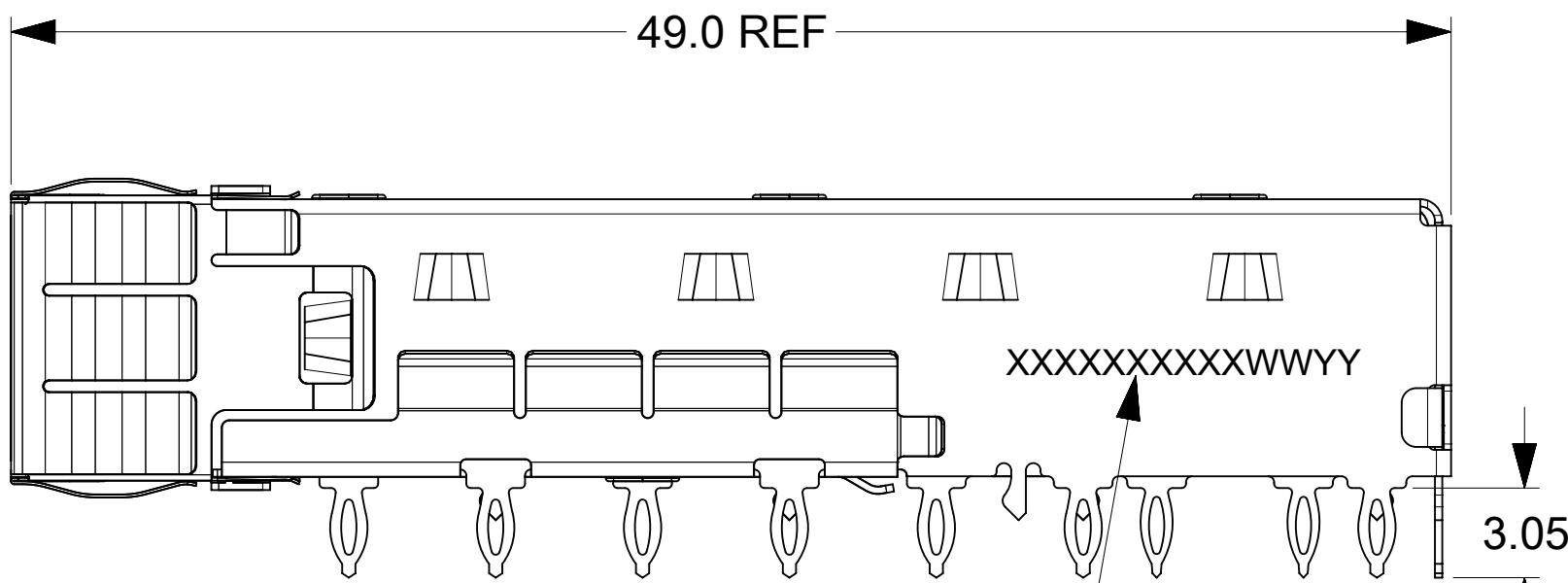
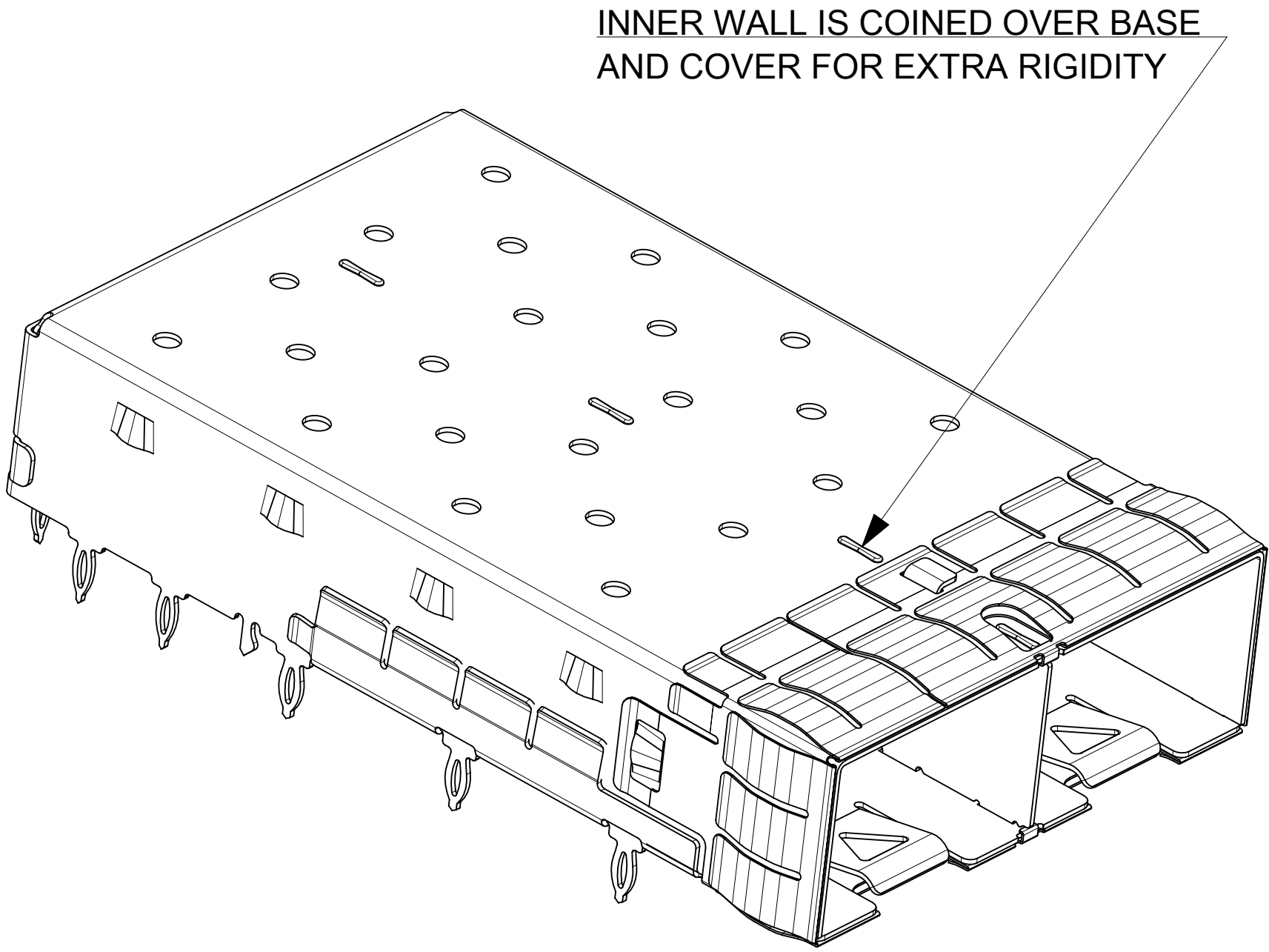
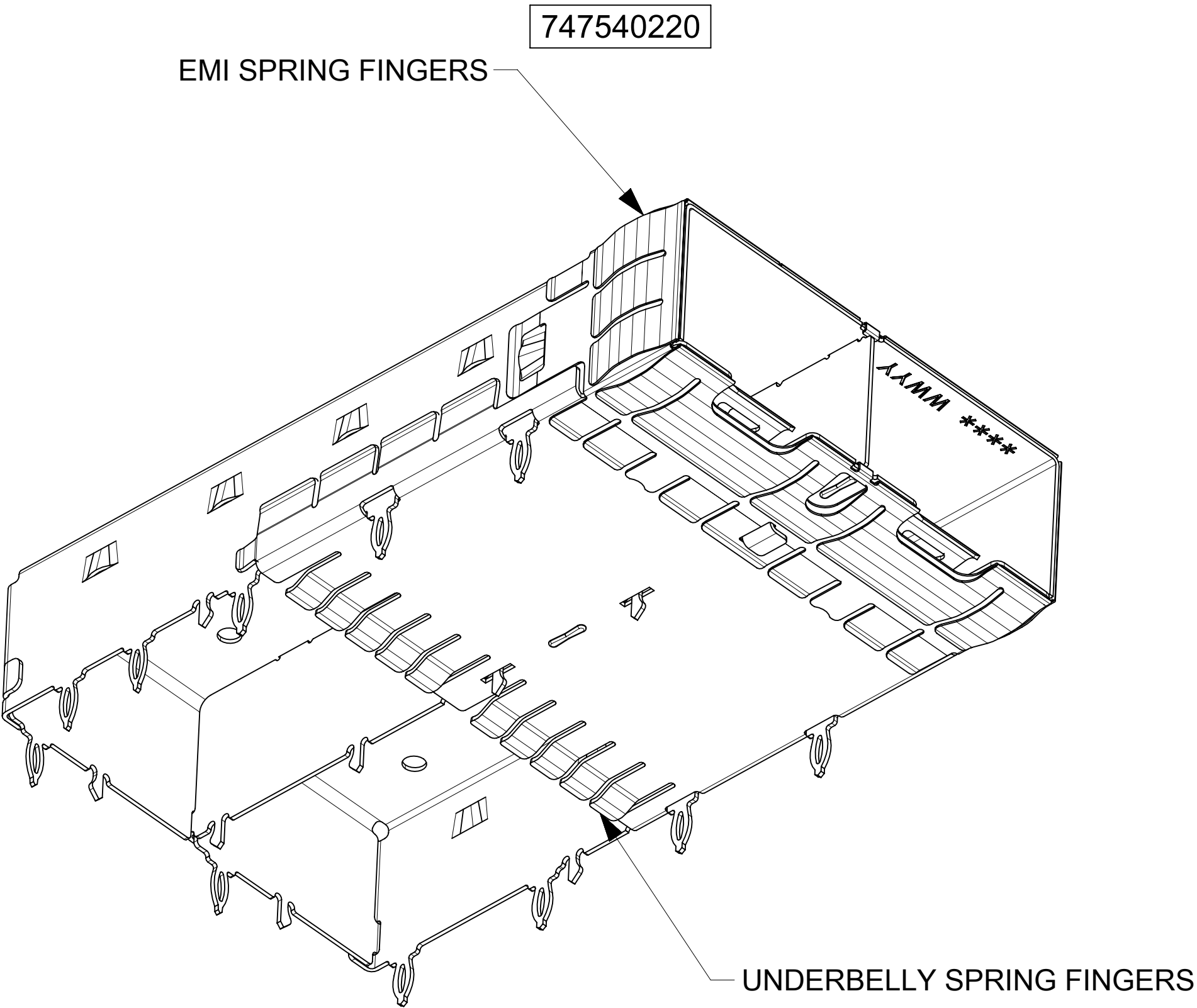
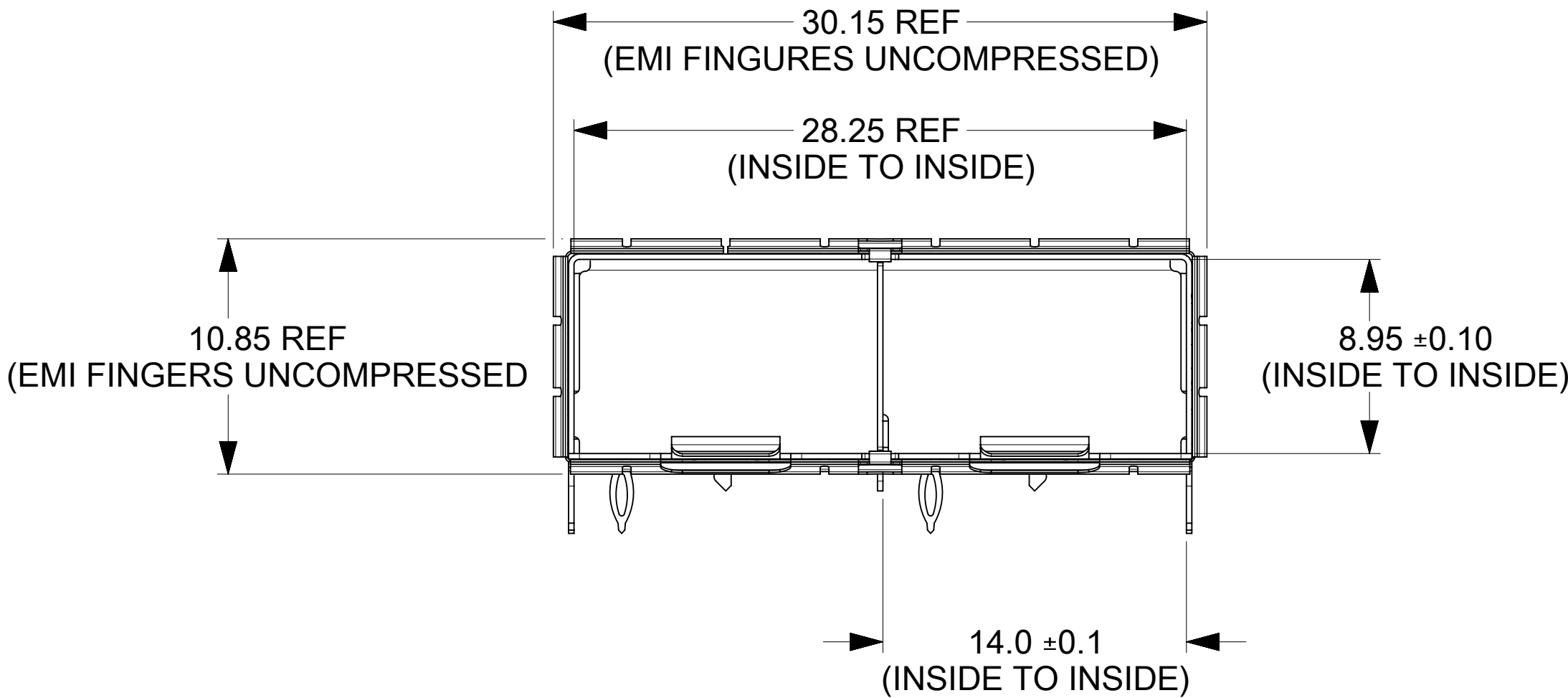
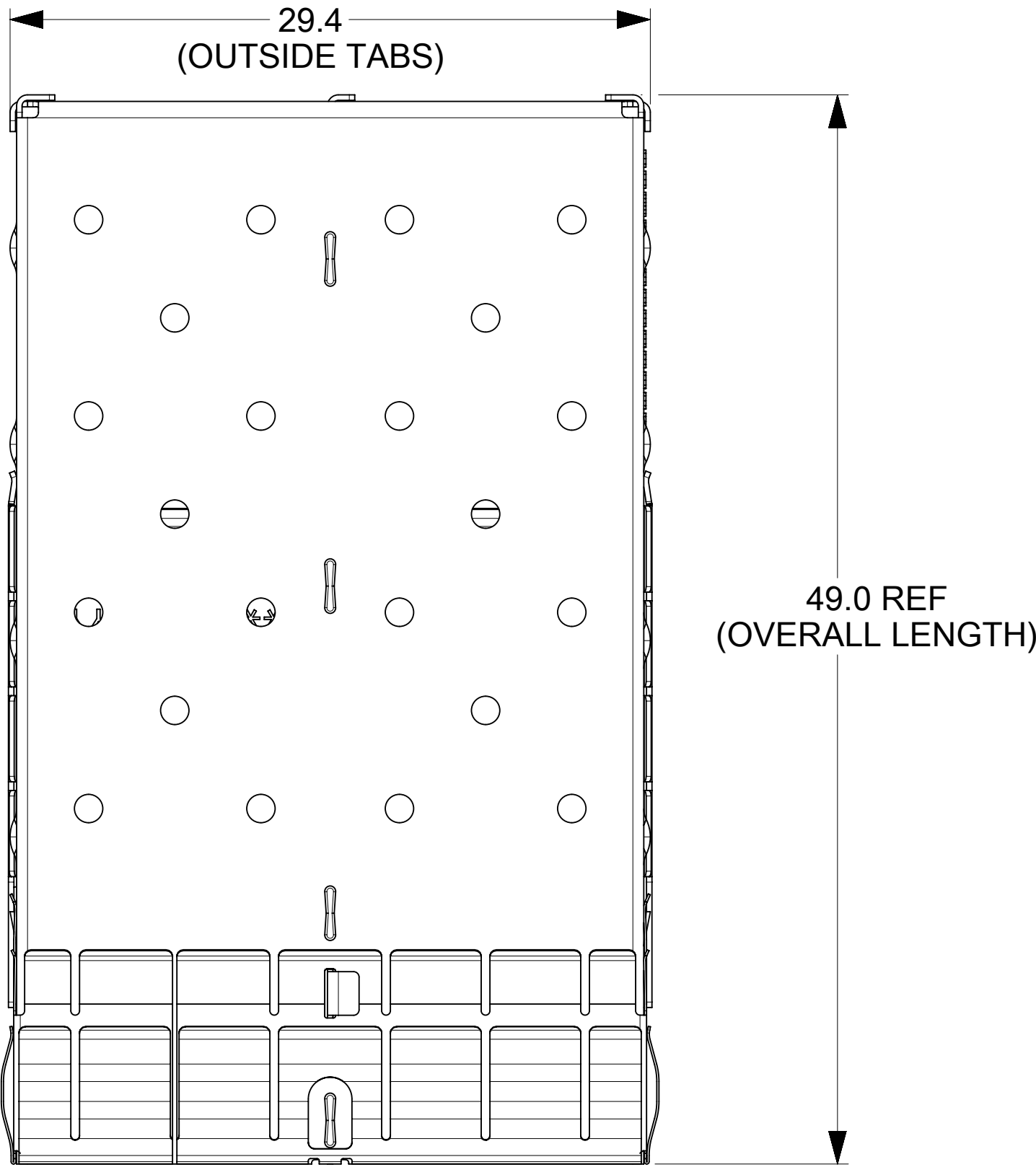
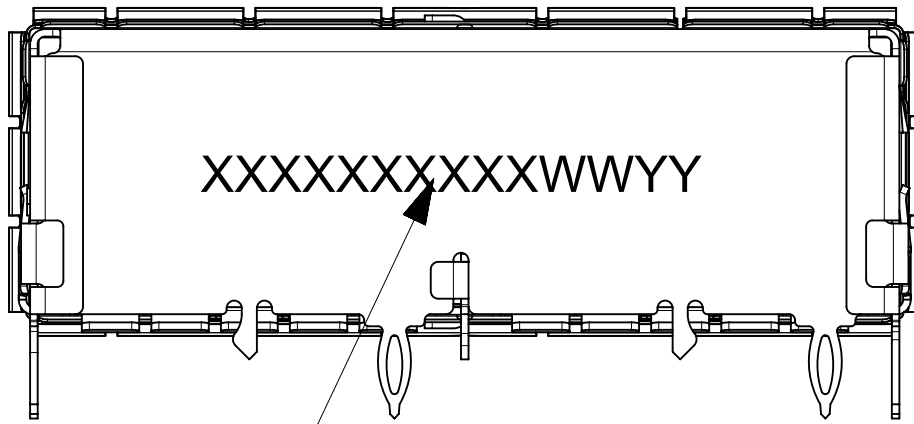


MM 3D-MODEL: TM-111112-2220



PN/DATE CODE TO BE PRINTED IN
APPROXIMATE AREA AS SHOWN.
FOR 111112 SERIES CAGE

PN/DATE CODE TO BE PRINTED ON THE BACK OF
COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
FOR 74754 AND 100113 SERIES CAGE
(747540247 NO NEED PRINTED)



NOTES:

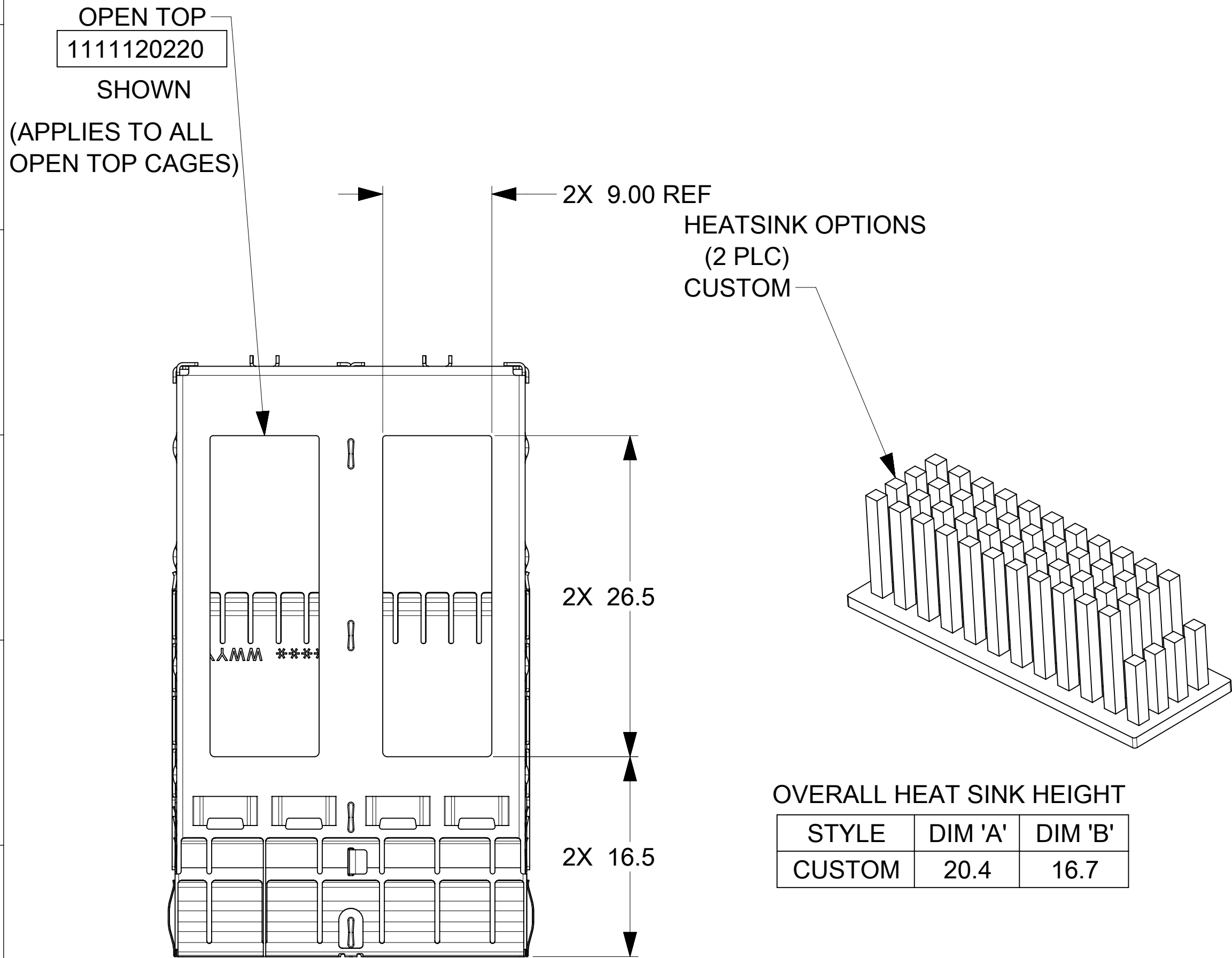
- MATERIAL:
CAGE: 0.25mm THICK COPPER ALLOY, NICKEL PLATED.
SPRING FINGERS: 0.10mm THICK COPPER ALLOY, NICKEL PLATED.
HEATSINK: ALUMINUM, NICKEL PLATED.
HEATSINK SPRING CLIP: STAINLESS STEEL.
- PRESS FIT LEGS 3.05mm [.120 INCH] LONG
- PORTS ARE DESIGNED FOR SFP+ TRANSCEIVERS AND ARE COMPATIBLE WITH SFP TRANSCEIVERS.
THE TOP SURFACE OF THE MODULE MUST BE FLAT (NO PRODUCT LABEL RECESS) AND THERMALLY CONDUCTIVE TO FUNCTION OPTIMALLY.
- WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION.
- NO ROHS EXEMPTIONS.
- CUSTOM HEATSINKS AVAILABLE UPON REQUEST.

WEEK/YEAR DATE CODE TABLE		
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR	
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13	

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 SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
mm		4:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
	MM	INCH										
4 PLACES	±		±	EC NO: 680890 DRWN: SANTHN 2021/06/24 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25				PRODUCT CUSTOMER DRAWING				
3 PLACES	±		±									
2 PLACES	±	0.13	±									
1 PLACE	±	0.25	±	INITIAL REVISION: DRWN: JERWIN 2013/11/21 APPR:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES	±		±					SD-111112-2220		PSD	001	J
ANGULAR TOL ± °												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						D-SIZE	111112	SEE SHEET 4		GENERAL MARKET		1 OF 8

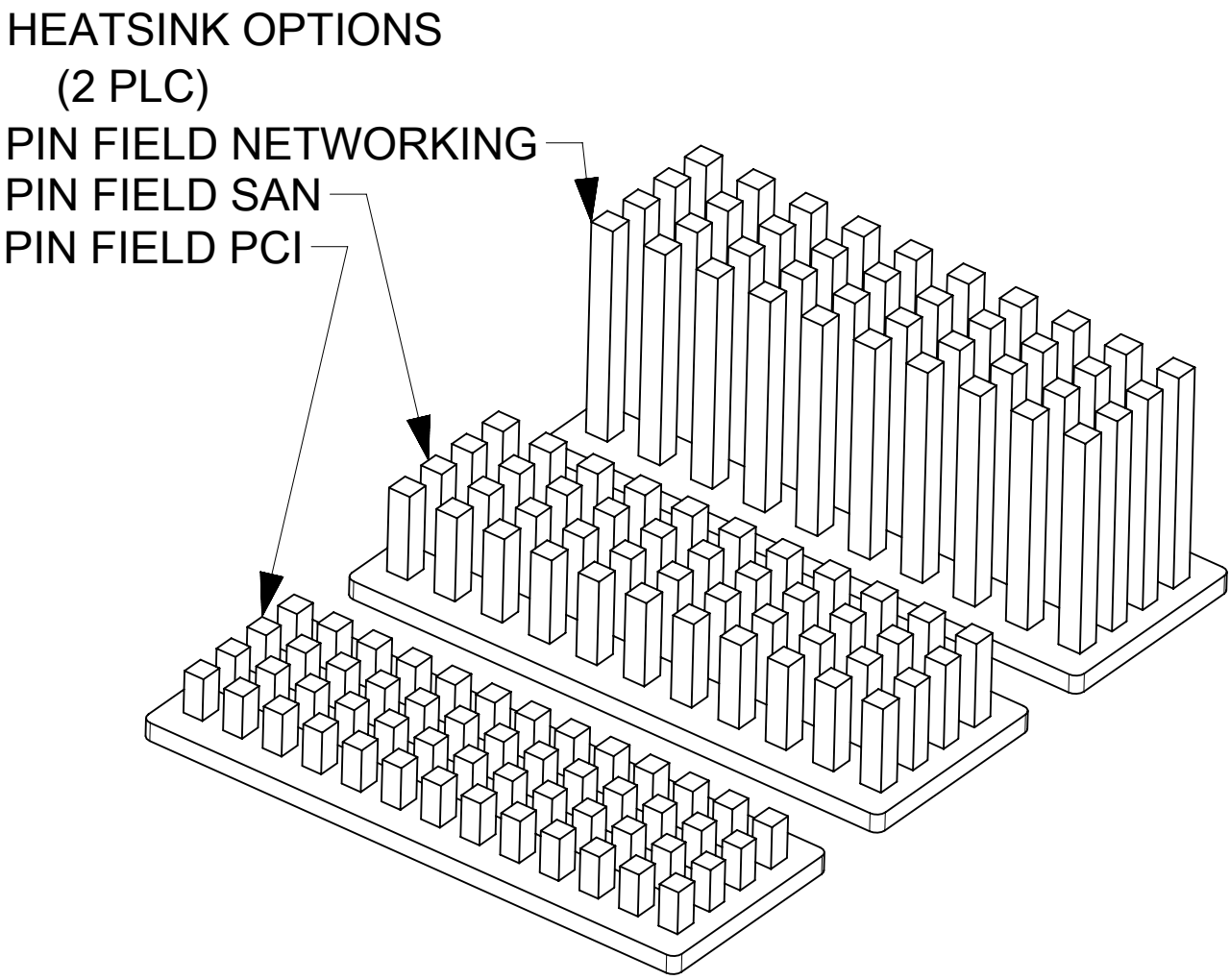
DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:18
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CAGE ASSEMBLY OPTIONS



OVERALL HEAT SINK HEIGHT

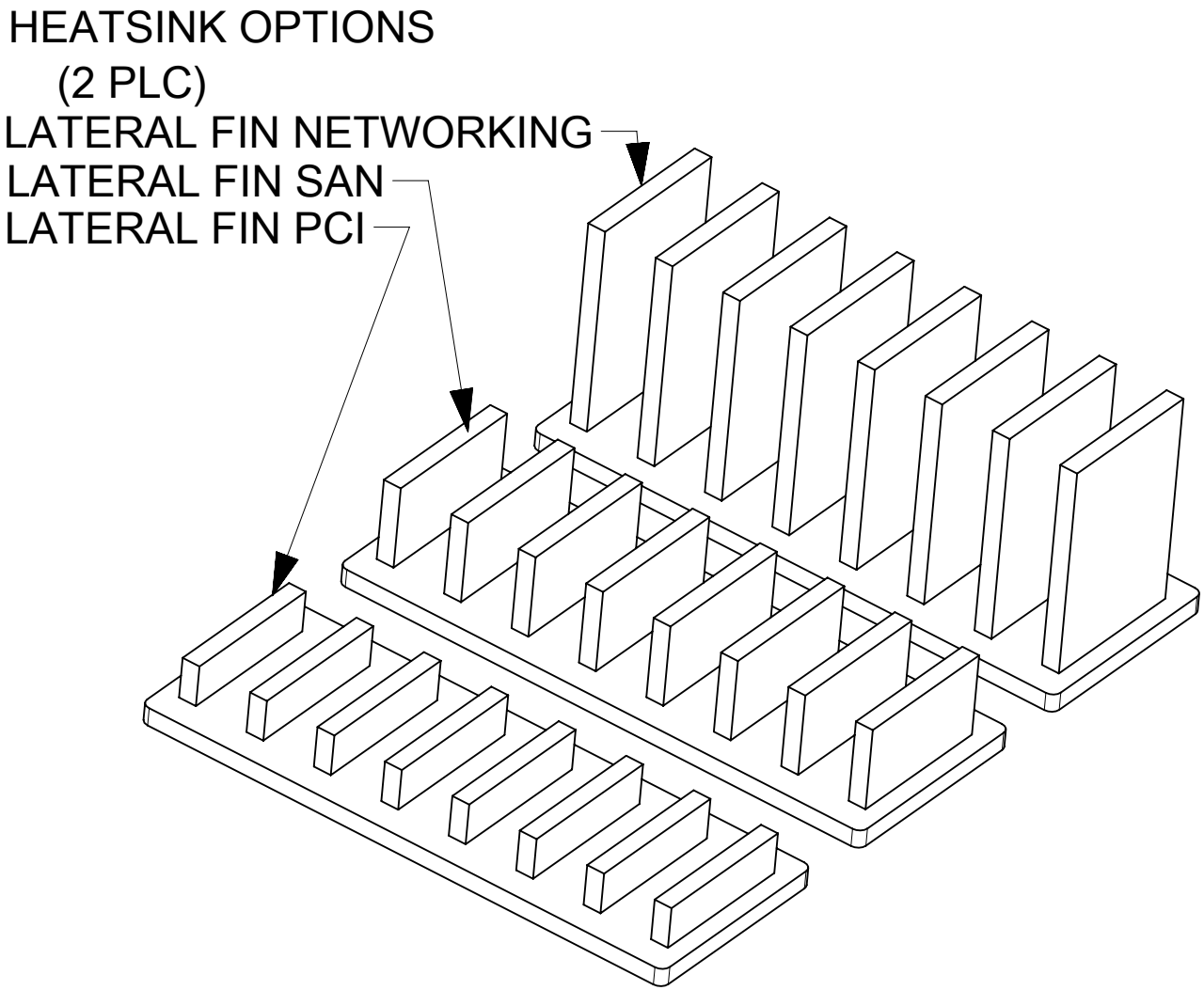
STYLE	DIM 'A'	DIM 'B'
CUSTOM	20.4	16.7



OVERALL HEATSINK HEIGHT

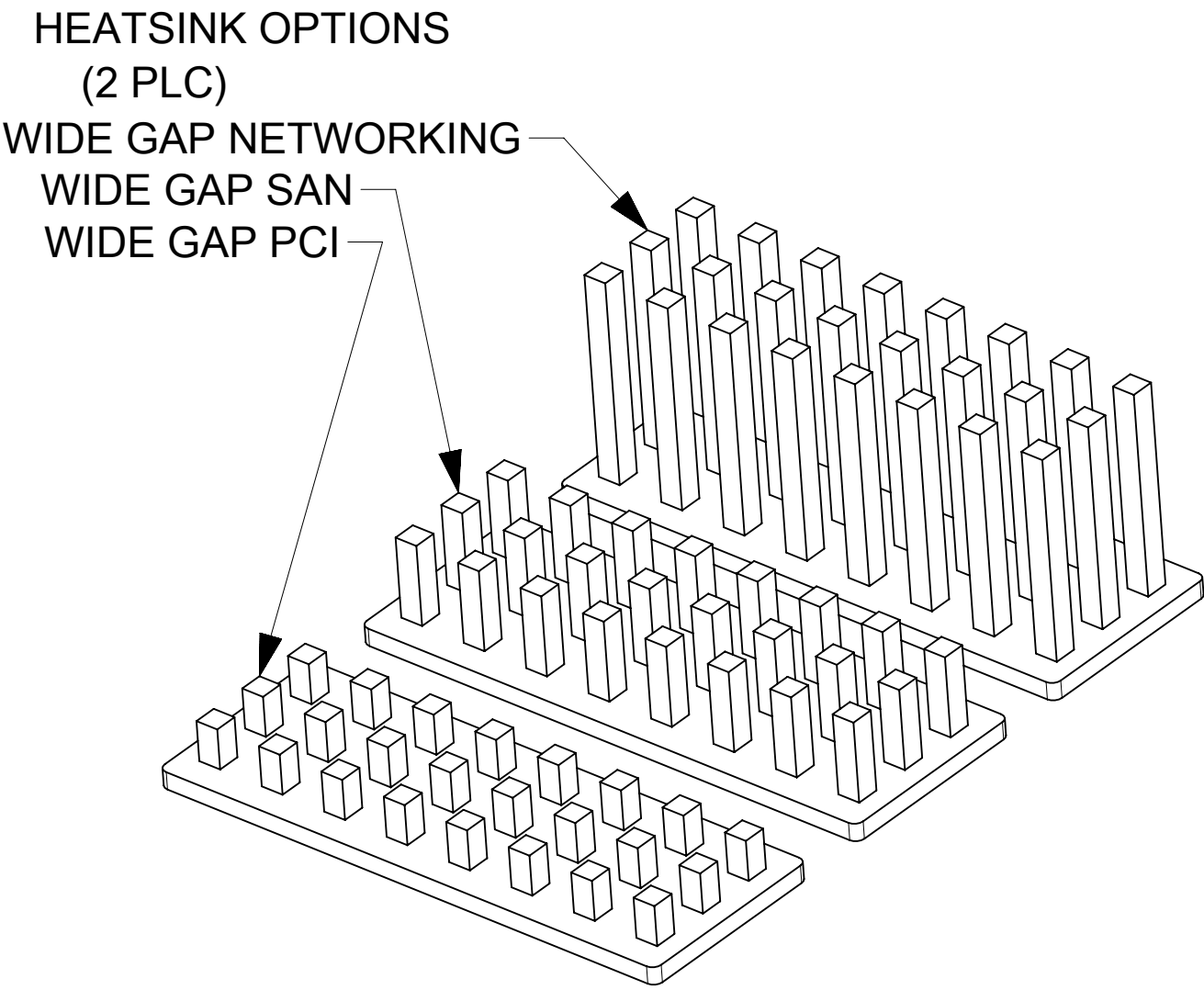
APPLICATION	STYLE	DIM 'A'
PCI	PIN FIELD	14.3
SAN	PIN FIELD	16.6
NETWORKING	PIN FIELD	23.6

NOTE: PCI- 13 ROWS
SAN- 11 ROWS
NETWORKING- 10 ROWS



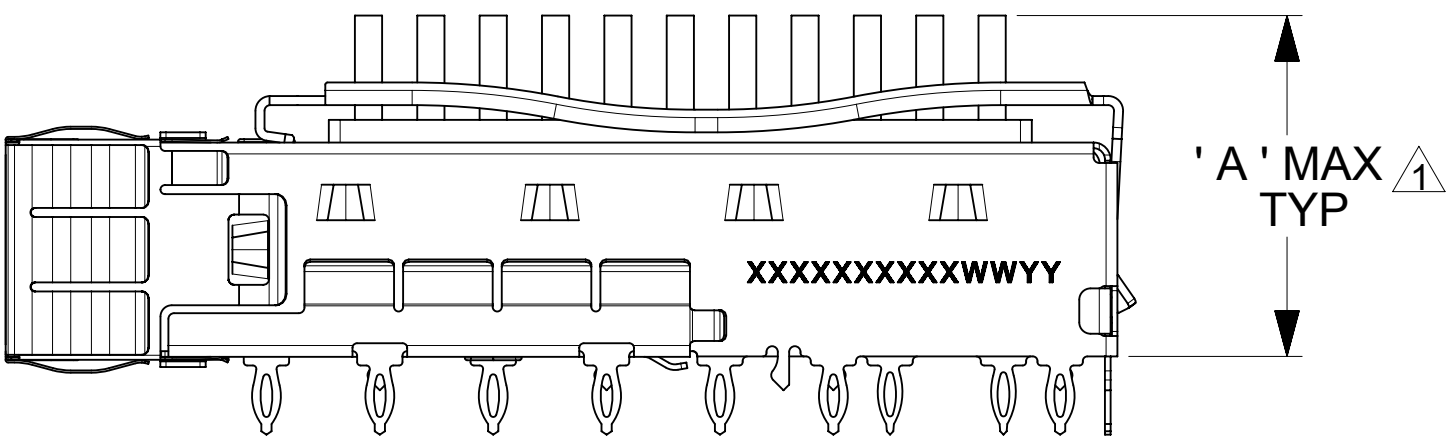
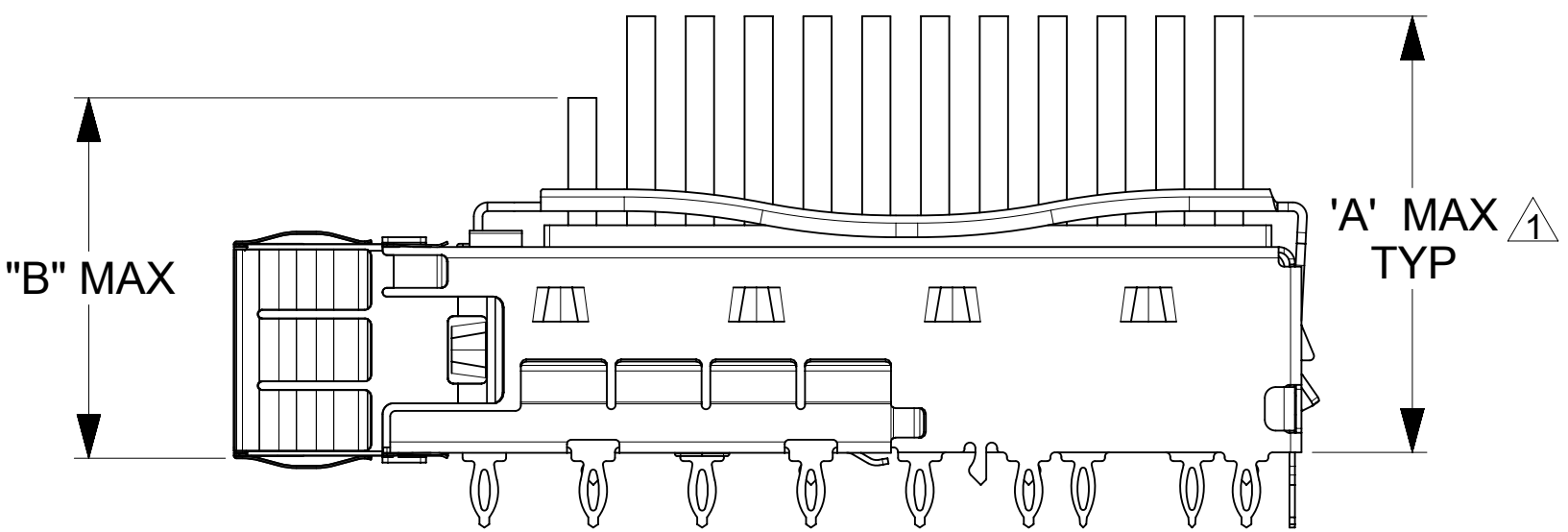
OVERALL HEATSINK HEIGHT

APLICATION	STYLE	DIM 'A'
PCI	LATERIAL FIELD	14.3
SAN	LATERIAL FIELD	16.6
NETWORKING	LATERIAL FIELD	23.6



OVERALL HEATSINK HEIGHT

APPLICATION	TYLE	DIM 'A'
PCI	WIDE GAP PIN	14.3
SAN	WIDE GAP PIN	16.6
NETWORKING	WIDE GAP PIN	23.6

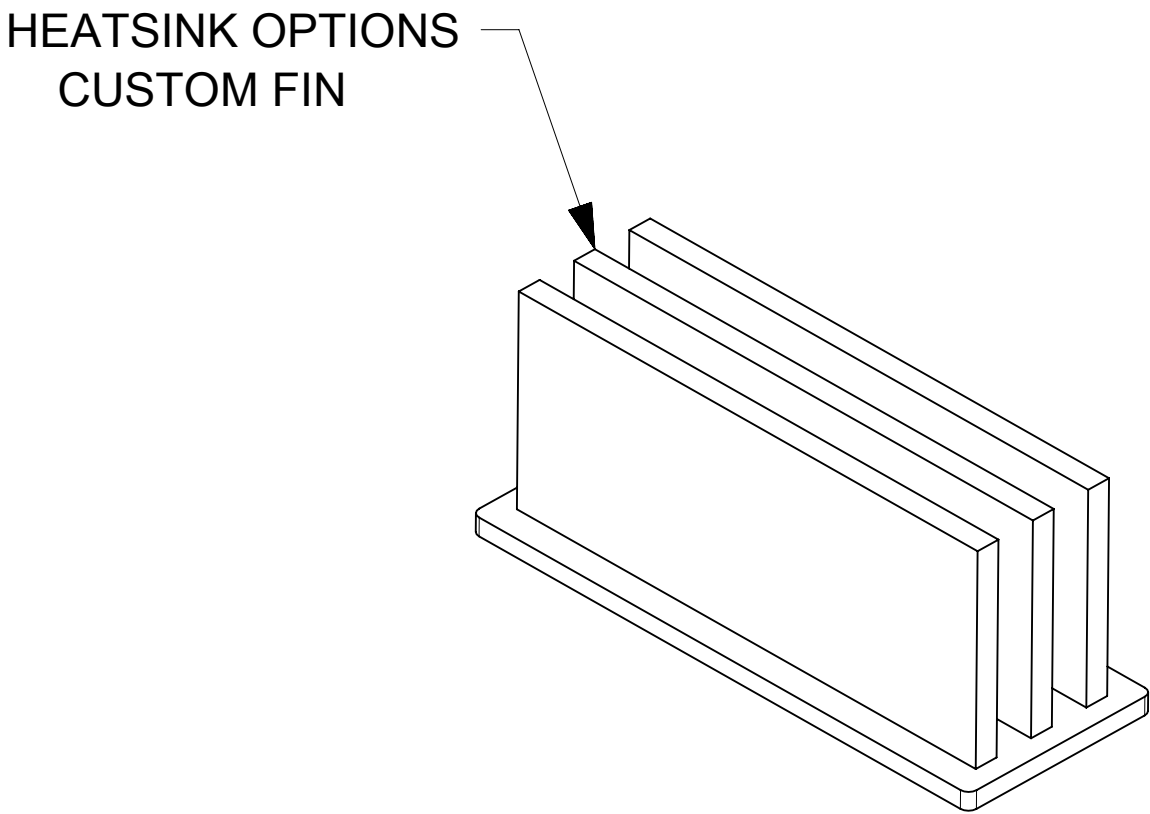
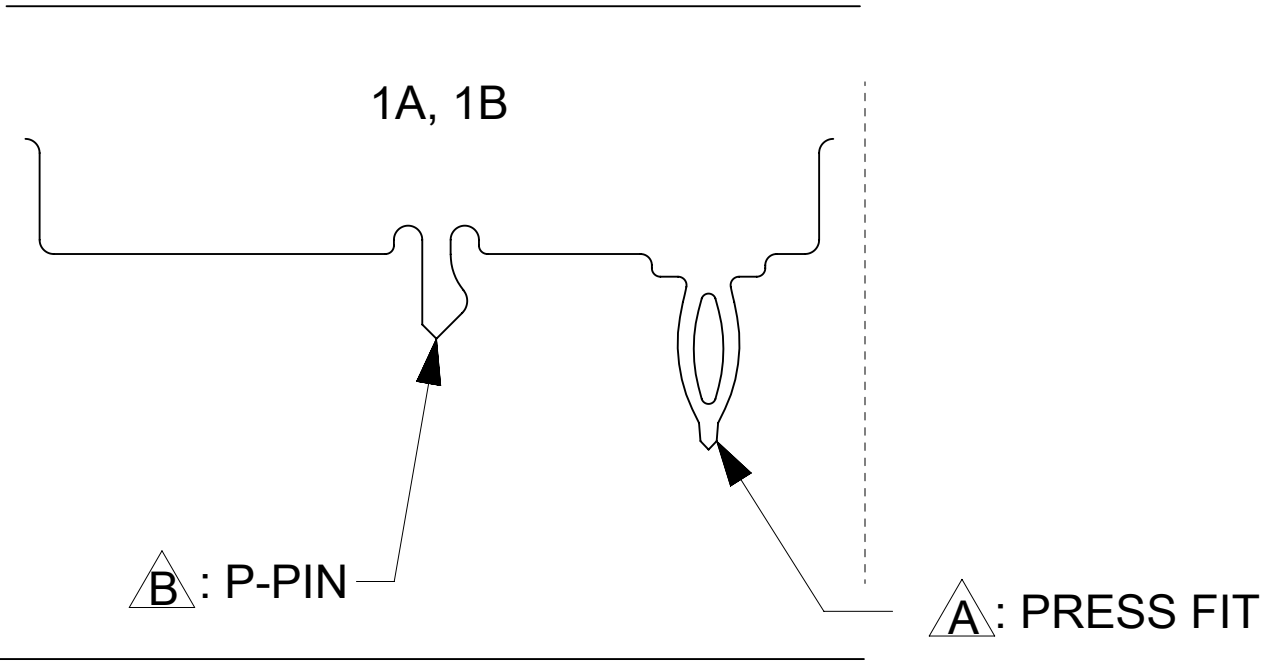


WEEK/YEAR DATE CODE TABLE

WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

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

REAR LEG OPTIONS
(PER REPORT)



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

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	3:1						
GENERAL TOLERANCES (UNLESS SPECIFIED)							
	MM		INCH				
4 PLACES	±		±				
3 PLACES	±	±					
2 PLACES	±	0.13	±				
1 PLACE	±	0.25	±				
0 PLACES	±		±				
ANGULAR TOL		±	°				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			D-SIZE	111112			

molex

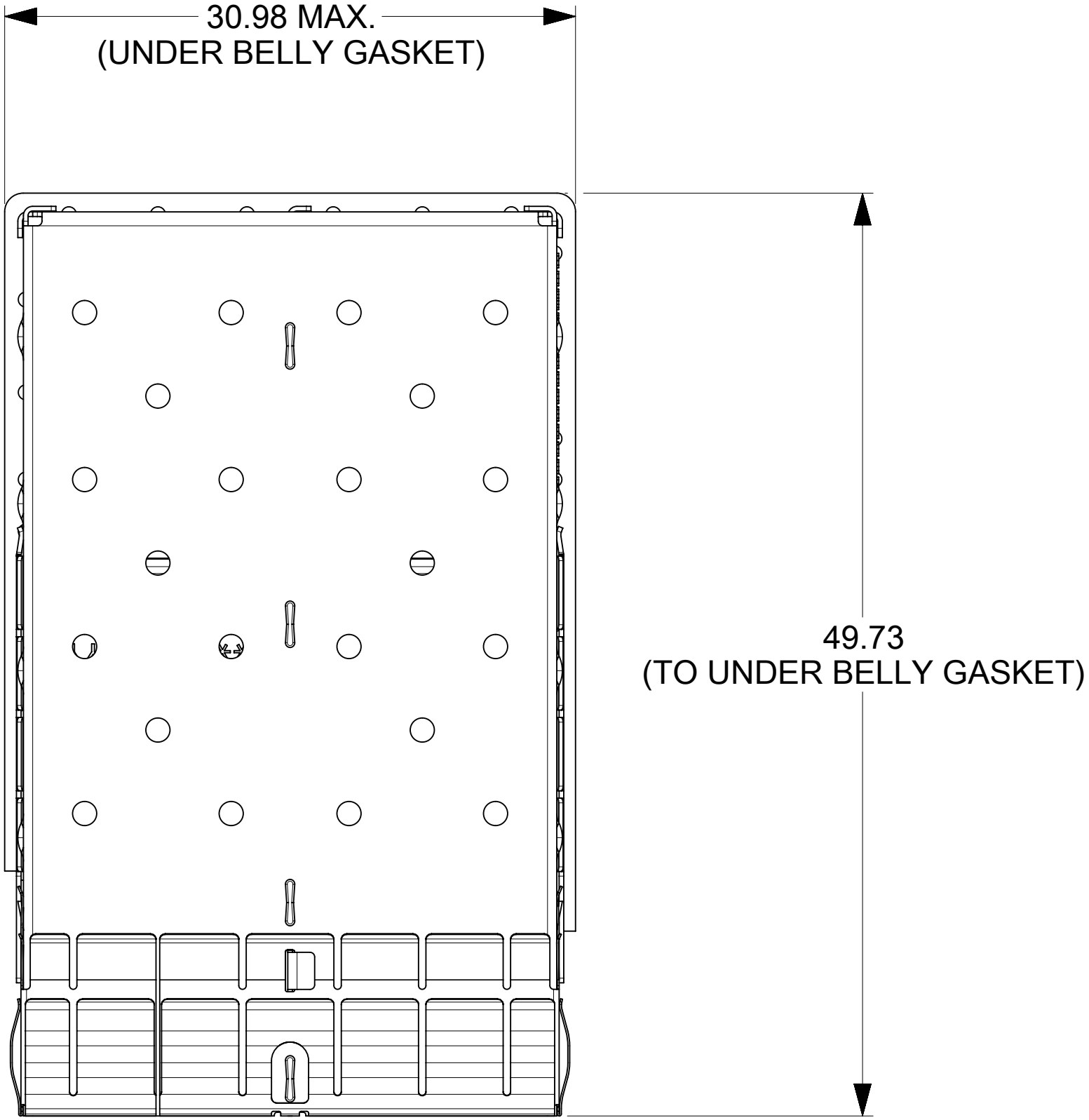
SFP+ 1X2 CAGE, .120 INCH
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-111112-2220	PSD	001	J

SEE SHEET 4	GENERAL MARKET	2 OF 8
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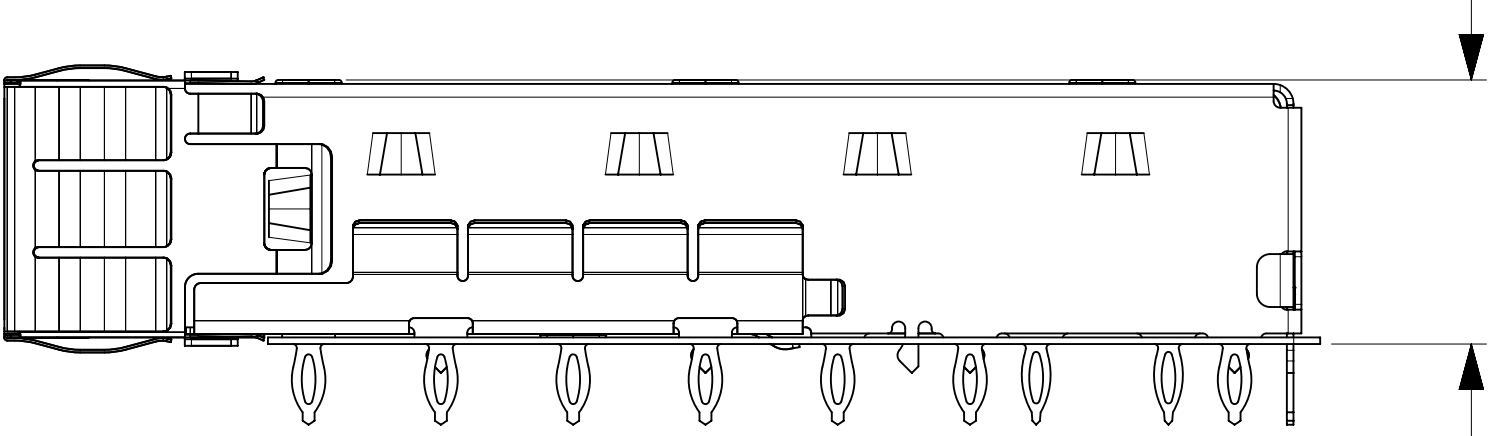
DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:18
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OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

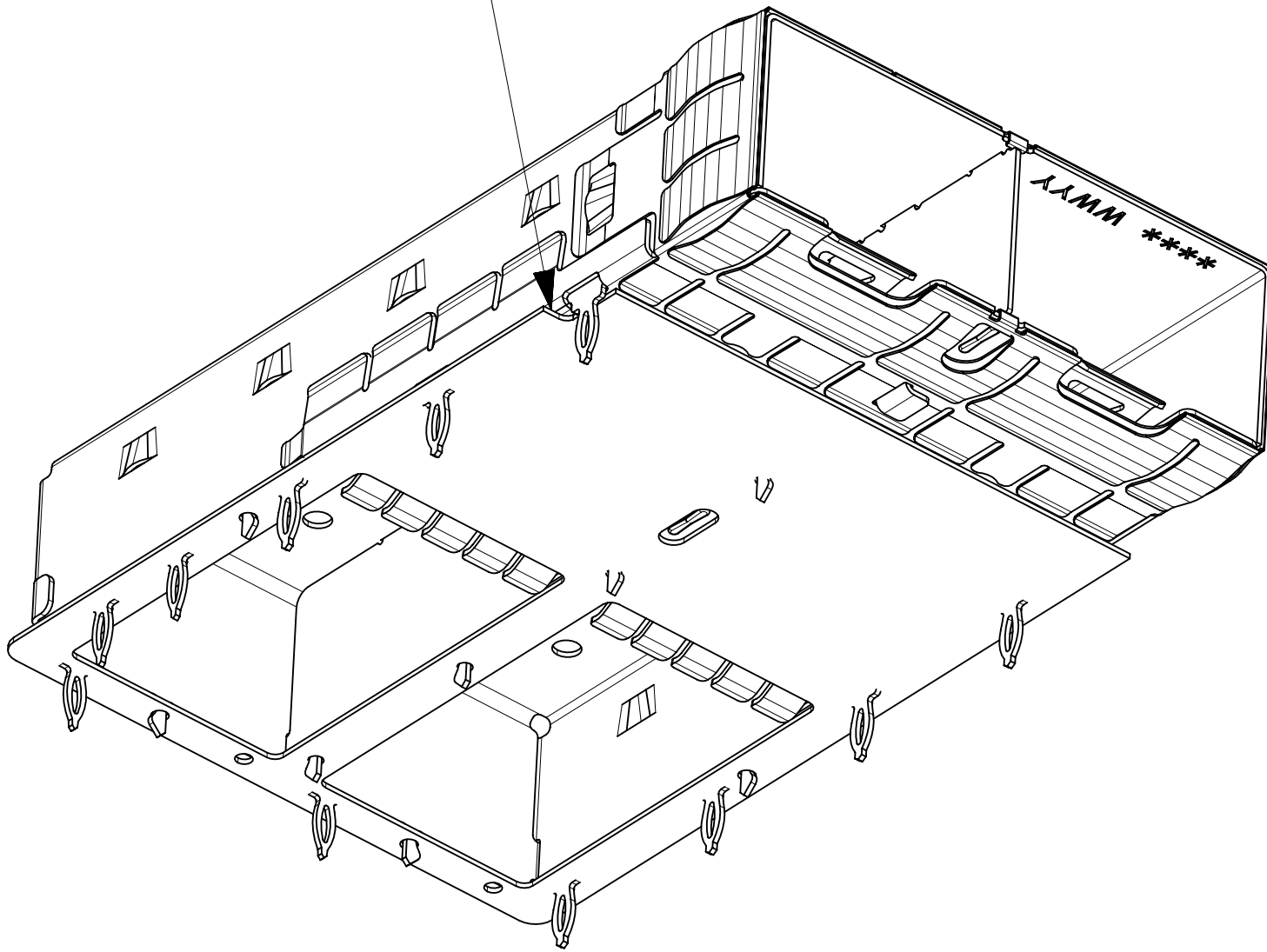
1001130220

SHOWN



9.98 REF
TOP OF COIN TO
PCB PAD SURFACE
(WHEN PRESSED INTO BOARD)

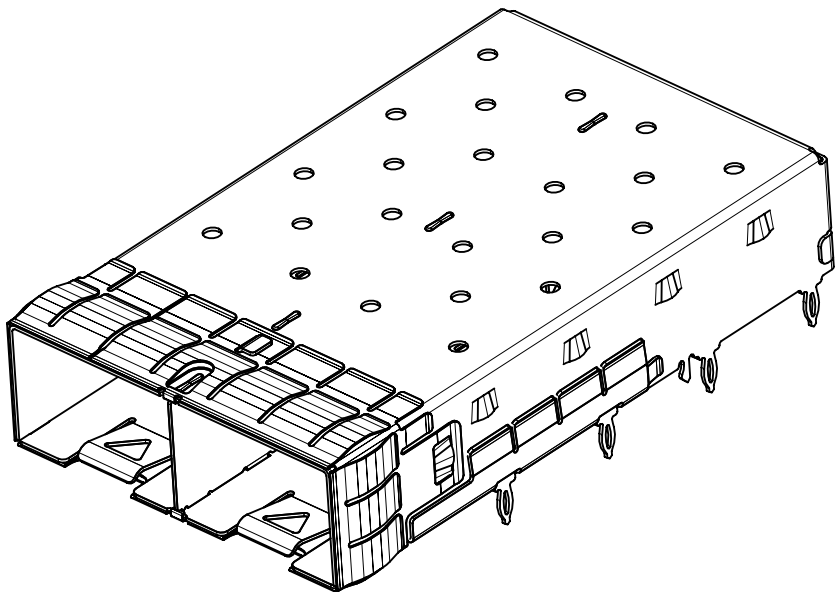
NOTCH IN GASKET
FOR ORIENTATION



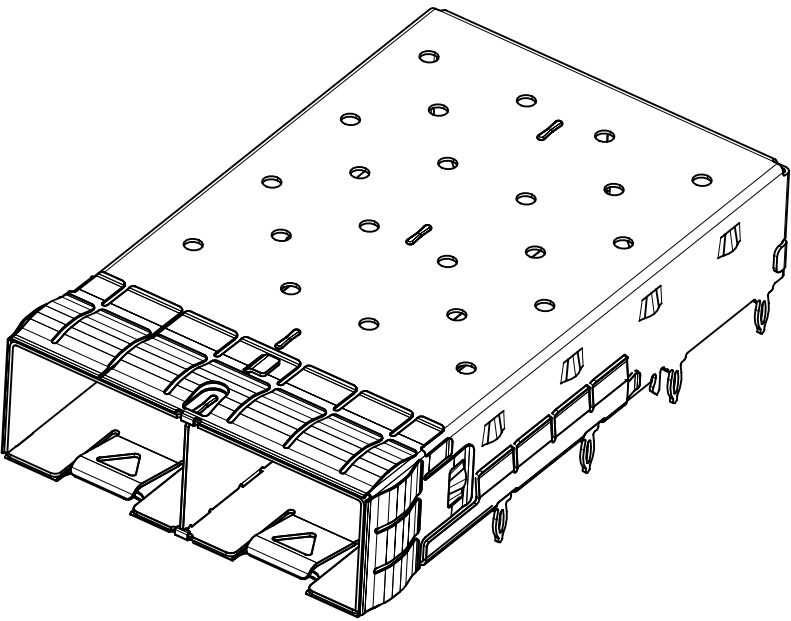
NOTE:
1. UNDER BELLY GASKET IS UL94 V-0 RATED

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		3.5:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890 DRWN: SANTHN 2021/06/24 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25				SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
	MM	INCH	PRODUCT CUSTOMER DRAWING									
4 PLACES	±	±										
3 PLACES	±	±										
2 PLACES	±	0.13	±	INITIAL REVISION: DRWN: JERWIN 2013/11/21 APPR:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
1 PLACE	±	0.25	±					SD-111112-2220		PSD	001	J
0 PLACES	±		±					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
ANGULAR TOL ± °				THIRD ANGLE PROJECTION		DRAWING	SERIES	SEE SHEET 4		GENERAL MARKET		3 OF 8
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						D-SIZE	111112					

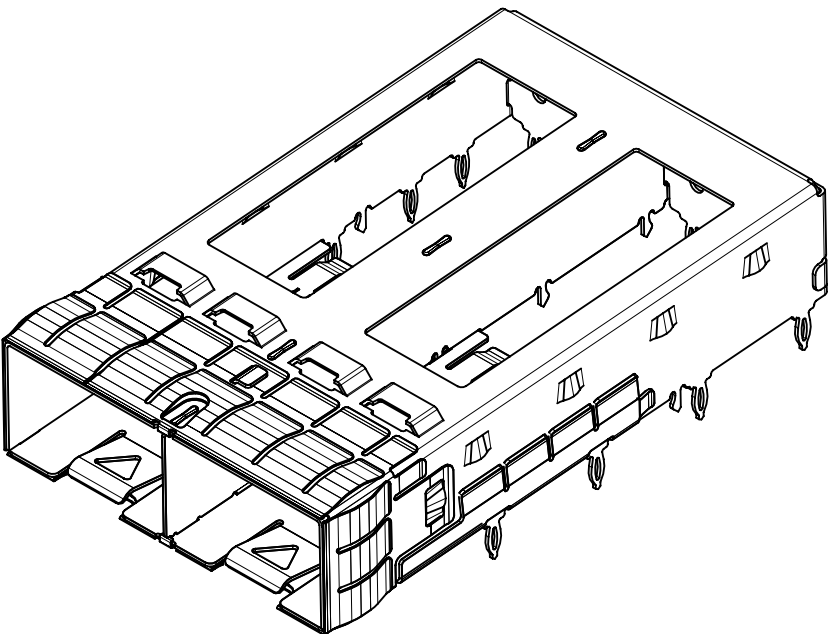
PART NUMBER SELECTION



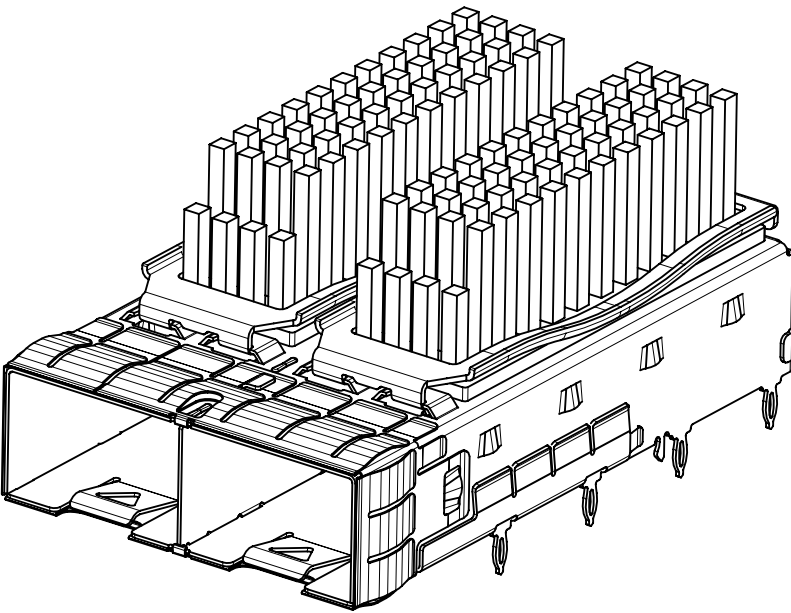
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



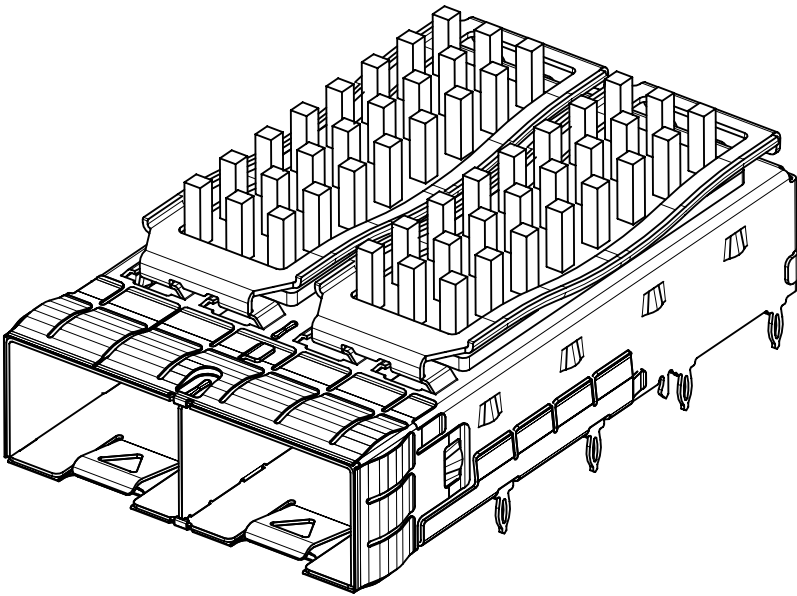
zSFP+ GEN 2 CLOSED TOP	
PART NO.	1001130220



SFP+ OPEN TOP BASE CAGE FOR HEATSINK	
PART NO.	1111120220



SFP+ CUSTOM HEATSINK OPTION	
PART NO.	1111120226



SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111127220	PCI

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

DIMENSION UNITS

mm

SCALE

2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.13	±
1 PLACE	± 0.25	±
0 PLACES	±	±
ANGULAR TOL	± °	

DRAFT WHERE APPLICABLE

MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.

EC NO: 680890

DRWN: SANTHN

CHK'D: GGA

APPR: GGA

INITIAL REVISION:

DRWN: JERWIN

APPR:

THIRD ANGLE PROJECTION

2021/06/24

2021/11/25

2021/11/25

2013/11/21

DRAWING

D-SIZE

SERIES

111112

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-111112-2220	PSD	001	J

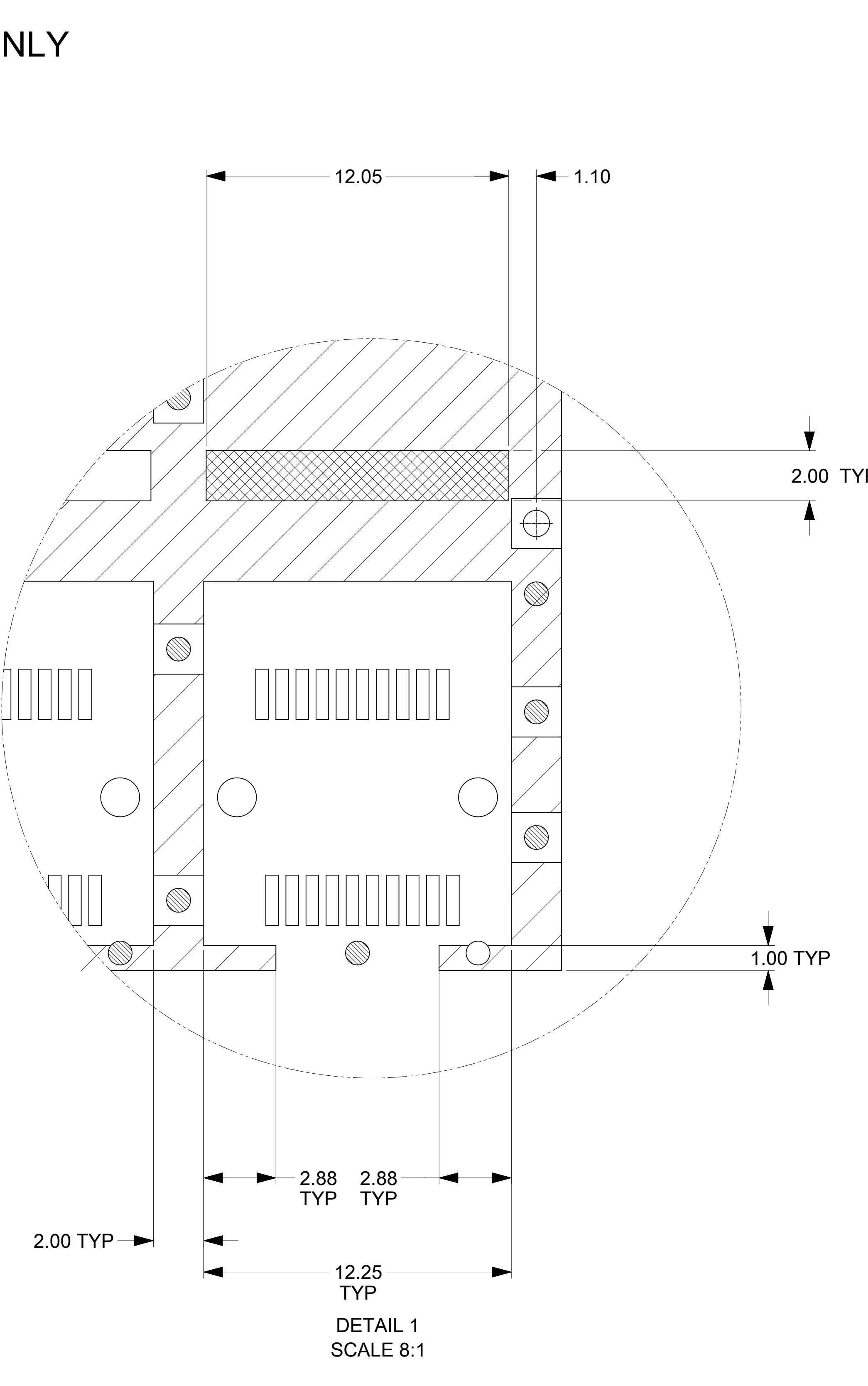
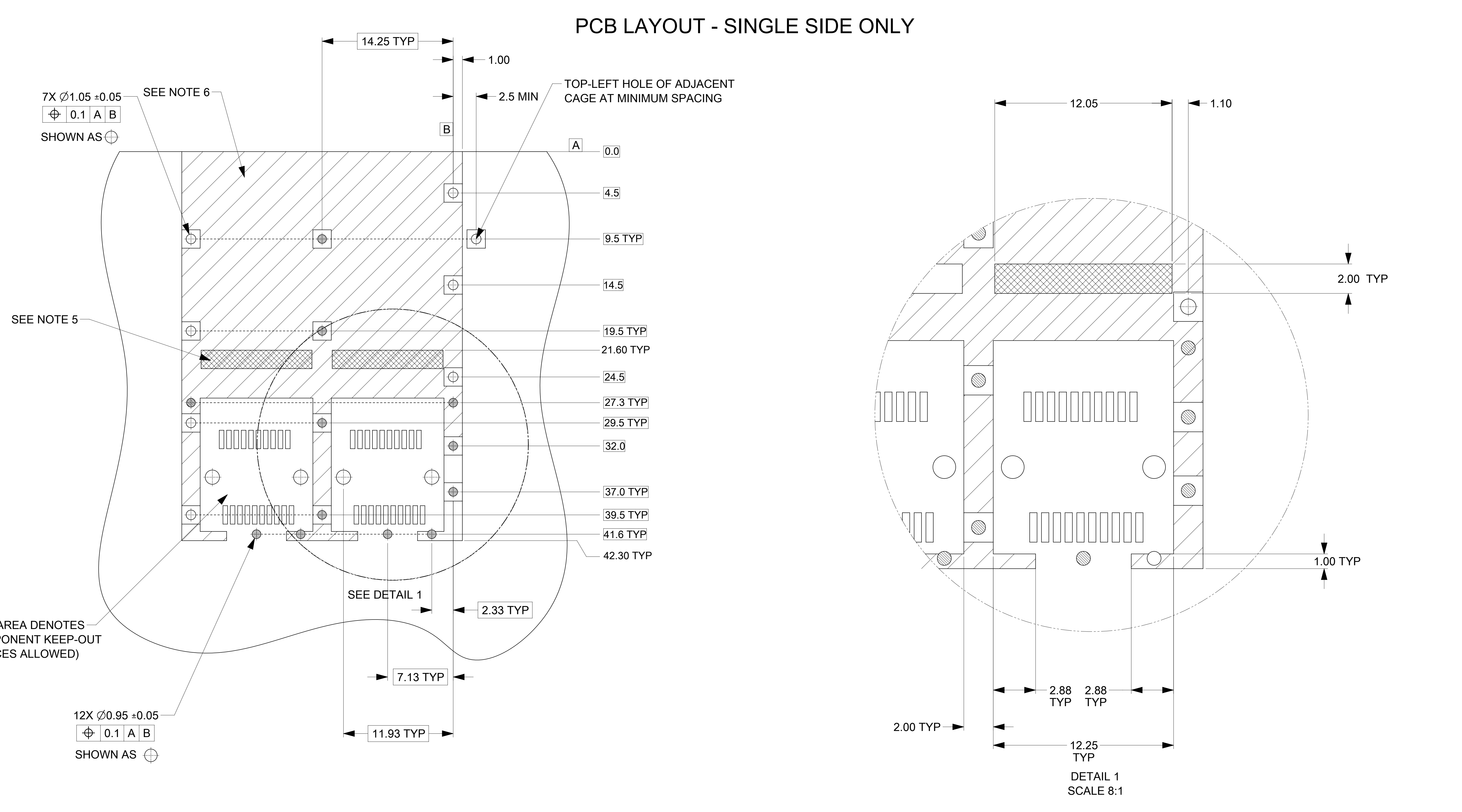
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 4	GENERAL MARKET	4 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:18
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molex

SFP+ 1X2 CAGE, .120 INCH
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

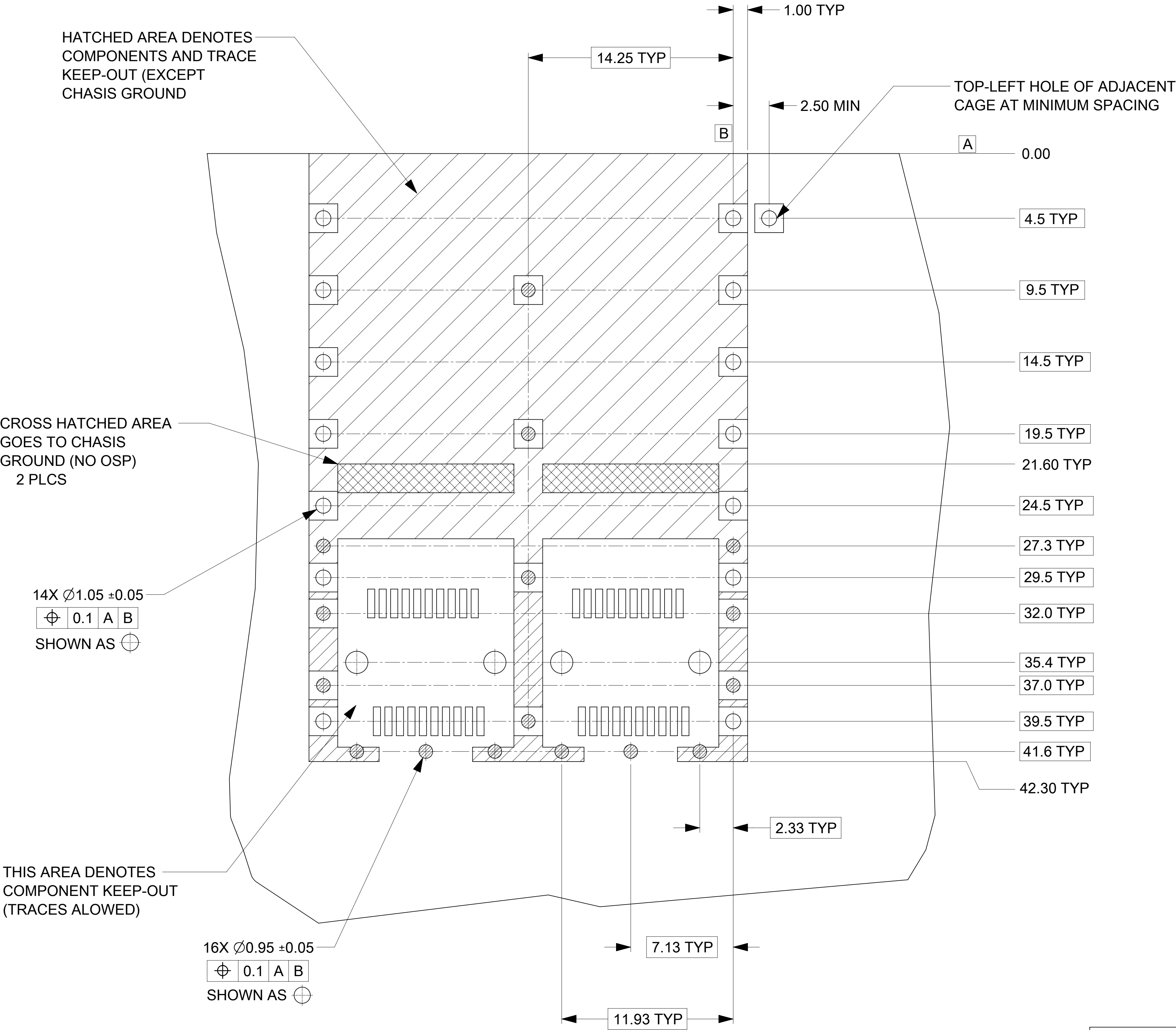
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
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1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS 14.25mm
5. CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
6. HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
7. 1.57mm [.062 INCH] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

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 SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
mm		5:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890 DRWN: SANTHN 2021/06/24 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25		PRODUCT CUSTOMER DRAWING				
	MM		INCH							
4 PLACES	±	±								
3 PLACES	±	±								
2 PLACES	±	0.13	±							
1 PLACE	±	0.25	±	INITIAL REVISION: DRWN: JERWIN 2013/11/21 APPR:		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES	±	±				SD-111112-2220		PSD	001	J
ANGULAR TOL		±	°							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING D-SIZE	SERIES 111112	MATERIAL NUMBER SEE SHEET 4	CUSTOMER GENERAL MARKET	SHEET NUMBER 5 OF 8

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



- NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 4. SPACING BETWEEN PORTS IS 14.25mm.
 5. 3.00mm [.118 INCH] MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.

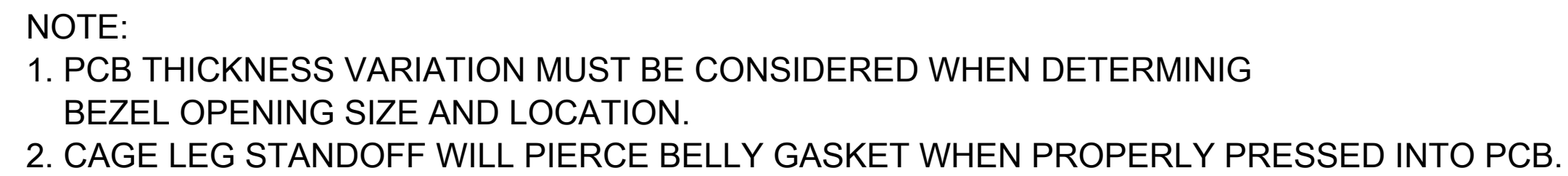
THIS DRAWING CONTAINS IMPORTANT INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.				molex				
mm		6:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)								SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
	MM		INCH		EC NO: 680890 DRWN: SANTHN 2021/06/24 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25 PRODUCT CUSTOMER DRAWING							
4 PLACES	±		±									
3 PLACES	±		±									
2 PLACES	±	0.13	±									
1 PLACE	±	0.25	±									
0 PLACES	±		±	INITIAL REVISION: DRWN: JERWIN 2013/11/21 APPR:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
ANGULAR TOL ± °								SD-111112-2220		PSD	001	J
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER	
 				D-SIZE		111112	SEE SHEET 4	GENERAL MARKET		6 OF 8		

NOTE:
SEE SHEET 5 FOR HOST
CONNECTOR DETAIL

DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:18
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Technical drawing of a rectangular plate with the following dimensions and features:

- Overall width: 29.70 ± 0.10
- Overall height: 10.40 ± 0.10
- Notch on the left side with a depth of 1.30 MIN .



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DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.				molex				
mm		5:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)								SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
	MM	INCH										
4 PLACES		±	±	EC NO: 680890 DRWN: SANTHN 2021/06/24 CHK'D: GGA 2021/11/25 APPR: GGA 2021/11/25				PRODUCT CUSTOMER DRAWING				
3 PLACES		±	±									
2 PLACES		± 0.13	±									
1 PLACE		± 0.25	±	INITIAL REVISION: DRWN: JERWIN 2013/11/21 APPR:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		±	±					SD-11112-2220		PSD	001	J
ANGULAR TOL ± °				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		D-SIZE				111112	SEE SHEET 4	GENERAL MARKET	7 OF 8			

DATE	REV	DESCRIPTION
2011/06/10	A	INITIAL RELEASE
2011/06/15	A1	SHEET 1: REMOVED HEATSINK OPENING REFERENCE DIMENSIONS AND WEEK 52 REFERENCE; SHEET 4: ADDED NOTES POINTING TO THE INNER WALL COINED OVER THE COVER.
2011/07/22	B	ADDED HOLES IN CAGE FOR LIGHTPIPES; MOVED DATE CODE; REVISED ROHS NOTE 5; CHANGED HEATSINK HEIGHT FROM 8.63 TO 6.5; TABULARIZED PCI, SAN, AND NETWORKING; AND ADDED HEATSINK HEIGHT WITH MODULE INSERTED.
2011/08/19	B1	UPDATED CAGE AND SPRING CLIP MODELS.
2012/10/25	C	SHEET 1: REMOVED HEATSINKS, AND ALL DIMS AND ANNOTATIONS RELATING TO THEM, FROM ALL VIEWS; REMOVED NOTE 6; REMOVED EXPLODED VIEW; REMOVED PART NUMBER TABLE; ADDED TITLE. NEW SHEET 2: ISO VIEWS OF CAGE WITH NO HEATSINKS AND VIEWS WITH EACH OF FOUR TYPES AND SIZES OF HEATSINK; ANNOTATIONS ON EACH VIEW INDICATIING EACH HEATSINK TYPE AND SIZE; RIGHT SIDE VIEW WITH DIM OF HEATSINK HEIGHT; TABLE UNDER EACH VIEW WITH HEATSINK SIZES AND DIMS; NOTE 1; SHEET TITLE. NEW SHEET 3: ISO VIEWS OF CAGE WITH NO HEATSINKS AND VIEWS WITH EACH OF FOUR DIFFERENT TYPES OF HEATSINK; TABLES UNDER EACH VIEW WITH PART NUMBERS OF EACH SIZE; SHEET TITLE.
2014/02/07	D	SHEET 1: REVISED ALL BASE CAGE DETAILS AND VIEWS FROM 111112-0232 TO 74754-0220. REMOVED INSERTION FORCE INTO PCB FROM NOTE 2. REVISED NOTE 4: "WAS" WELD SPOT WILL SHOW SLIGHT MATERIAL DISCOLORATION. "NOW READS" WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION. SHEET 2: REVISED ALL HEAT SINK CAGE ASSEMBLY OPTIONS, ADDED OPEN TOP VIEW WITH DIMENSIONS, AND REAR LEG OPTION VIEW. ADDED SHEET 3 WITH ZSFP+ OPTIONS SHEET 4: ADDED PART NUMBERS 747540220, 1001130220. UPDATED TITLE BLOCK.
2014/08/13	E	SHEET 1: ADDED "REF" TO DIM 10.85 AND 28.25. ADDED 14.0 ±0.1. MOVED "MINIMUM PCB THICKNESS" NOTES FROM SHEET 1 TO SHEETS 5 AND 6.
2014/08/21	F	SHEET 1: ADDED 747540247 NO NEED PRINTED @C6. SHEET 1: ADDED P/N AND DATE CODE PRINTED NOTE @D11. SHEET 4: ADDED P/N 747540247 IN TABLE @I18.
2015/02/26	G	SHEET 3: ADDED NOTE 1 "UNDER BELLY GASKET IS UL94 V-0 RATED." SHEET 4: ADDED "5 WELD POINTS" INTO 747540220 @I17. SHEET 4: ADDED P/N 747540222 @I17. SHEET 7: ADDED NOTE 2 "CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB."
2015/08/26	H	SHEET 2: E3 : ADDED NEW CUSTOM FIN HEATSINK ISOVIEW SHEET 4: E3 : ADDED PART NO. 111112-6221 ISOVIEW MODIFIED PCB LAYOUT PER SFF-8433 SHEET 5: K19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 D17 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 SHEET 6: G19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 B18 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1
2021/06/24	J	OBSOLETED P/N ARE REMOVED 1111126221, 1111121220, 1111123220, 1111124220, 1111125220, 1111126220, 1111128220, 1111129220.

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DIMENSION UNITS

mm

SCALE

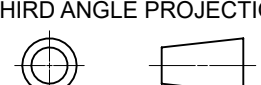
2:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.13	±
1 PLACE	± 0.25	±
0 PLACES	±	±
ANGULAR TOL	± °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION



CURRENT REV DESC: OBSOLETED PART NUMBER
AS PER PCN#509457.

EC NO: 680890

DRWN: SANTHN

CHK'D: GGA

APPR: GGA

2021/06/24

2021/11/25

2021/11/25

INITIAL REVISION:

DRWN: JERWIN

APPR:

2013/11/21

SD-111112-2220

SEE SHEET 4

PSD

001

J

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

PRODUCT CUSTOMER DRAWING

SD-111112-2220

SEE SHEET 4

PSD

001

J

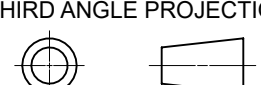
DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

THIRD ANGLE PROJECTION



DRAWING

D-SIZE

SERIES

111112

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

747540220

GENERAL MARKET

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DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25	12:19:18
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