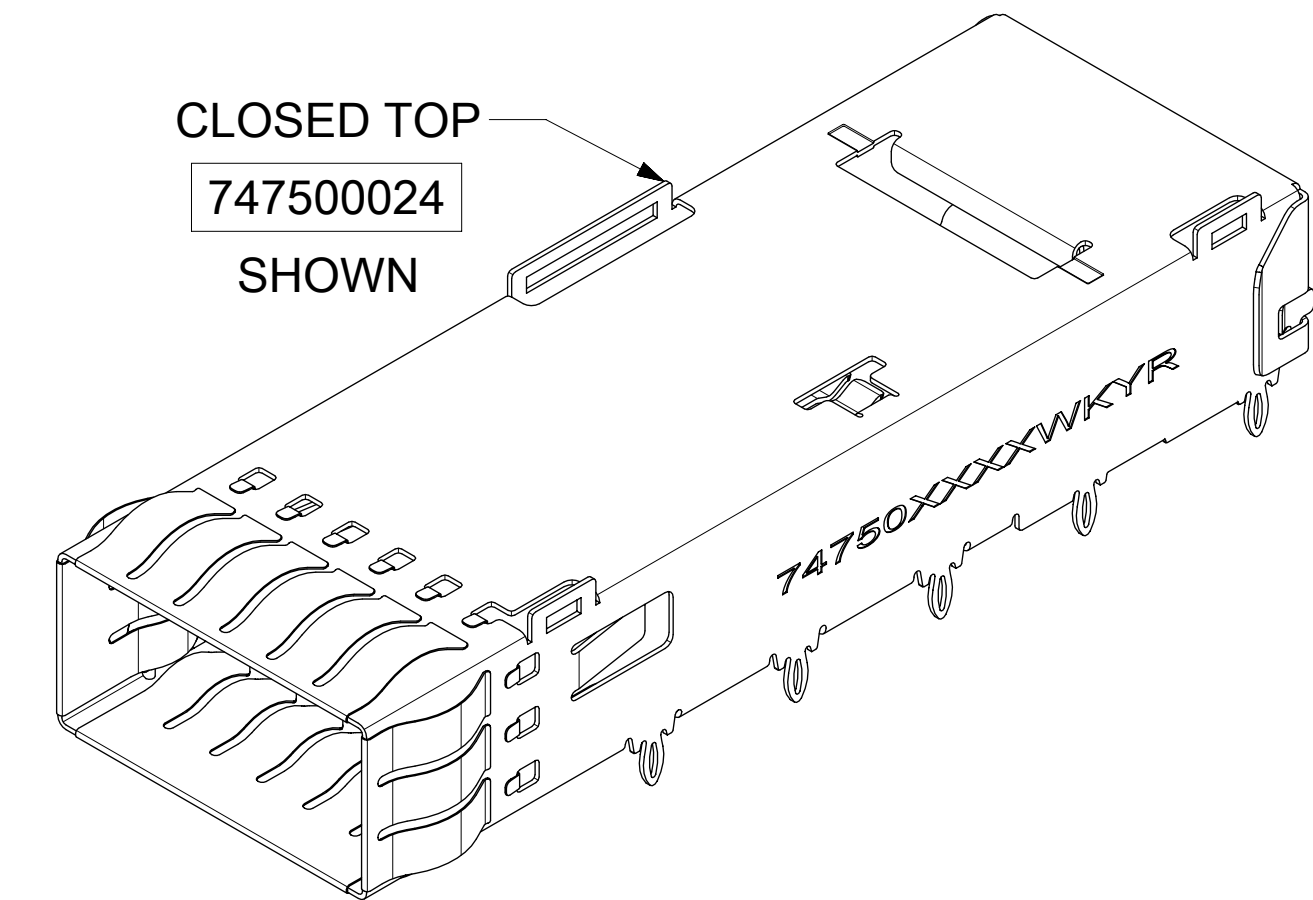
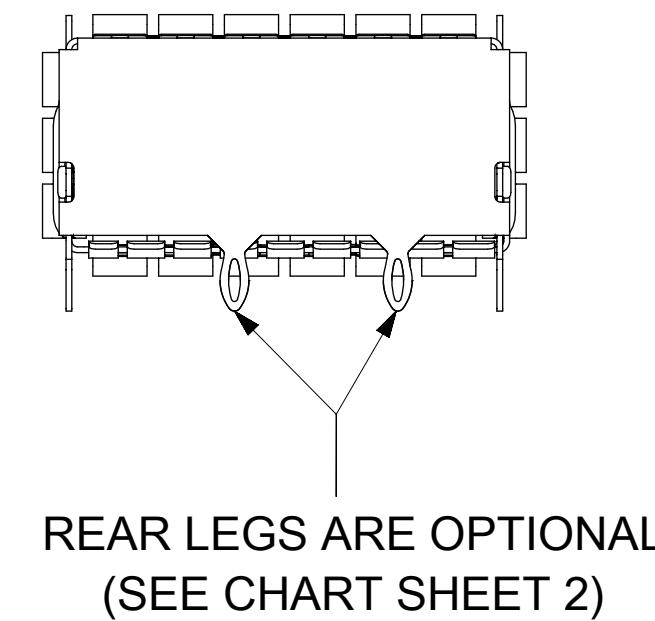
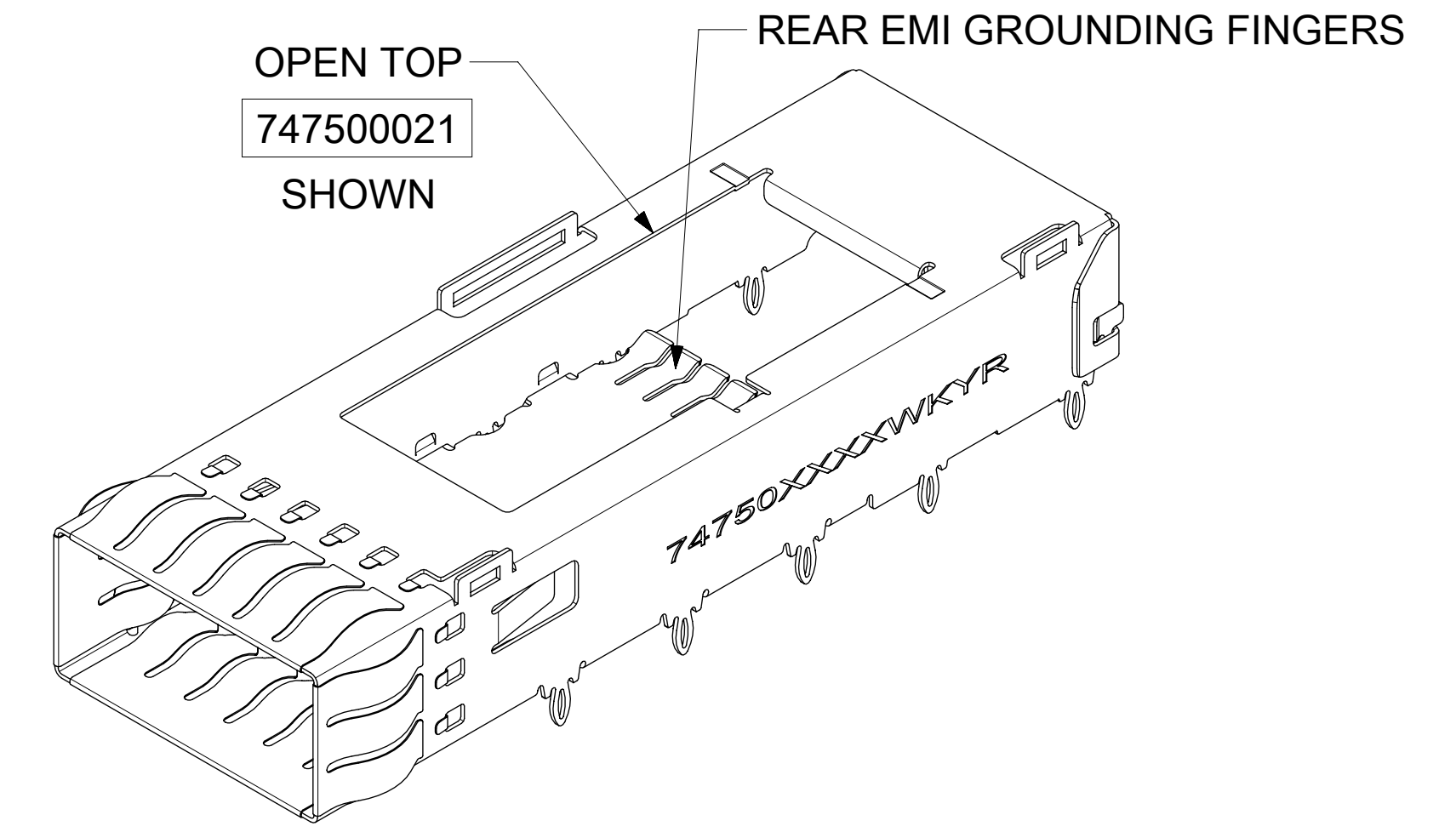
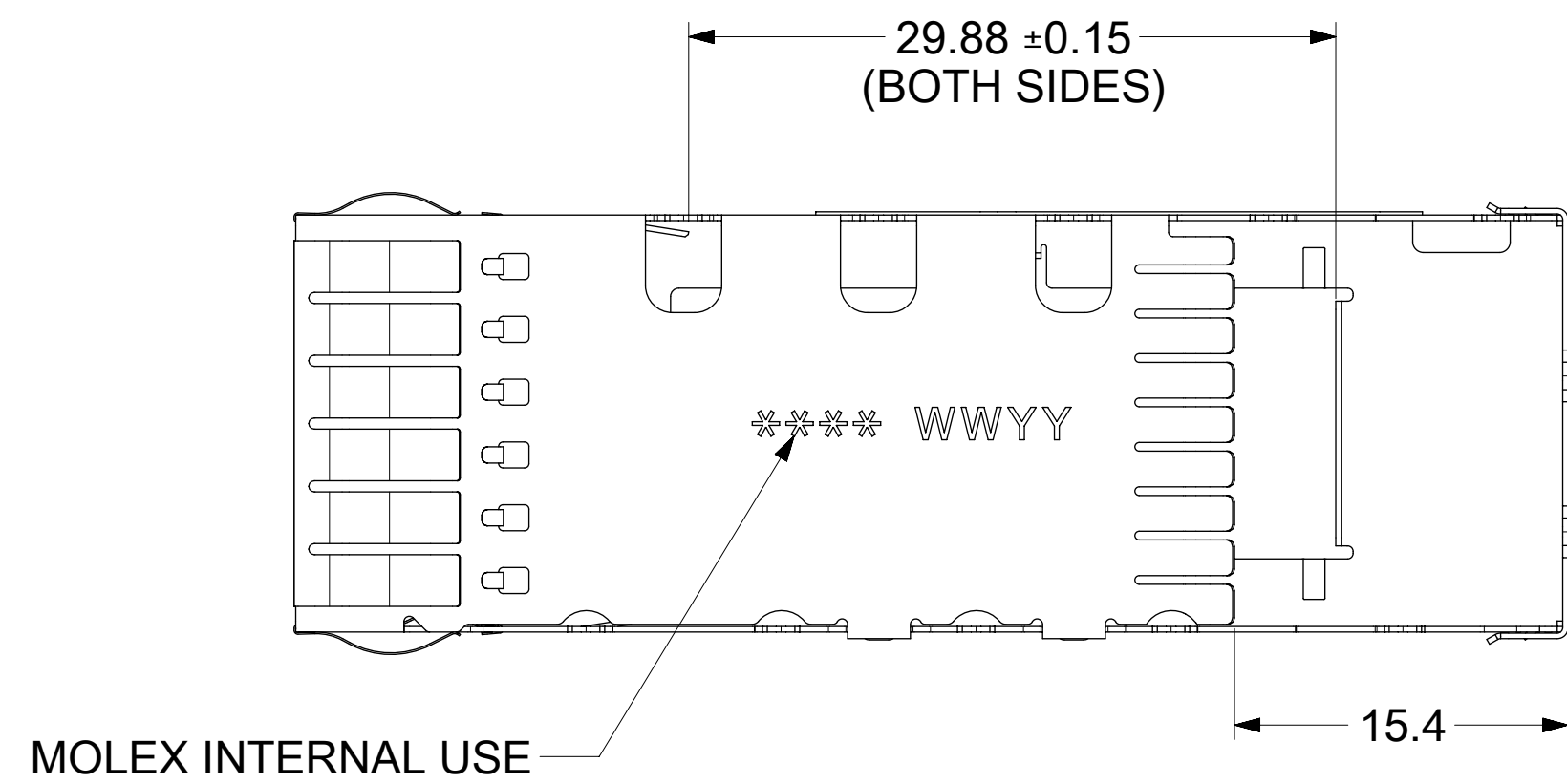
BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON SIDE OF COMPLETED CAGE ASSEMBLY AS SHOWN.

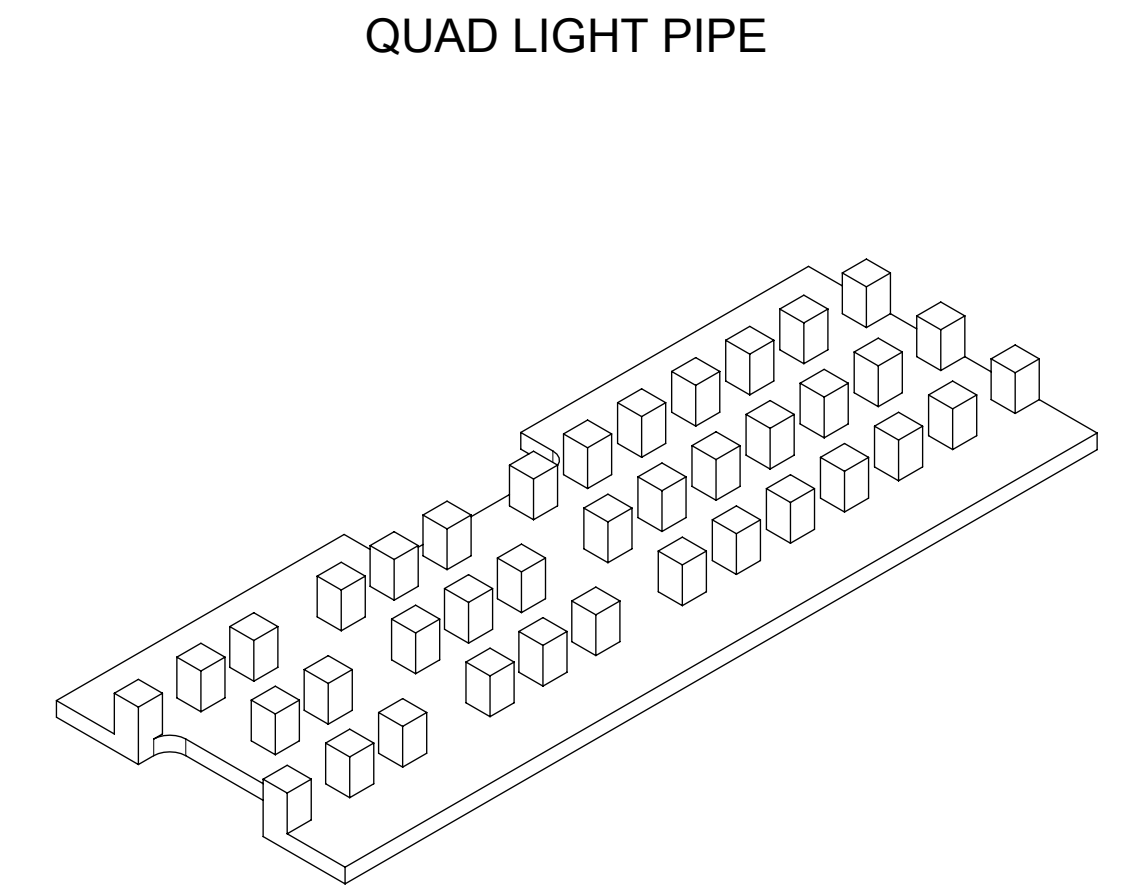
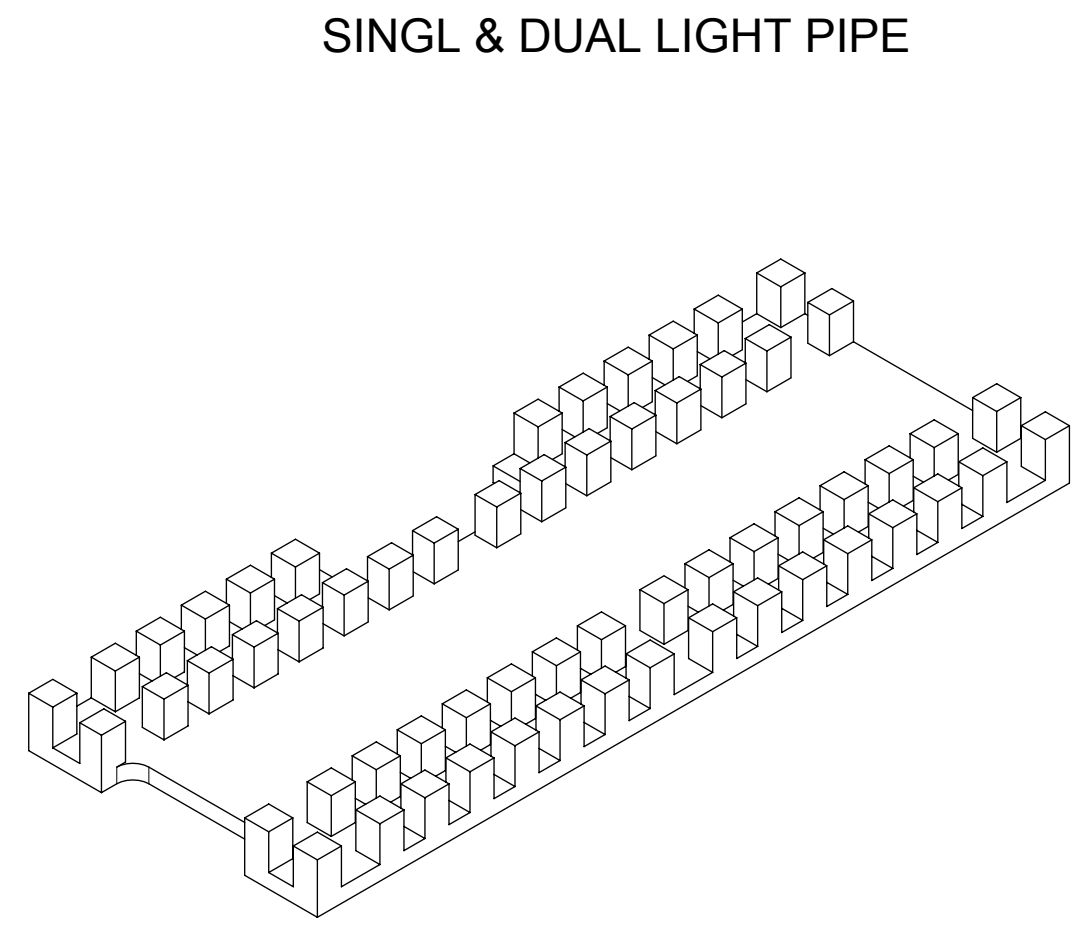
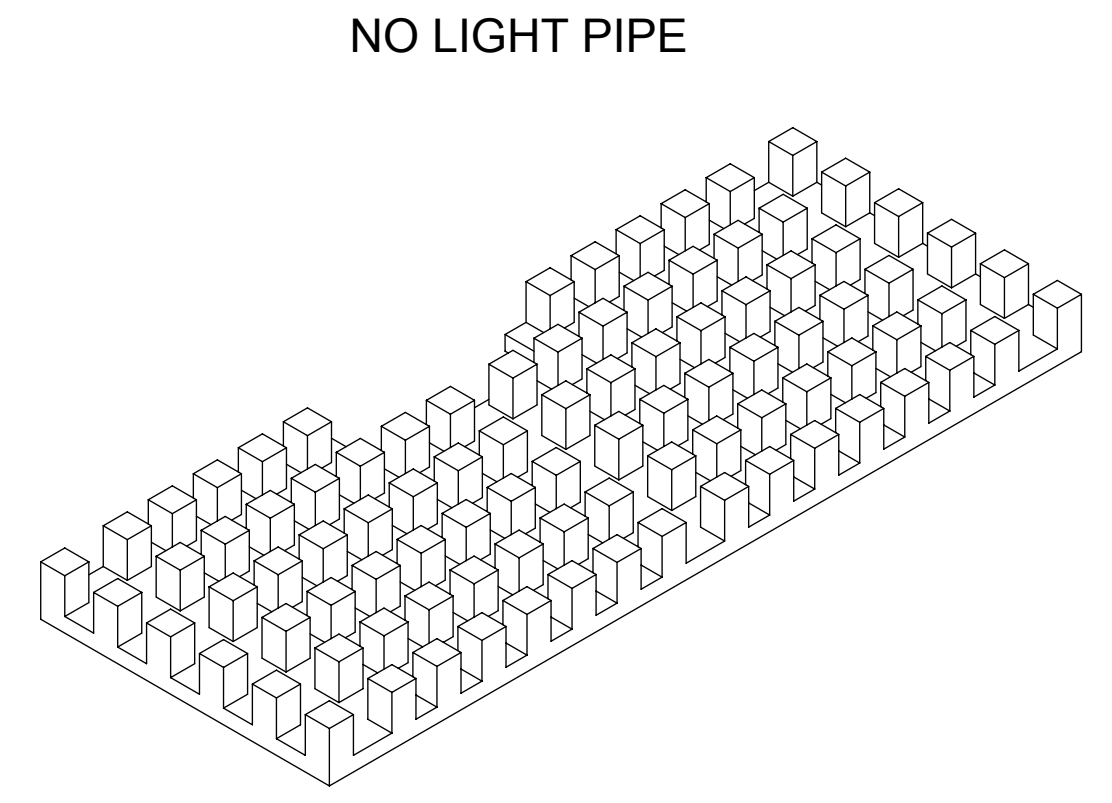
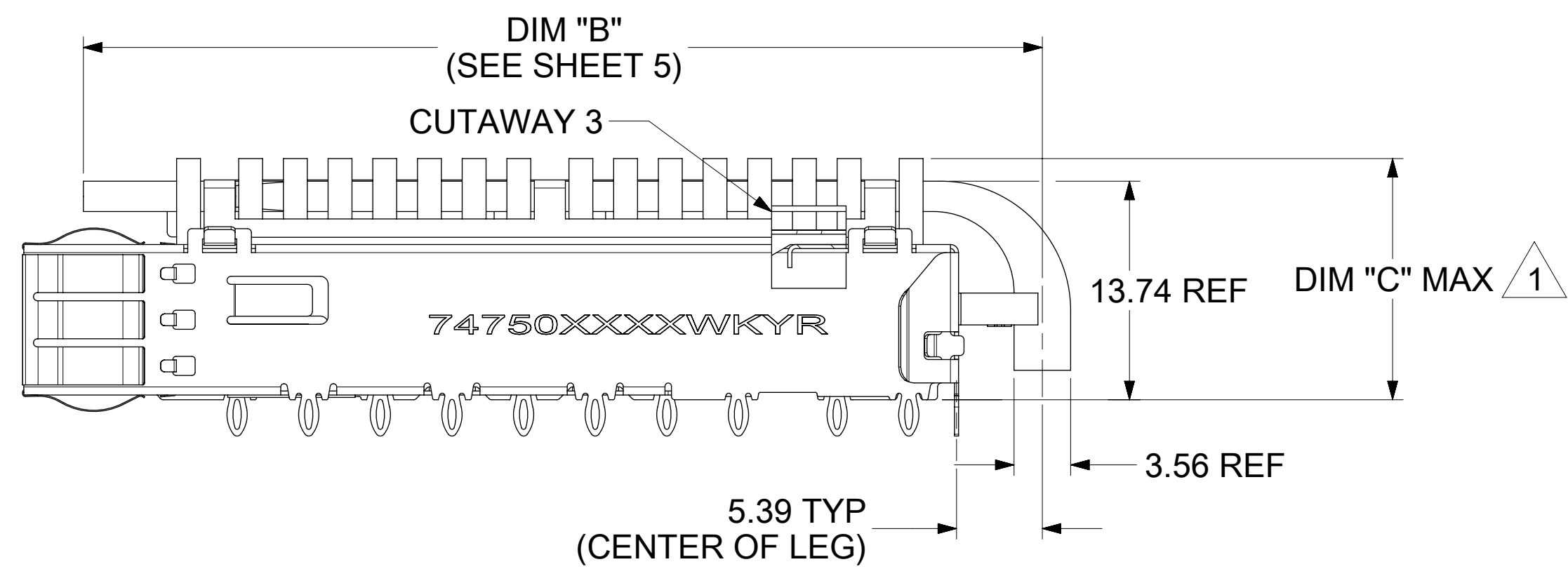
WEEK/YEAR DATE CODE TABLE	
WK	01 THRU 52 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YR	17, 18, 19 ETC. EXAMPLE: YEAR 2017 = 17



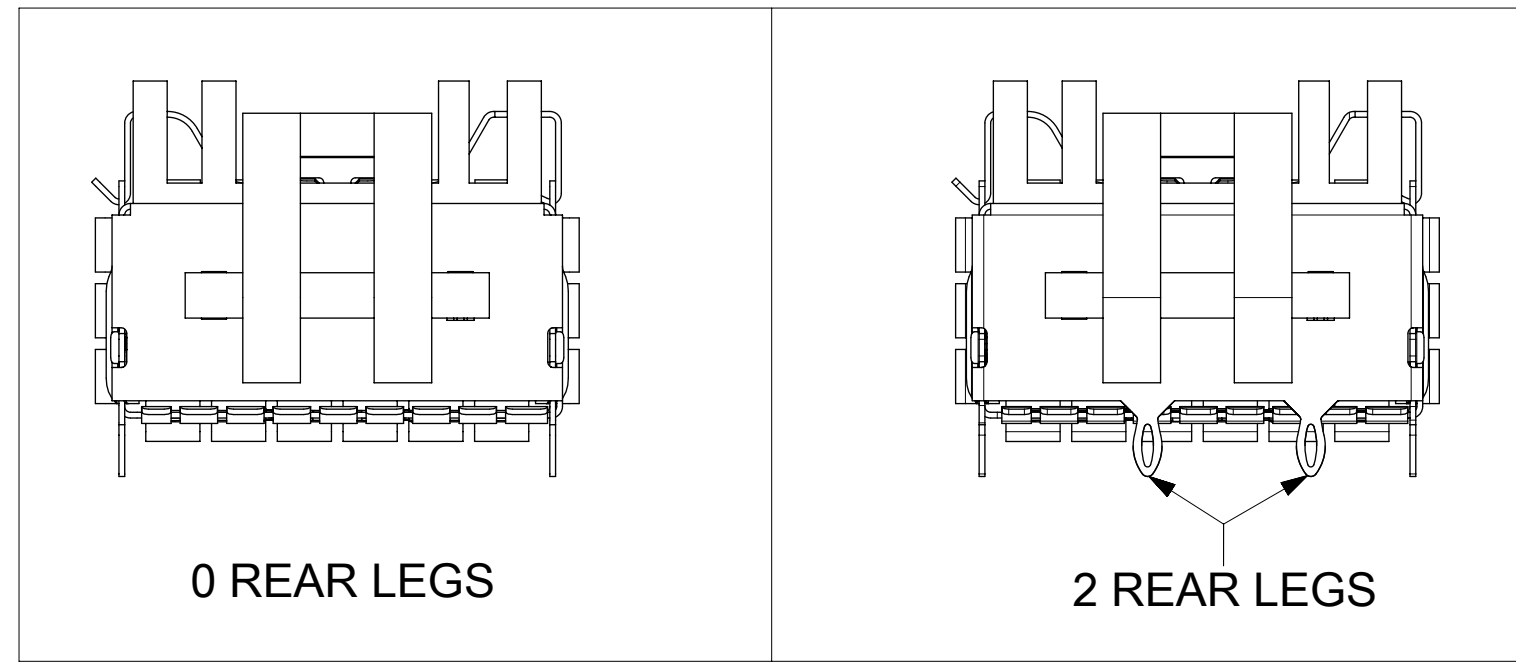
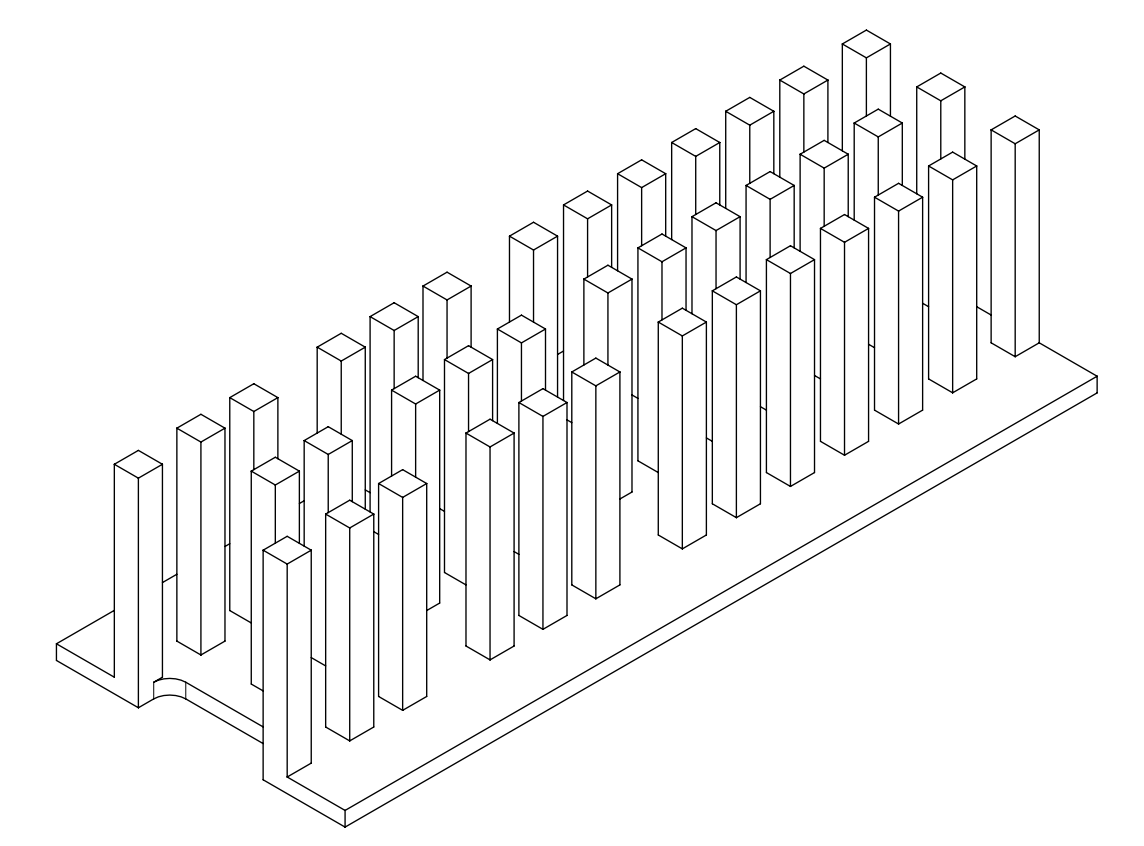
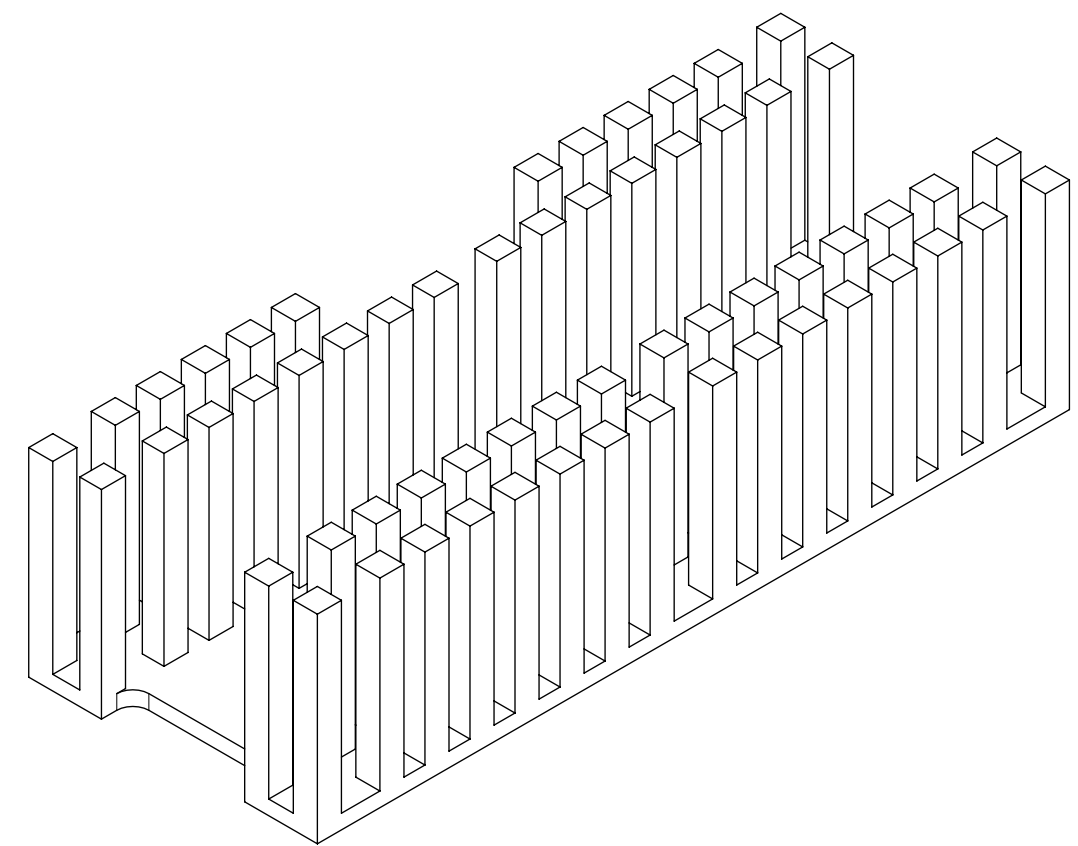
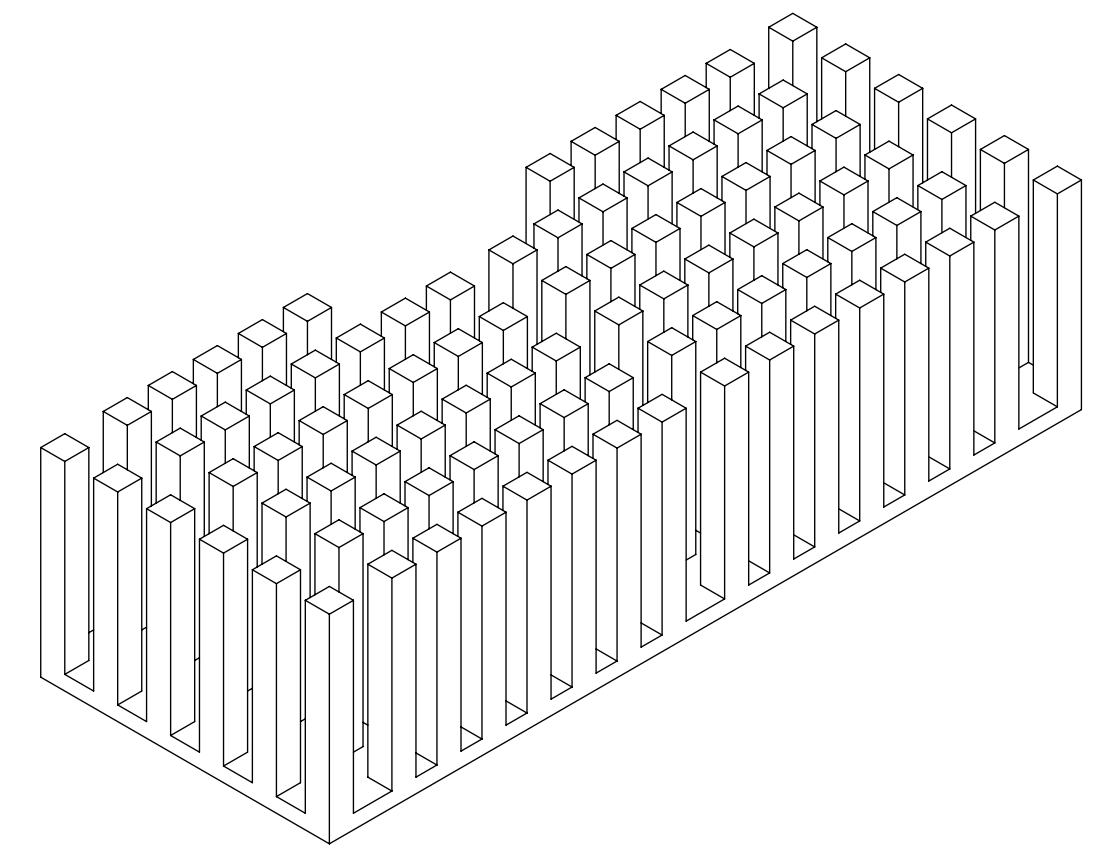
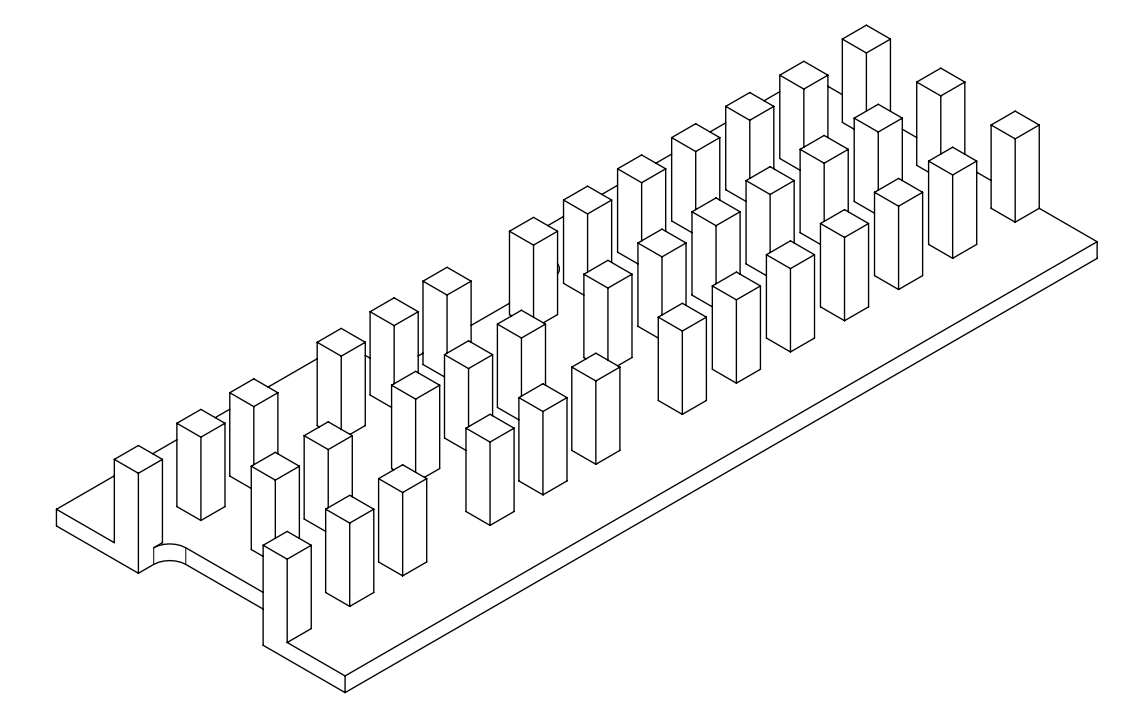
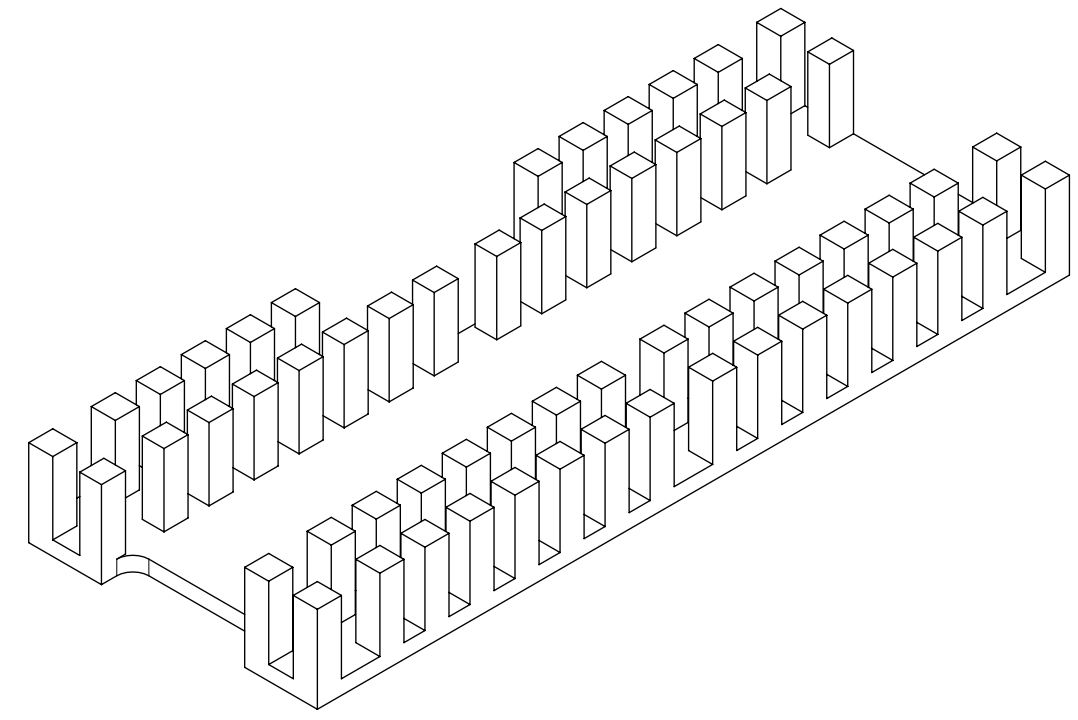
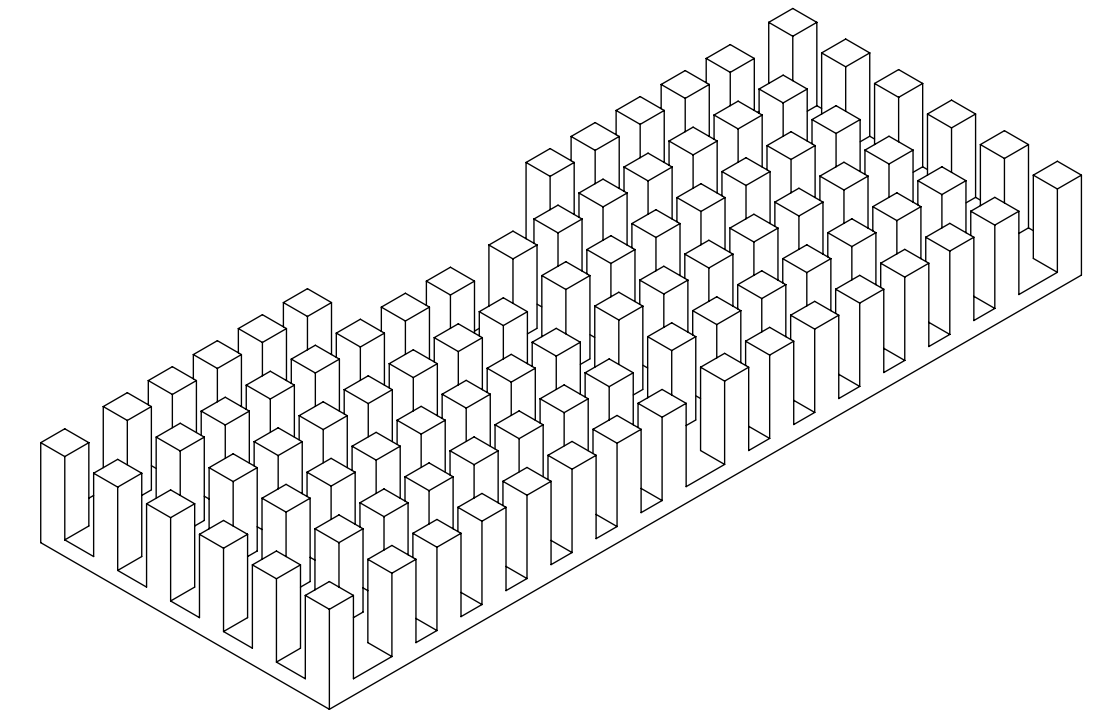
- NOTES:
1. QSFP+ ASSEMBLIES ALSO AVAILABLE WITH 1X2 (74767 SERIES), 1X3 (74768 SERIES), 1X4 (74769 SERIES) AND 1X6 (74771 SERIES) CONFIGURATIONS.
 2. MATERIAL:
 LIGHT PIPE/HEATSINK CLIP: STAINLESS STEEL
 LIGHT PIPES: POLYCARBONATE (UL 94-V-0 RATED)
 HEAT SINKS: BLACK ANNOXIDIZED ALUMINUM
 CAGE: COPPER ALLOY, NICKEL PLATED
 3. NO RoHS EXEMPTIONS
 4. CUSTOM HEATSINKS AVAILABLE UPON REQUEST

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457									
mm	NTS										
GENERAL TOLERANCES (UNLESS SPECIFIED)								QSFP+ 1X1 CAGE ASSEMBLY WITH SPRING FINGER TYPE			
ANGULAR TOL ± 1.0°								PRODUCT CUSTOMER DRAWING			
4 PLACES ±		EC NO: 680890		2021/05/14		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
3 PLACES ±		DRWN: SANTHN		2021/11/25		747500021		PSD	ASY	N1	
2 PLACES ± 0.13		CHK'D: GGA		2021/11/25							
1 PLACE ± 0.25		APPR: GGA		2021/11/25							
0 PLACES ±		INITIAL REVISION:									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: SJKG		2016/06/23		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
		APPR: RCHEN08		2017/06/05		74750		GENERAL MARKET		1 OF 12	
		THIRD ANGLE PROJECTION		DRAWING		SERIES					
		D-SIZE		74750							

CAGE ASSEMBLY OPTIONS



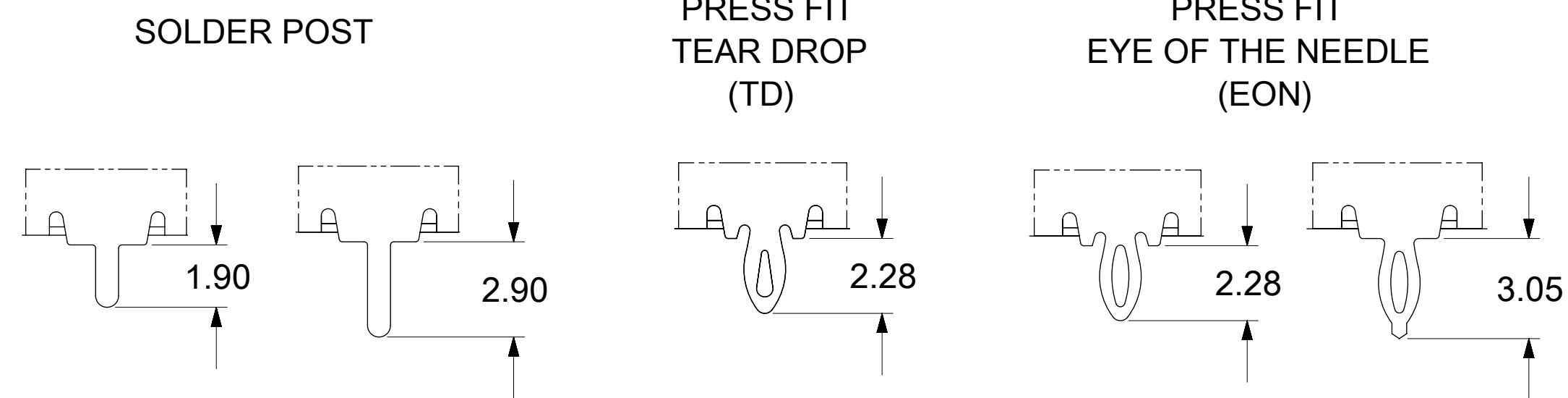
REAR LEG OPTIONS



LEG OPTIONS

HEAT SINK HEIGHT OPTIONS

OVERALL HEAT SINK HEIGHT	DIM C
PCI	13.7
SAN	16.0
NET	23.0



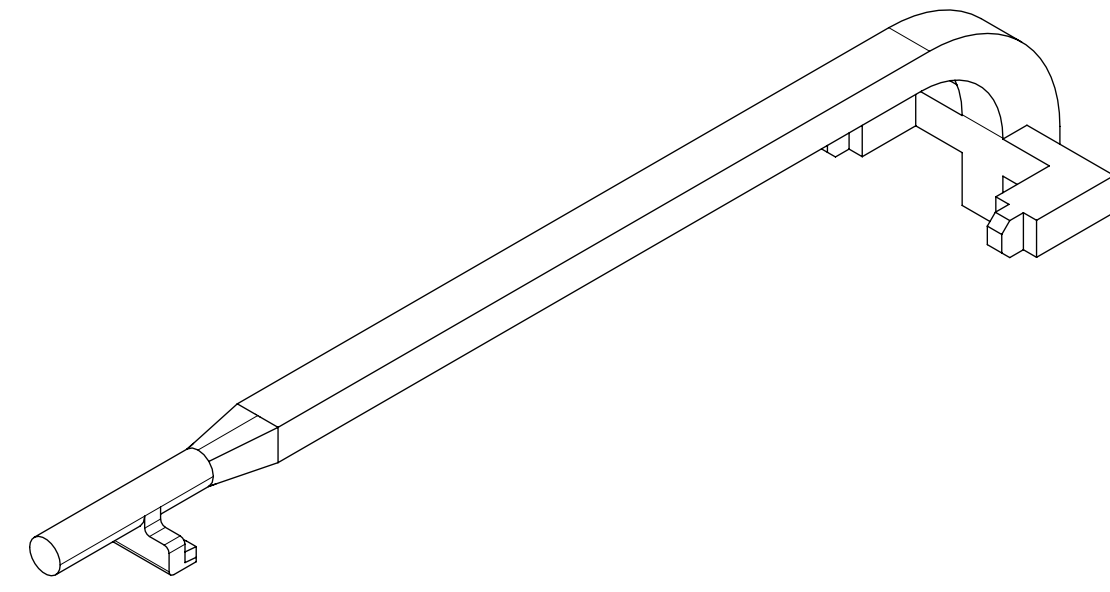
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS: mm	SCALE: NTS	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457			
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890			
ANGULAR TOL: ± 1.0°	4 PLACES: ±	DRWN: SANTHN	PRODUCT CUSTOMER DRAWING		
3 PLACES: ±	2 PLACES: ± 0.13	CHK'D: GGA	DOCUMENT NUMBER	DOC TYPE	DOC PART
1 PLACE: ± 0.25	0 PLACES: ±	APPR: GGA	747500021	PSD	ASY
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION: DRWN: SJKG	REVISION		
THIRD ANGLE PROJECTION		APPR: RCHEN08	N1		
D-SIZE		SERIES: 74750	SHEET NUMBER		
MATERIAL NUMBER		CUSTOMER	GENERAL MARKET		
2 OF 12					

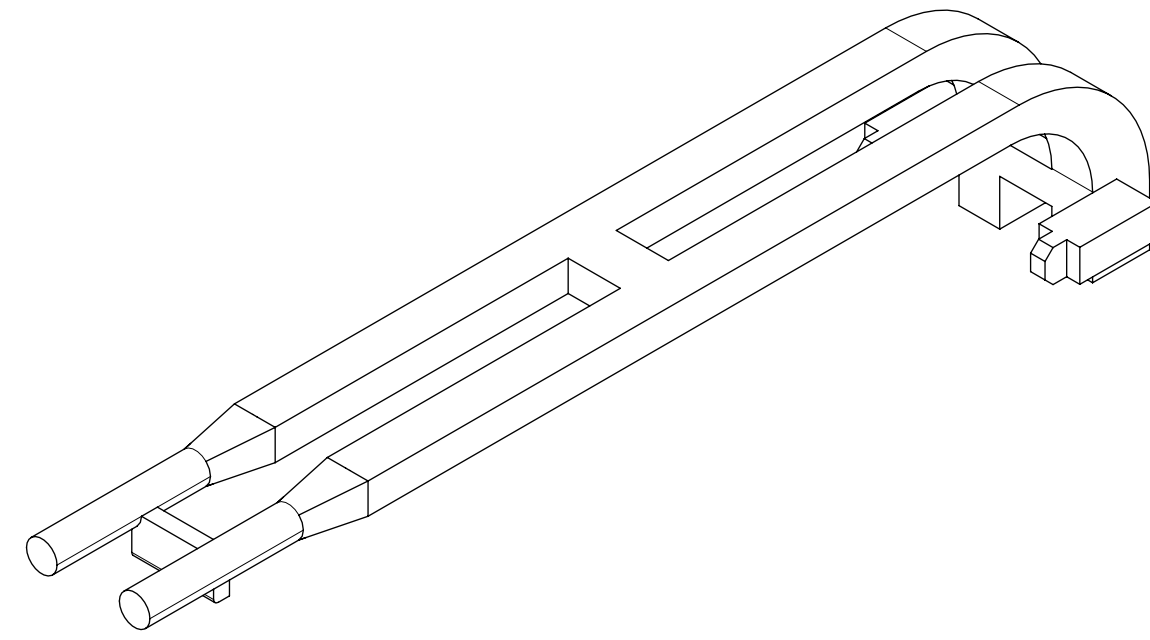
1 HEIGHT OF HEATSINK WITH MODULE INSERTED. DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

CAGE ASSEMBLY OPTIONS (CONT.)

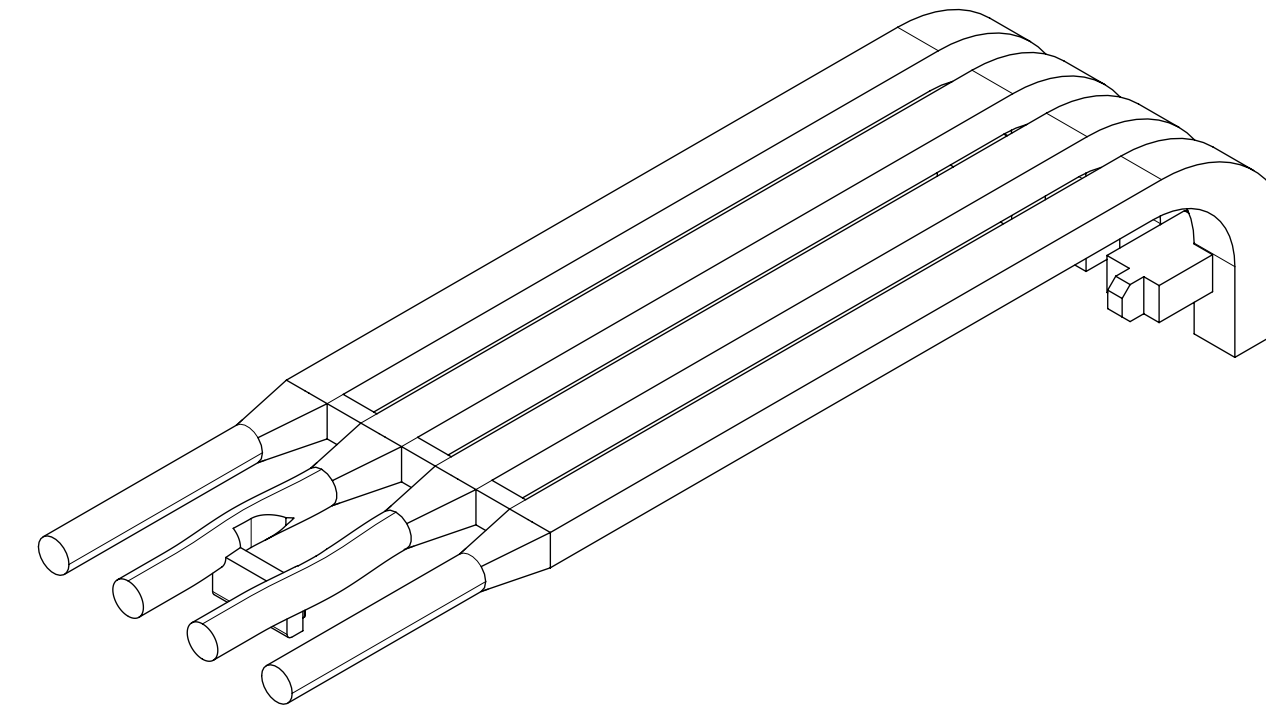
SINGLE LIGHT PIPE



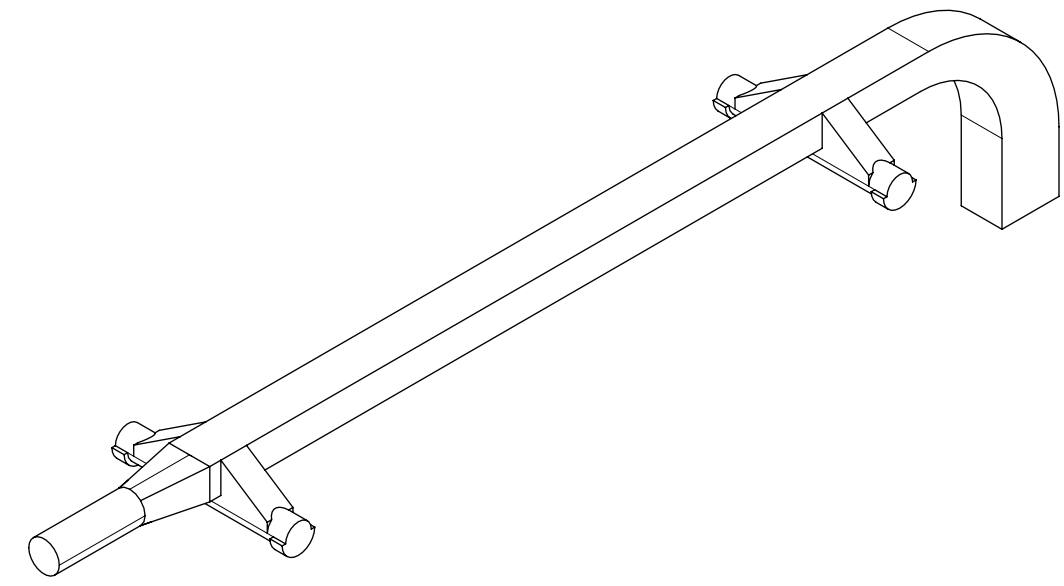
DUAL LIGHT PIPE



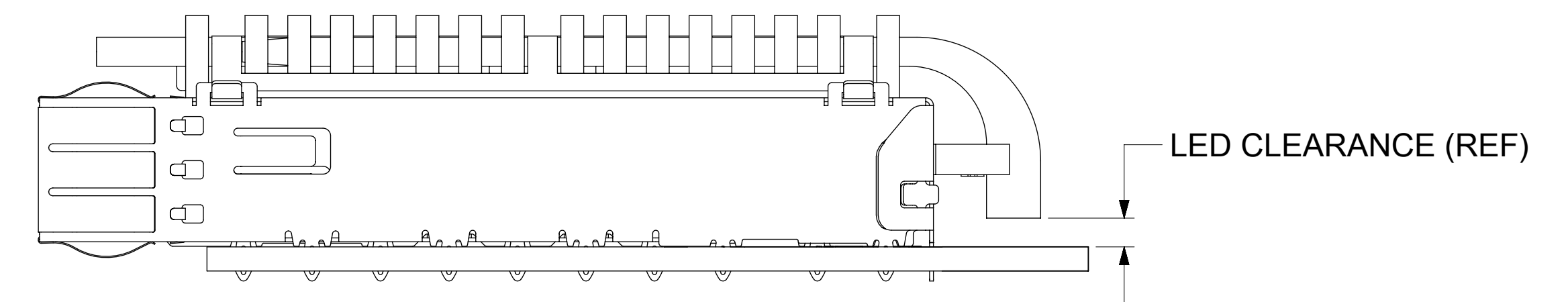
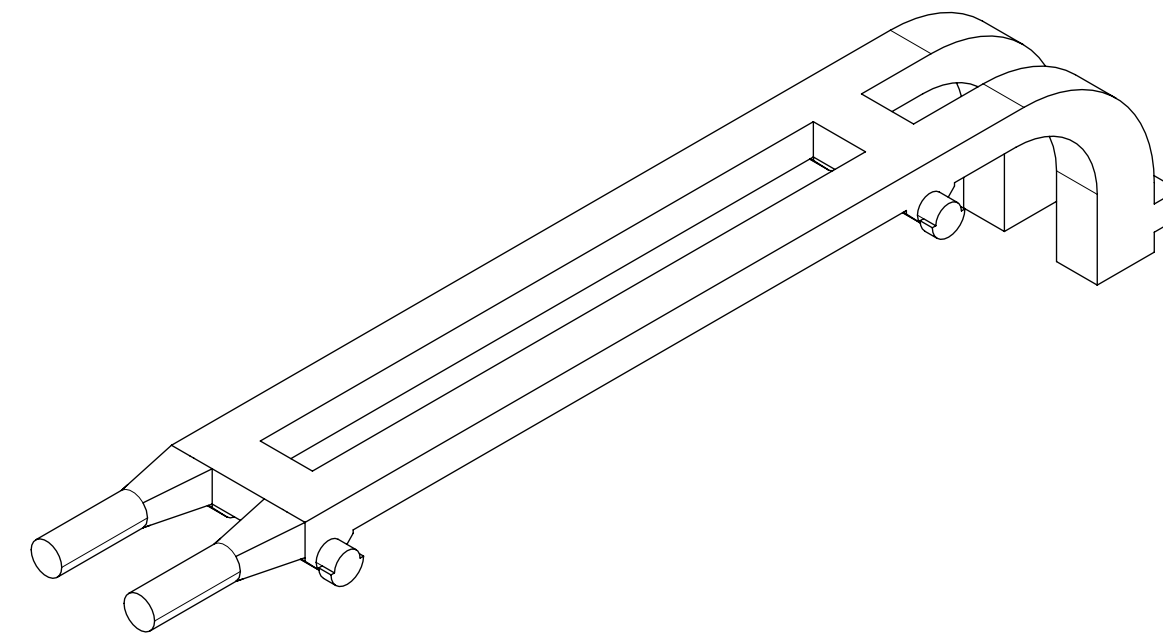
QUAD LIGHT PIPE



SINGLE LIGHT PIPE



DUAL LIGHT PIPE



LIGHT PIPE	LED CLEARANCE (REF)
SINGLE	1.86
SINGLE	1.86
DUAL	1.86
DUAL	1.86
QUAD	1.86

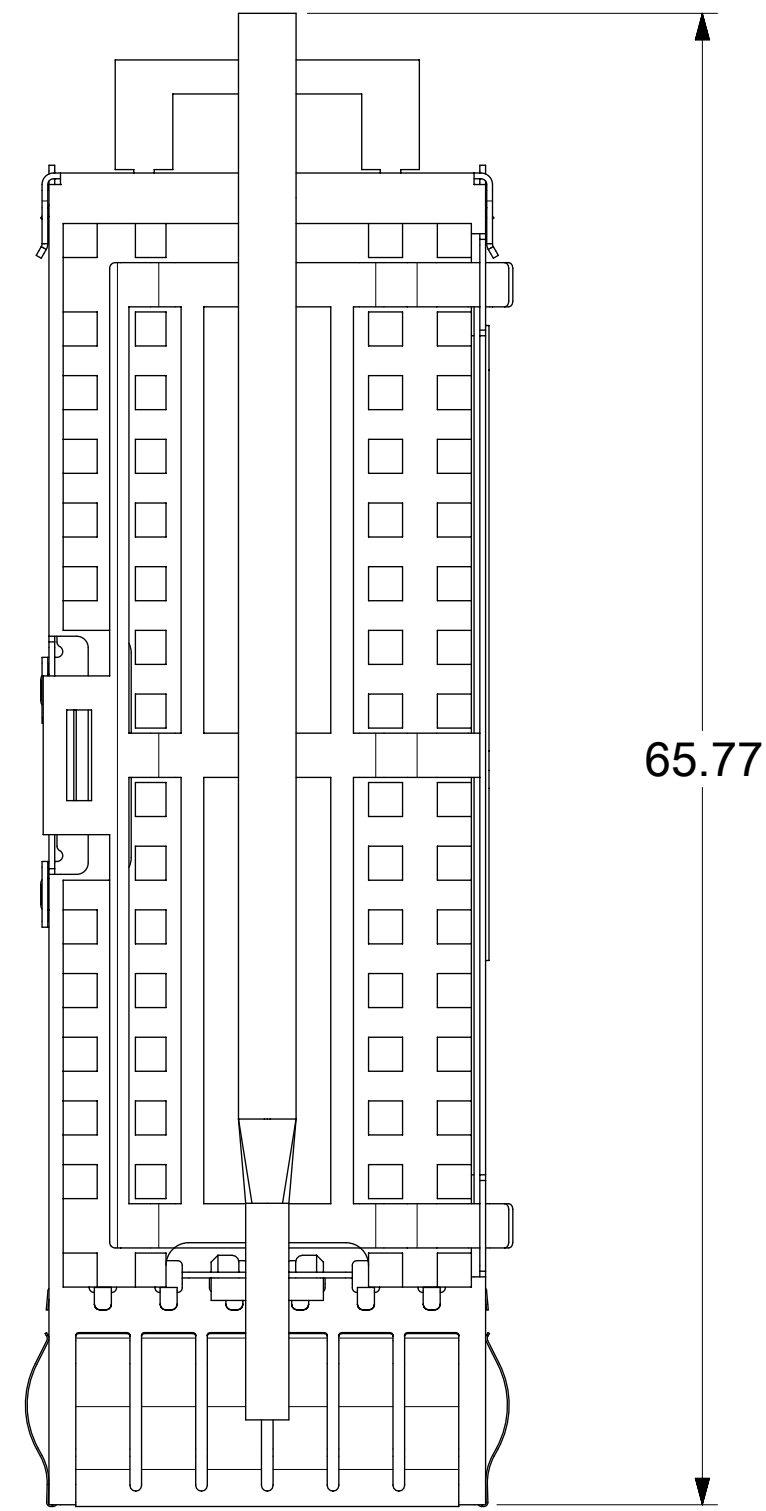
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS mm	SCALE NTS	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457	molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)					
ANGULAR TOL ± 1.0°		EC NO: 680890	PRODUCT CUSTOMER DRAWING		
4 PLACES ±		DRWN: SANTHN 2021/05/14	DOCUMENT NUMBER		
3 PLACES ±		CHK'D: GGA 2021/11/25	DOC TYPE		
2 PLACES ± 0.13		APPR: GGA 2021/11/25	DOC PART		
1 PLACE ± 0.25		INITIAL REVISION:	REVISION		
0 PLACES ±		DRWN: SJKG 2016/06/23	747500021		
		APPR: RCHEN08 2017/06/05	PSD		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	CUSTOMER		
		D-SIZE	GENERAL MARKET		
		SERIES	SHEET NUMBER		
		74750	3 OF 12		

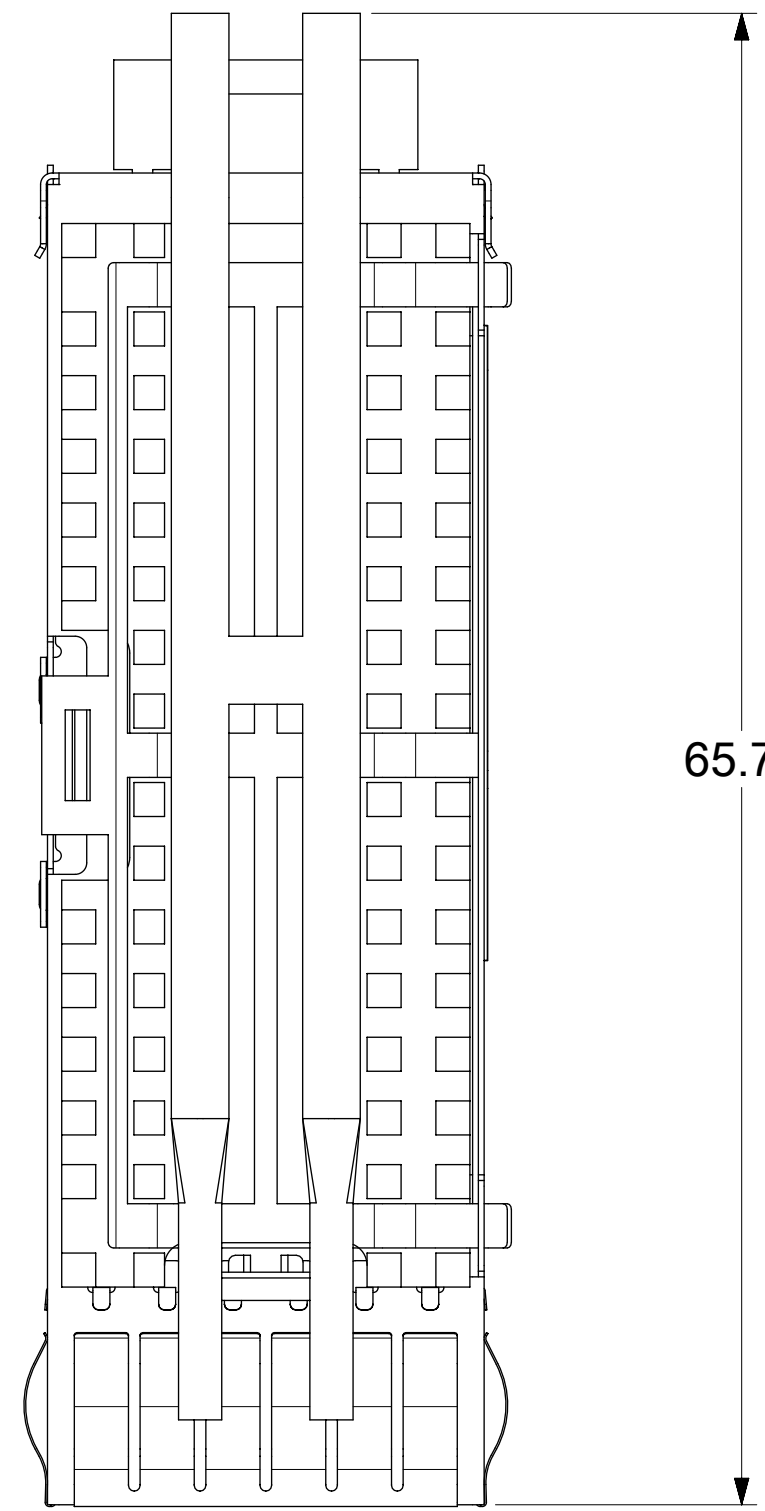
NOTE:
1) FOR HEATSINK OPTIONS SEE SHEET 2.

DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:23
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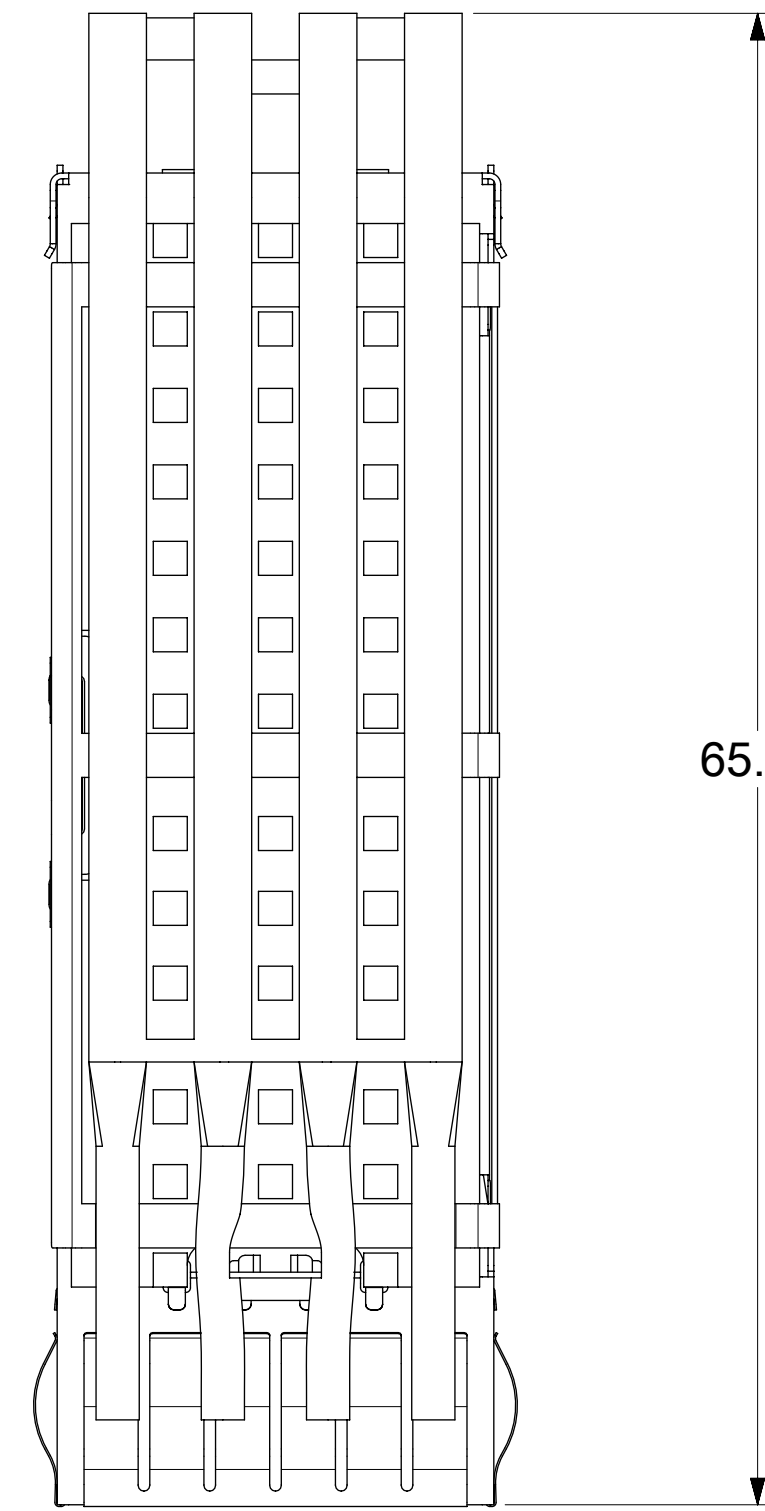
CAGE ASSEMBLY OPTIONS (CONT.)



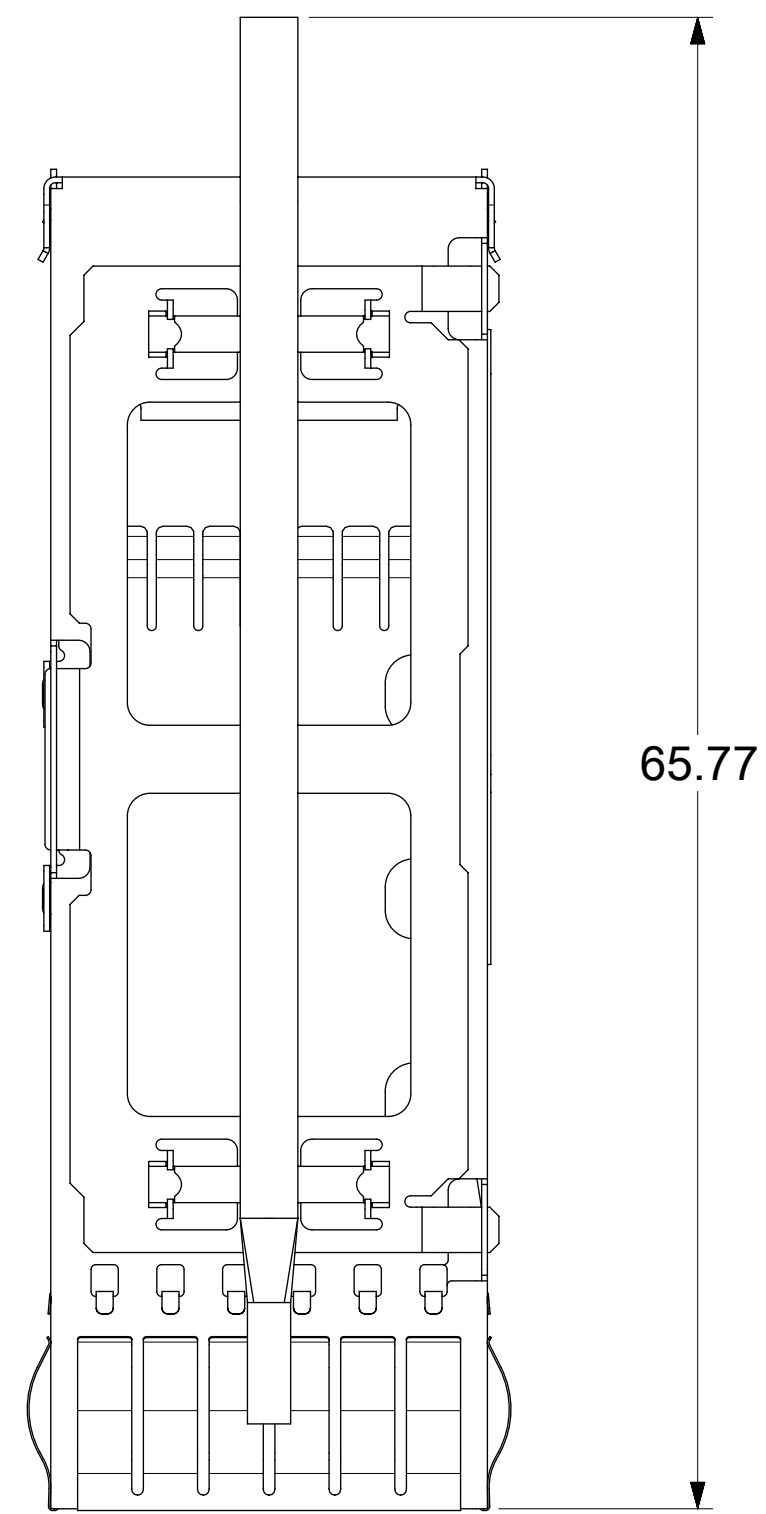
65.77



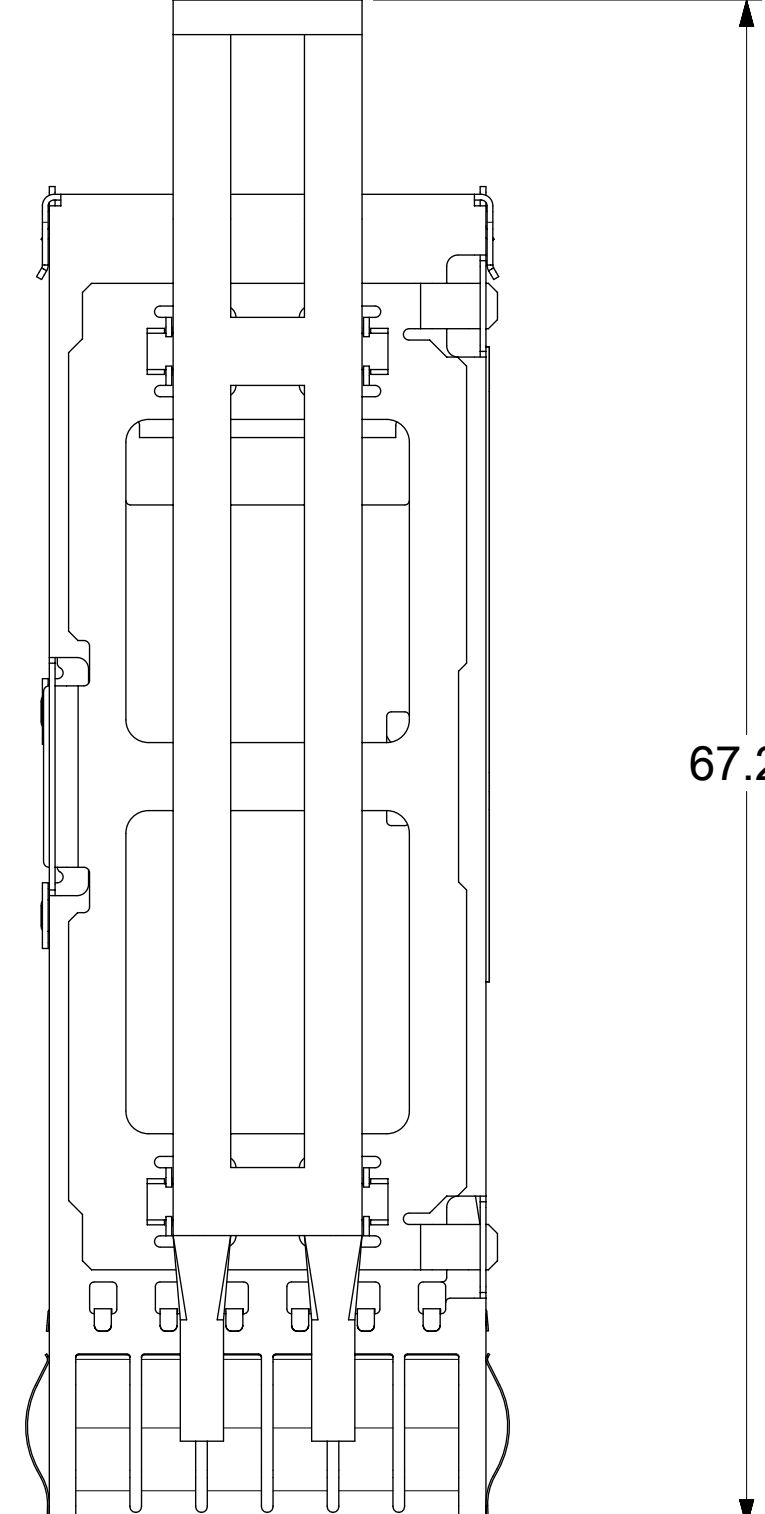
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65.77



65.77

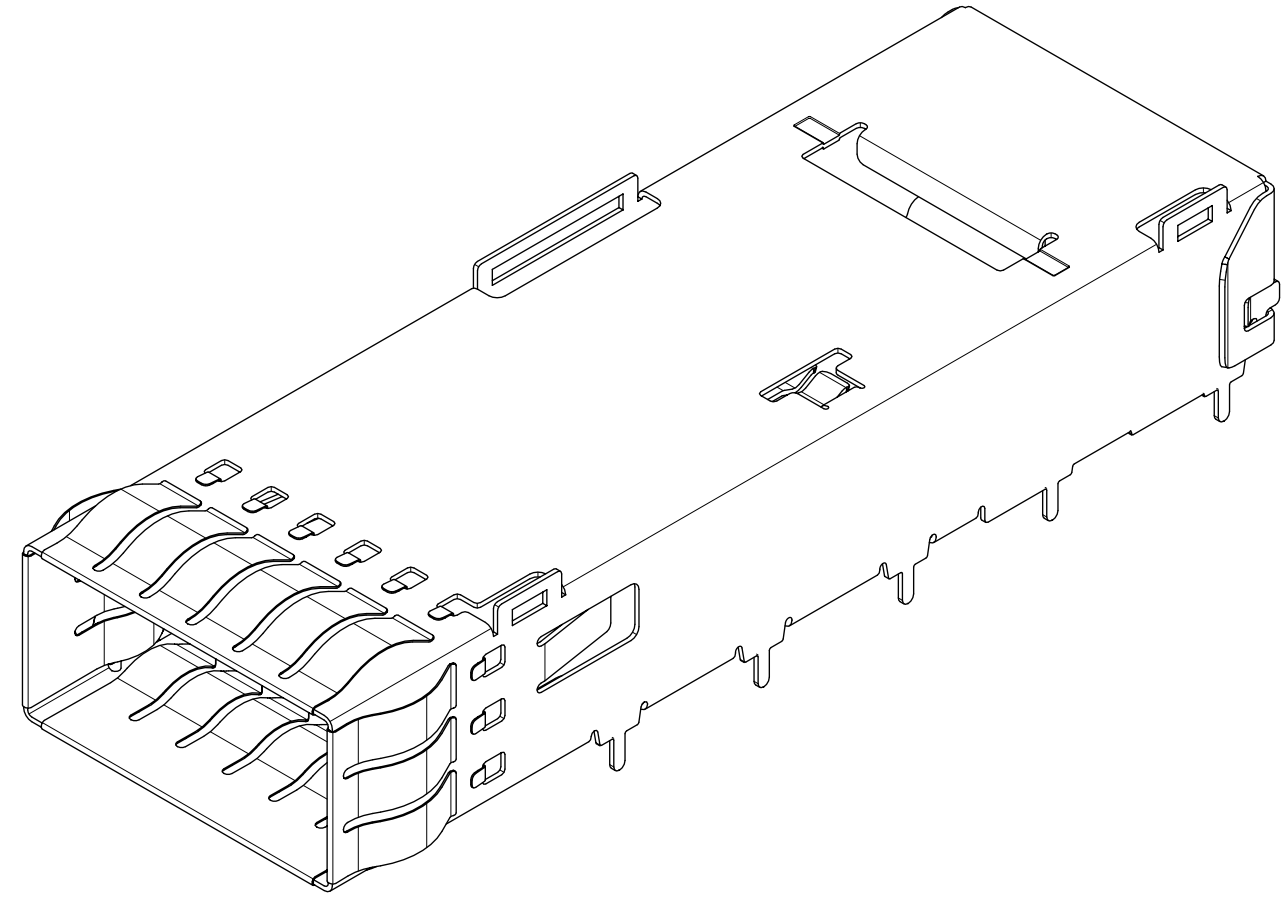


67.29

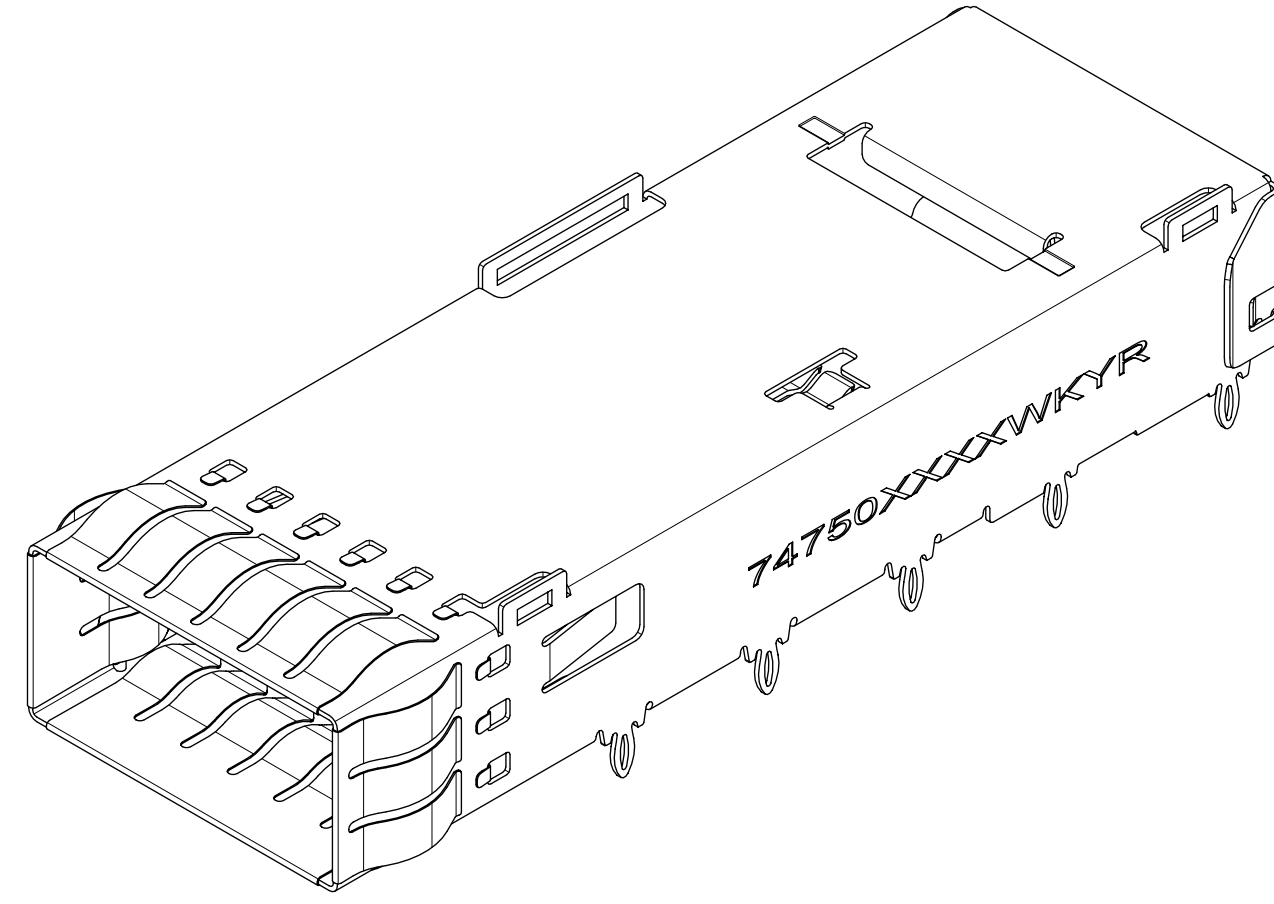
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS mm	SCALE NTS	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457			
GENERAL TOLERANCES (UNLESS SPECIFIED)					
ANGULAR TOL	± 1.0°	EC NO: 680890	QSFP+ 1X1 CAGE ASSEMBLY WITH SPRING FINGER TYPE PRODUCT CUSTOMER DRAWING		
4 PLACES	±	DRWN: SANTHN 2021/05/14			
3 PLACES	±	CHK'D: GGA 2021/11/25	DOCUMENT NUMBER: 747500021 DOC TYPE: PSD DOC PART: ASY REVISION: N1		
2 PLACES	± 0.13	APPR: GGA 2021/11/25			
1 PLACE	± 0.25	INITIAL REVISION: DRWN: SJKG 2016/06/23 APPR: RCHEN08 2017/06/05	MATERIAL NUMBER: 74750 CUSTOMER: GENERAL MARKET SHEET NUMBER: 4 OF 12		
0 PLACES	±	DRWN: SJKG 2016/06/23 APPR: RCHEN08 2017/06/05			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING D-SIZE	SERIES 74750	

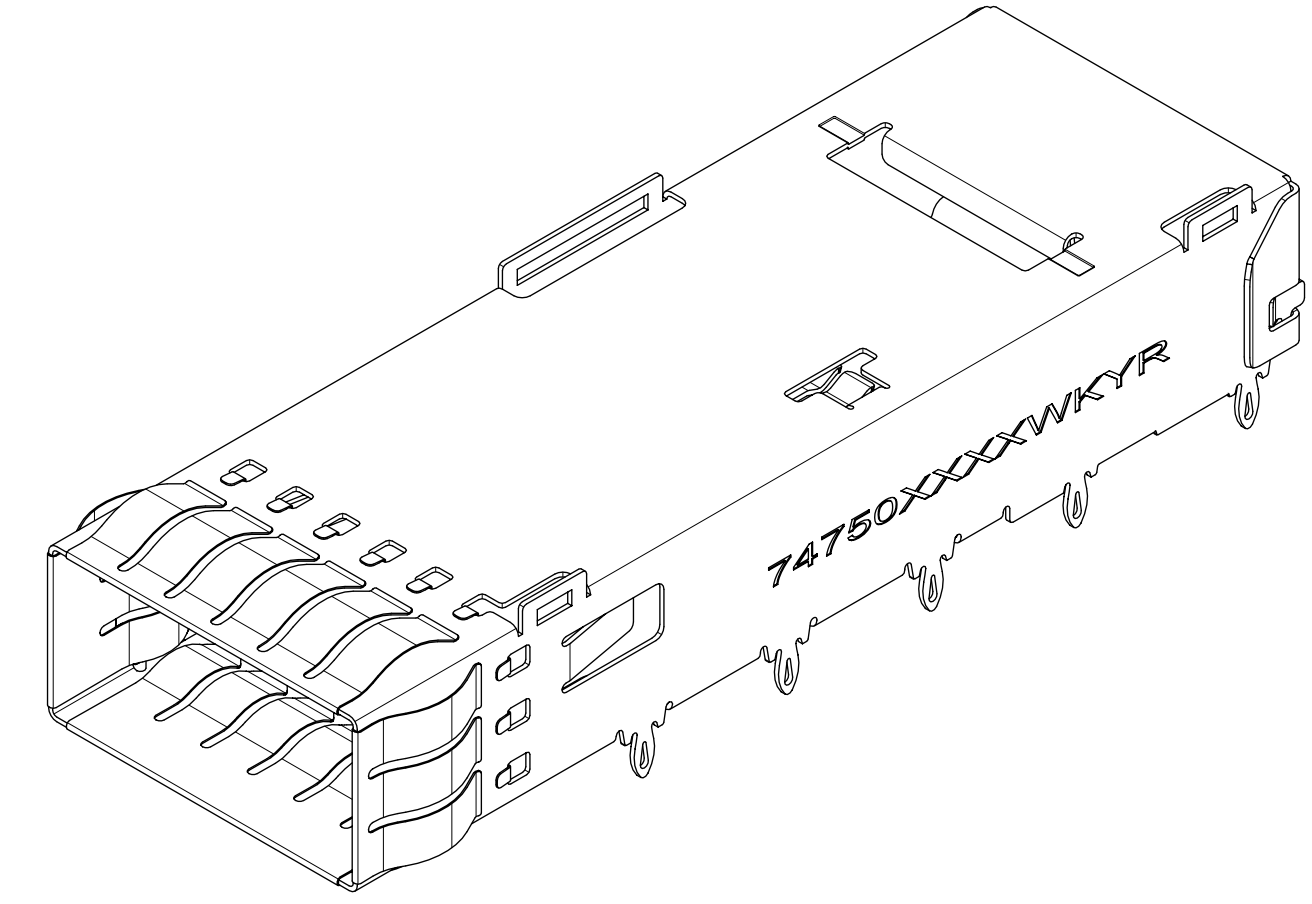
PART NUMBER SELECTION



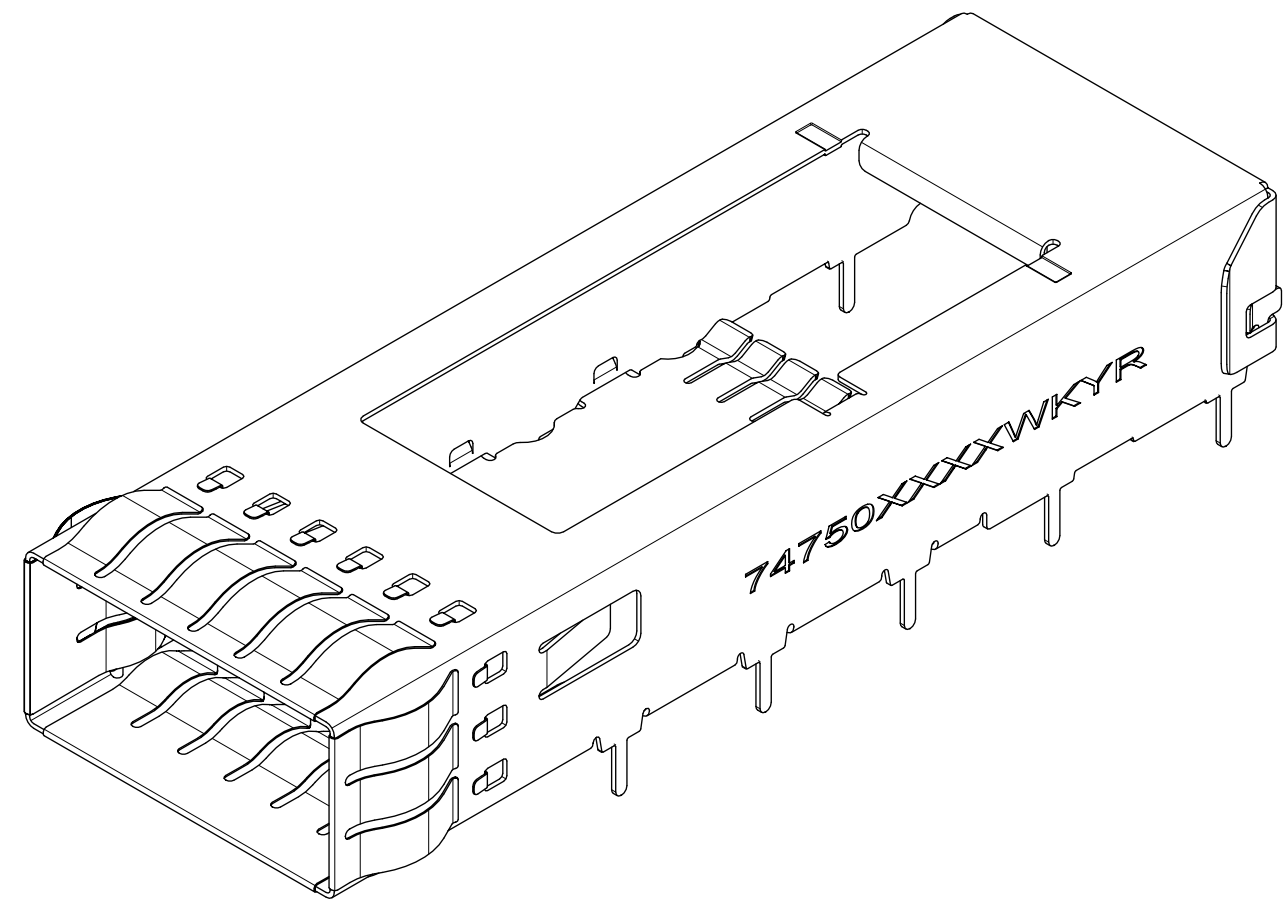
MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500051	2	SOLDER POST	1.90	NICKEL
747500053	2	SOLDER POST	1.90	MATTE TIN



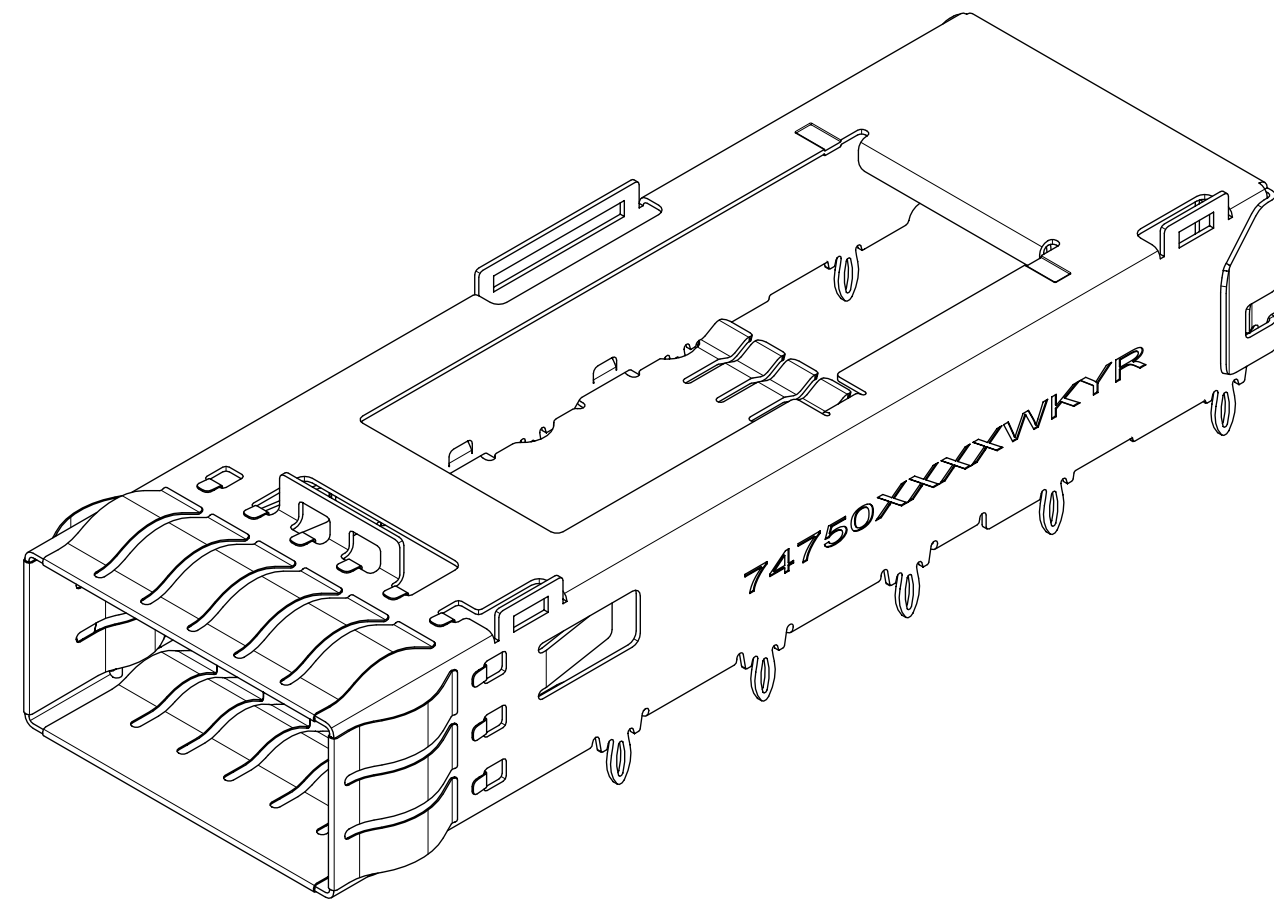
MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500024	2	PRESS FIT-EON	2.28	NICKEL



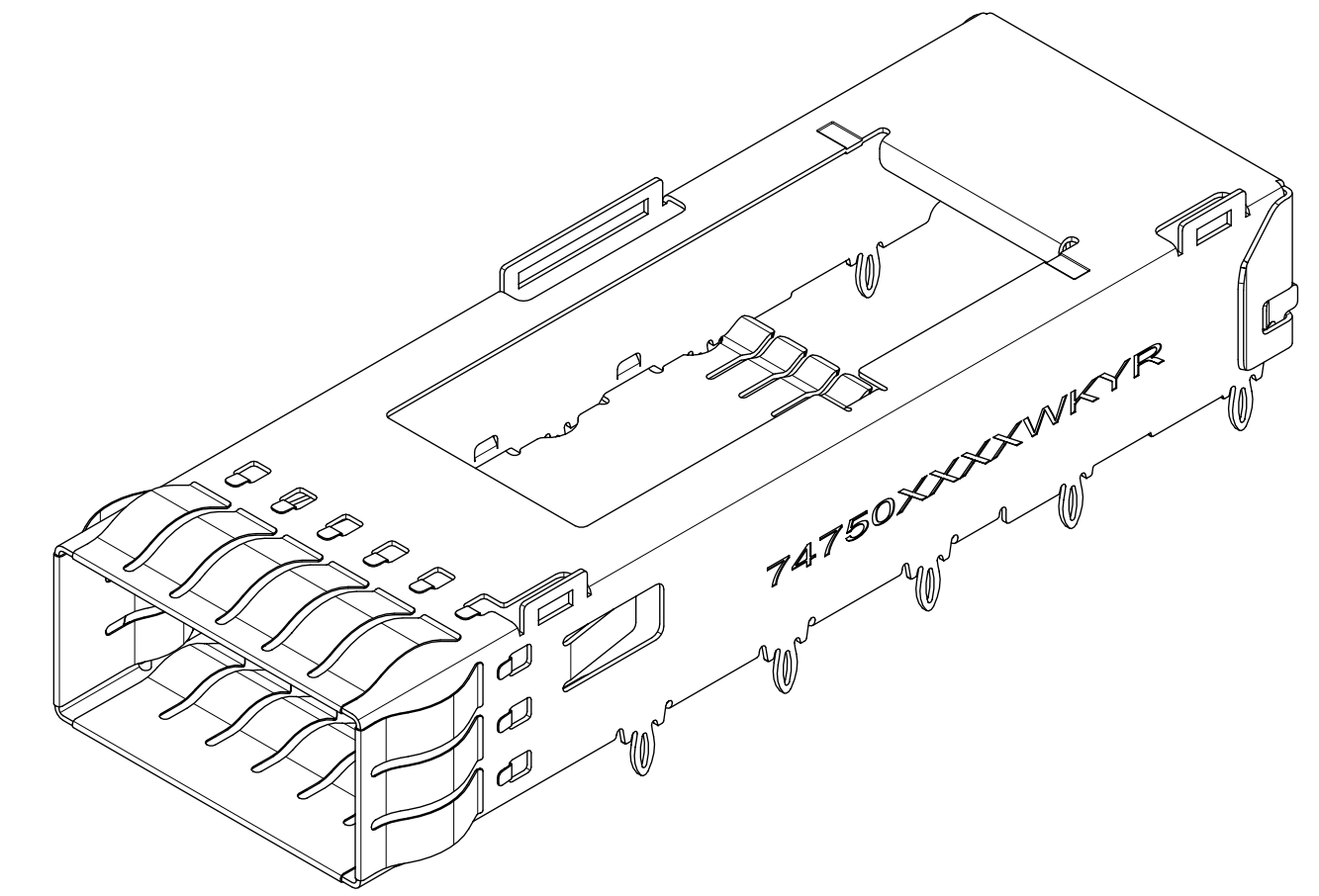
MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747501102	2	PRESS FIT-TD	2.28	NICKEL



MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500062	2	SOLDER POST	2.90	NICKEL



MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500092	2	PRESS FIT-EON	2.28	NICKEL
747500093	0	PRESS FIT-EON	2.28	NICKEL

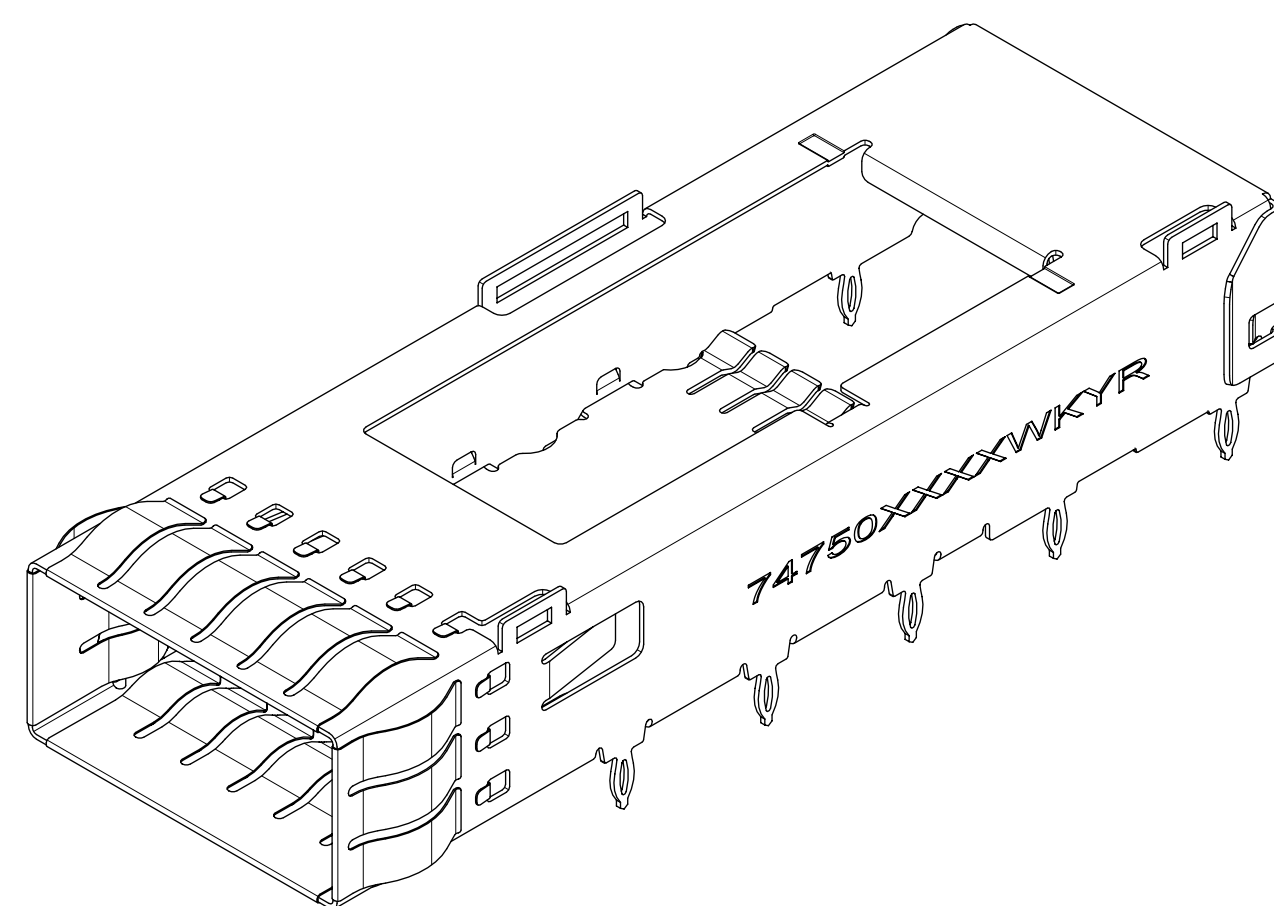


MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500021	2	PRESS FIT-EON	2.28	NICKEL
747500023	0	PRESS FIT-EON	2.28	NICKEL

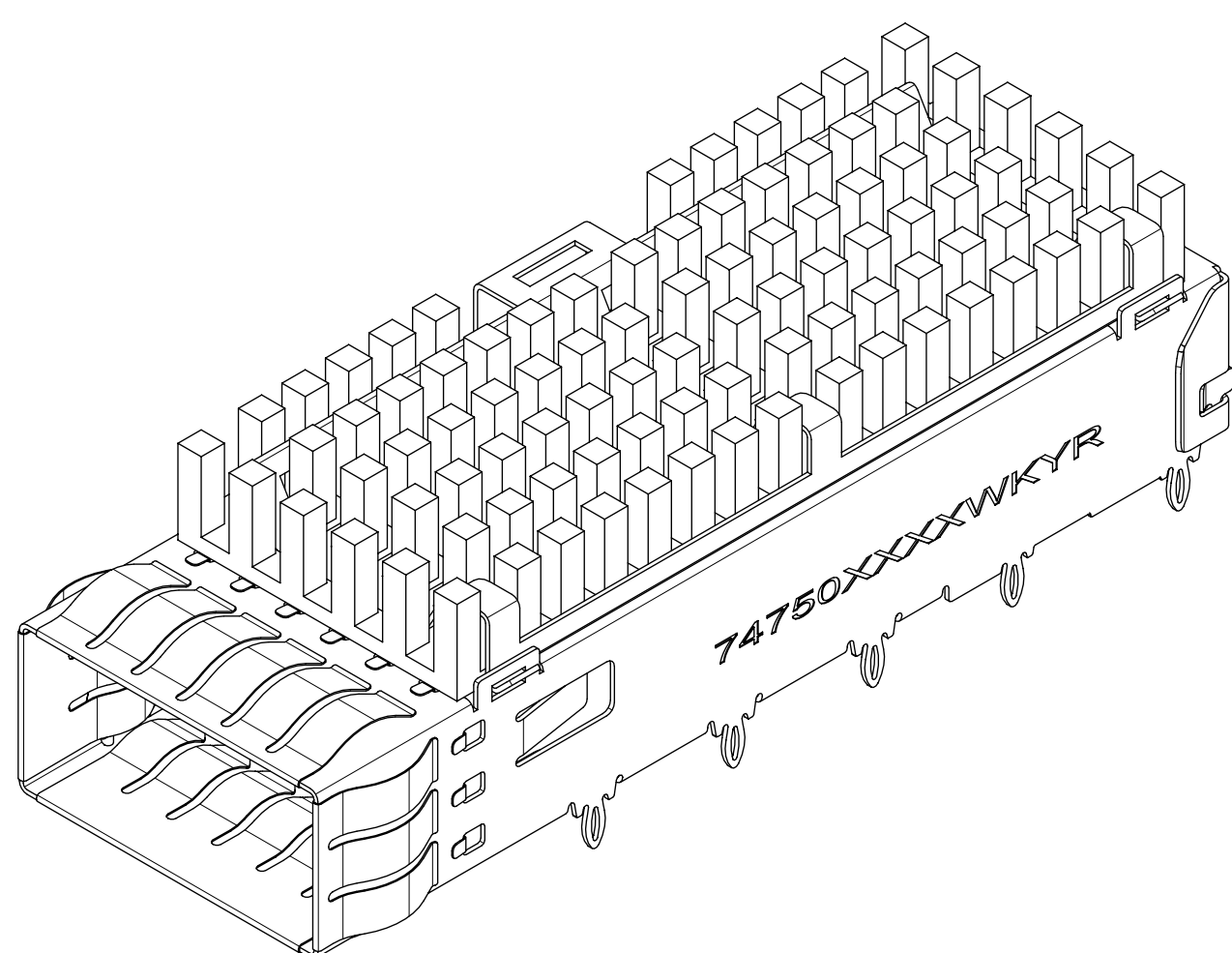
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION AS PER PCN#509457

DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457			
mm	NTS				
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890		QSFP+ 1X1 CAGE ASSEMBLY WITH SPRING FINGER TYPE PRODUCT CUSTOMER DRAWING	
ANGULAR TOL	± 1.0°	DRWN: SANTHN 2021/05/14		DOCUMENT NUMBER	
4 PLACES	±	CHK'D: GGA 2021/11/25		747500021	
3 PLACES	±	APPR: GGA 2021/11/25		PSD ASY N1	
2 PLACES	± 0.13	INITIAL REVISION:		DOC TYPE DOC PART REVISION	
1 PLACE	± 0.25	DRWN: SJKG 2016/06/23		MATERIAL NUMBER	
0 PLACES	±	APPR: RCHEN08 2017/06/05		CUSTOMER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	SHEET NUMBER
			D-SIZE	74750	5 OF 12

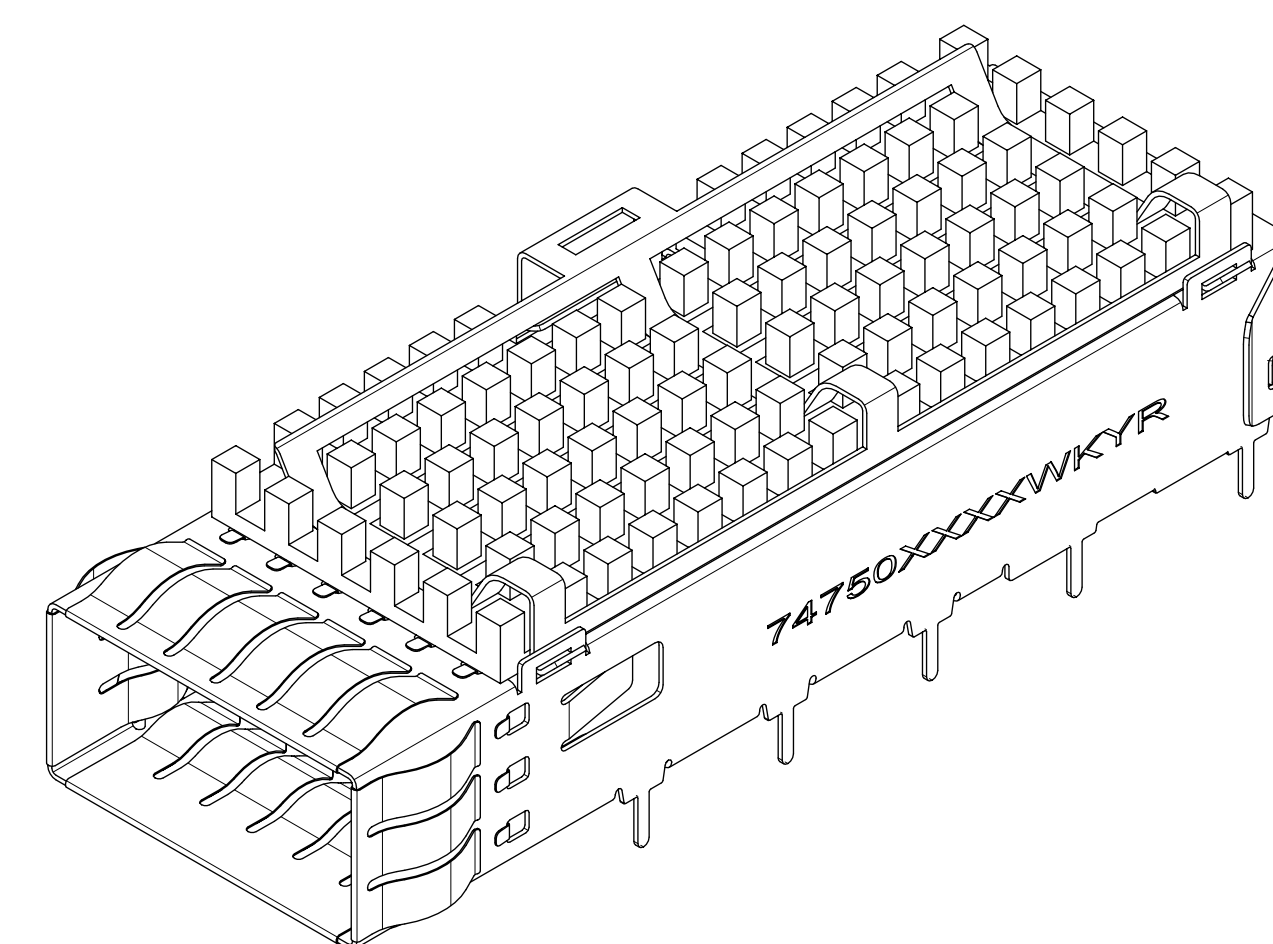
PART NUMBER SELECTION (CONT)



MOLEX P/N	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500012	2	PRESS FIT-EON	3.05	NICKEL



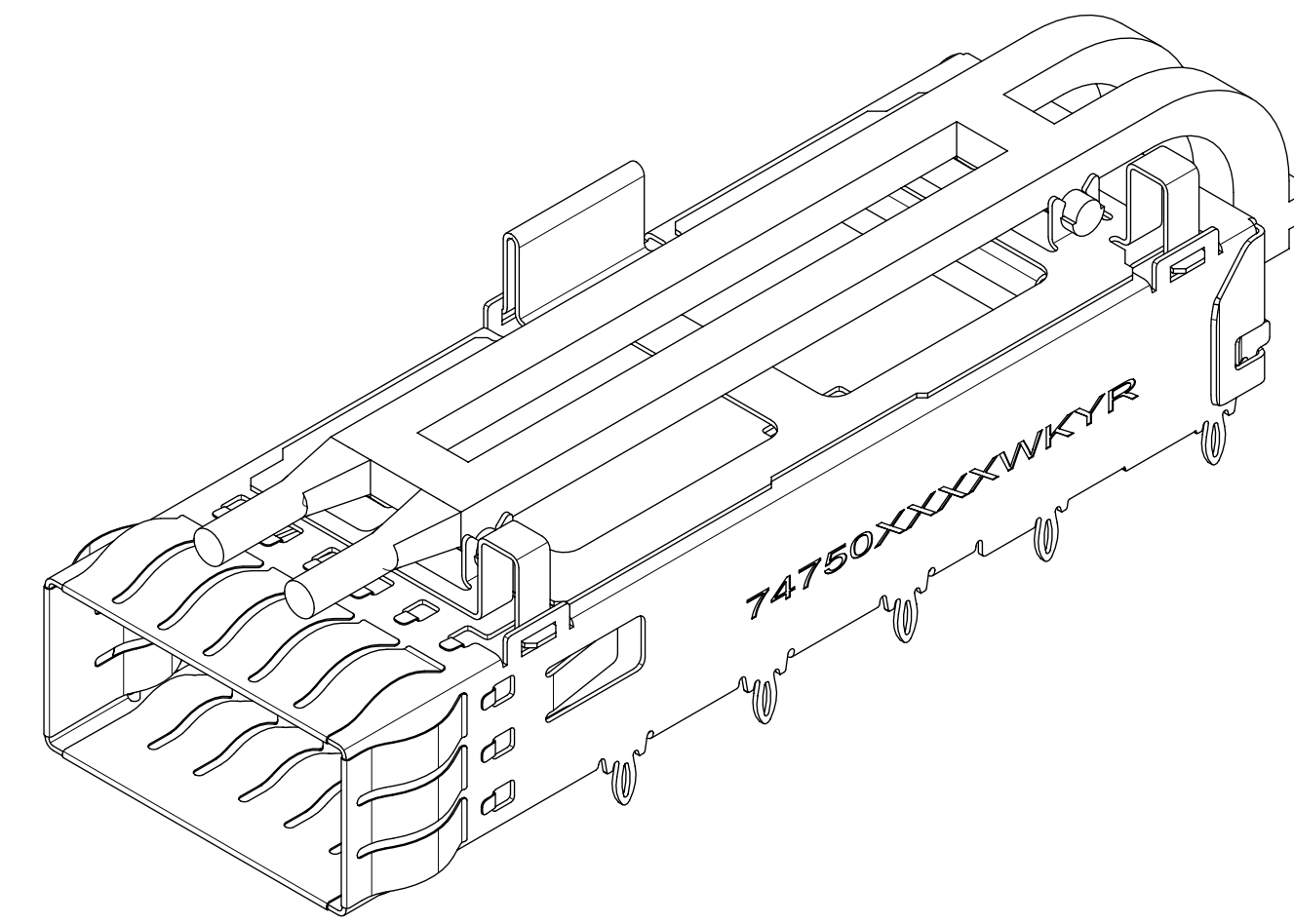
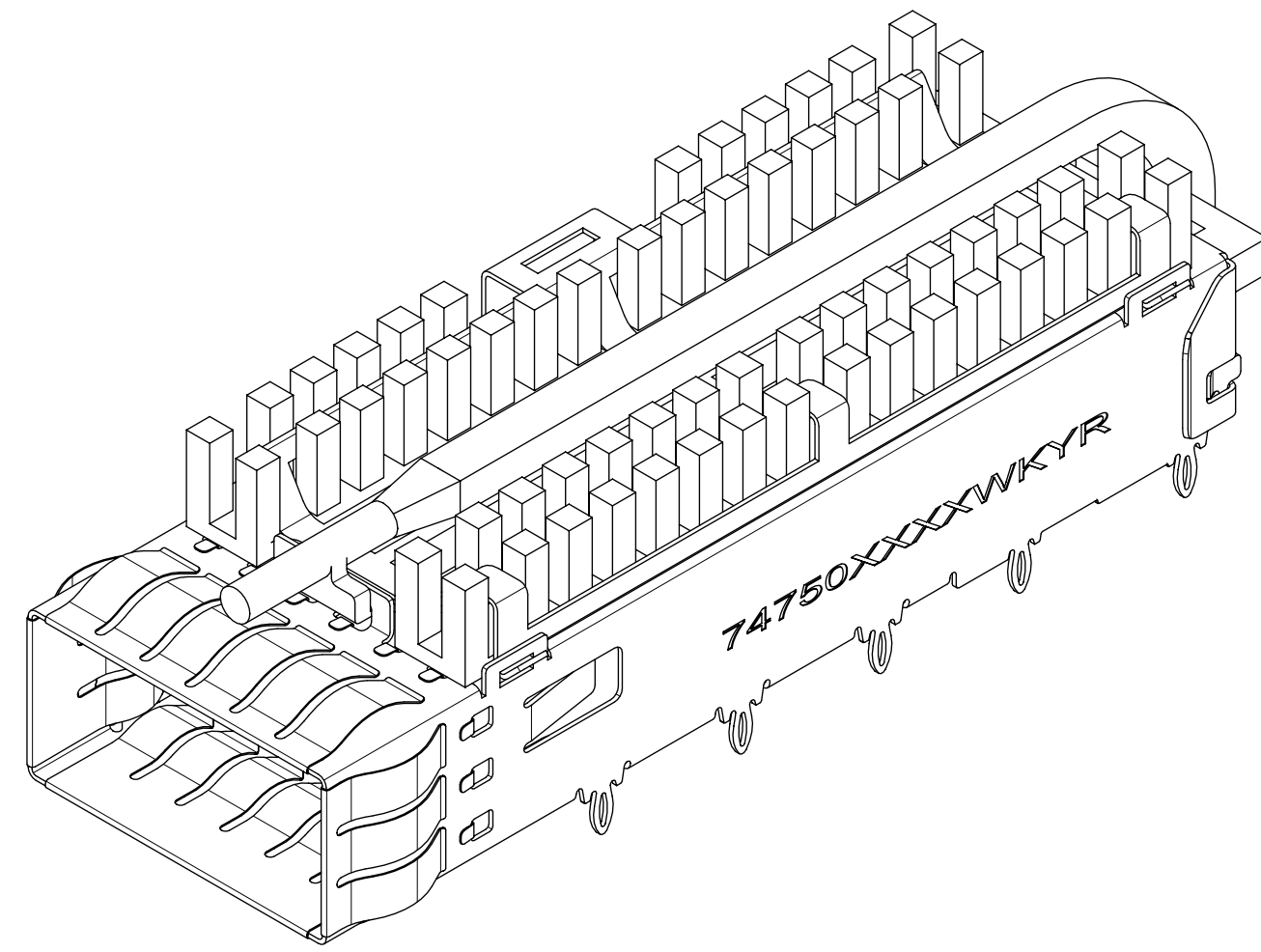
MOLEX P/N	HS	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500040	SAN	2	PRESS FIT-EON	2.28	NICKEL
747500044	PCI	2	PRESS FIT-EON	2.28	NICKEL
747500046	NET	2	PRESS FIT-EON	2.28	NICKEL



MOLEX P/N	HS	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	PLATING
747500057	PCI	2	SOLDER POST	2.90	NICKEL

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DIMENSION UNITS mm		SCALE NTS		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457				molex			
GENERAL TOLERANCES (UNLESS SPECIFIED)						EC NO: 680890					
ANGULAR TOL ± 1.0°		4 PLACES ±		DRWN: SANTHN		2021/11/25		PRODUCT CUSTOMER DRAWING			
3 PLACES ±		2 PLACES ± 0.13		CHK'D: GGA		2021/11/25					
1 PLACE ± 0.25		0 PLACES ±		APPR: GGA		2021/11/25		DOCUMENT NUMBER 747500021			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		INITIAL REVISION: DRWN: SJKG		2016/06/23					
D-DRAWING		SERIES 74750		APPR: RCHEN08		2017/06/05		REVISION N1		SHEET NUMBER 6 OF 12	
MATERIAL NUMBER				CUSTOMER				GENERAL MARKET			

PART NUMBER SELECTION (CONT)



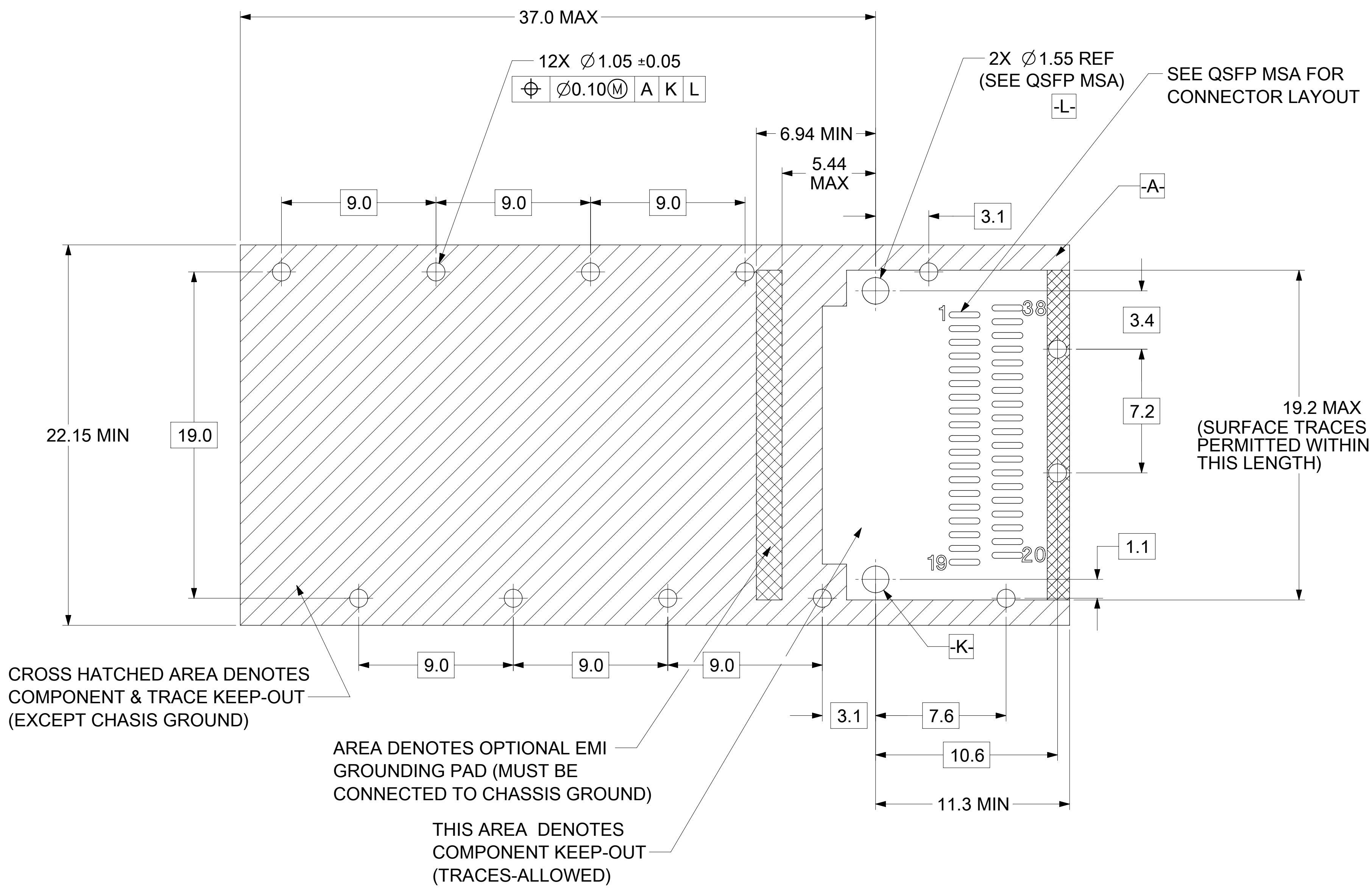
MOLEX P/N	MOLEX CAGE W/O HS ASSEMBLY P/N	LP SINGLE(747500403) DUAL(747500404)	TIP STYLE	HS	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	DIM "B"	PLATING
747500082	747500092	DUAL	ROUND	SAN	2	PRESS FIT-EON	2.28	60.25	NICKEL
747500083	747500092	DUAL	ROUND	NET	2	PRESS FIT-EON	2.28	60.25	NICKEL
747500086	747500093	DUAL	ROUND	SAN	0	PRESS FIT-EON	2.28	60.25	NICKEL
747500088	N/A	DUAL	ROUND	NET	2	PRESS FIT-TD	2.28	60.25	NICKEL

MOLEX P/N	MOLEX CAGE W/O HS ASSEMBLY P/N	LIGHT PIPE ASSEMBLY P/N	TIP STYLE	# OF REAR LEGS PER PORT	LEG TYPE	DIM "A"	DIM "B"	PLATING
747501586	747500024	747500031	ROUND	2	PRESS FIT-EON	2.28	60.25	NICKEL

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DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457	molex		
mm	NTS				
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 680890 DRWN: SANTHN 2021/05/14 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25		
ANGULAR TOL	± 1.0°		PRODUCT CUSTOMER DRAWING		
4 PLACES	±		INITIAL REVISION:		
3 PLACES	±		DRWN: SJKG 2016/06/23		
2 PLACES	± 0.13		APPR: RCHEN08 2017/06/05		
1 PLACE	± 0.25		DOCUMENT NUMBER	DOC TYPE	DOC PART
0 PLACES	±		747500021	PSD	ASY
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
THIRD ANGLE PROJECTION			D-SIZE	74750	7 OF 12
			GENERAL MARKET		

PCB LAYOUT FOR SINGLE SIDED MOUNTING



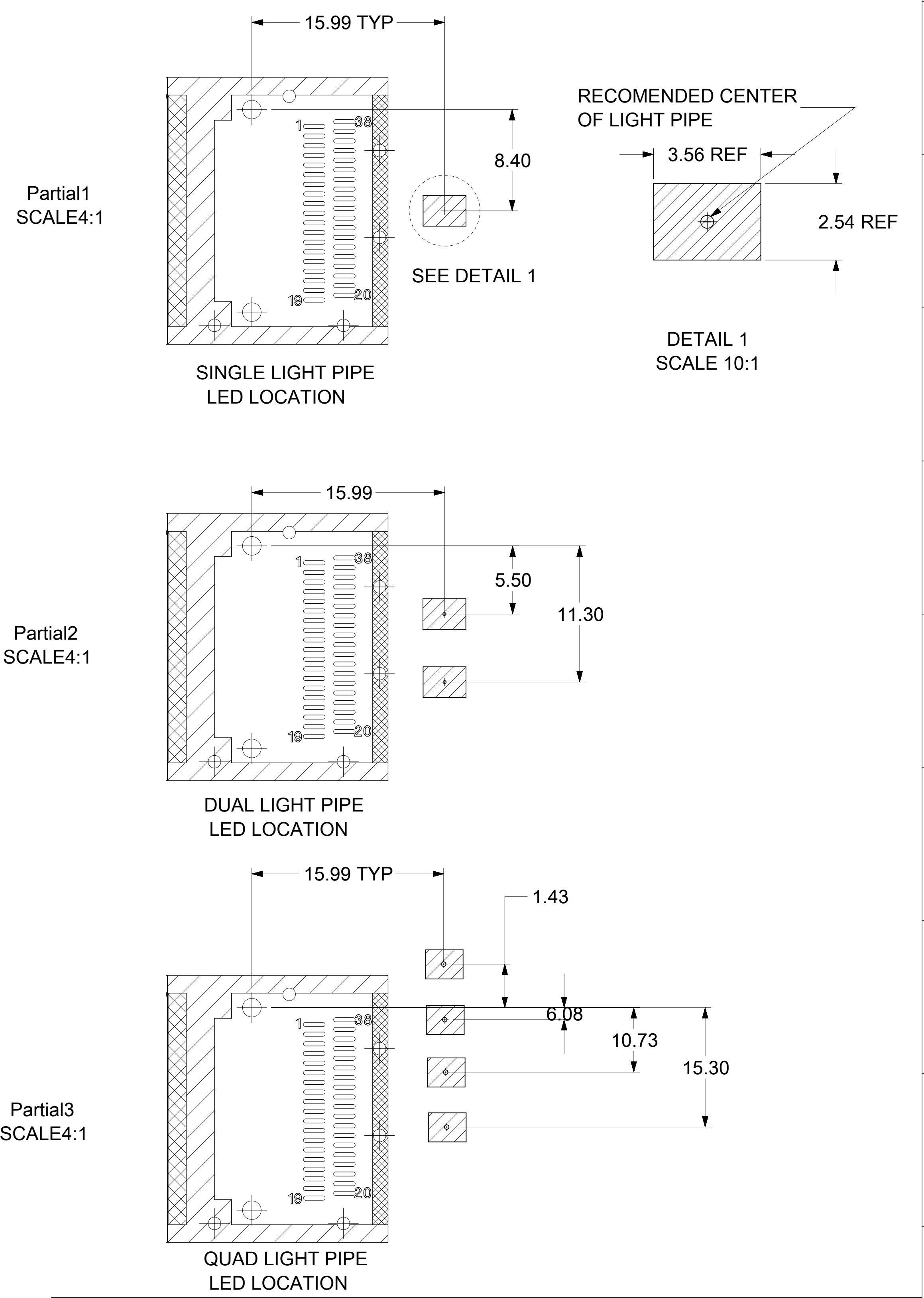
CROSS HATCHED AREA DENOTES COMPONENT & TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

AREA DENOTES OPTIONAL EMI GROUNDING PAD (MUST BE CONNECTED TO CHASSIS GROUND)

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES-ALLOWED)

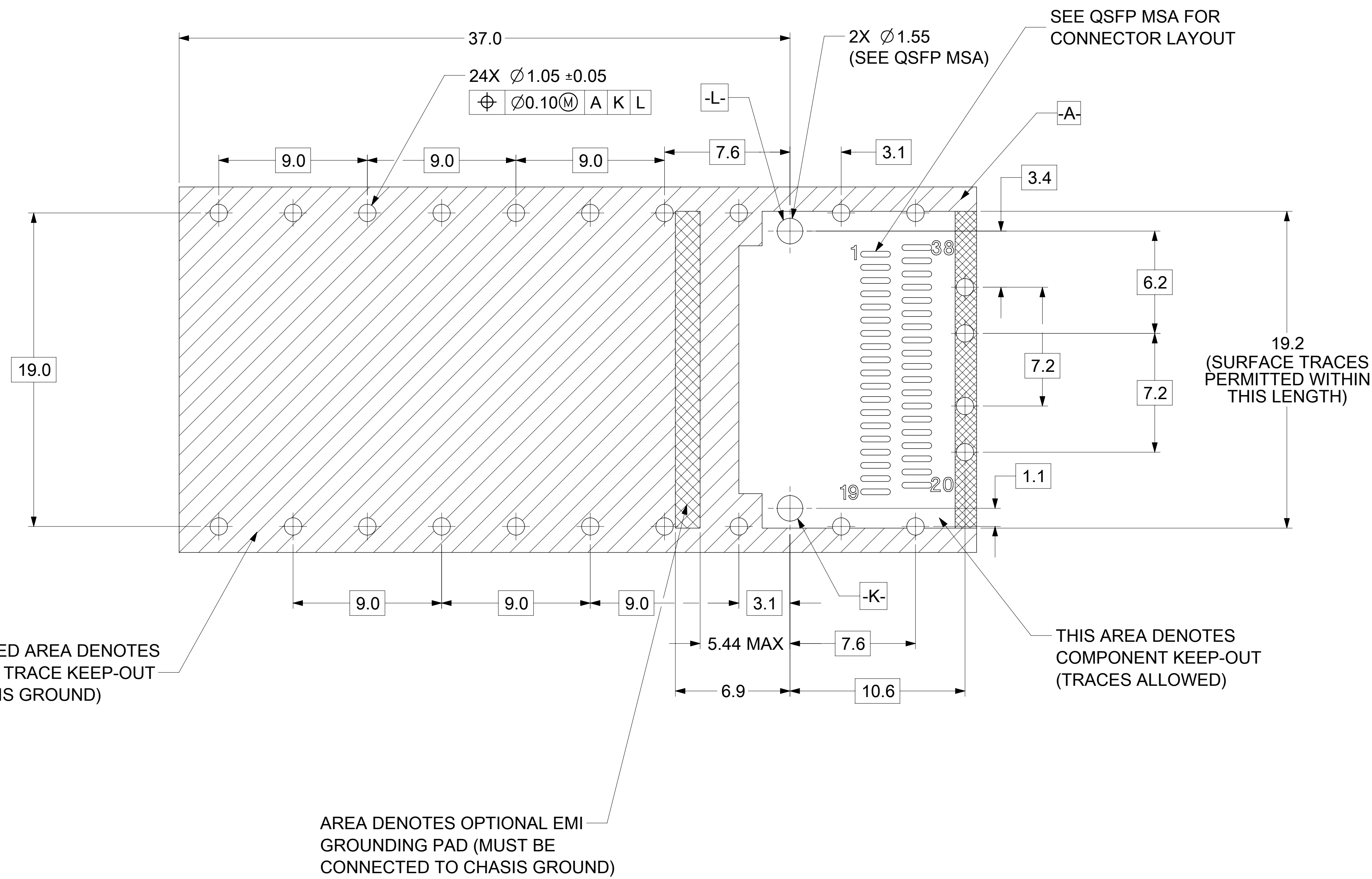
- NOTES:**
- DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA
 - FINISHED HOLE SIZE (AFTER PLATING)
 - DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA
 - DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA
 - SINGLE SIDED BOARD THICKNESS
MINIMUM: 1.57 [0.061"] FOR 3.05MM & 2.90MM LEGS.
MINIMUM: 1.44 [0.057"] FOR 2.28MM & 1.90MM LEGS.
 - LED SHOULD BE PLACED RELATIVE TO THE QSFP CONNECTOR POST HOLES.

HOST CONNECTOR DETAIL



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457							
mm	NTS	<div style="text-align: right; font-size: 24pt; font-weight: bold;">molex</div> <p>QSFP+ 1X1 CAGE ASSEMBLY WITH SPRING FINGER TYPE</p> <p>PRODUCT CUSTOMER DRAWING</p>							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 1.0°								
4 PLACES	±								
3 PLACES	±								
2 PLACES	± 0.13								
1 PLACE	± 0.25	EC NO: 680890	2021/05/14						
0 PLACES	±	DRWN: SANTHN	2021/11/25						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
		D-SIZE		74750		747500021		GENERAL MARKET	
DOCUMENT STATUS		RELEASE DATE		DOCUMENT NUMBER		DOC TYPE		DOC PART	
P1		2021/11/25 12:19:23		747500021		PSD		ASYN1	
								SHEET NUMBER	
								8 OF 12	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



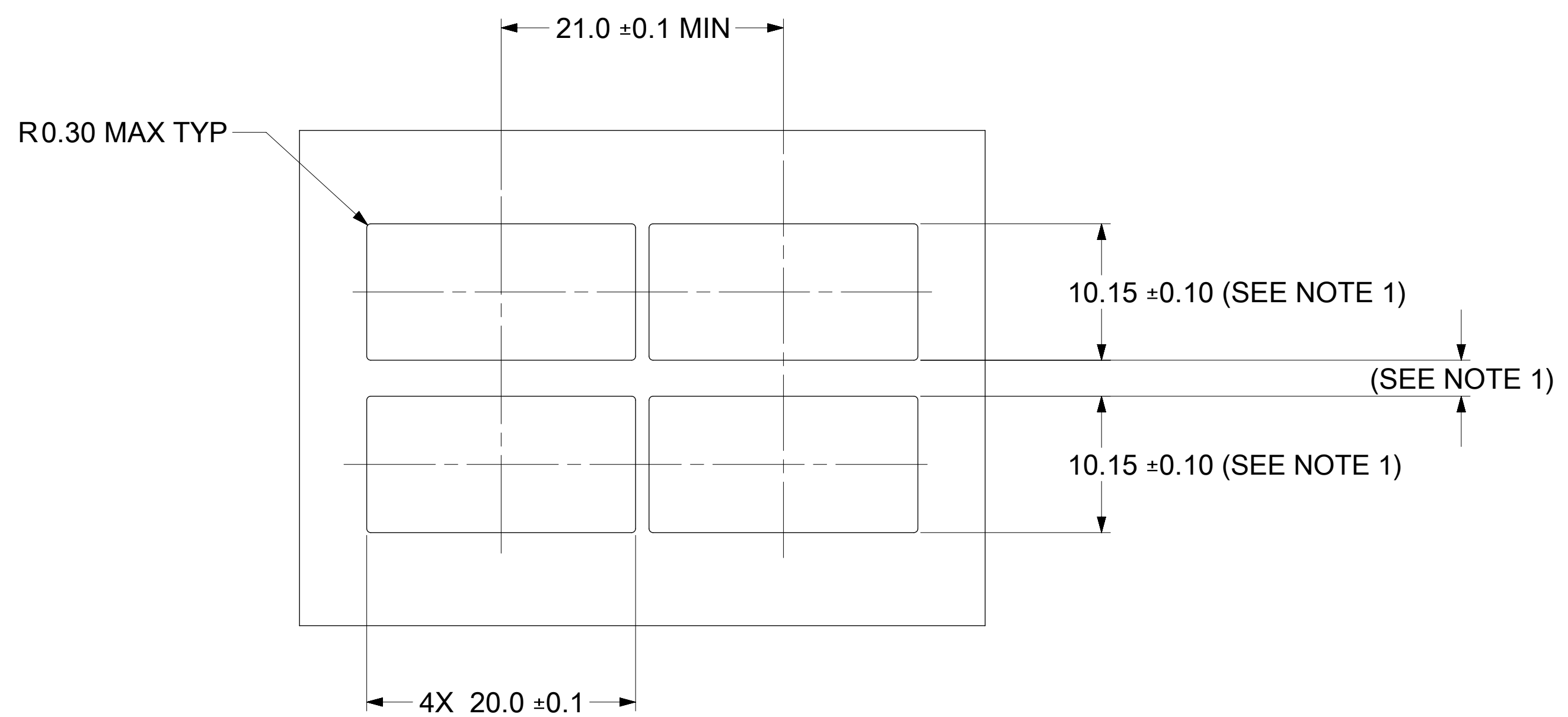
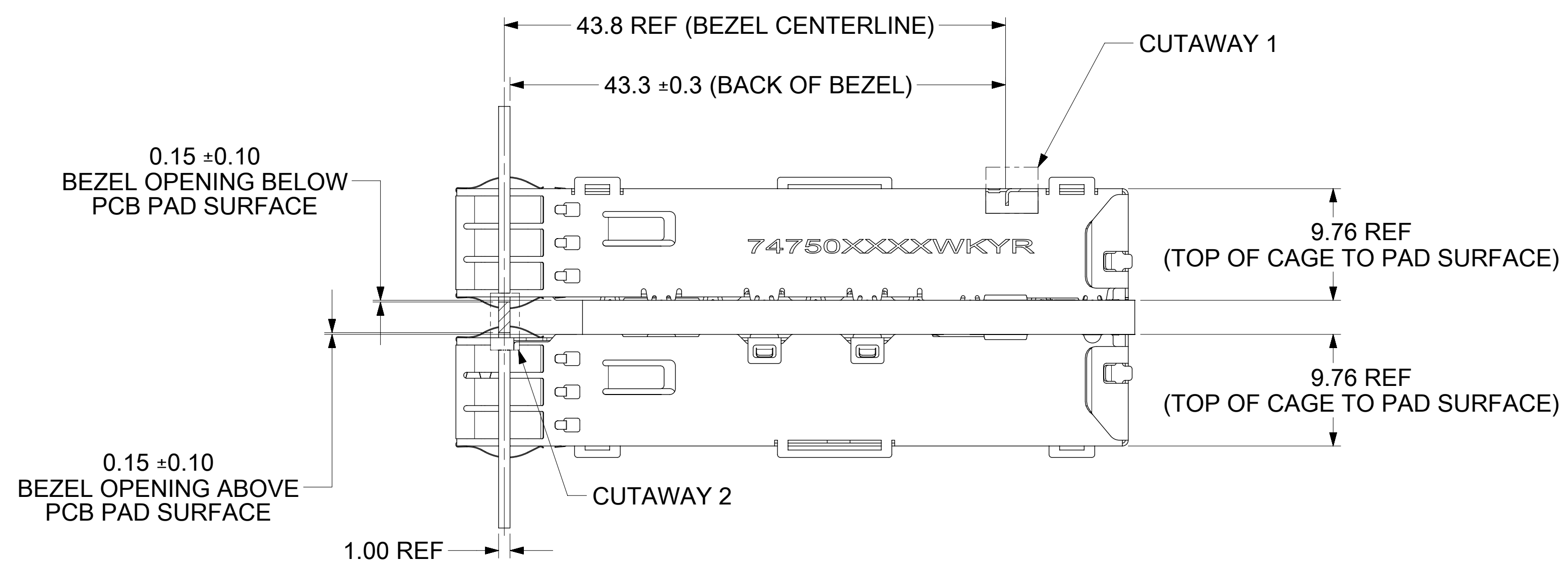
NOTE:
SEE PREVIOUS SHEET FOR
HOST CONNECTOR DETAIL
AND LED LOCATION DETAILS

NOTES:

- DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA.
- FINISHED HOLE SIZE (AFTER PLATING).
- DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA.
- DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA.
- BELLY TO BELLY BOARD THICKNESS:
MINIMUM: 3.00 [0.118"] FOR 3.05MM LEGS.
MINIMUM: 2.07 [0.081"] FOR 2.28MM LEGS.
1.90MM AND 2.90MM SOLDER POST LEGS CANNOT BE MOUNTED BELLY TO BELLY

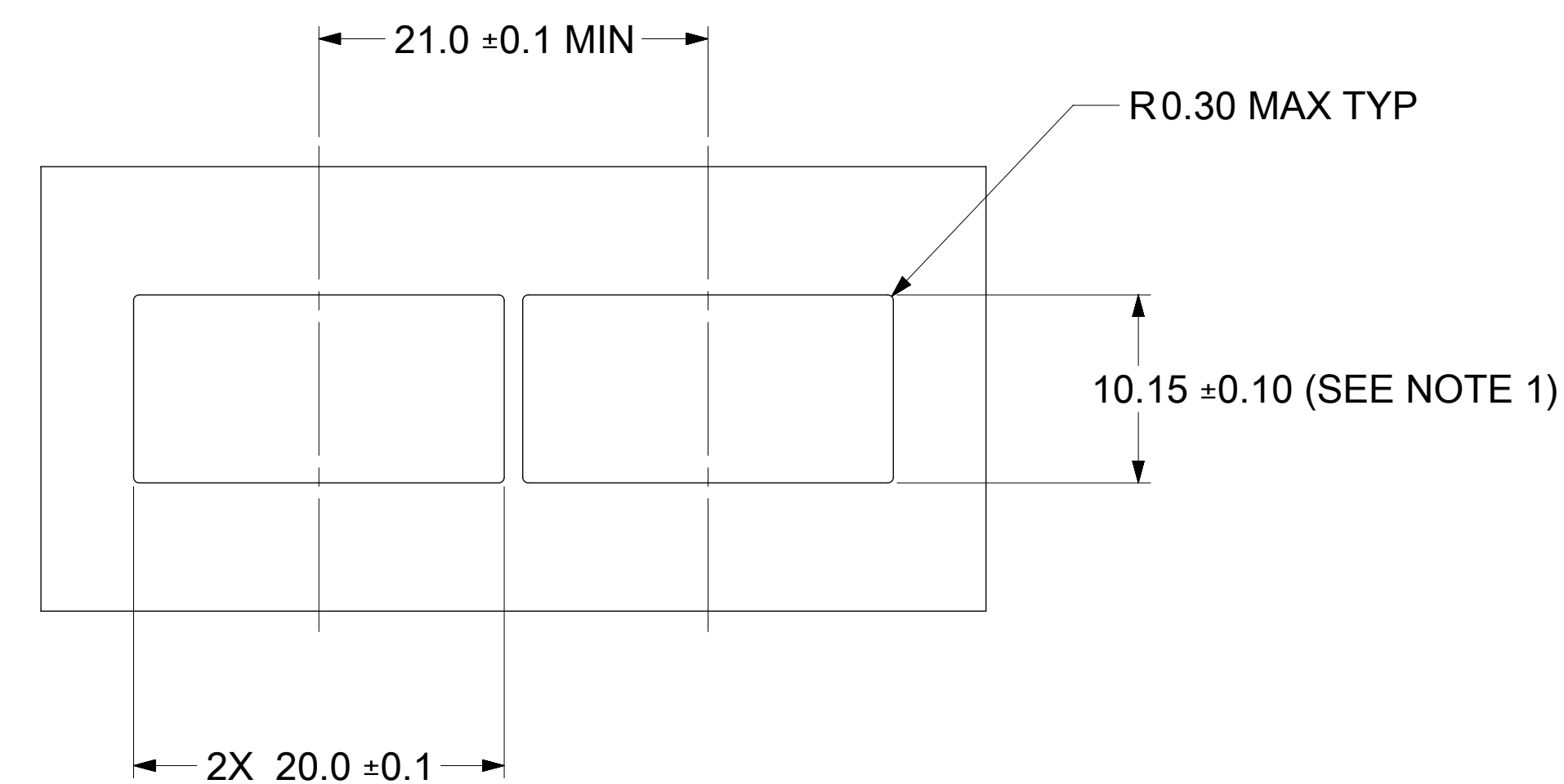
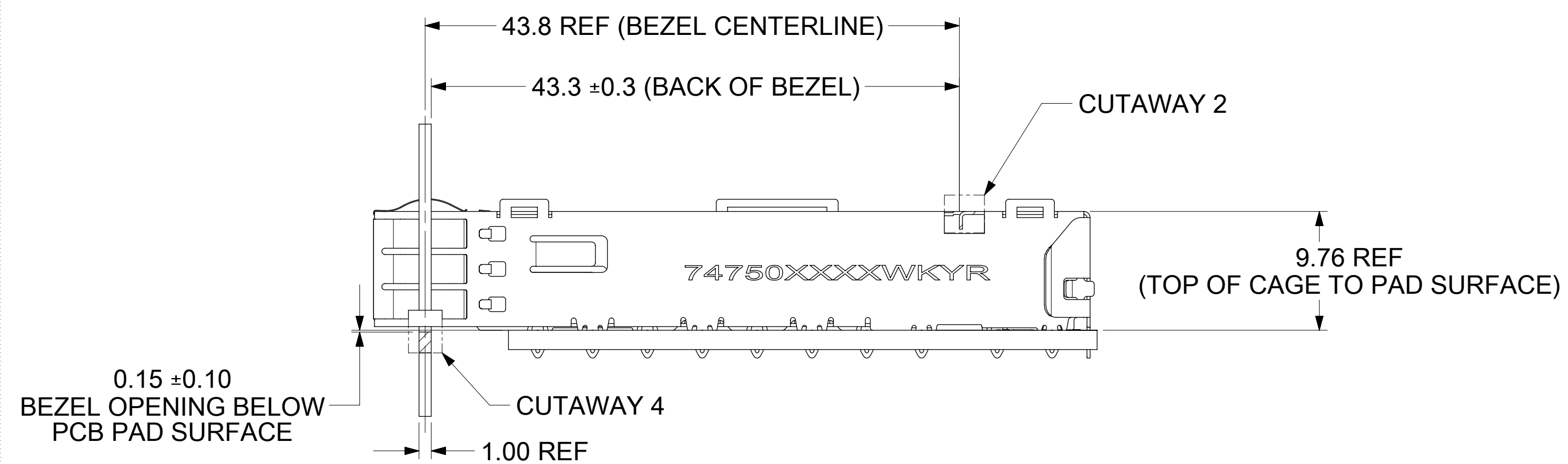
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457				molex				
mm	NTS									
GENERAL TOLERANCES (UNLESS SPECIFIED)						QSFP+ 1X1 CAGE ASSEMBLY WITH SPRING FINGER TYPE				
ANGULAR TOL ± 1.0°						PRODUCT CUSTOMER DRAWING				
4 PLACES	±	EC NO: 680890				DOCUMENT NUMBER				
3 PLACES	±	DRWN: SANTHN 2021/05/14				747500021				
2 PLACES	± 0.13	CHK'D: GGA 2021/11/25				DOC TYPE DOC PART REVISION				
1 PLACE	± 0.25	APPR: GGA 2021/11/25				PSD ASY N1				
0 PLACES	±	INITIAL REVISION:				MATERIAL NUMBER				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		CUSTOMER		SHEET NUMBER
		D-SIZE		74750		GENERAL MARKET		9 OF 12		

BOARD POSITION AND BEZEL DIMENSIONS FOR BELLY TO BELLY MOUNTING



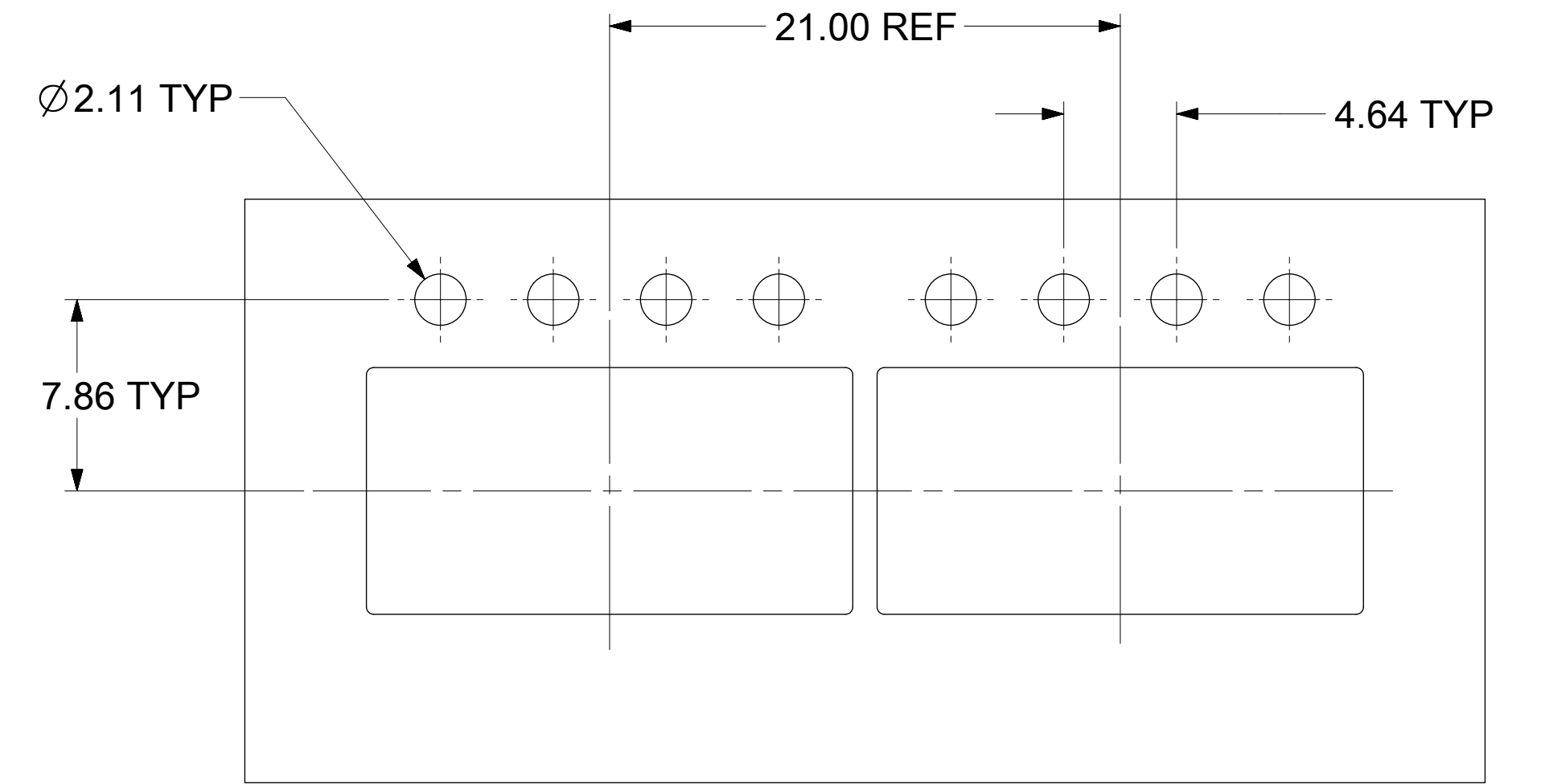
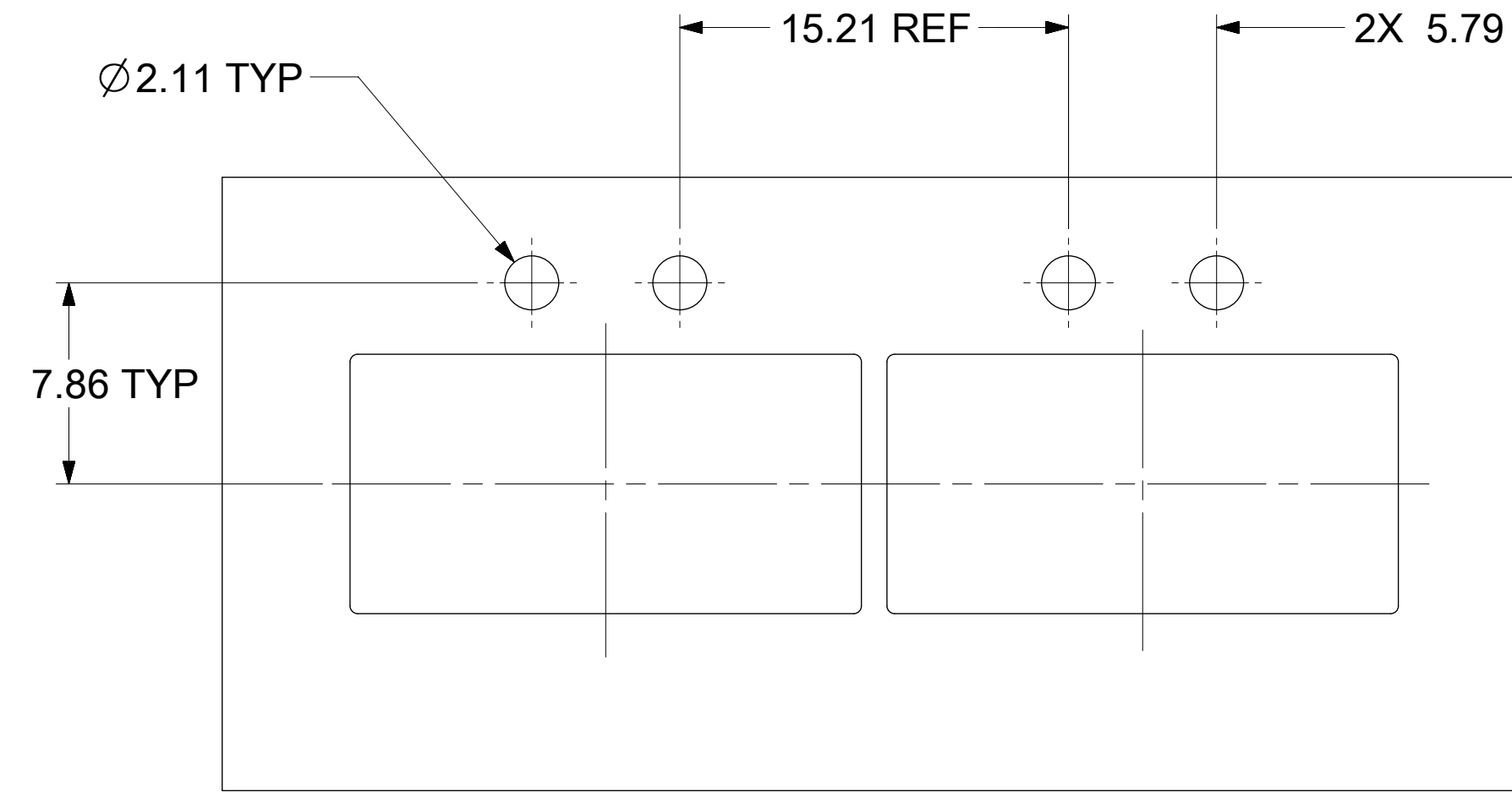
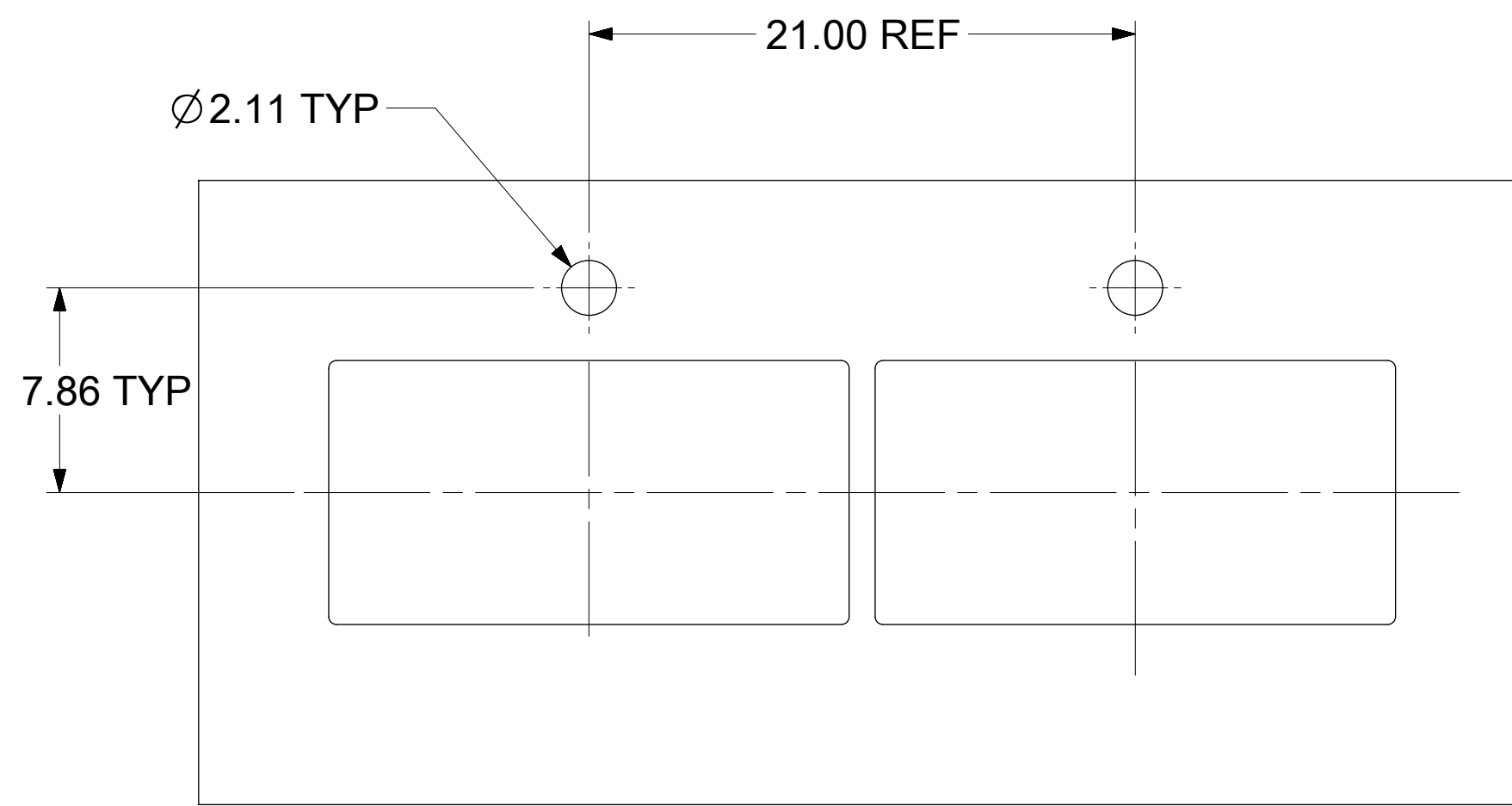
NOTE:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE, AND LOCATION.
 2. SEE QSFP MSA SPECIFICATION FOR BEZEL LOCATION TOLERANCE.


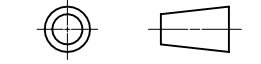
BOARD POSITION AND BEZEL DIMENSIONS FOR SINGLE SIDE MOUNTING



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS mm		SCALE NTS		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457				molex			
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890							
ANGULAR TOL ± 1.0°				DRWN: SANTHN 2021/05/14				PRODUCT CUSTOMER DRAWING			
4 PLACES ±				CHK'D: GGA 2021/11/25							
3 PLACES ±				APPR: GGA 2021/11/25				DOCUMENT NUMBER 747500021			
2 PLACES ± 0.13				INITIAL REVISION:							
1 PLACE ± 0.25				DRWN: SJKG 2016/06/23				REVISION N1		SHEET NUMBER 10 OF 12	
0 PLACES ±				APPR: RCHEN08 2017/06/05				MATERIAL NUMBER 74750			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING D-SIZE		SERIES 74750		SHEET NUMBER 10 OF 12	

LIGHT PIPE CUTOUT DIMENSIONS



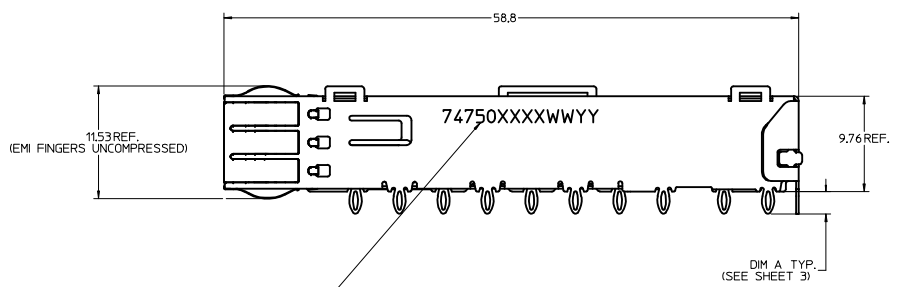
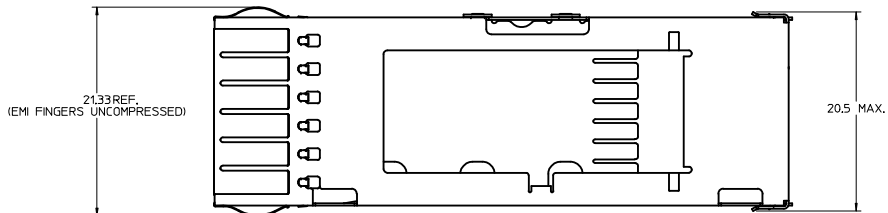
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457									
mm	NTS										
GENERAL TOLERANCES (UNLESS SPECIFIED)					EC NO: 680890 DRWN: SANTHN 2021/05/14 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25 INITIAL REVISION: DRWN: SJKG 2016/06/23 APPR: RCHEN08 2017/06/05						
ANGULAR TOL ± 1.0°											
4 PLACES ±											
3 PLACES ±											
2 PLACES ± 0.13											
1 PLACE ± 0.25					DOCUMENT NUMBER						
0 PLACES ±					747500021			DOC TYPE	DOC PART	REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
							D-SIZE	74750	GENERAL MARKET	11 OF 12	

REV	DATE	DESCRIPTION
A	2007/07/23	1) INITAL RELEASE
B	2007/08/06	1)CHANGED ALL TANGENT LINES FROM DASHED LINES TO SOLID LINES
C	2007/08/10	1) ADDED COMPONENT P/N COLUMN TO TABLE 2) ADDED "COMPONENT" TO NOTE IN BOTTOM VIEW ON SHEET 1 3) CHANGED TEXT IN MATERIAL NO. SECTION OF TITLE BLOCK TO READ "SEE TABLE"
D	2008/07/10	1) REMOVED COMMENTS FROM TABLE ON SHEET 1 2) ADDED "HOLES OPTIONAL" NOTE TO PCB LAYOUT ON SHEET 2 AND SHEET 3 3) ADDED 747500024 TO TABLE ON SHEET 1 AS WELL AS ISO VIEW 4) UPDATED "COMPONENT PART NUMBER AND DATE CODE" NOTE ON SHEET 1
E	2008/12/16	1) 20.4 DIMENSION WAS 20.38 REF. 2) 58.8 DIMENSION WAS 58.80 REF. 3) 2.28 TYP. DIMENSION WAS 2.28 REF. 4) 15.4 DIMENSION WAS 15.40 REF.
F	2009/04/13	1) REVISED COMPONENT P/N FOR MOLEX P/N 747500024 (CHANGED FROM 747540104 TO 747500104)
G	2010/10/29	1) 20.5 MAX DIMENSION WAS 20.4 2) 19.2 MAX DIMENSION WAS 16.2 MAX
H	2011/04/05	1) ADDED PRINTED DATE CODE TO LEFT SIDE OF CAGE AND ASSOCIATED NOTES. 2) ADDED CUTAWAY 1 AND CRITICAL TO FUNCTION DIMENSION 29.88 <input checked="" type="checkbox"/> 3) REMOVED 74750 FROM BOTTOM OF CAGE, SHEET 1. 4) UPDATED RoHS NOTE (NOTE 5) TO "LEAD FREE, NO RoHS EXEMPTIONS" ON SHEET 1. 5) ADDED END VIEW, SHEET 1.
I	2012/04/13	1) ADDED 747500012 TO P/N TABLE, SHEET 1. 2) UPDATED BELLY-TO-BELLY CAGE VIEW, SHEET 3. 3) ADDED BELLY-TO-BELLY BEZEL AND DIMENSIONS, SHEET 3.
J	2013/01/10	1) ADDED 747500057 AND 747500058 INTO P/N TABLE, SHEET 3. 2) REARRANGE EACH SHEET
K	2013/04/09	1) ADDED P/N 747500062 TO CHART ON PAGE 3. 2) UPDATED DIMENSION 9.77 TO 9.76 BY CORRECTING PLACEMENT ON VIEWS SHEET 6.
L	2014/12/11	1) ADDED P/N 747501586 AND ISO VIEW TO SHEET 3.
M	2017/05/31	REMASTERED FROM SD-74750-0021 REV_L TO 747500021 PDD ASY. COMBINED SD-74750-0070, 0092, 1100, & 1140 WITH 747500021 PDD ASY. SHEET 6: G06: ADDED NEW FG 747500059 TO P/N TABLE
M1	2017/06/08	CHANGED THE DOCUMENT TYPE FROM RSD TO SD
N	2017/09/27	SHEET 6: G06: ADDED NEW P/N 747500063 TO P/N TABLE
N1	2021/05/14	REMOVED OBSOLETED P/N 747500059, 747500063, 747501580, 747501581, 747501582, 747501583, 747501584, 747501585, 747500080, 747500081, 747500084, 747500085, 747500087, 747500042, 747500059, 747500063, 747501140, 747501141, 747501142, 747501143, 747500056, 747501103, 747500058, 747501100, 747501101.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION AS PER PCN#509457									
DIMENSION UNITS mm		SCALE NTS		CURRENT REV DESC: OBSOLETED PART NUMBER AS PER PCN#509457				molex	
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890					
ANGULAR TOL ± 1.0°		4 PLACES ±		DRWN: SANTHN 2021/05/14		2021/11/25		PRODUCT CUSTOMER DRAWING	
3 PLACES ±		2 PLACES ± 0.13		CHK'D: GGA 2021/11/25		APPR: GGA 2021/11/25		DOCUMENT NUMBER	
1 PLACE ± 0.25		0 PLACES ±		INITIAL REVISION: DRWN: SJKG 2016/06/23 APPR: RCHEN08 2017/06/05		747500021		DOC TYPE DOC PART REVISION PSD ASY N1	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER CUSTOMER SHEET NUMBER	
				D-SIZE		74750		GENERAL MARKET 12 OF 12	

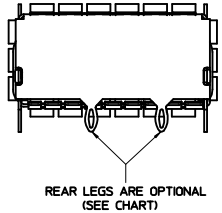
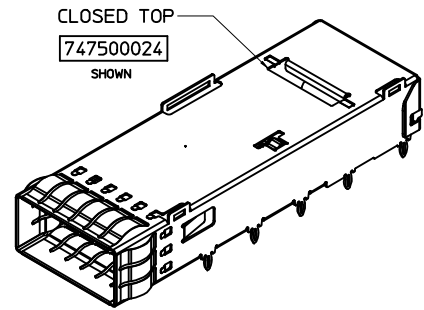
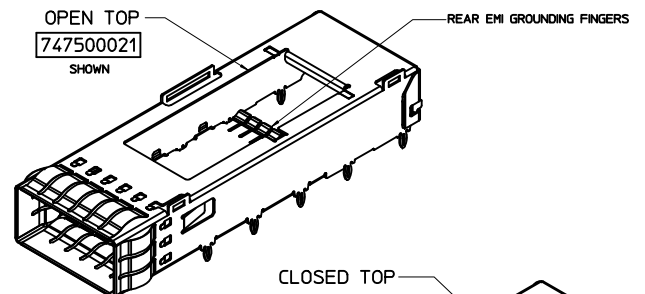
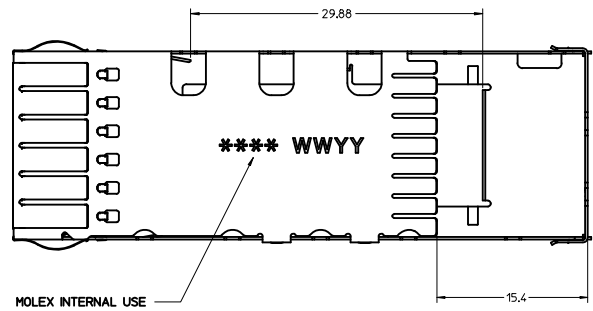
CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON SIDE OF COMPLETED CAGE ASSEMBLY AS SHOWN.

WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

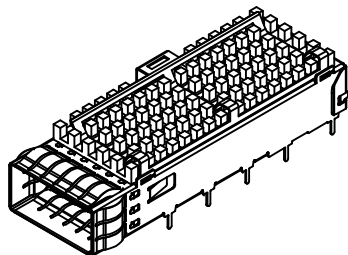
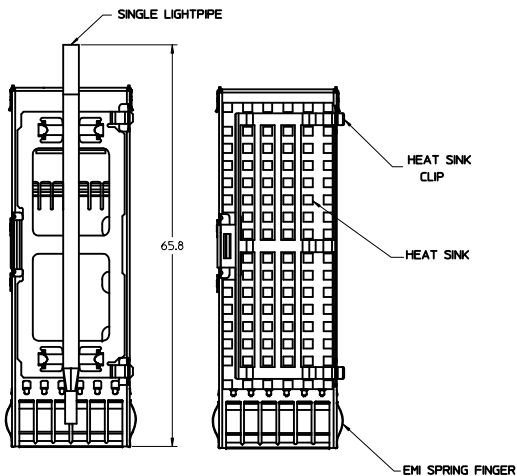


NOTES:

1. PRESS FIT LEGS 2.28 / 3.05 mm LONG
2. SOLDER POST LEGS 1.90 / 2.90 mm LONG
3. SINGLE SIDED BOARD THICKNESS
NOMINAL: 1.60
MINIMUM: 1.44
BELLY TO BELLY BOARD THICKNESS
NOMINAL: 2.30
MINIMUM: 2.07
4. MATERIAL: COPPER ALLOY (PLATED PRIOR TO CUTTING AND FORMING)
CAGE: 0.25 mm THICK COPPER ALLOY, NICKEL PLATED OR TIN
SPRING FINGER: 0.08 mm THICK COPPER ALLOY, NICKEL PLATED
HEAT SINK CLIP: STAINLESS STEEL
LIGHT PIPES: POLYCARBONATE (UL 94-V0 RATED)
HEATSINKS: ANNOXIDIZED ALUMINUM
5. REFERENCE DOCUMENTS: PRODUCT SPECIFICATION: QSFP MSA
6. CUSTOM HEATSHINKS AVAILABLE UPON REQUEST
7. QSFP+ ASSEMBLES ALSO AVAILABLE IN 1X2 (74767 SERIES), 1X3 (74768 SERIES), 1X4 (74769 SERIES) AND 1X6 (74771 SERIES).
8. PACKAGED IN TRAY.
9. NO RoHS EXEMPTIONS.

SEE REVISION SHEET EC NO: CPG2015-1999 DRAWN: ERWIN 2014/10/13 CHECKED: GABRIELLA 2014/10/13 APPROVED: BREED 2014/10/17 REV DESCRIPTION	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM ONLY DRAWN BY DATE CHIRSCHY 2007/07/23 CHECKED BY DATE BRUSSELL 2007/07/23 APPROVED BY DATE RMAHMOOD 2010/11/01 MATERIAL NO. SEE SHEET 3 DOCUMENT NO. SD-74750-0021		SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION		TITLE QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS molex		SHEET NO. 1 OF 8	
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
	SIZE D											
	DRAWN BY DATE CHIRSCHY 2007/07/23											

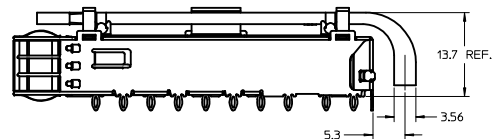
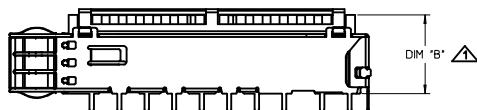
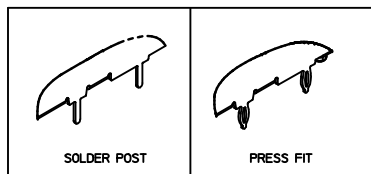
CAGE ASSEMBLY OPTIONS



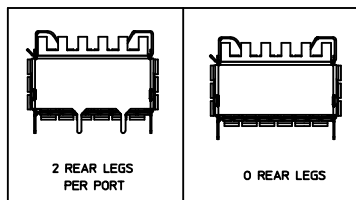
HEATSHINK AND LIGHT PIPE OPTIONS

<p>HEAT SINK ONLY</p>	<p>SINGLE LIGHT PIPE</p> <p>MOLEX P/N: 747500030</p>
<p>DUAL LIGHT PIPE</p> <p>MOLEX P/N: 747500031</p>	

LEG TYPE OPTIONS



REAR LEG OPTIONS



HEATSINK HEIGHT OPTIONS

OVERALL HEATSINK HEIGHT	DIM B	TOL
PCI	13.7	+0.25
SAN	16.0	-0.73
NET	23.0	

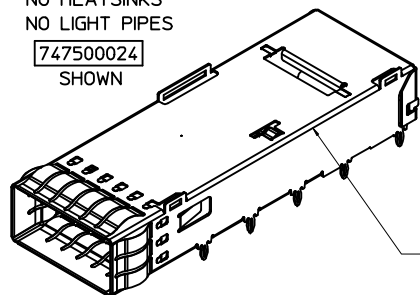
▲ HEIGHT OF HEATSINK WITH MODULE INSERTED.
DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

<p>SEE REVISION SHEET</p> <p>EC NO: CPG2015-1999</p> <p>2014/10/13</p> <p>DRWN:ERWIN</p> <p>CHKD:GABRIELLA</p> <p>2014/10/13</p> <p>APPR:BREED</p> <p>2014/10/17</p>	<p>QUALITY SYMBOLS</p> <p>▽=0</p> <p>▽=0</p> <p>▽=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±0.13</td> <td>±0.005</td> </tr> <tr> <td>3 PLACES</td> <td>±0.25</td> <td>±0.010</td> </tr> <tr> <td>2 PLACES</td> <td>±0.38</td> <td>±0.015</td> </tr> <tr> <td>1 PLACE</td> <td>±0.51</td> <td>±0.020</td> </tr> <tr> <td>0 PLACE</td> <td>±0.64</td> <td>±0.025</td> </tr> </tbody> </table> <p>ANGULAR ± 1°</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>		mm	INCH	4 PLACES	±0.13	±0.005	3 PLACES	±0.25	±0.010	2 PLACES	±0.38	±0.015	1 PLACE	±0.51	±0.020	0 PLACE	±0.64	±0.025	<p>DIMENSION STYLE</p> <p>MM ONLY</p>	<p>SCALE</p> <p>2.5:1</p>	<p>DESIGN UNITS</p> <p>METRIC</p>	<p>THIRD ANGLE PROJECTION</p>
				mm	INCH																			
4 PLACES	±0.13	±0.005																						
3 PLACES	±0.25	±0.010																						
2 PLACES	±0.38	±0.015																						
1 PLACE	±0.51	±0.020																						
0 PLACE	±0.64	±0.025																						
<p>MATERIAL NO.</p> <p>SEE SHEET 3</p>	<p>DATE</p> <p>2007/07/23</p>	<p>DATE</p> <p>2007/07/23</p>	<p>DATE</p> <p>2010/11/01</p>	<p>DATE</p> <p>2010/11/01</p>	<p>DATE</p> <p>2010/11/01</p>	<p>TITLE</p> <p>QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS</p>																		
		<p>DOCUMENT NO.</p> <p>SD-74750-0021</p>		<p>SHEET NO.</p> <p>2 OF 8</p>		<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>																		

PART NUMBER SELECTION

NO HEATSINKS
NO LIGHT PIPES

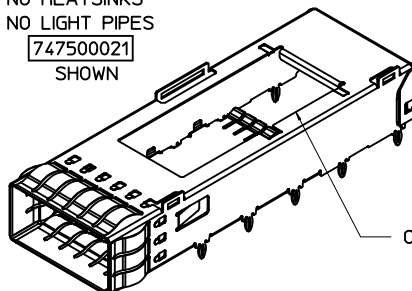
747500024
SHOWN



CLOSED TOP

NO HEATSINKS
NO LIGHT PIPES

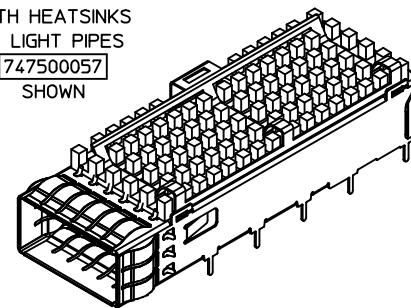
747500021
SHOWN



OPEN TOP

WITH HEATSINKS
NO LIGHT PIPES

747500057
SHOWN



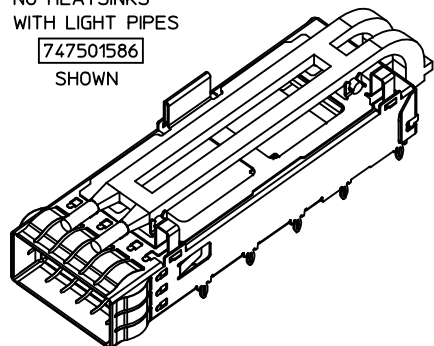
MOLEX P/N		# OF REAR LEGS PER PORT	DIM A	PLATING
LEG TYPE PRESS FIT	LEG TYPE SOLDER POST			
747500024	---	2	2.28	NICKEL
---	747500051	2	1.9	NICKEL
---	747500053	2	1.9	MATTE TIN
---	747500056	2	1.9	BRIGHT TIN

MOLEX P/N		# OF REAR LEGS PER PORT	DIM A	PLATING
LEG TYPE PRESS FIT	LEG TYPE SOLDER POST			
747500012	---	2	3.05	NICKEL
747500021	---	2	2.28	NICKEL
747500023	---	0	2.28	NICKEL
---	747500058	2	2.90	NICKEL
---	747500062 *	2	2.90	NICKEL

MOLEX P/N		# OF REAR LEGS PER PORT	DIM A	DIM B	PLATING
LEG TYPE PRESS FIT	LEG TYPE SOLDER POST				
---	747500057	2	2.9	13.7	NICKEL
747500040	---	2	2.28	16.0	NICKEL
747500042	---	0	2.28	16.0	NICKEL
747500044	---	2	2.28	13.7	NICKEL
747500046	---	2	2.28	23.0	NICKEL

NO HEATSINKS
WITH LIGHT PIPES

747501586
SHOWN



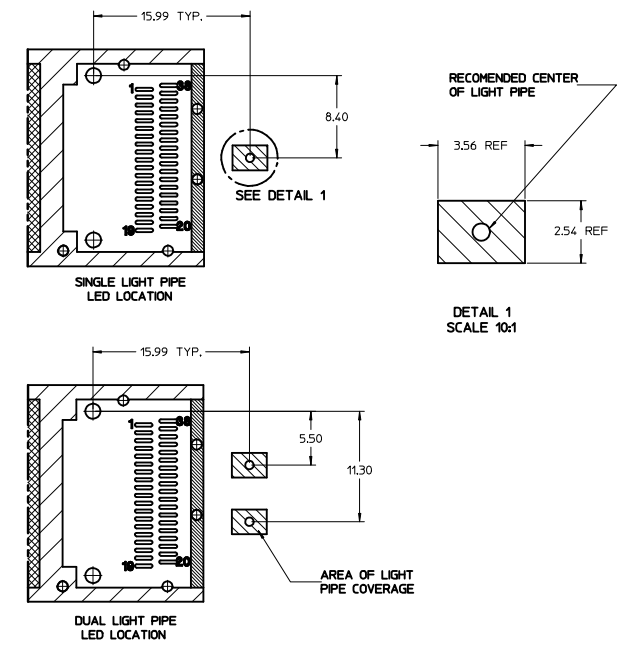
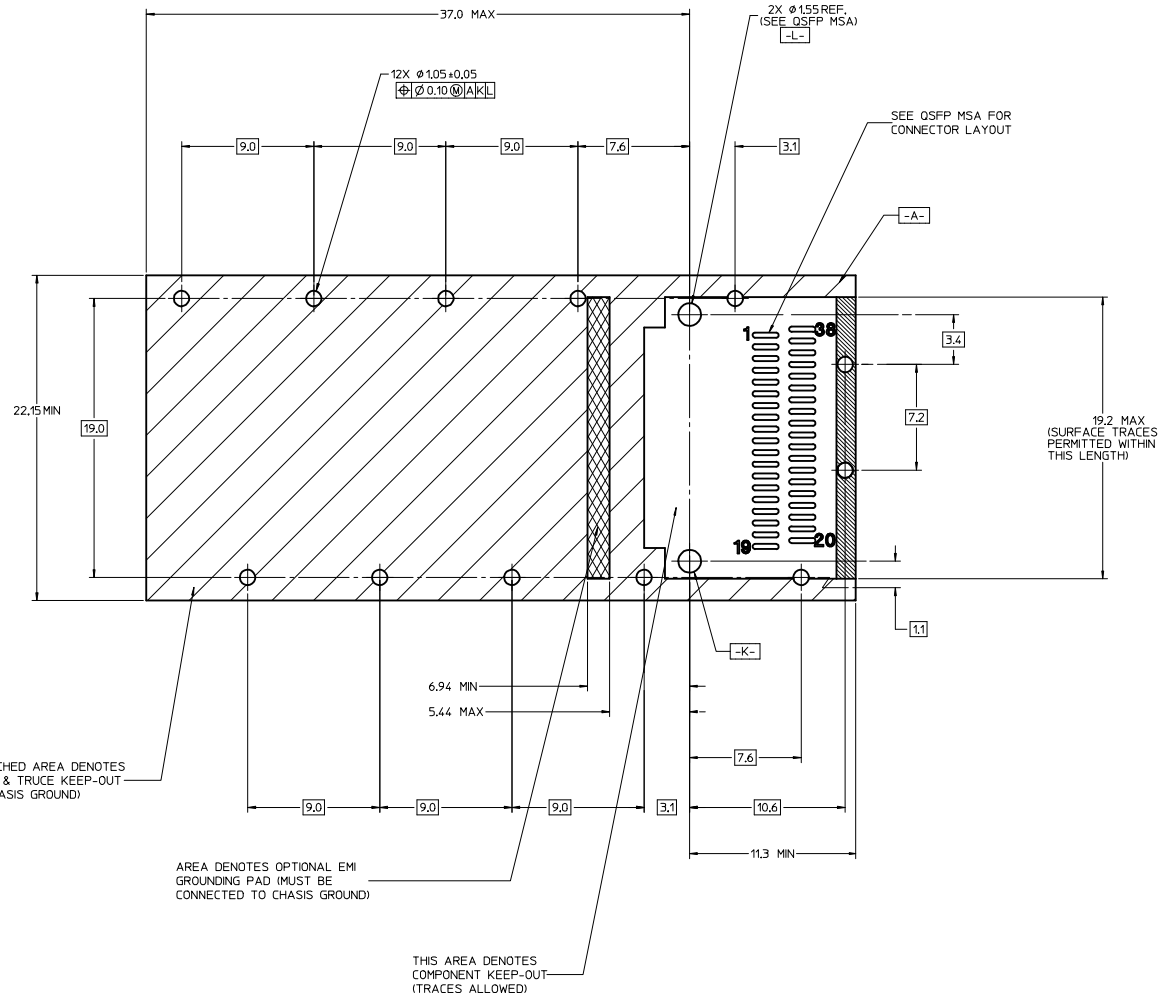
MOLEX ASSEMBLY P/N	MOLEX P/N		LIGHT PIPE ASSEMBLY P/N	#OF REAR LEGS PER PORT	DIM A	PLATING
	LEG TYPE PRESS FIT	LEG TYPE SOLDER POST				
747501586	747500024	---	747500031	2	2.28	NICKEL

* HEATSINK/LIGHT PIPE CLIP FEATURE REMOVED.

SEE REVISION SHEET IEC NO. CPG2015-1999 DRAWN: LERMIN 2014/10/13 CHECKED: GARDELLA 2014/10/13 APPR: BREED 2014/10/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± mm ± INCH 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---		DRAWN BY DATE CHIRSCHY 2007/07/23 CHECKED BY DATE BRUSSELL 2007/07/23 APPROVED BY DATE RMAHMOOD 2010/11/01		TITLE QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS			
		ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 3		DOCUMENT NO. SD-74750-0021		SHEET NO. 3 OF 8	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

PCB LAYOUT FOR SINGLE SIDED APPLICATIONS

FOR CAGE ASSEMBLIES WITH LIGHT PIPES



CROSS HATCHED AREA DENOTES COMPONENT & TRUCE KEEP-OUT (EXCEPT CHASIS GROUND)

AREA DENOTES OPTIONAL EMI GROUNDING PAD (MUST BE CONNECTED TO CHASIS GROUND)

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

NOTES:

1. DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA
2. FINISHED HOLE SIZE (AFTER PLATING)
3. DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA
4. DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA

SEE REVISION SHEET IEC NO: CPG2015-1999 DRAWN BY: LERMIN 2014/10/13 CHYKOBARDILLA 2014/10/13 APPROVED BY: BREED 2014/10/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0		GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±0.13</td> <td>±0.005</td> </tr> <tr> <td>3 PLACES</td> <td>±0.25</td> <td>±0.010</td> </tr> <tr> <td>2 PLACES</td> <td>±0.50</td> <td>±0.020</td> </tr> <tr> <td>1 PLACE</td> <td>±1.00</td> <td>±0.040</td> </tr> <tr> <td>0 PLACE</td> <td>±1.50</td> <td>±0.060</td> </tr> </table>			mm	INCH	4 PLACES	±0.13	±0.005	3 PLACES	±0.25	±0.010	2 PLACES	±0.50	±0.020	1 PLACE	±1.00	±0.040	0 PLACE	±1.50	±0.060	DIMENSION STYLE MM ONLY		SCALE 1:1		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
		mm	INCH																											
	4 PLACES	±0.13	±0.005																											
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2 PLACES	±0.50	±0.020																												
1 PLACE	±1.00	±0.040																												
0 PLACE	±1.50	±0.060																												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 1°		DRAWN BY: CHIRSCHY DATE: 2007/07/23		CHECKED BY: BRUSSELL DATE: 2007/07/23		APPROVED BY: MAHMOOD DATE: 2010/11/01																					
MATERIAL NO.						DOCUMENT NO.																								
SEE SHEET 3						SD-74750-0021																								

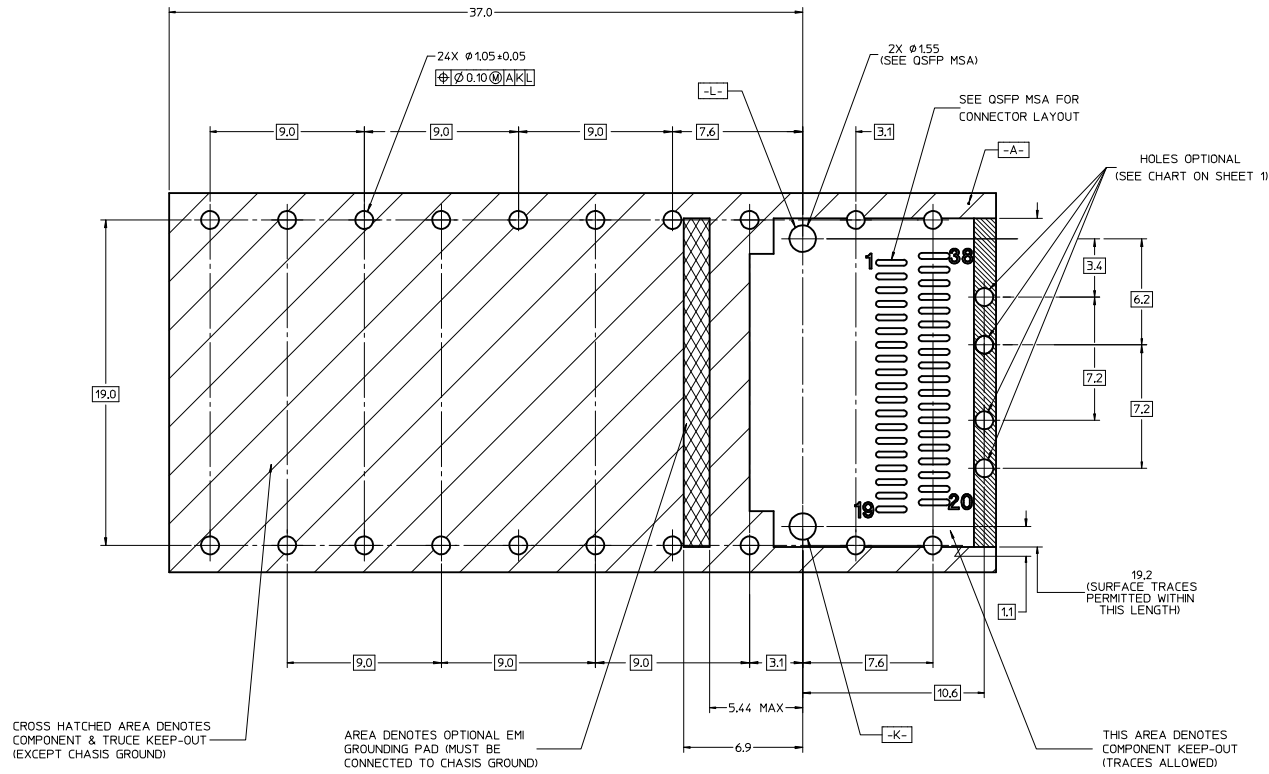
TITLE: QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS

molex

SHEET NO. 4 OF 8

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

PCB LAYOUT FOR BELLY-TO-BELLY APPLICATIONS



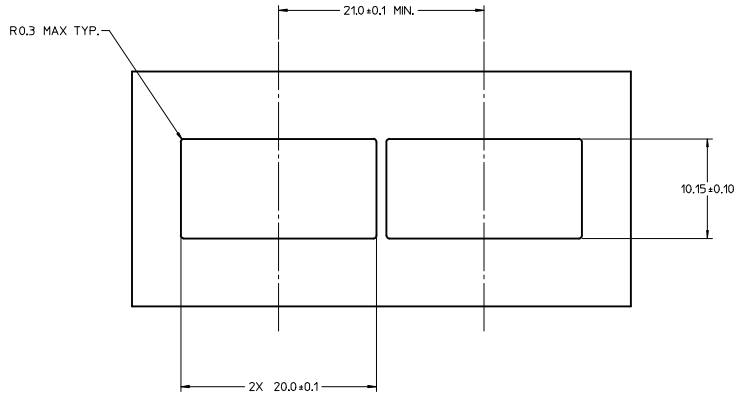
NOTE:
FOR RECOMENDED CENTER
OF LIGHT PIPES,
SEE SHEET 4

NOTES:

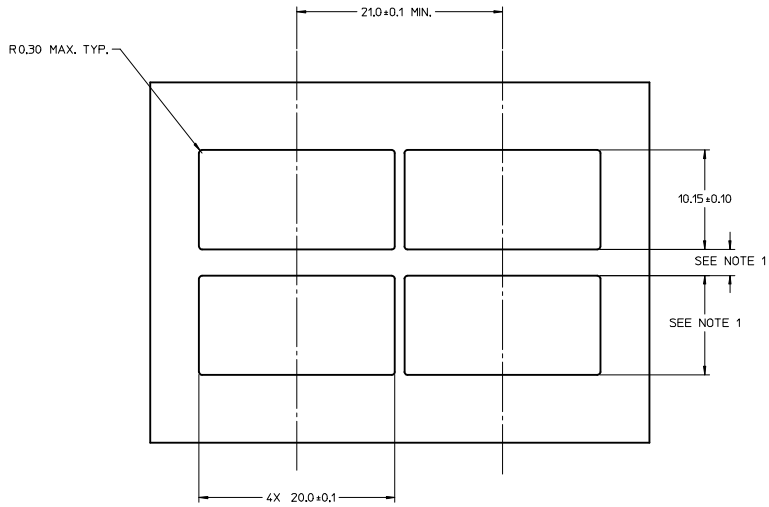
1. DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA.
2. FINISHED HOLE SIZE (AFTER PLATING).
3. DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA.
4. DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA.

SEE REVISION SHEET EEC NO: CPG2015-1999 DRAWN BY: ERWIN CHYKOGARELLA APPROVED: BREED DATE: 2014/10/13 DATE: 2014/10/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY	1:1	METRIC		
				mm	inch			
		4 PLACES	±	---	±	---		
3 PLACES	±	---	±	---				
2 PLACES	±	0.13	±	---				
1 PLACE	±	0.25	±	---				
0 PLACE	±	---	±	---				
ANGULAR ± 1 °				DRAWN BY: CHIRSCHY		DATE: 2007/07/23		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				CHECKED BY: BRUSSELL		DATE: 2007/07/23		
				APPROVED BY: RMAHMOOD		DATE: 2010/11/01		
				WATERL NO:		DOCUMENT NO:		
				SEE SHEET 3		SD-74750-0021		
				SIZE D		SHEET NO. 5 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 SINGLE SIDE MOUNTING



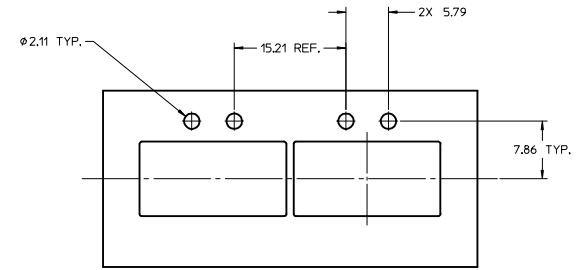
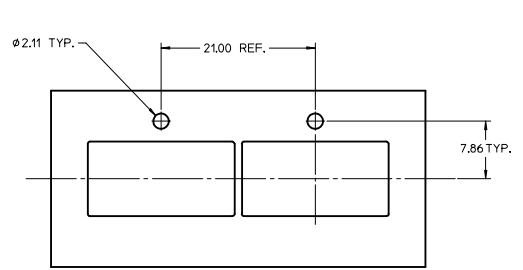
BEZEL AND BOARD POSITION DIMENSIONS
FOR BELLY-TO-BELLY MOUNTING



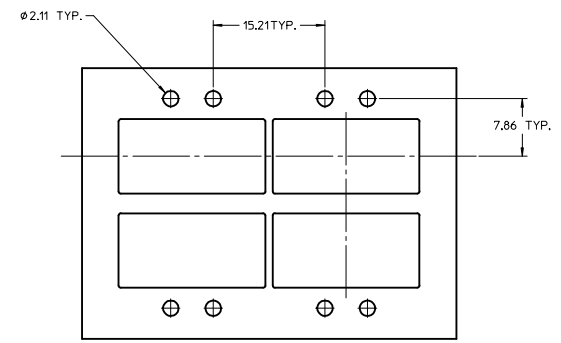
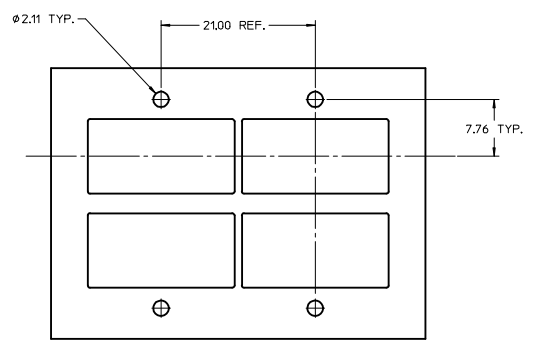
NOTE:
1. SEE QSFP MSA SPECIFICATION FOR BEZEL LOCATION TOLERANCE.
2. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE, AND LOCATION.

SEE REVISION SHEET IEC NO: CPG2015-1999 DRAWN: LERMIN 2014/10/13 CHECKED: GARDELLA 2014/10/13 APPR: BREED 2014/10/17	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY	1:1	METRIC	☉
	▽=0	3 PLACES ± 0.13 ± --- ± ---	DRAWN BY DATE	CHIRSCHY 2007/07/23	TITLE	
	▽=0	2 PLACES ± 0.25 ± --- ± ---	CHECKED BY DATE	BRUSSELL 2007/07/23	QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS	
		ANGULAR ± 1 °	APPROVED BY DATE	RM AHMOOD 2010/11/01	DOCUMENT NO. SD-74750-0021	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	SEE SHEET 3		SHEET NO. 6 OF 8
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

BEZEL LIGHT PIPE CUTOUT POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



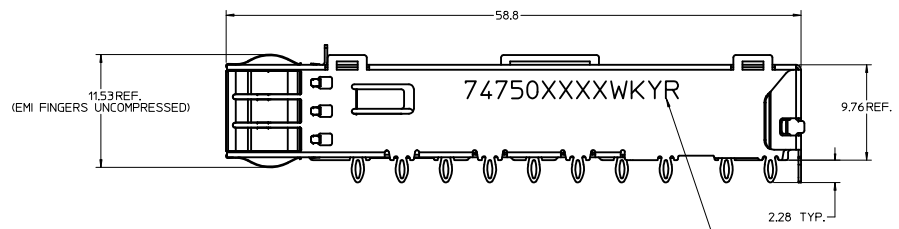
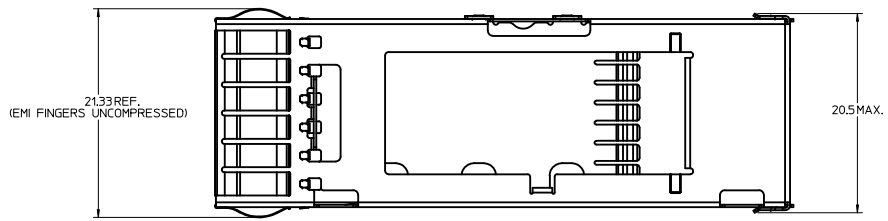
BEZEL LIGHT PIPE CUTOUT POSITION DIMENSIONS FOR BELLY-TO-BELLY MOUNTING



SEE REVISION SHEET IEC NO. CPG2015-1999 DRAWN: LERMIN 2014/10/13 CHECKED: GARDELLA 2014/10/13 APPR: BREED 2014/10/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY	3:1	METRIC			
				ANGULAR ± 1 °	DRAWN BY DATE		TITLE QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHIRSCHY 2007/07/23 CHECKED BY DATE BRUSSELL 2007/07/23 APPROVED BY DATE RMAHMOOD 2010/11/01				
				MATERIAL NO.		DOCUMENT NO.			
				SEE SHEET 3		SD-74750-0021			
				SIZE		SHEET NO.			
				D		7 OF 8			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

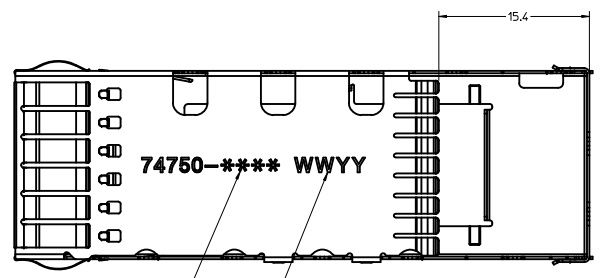
DATE	REV	DESCRIPTION
2007/07/23	A	INITAL RELEASE
2007/08/06	B	CHANGED ALL TANGENT LINES FROM DASHED LINES TO SOLID LINES
2007/08/10	C	1. ADDED COMPONENT P/N COLUMN TO TABLE 2. ADDED 'COMPONENT' TO NOTE IN BOTTOM VIEW ON SHEET 1 3. CHANGED TEXT IN MATERIAL NO. SECTION OF TITLE BLOCK TO READ 'SEE TABLE'
2008/07/10	D	1. REMOVED COMMENTS FROM TABLE ON SHEET 1 2. ADDED 'HOLES OPTIONAL' NOTE TO PCB LAYOUT ON SHEET 2 AND SHEET 3 3. ADDED 747500024 TO TABLE ON SHEET 1 AS WELL AS ISO VIEW 4. UPDATED 'COMPONENT PART NUMBER AND DATE CODE' NOTE ON SHEET 1
2008/12/16	E	1. 20.4 DIMENSION WAS 20.38 REF. 2. 58.8 DIMENSION WAS 58.80 REF. 3. 2.28 TYP. DIMENSION WAS 2.28 REF. 4. 15.4 DIMENSION WAS 15.40 REF.
2009/04/13	F	1. REVISED COMPONENT P/N FOR MOLEX P/N 747500024 (CHANGED FROM 747540104 TO 747500104)
2010/10/29	G	1. 20.5 MAX DIMENSION WAS 20.4 2. 19.2 MAX DIMENSION WAS 16.2 MAX
2011/04/05	H	1. ADDED PRINTED DATE CODE TO LEFT SIDE OF CAGE AND ASSOCIATED NOTES. 2. ADDED CUTAWAY 1 AND CRITICAL TO FUNCTION DIMENSION 29.88 ±0.15, SHEET 1. 3. REMOVED 74750 FROM BOTTOM OF CAGE, SHEET 1. 4. UPDATED RoHS NOTE (NOTE 5) TO 'LEAD FREE, NO RoHS EXEMPTIONS' ON SHEET 1. 5. ADDED END VIEW, SHEET 1.
2012/04/13	I	1. ADDED 747500012 TO P/N TABLE, SHEET 1. 2. UPDATED BELLY-TO-BELLY CAGE VIEW, SHEET 3. 3. ADDED BELLY-TO-BELLY BEZEL AND DIMENSIONS, SHEET 3.
2013/01/10	J	1. ADDED 747500057 AND 747500058 INTO P/N TABLE, SHEET 3. 2. REARRANGE EACH SHEET
2013/04/09	K	1. ADDED P/N 747500062 TO CHART ON PAGE 3. 2. UPDATED DIMENSION 9.77 TO 9.76 BY CORRECTING PLACEMENT ON VIEWS SHEET 6.
2014/10/13	L	1. ADDED P/N 747501586 AND ISO VIEW TO SHEET 3.

SEE REVISION SHEET EEC NO: CPG2015-1999 DRAWN: ERWIN 2014/10/13 CHKD: BARRELLA 2014/10/13 APPR: BREED 2014/10/17 REV:	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED): mm INCH		DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---	DRAWN BY DATE CHIRSCHY 2007/07/23 CHECKED BY DATE BRUSSELL 2007/07/23 APPROVED BY DATE RMAHMOOD 2010/11/01	TITLE QSFP+ CAGE ASSEMBLY WITH SPRING FINGERS			
		ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 3	DOCUMENT NO. SD-74750-0021	SHEET NO. 8 OF 8	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



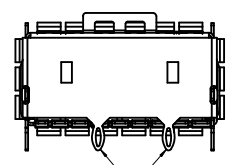
PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

WEEK/YEAR DATE CODE TABLE	
WEEK - 01 THRU 52	EXAMPLE: 01 - FIRST WEEK OF YEAR 52 - LAST WEEK OF YEAR
YEAR - 10, 11, 12 ETC.	EXAMPLE: YEAR 2010 - 10

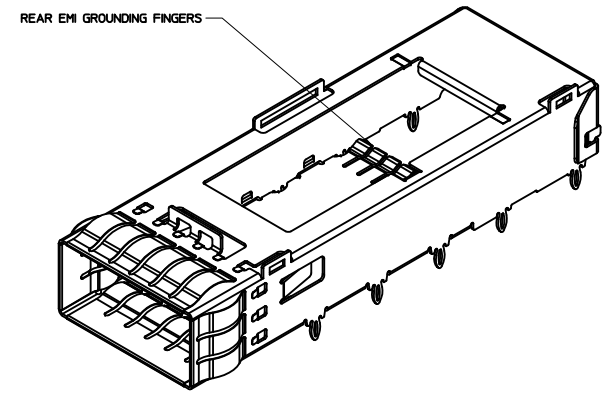


COMPONENT PART NUMBER (SEE TABLE)

COMPONENT DATE CODE



REAR PINS ARE OPTIONAL (SEE CHART)



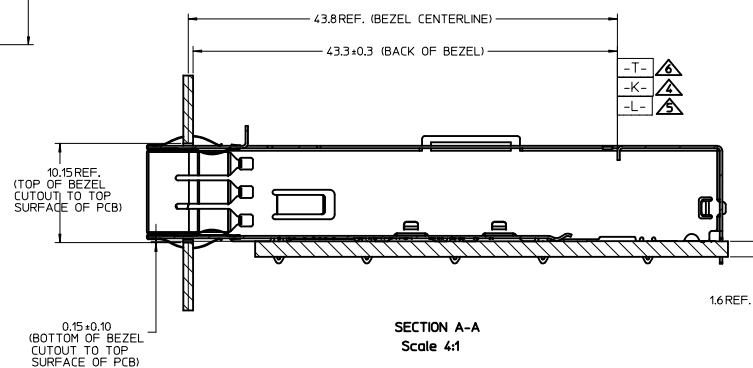
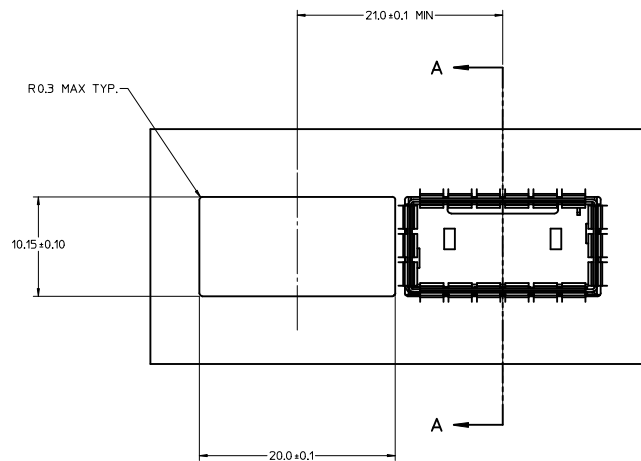
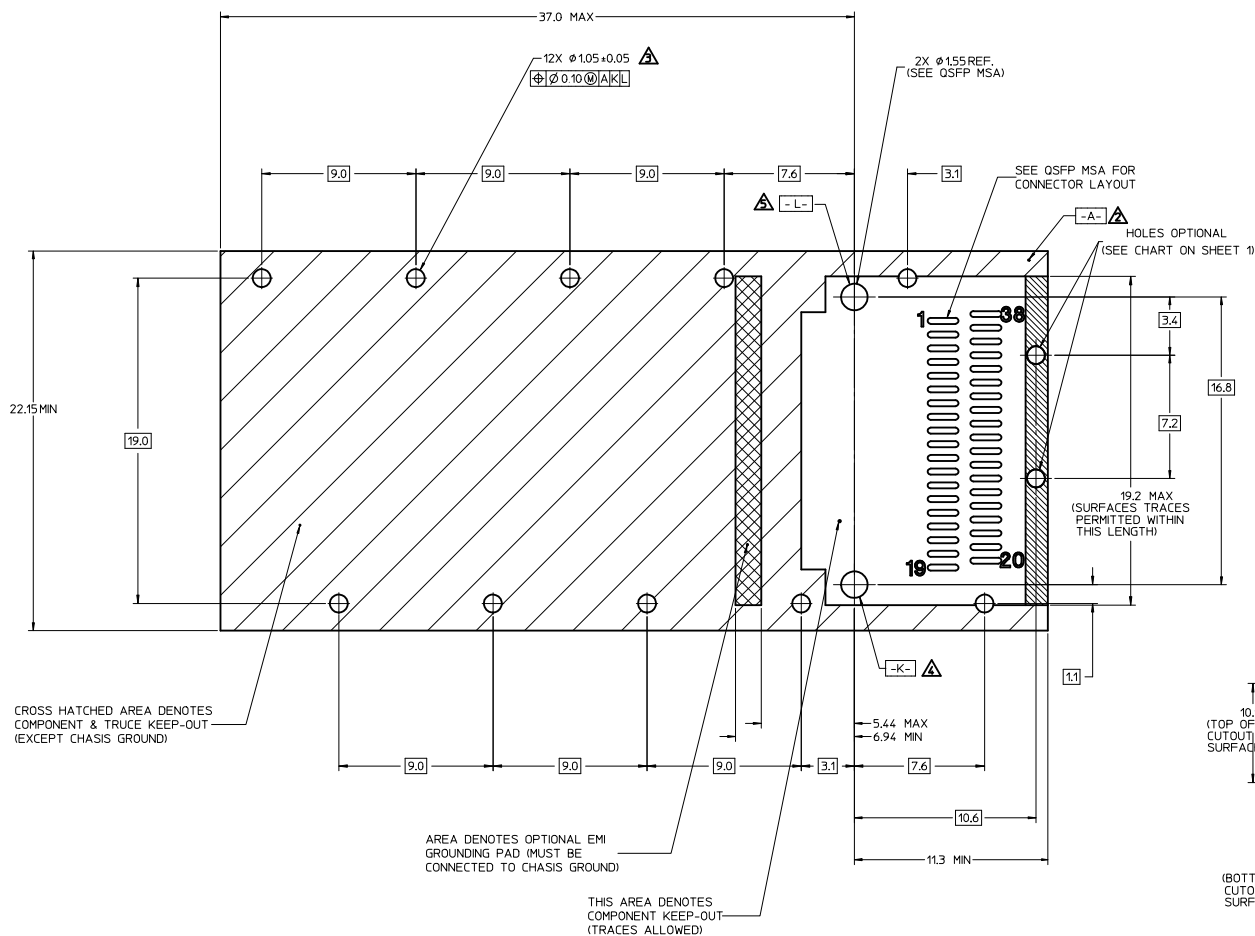
FINISHED ASSEMBLY P/N	COMPONENT P/N (CAGE)	# OF REAR LEGS	COMMENTS
747500092	747500112	2	OPEN TOP FOR HEAT SINK
747500093	747500113	0	OPEN TOP FOR HEAT SINK

NOTES:

- PRESS FIT LEGS 2.28mm [0.090"] LONG
- SINGLE SIDED BOARD THICKNESS
 NOMINAL: 1.60 [0.062"]
 MINIMUM: 1.44 [0.057"]
 BELLY TO BELLY BOARD THICKNESS
 NOMINAL: 2.30 [0.090"]
 MINIMUM: 2.07 [0.081"]
- MATERIAL: COPPER ALLOY (PLATED PRIOR TO CUTTING AND FORMING)
 PLATING: NICKEL
- REFERENCE DOCUMENTS:
 PRODUCT SPECIFICATION: QSFP MSA
- THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC).

INITIAL RELEASE EC NO: USY2011-0437 DRAWN: JERWIN 2010/09/20 CHECKED: CHIRSCHY 2010/09/20 APPROVED: RMAHMOOD 2010/12/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▼=0 ▽=0	mm INCH	MM ONLY	4:1	METRIC		
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±---	DRAWN BY DATE JERWIN 2010/09/20 CHECKED BY DATE CHIRSCHY 2010/09/20 APPROVED BY DATE RMAHMOOD 2010/12/20	TITLE	QSFP CAGE ASSEMBLY W/ SPRING FINGERS		
		ANGULAR ± 1°	MATERIAL NO. SEE TABLE	MOLEX INCORPORATED	DOCUMENT NO. SD-74750-0092	SHEET NO. 1 OF 4	
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					

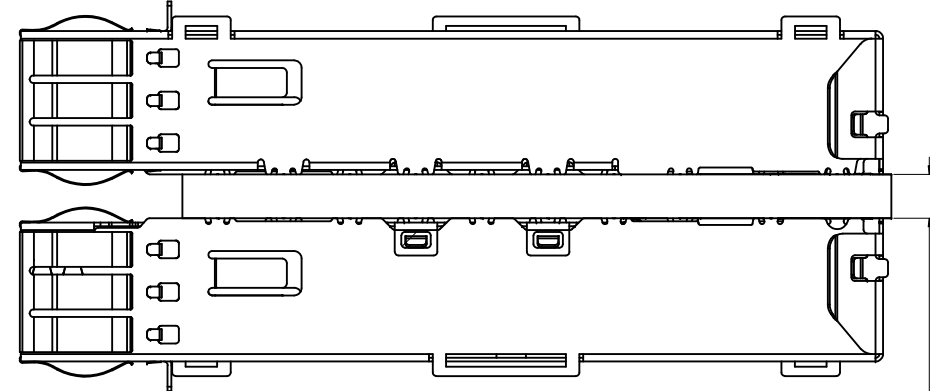
PCB LAYOUT FOR SINGLE SIDED APPLICATIONS



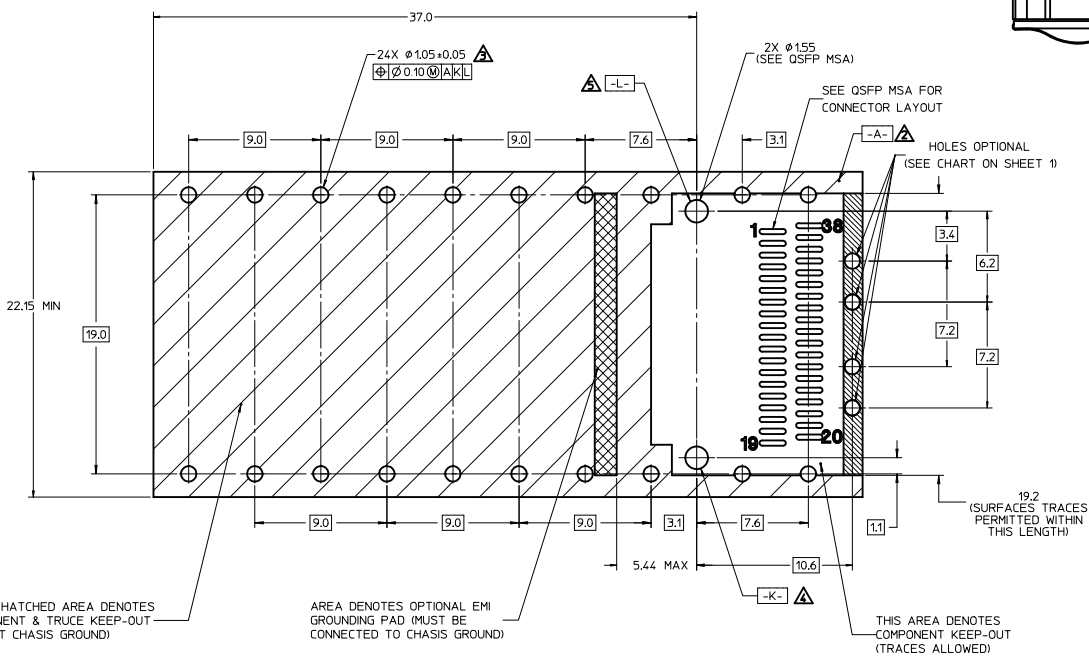
NOTES:

1. DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA
2. FINISHED HOLE SIZE (AFTER PLATING)
3. DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA
4. DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA
5. DATUM -T- IS HARD STOP ON CAGE PER MSA

INITIAL RELEASE EC NO: USY2011-0437 DRAWN BY: JERWIN CHYKHIRSCHY 2010/09/20 APPROVED BY: RAHMOOD 2010/12/20	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1°	mm INCH	DRAWN BY JERWIN DATE 2010/09/20	CHECKED BY CHIRSCHY DATE 2010/09/20	APPROVED BY RAHMOOD DATE 2010/12/20	WATERL NO. SEE TABLE	DOCUMENT NO. SD-74750-0092
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						



PCB LAYOUT FOR BELLY TO BELLY APPLICATIONS



NOTE:
BEZEL CUTOUT LOCATIONS FOR BELLY TO BELLY APPLICATIONS ARE DEPENDENT ON PCB THICKNESS

2.3 REF.

NOTES:

1. SEE QSFP MSA SPECIFICATION FOR BEZEL LOCATION TOLERANCE
2. DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA
3. FINISHED HOLE SIZE (AFTER PLATING)
4. DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA
5. DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA

INITIAL RELEASE EC NO: USY2011-0437 DRAWN BY: JERWIN CHYKCHRSCHY APPROVED BY: RAHMOOD DATE: 2010/09/20 DATE: 2010/09/20 DATE: 2010/12/20	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY JERWIN	DATE 2010/09/20	TITLE QSFP CAGE ASSEMBLY W/ SPRING FINGERS			
		3 PLACES ± --- ± ---	± 0.13 ± ---	CHECKED BY CHRSCHY	DATE 2010/09/20	MOLEX INCORPORATED			
		2 PLACES ± 0.25 ± ---	ANGULAR ± 1°	APPROVED BY RAHMOOD	DATE 2010/12/20	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74750-0092	SHEET NO. 3 OF 4	
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							

DATE	REV	DESCRIPTION
2010/09/22	A	INITIAL RELEASE

PROPOSED IEC NO: USY2011-0437 A DRAWN: JERWIN 2010/09/20 CHYKDIHRSCHY 2010/09/20 APPR: RAHMOOD 2010/12/20	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± mm ± INCH		DRAWN BY: JERWIN DATE: 2010/09/20			TITLE: QSFP CAGE ASSEMBLY W/ SPRING FINGERS		
		3 PLACES ± --- ± ---		CHECKED BY: CHYKDIHRSCHY DATE: 2010/09/20			Molex MOLEX INCORPORATED		
		2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1°		APPROVED BY: RAHMOOD DATE: 2010/12/20			DOCUMENT NO: SD-74750-0092		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				WATERL NO: SEE TABLE		SHEET NO: 4 OF 4			
SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									