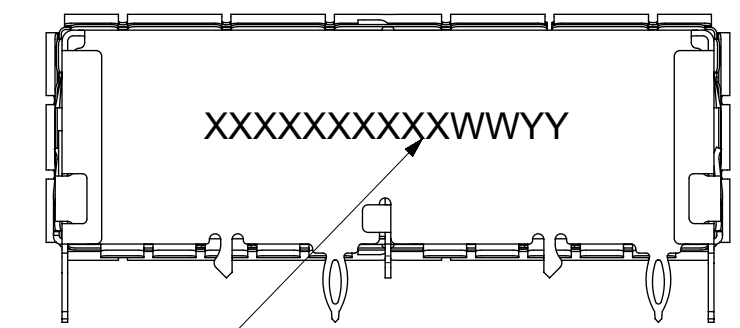
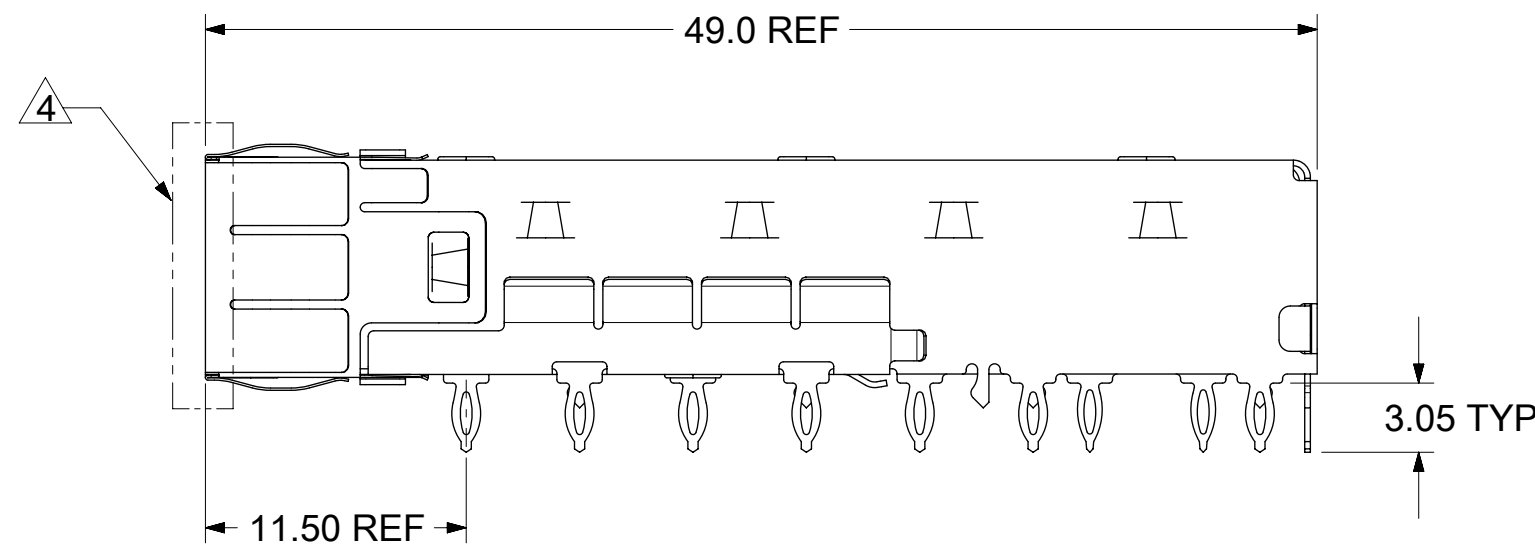
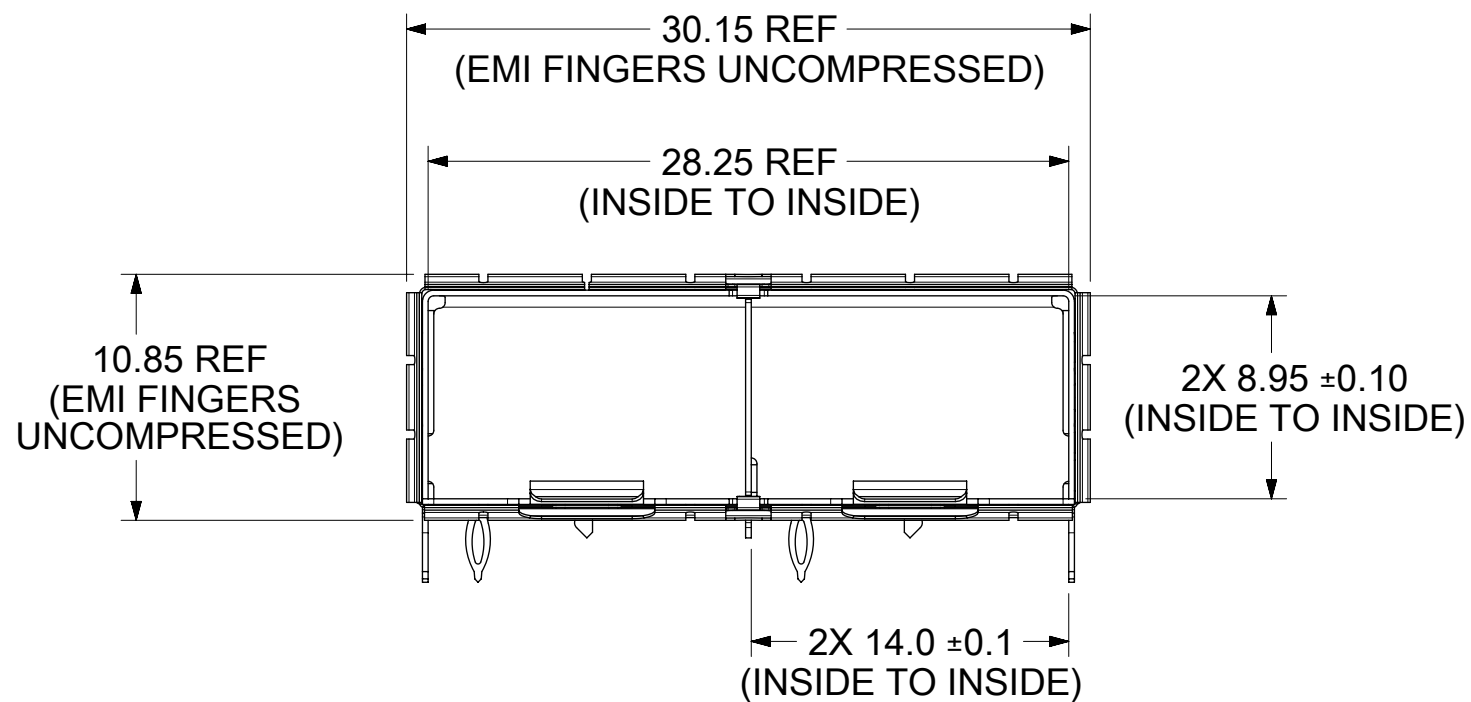
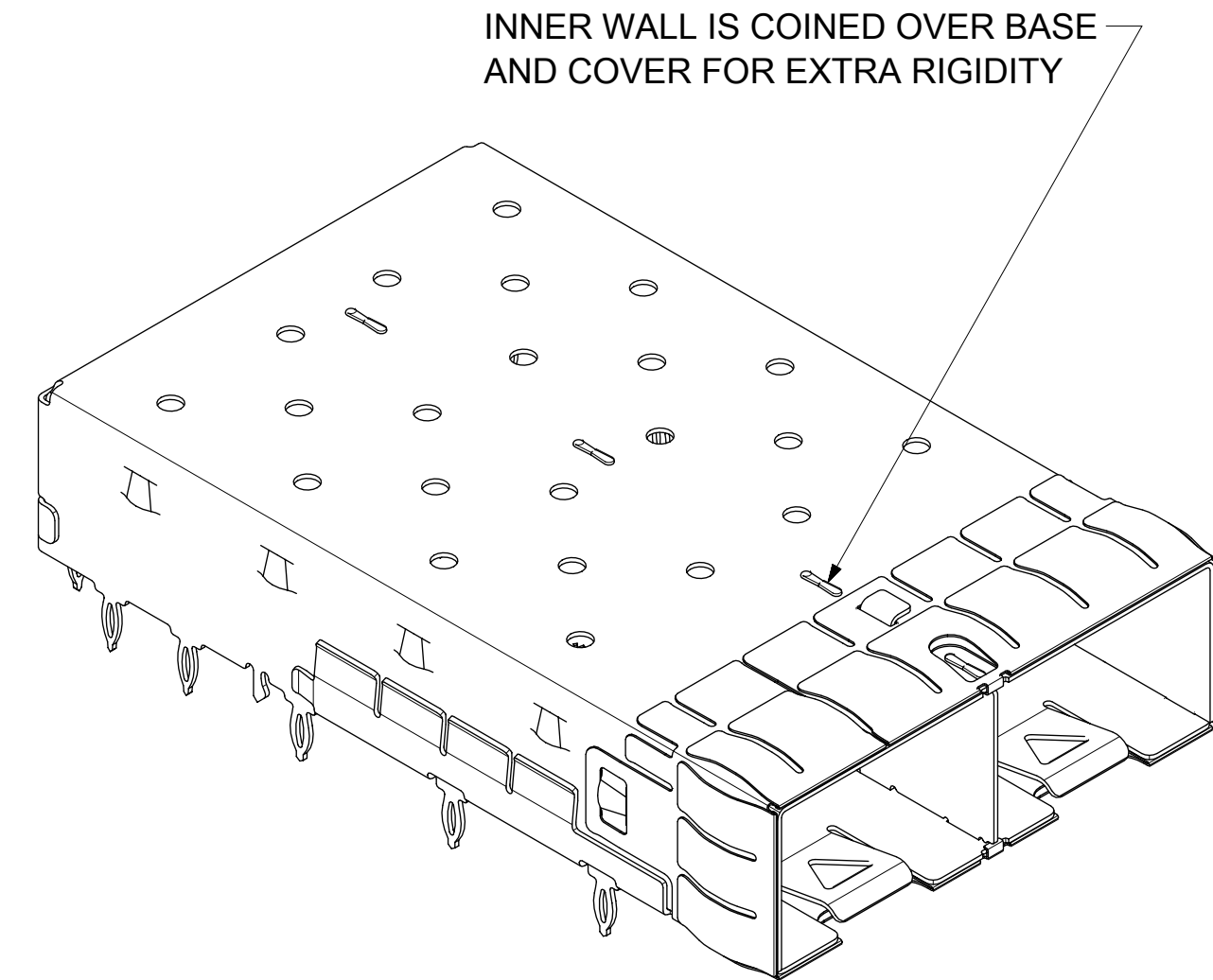
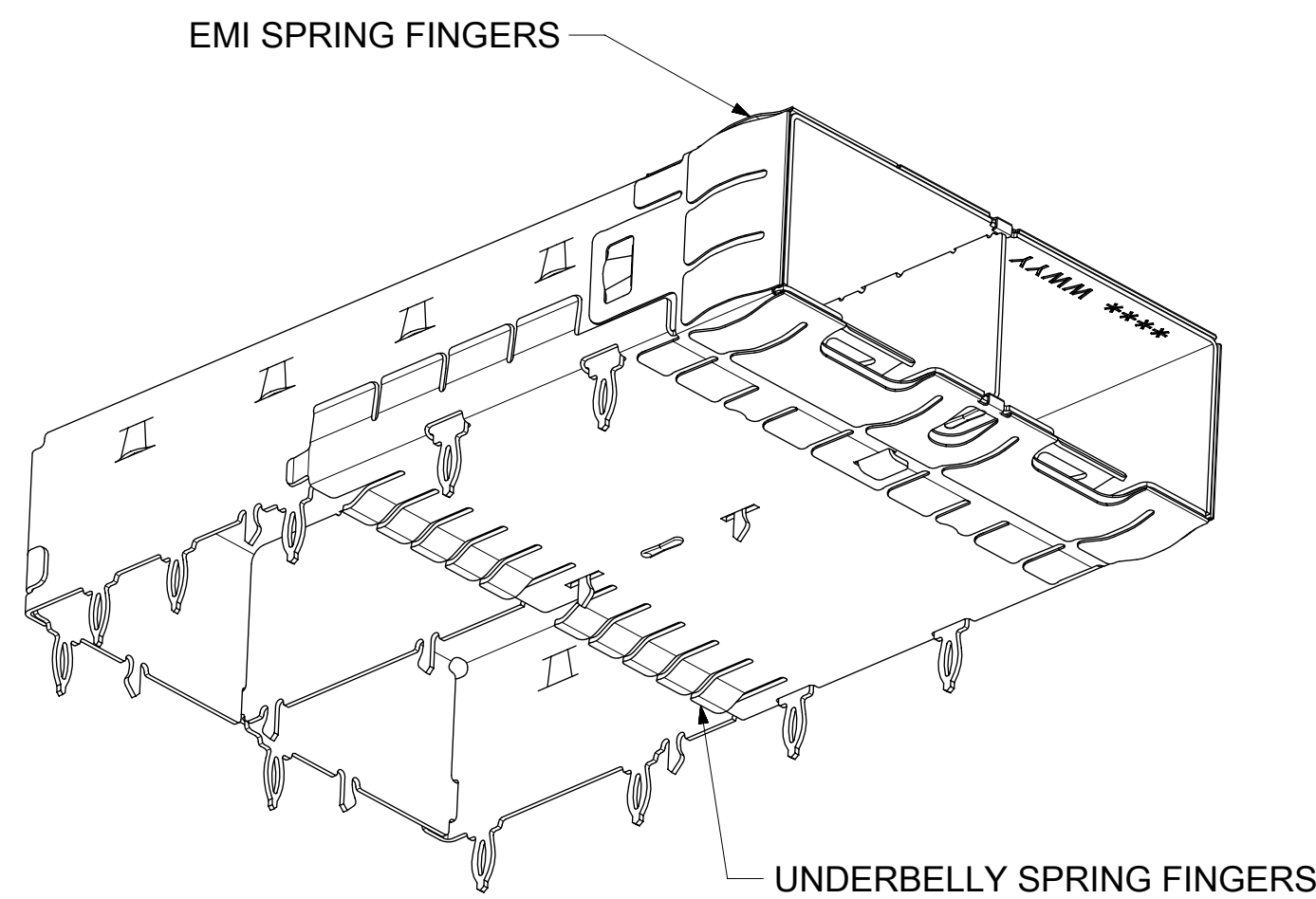
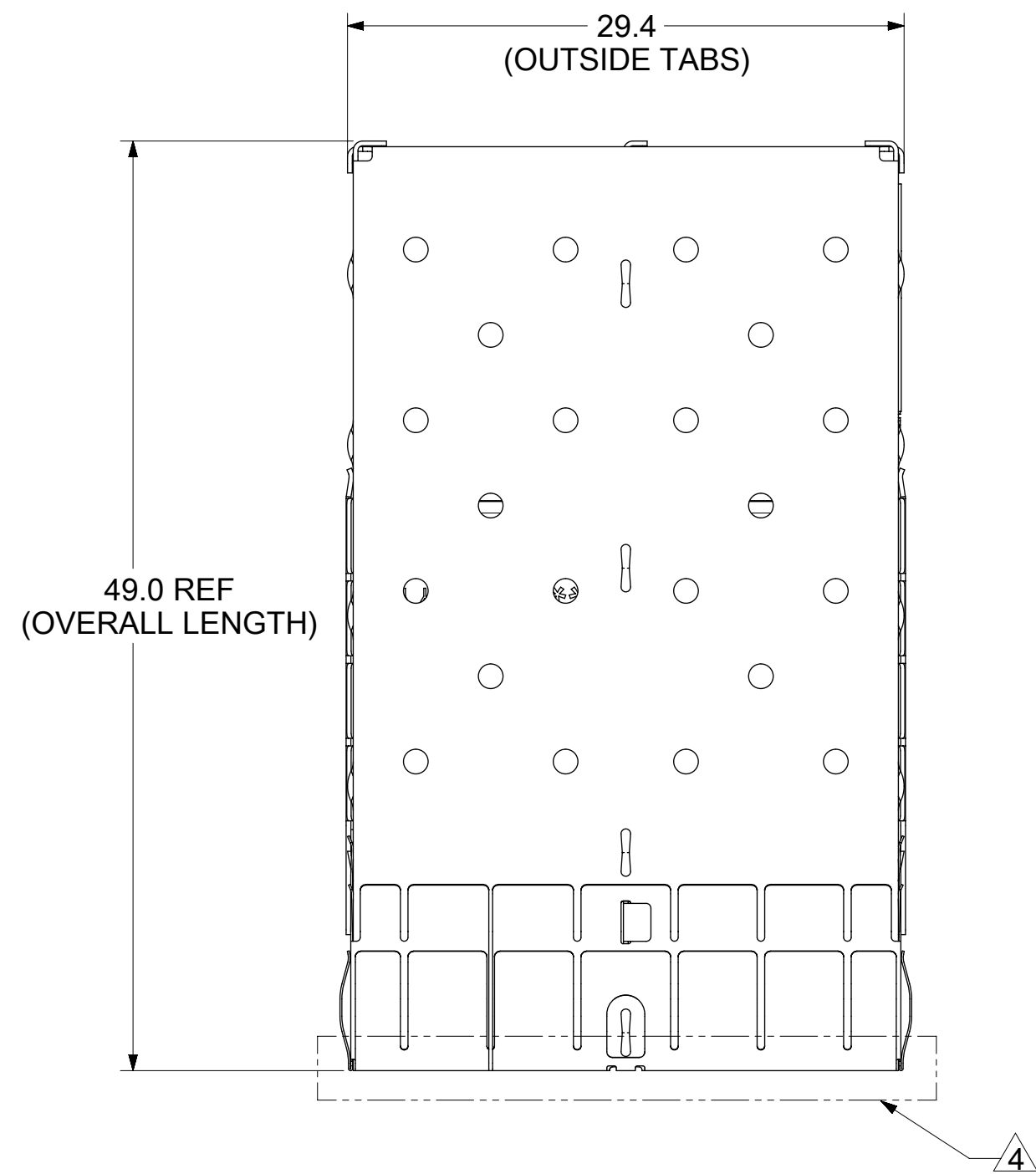


# BASE CAGE DETAILS

747540220



PN/DATE CODE TO BE PRINTED ON THE BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. FOR 74754 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 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.

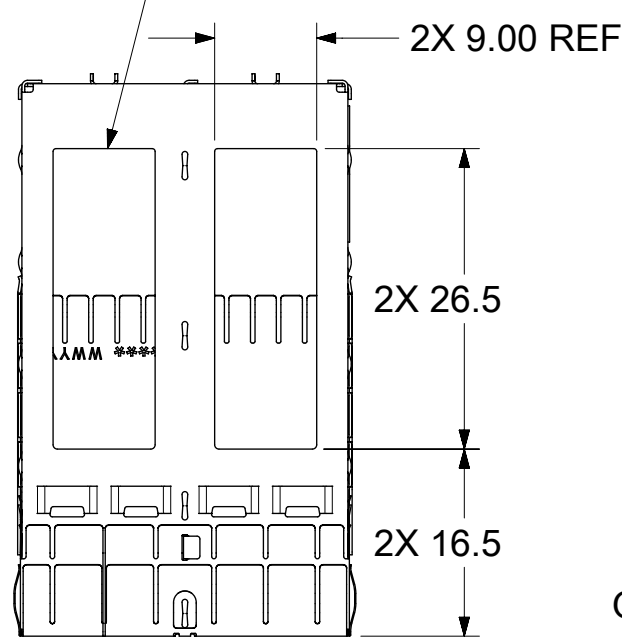
WEEK/YEAR DATE CODE TABLE	
WW	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE:01= FIRST WEEK OF YEAR 52=LAST WEEK OF YEAR)
YY	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

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

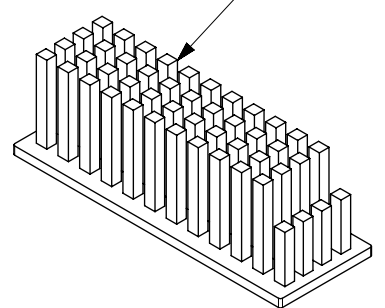
DIMENSION UNITS <b>mm</b>	SCALE <b>3:1</b>	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.	<b>molex</b>	
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890		
ANGULAR TOL ± 1.0°	4 PLACES ±	DRWN: SANTHN 2021/05/26	SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
3 PLACES ±	3 PLACES ±	CHK'D: GGA 2021/11/25	PRODUCT CUSTOMER DRAWING	
2 PLACES ± 0.13	1 PLACE ± 0.25	APPR: GGA 2021/11/25	DOCUMENT NUMBER	
0 PLACES ±	INITIAL REVISION:	DRWN: MKEMPEGOWDA 2016/04/13	111122220	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	APPR: RCHEN08 2016/08/04	DOC TYPE	DOC PART
	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
	C-SIZE	111112	SEE SHEET 3	PSD ASY J3
			SHEET NUMBER	1 OF 7

# CAGE ASSEMBLY OPTIONS

OPEN TOP  
111120220  
SHOWN  
(APPLIES TO ALL  
OPEN TOP CAGES)



HEATSINK OPTIONS  
(2 PLC)  
CUSTOM

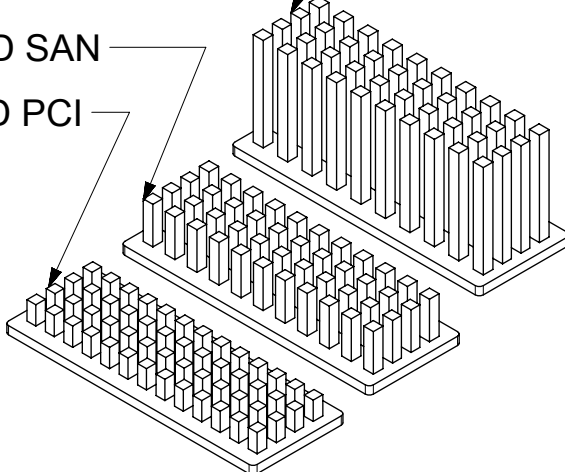


OVERALL HEATSINK HEIGHT

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

HEATSINK OPTIONS  
(2 PLC)

PIN FIELD NETWORKING  
PIN FIELD SAN  
PIN FIELD PCI



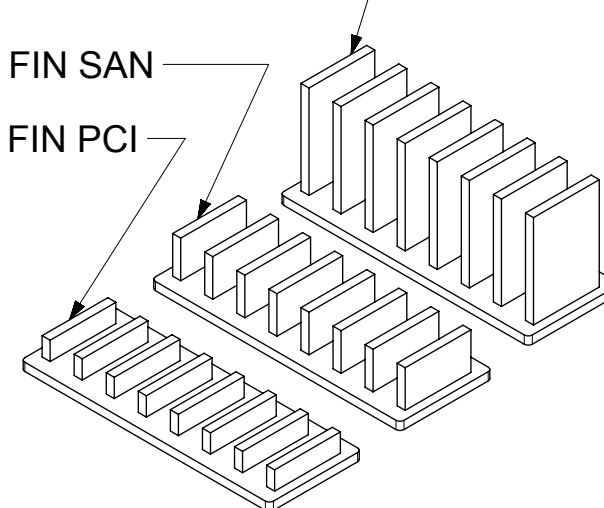
OVERALL HEATSINK HEIGHT

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

HEATSINK OPTIONS  
(2 PLC)

LATERAL FIN NETWORKING  
LATERAL FIN SAN  
LATERAL FIN PCI

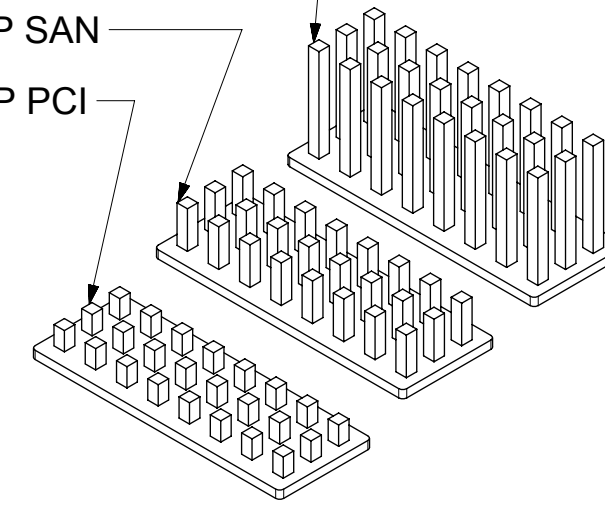


OVERALL HEATSINK HEIGHT

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

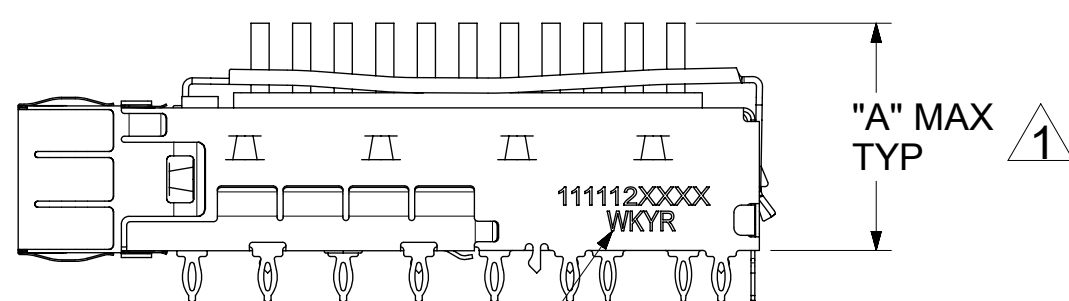
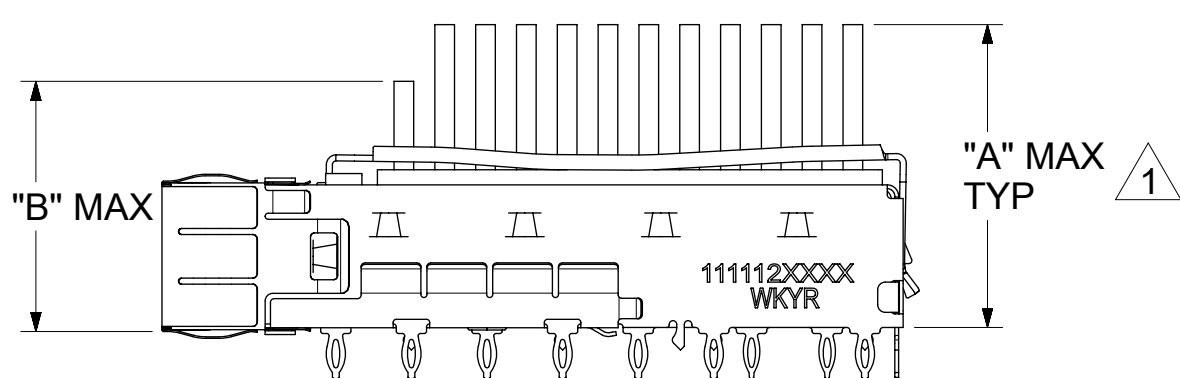
HEATSINK OPTIONS  
(2 PLC)

WIDE GAP NETWORKING  
WIDE GAP SAN  
WIDE GAP PCI



OVERALL HEATSINK HEIGHT

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

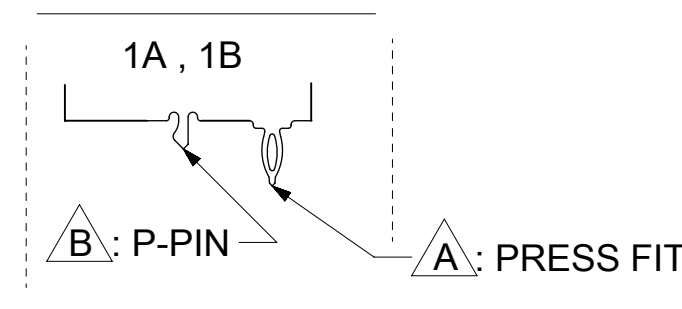


PN/DATE CODE TO BE PRINTED ON THE SIDE OF  
COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.  
FOR 11112 SERIES CAGES

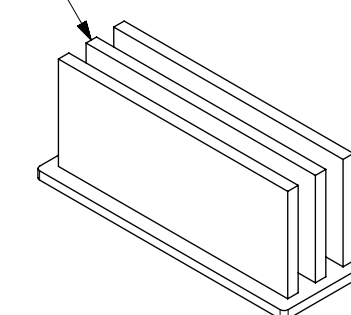
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

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

REAR LEG OPTIONS  
(PER PORT)



HEATSINK OPTIONS  
CUSTOM FIN



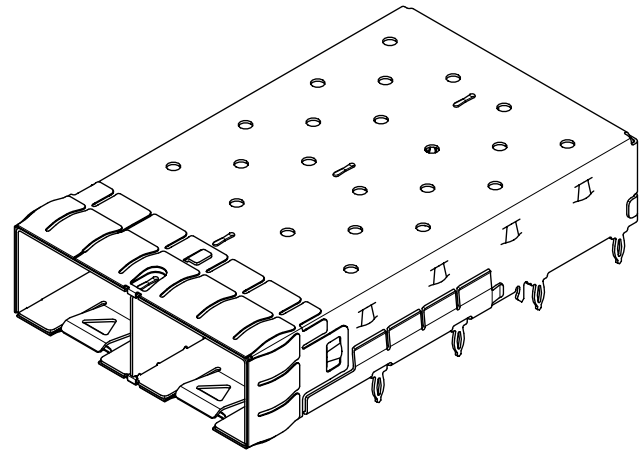
OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

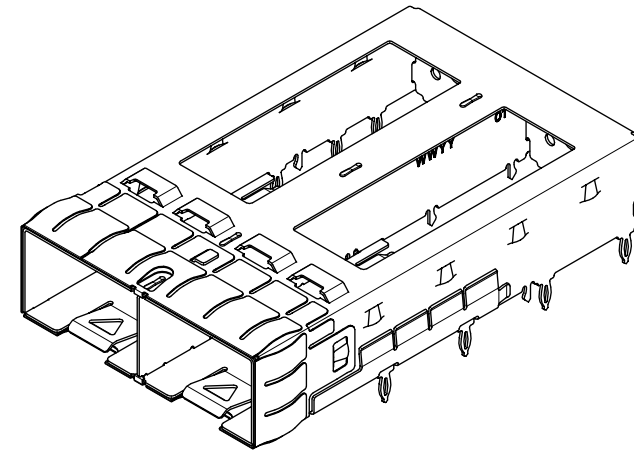
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS <b>mm</b>	SCALE <b>1.5:1</b>	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.	<b>molex</b>		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890			
ANGULAR TOL ± 1.0°	4 PLACES ±	DRWN: SANTHN 2021/05/26	PRODUCT CUSTOMER DRAWING		
3 PLACES ±	2 PLACES ± 0.13	CHK'D: GGA 2021/11/25	DOCUMENT NUMBER		
1 PLACE ± 0.25	0 PLACES ±	APPR: GGA 2021/11/25	111122220		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	INITIAL REVISION: DRWN: MKEMPEGOWDA 2016/04/13 APPR: RCHEN08 2016/08/04	DOC TYPE	DOC PART	REVISION
	DRAWING <b>C-SIZE</b>	SERIES <b>111112</b>	MATERIAL NUMBER SEE SHEET 3	CUSTOMER	<b>PSD ASY J3</b>
			SHEET NUMBER 2 OF 7		

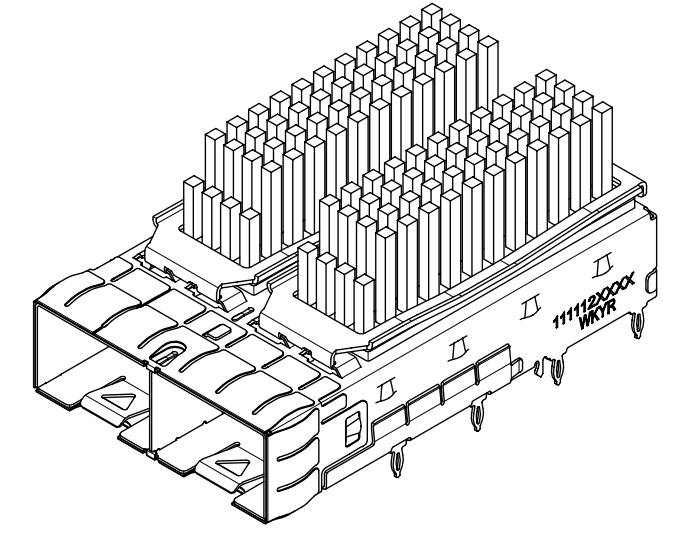
# PART NUMBER SELECTION



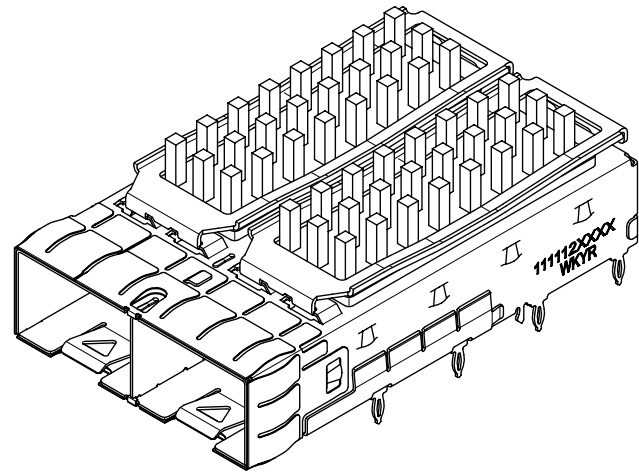
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED




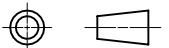
SFP+ OPEN TOP BASE CAGE FOR HEATSINK	
PART NO.	DESCRIPTION
1111120220	



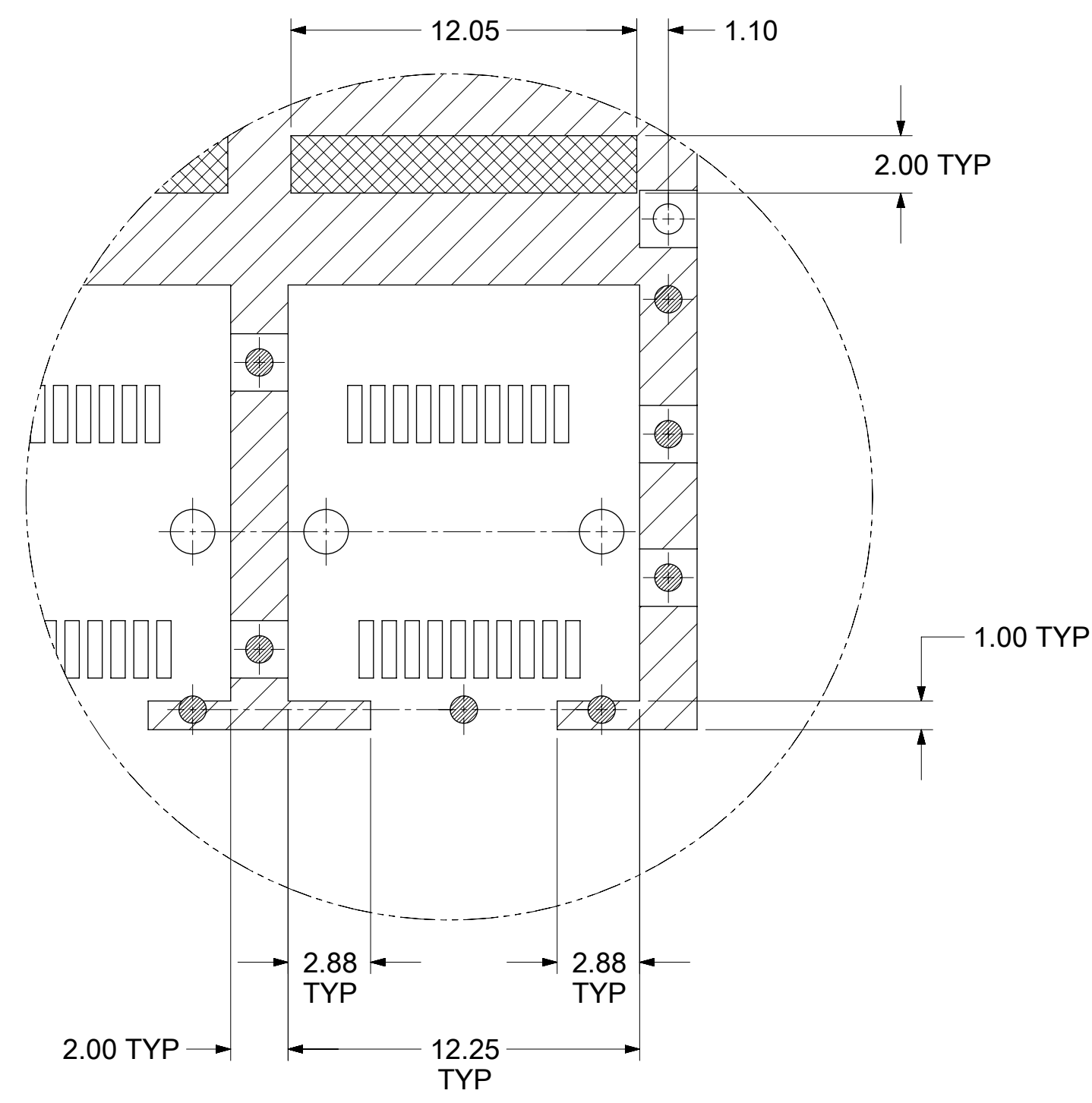
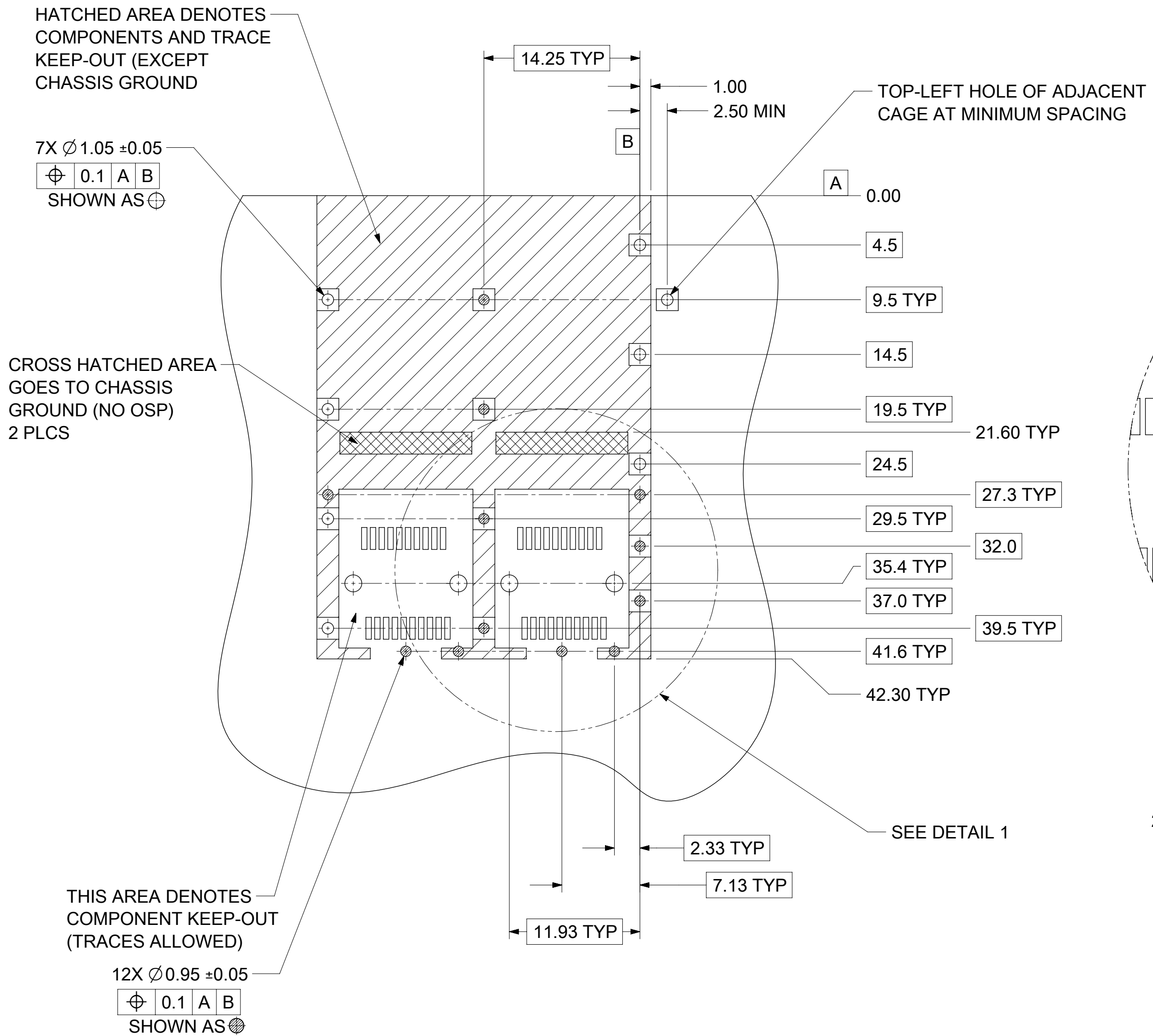
SFP+ CUSTOM HEATSINK OPTION	
PART NO.	DESCRIPTION
1111120226	



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	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.							
mm	1.25:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)					SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
ANGULAR TOL	± 1.0°				PRODUCT CUSTOMER DRAWING				
4 PLACES	±	EC NO: 680890			DOCUMENT NUMBER				
3 PLACES	±	DRWN: SANTHN 2021/05/26			1111122220				
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 J3				
0 PLACES	±	INITIAL REVISION:			MATERIAL NUMBER CUSTOMER SHEET NUMBER				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	SEE SHEET 3		3 OF 7	
				C-SIZE	111112				

# PCB LAYOUT - SINGLE SIDE ONLY

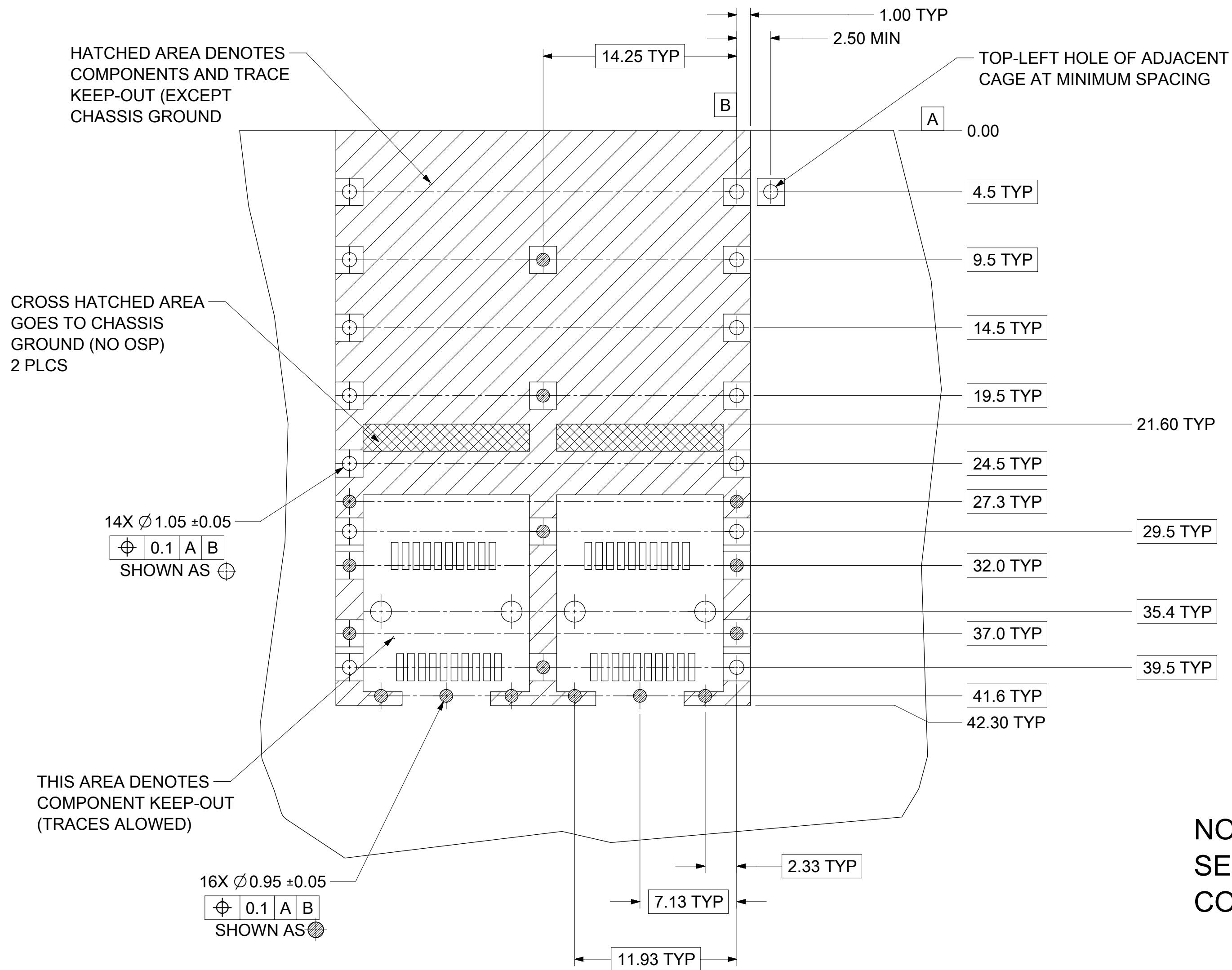


DETAIL 1  
SCALE 5:1

- 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. 1.57mm 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 <b>mm</b>		SCALE <b>1:1</b>		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.				<b>molex</b>		SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0°		EC NO: 680890							
4 PLACES ±		3 PLACES ±		2 PLACES ± 0.13		1 PLACE ± 0.25		0 PLACES ±		PRODUCT CUSTOMER DRAWING	
DRWN: SANTHN		2021/05/26		CHK'D: GGA		2021/11/25		APPR: GGA		2021/11/25	
INITIAL REVISION:		DRWN: MKEMPEGOWDA		2016/04/13		APPR: RCHEN08		2016/08/04		DOCUMENT NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER	
C-SIZE		111112		SEE SHEET 3		1111122220		PSD ASY		J3	
SHEET NUMBER		4 OF 7									

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING



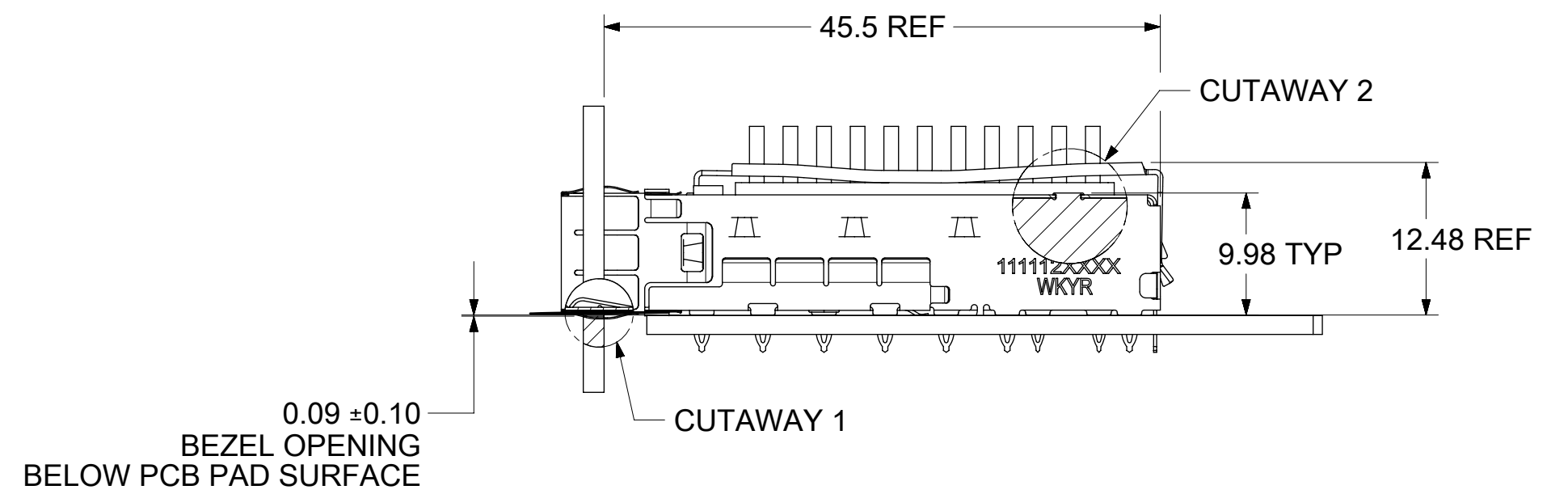
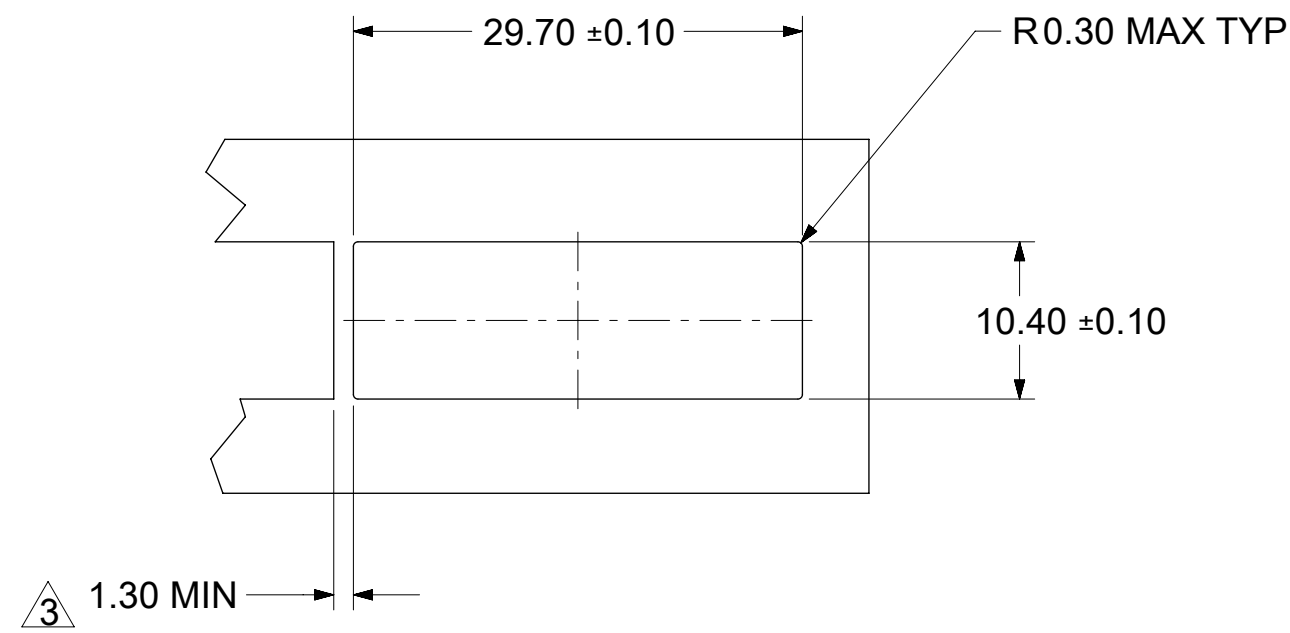
**NOTE:**  
 SEE SHEET 4 FOR HOST CONNECTOR DETAIL

**NOTES:**

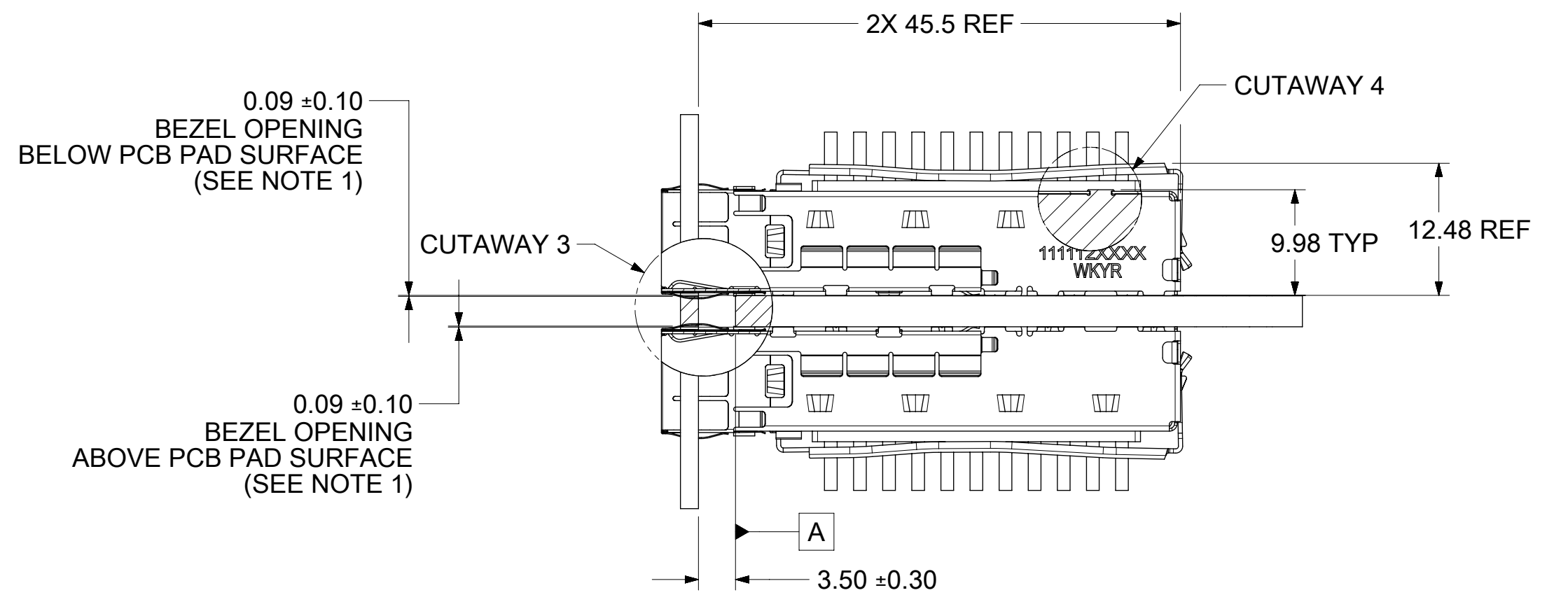
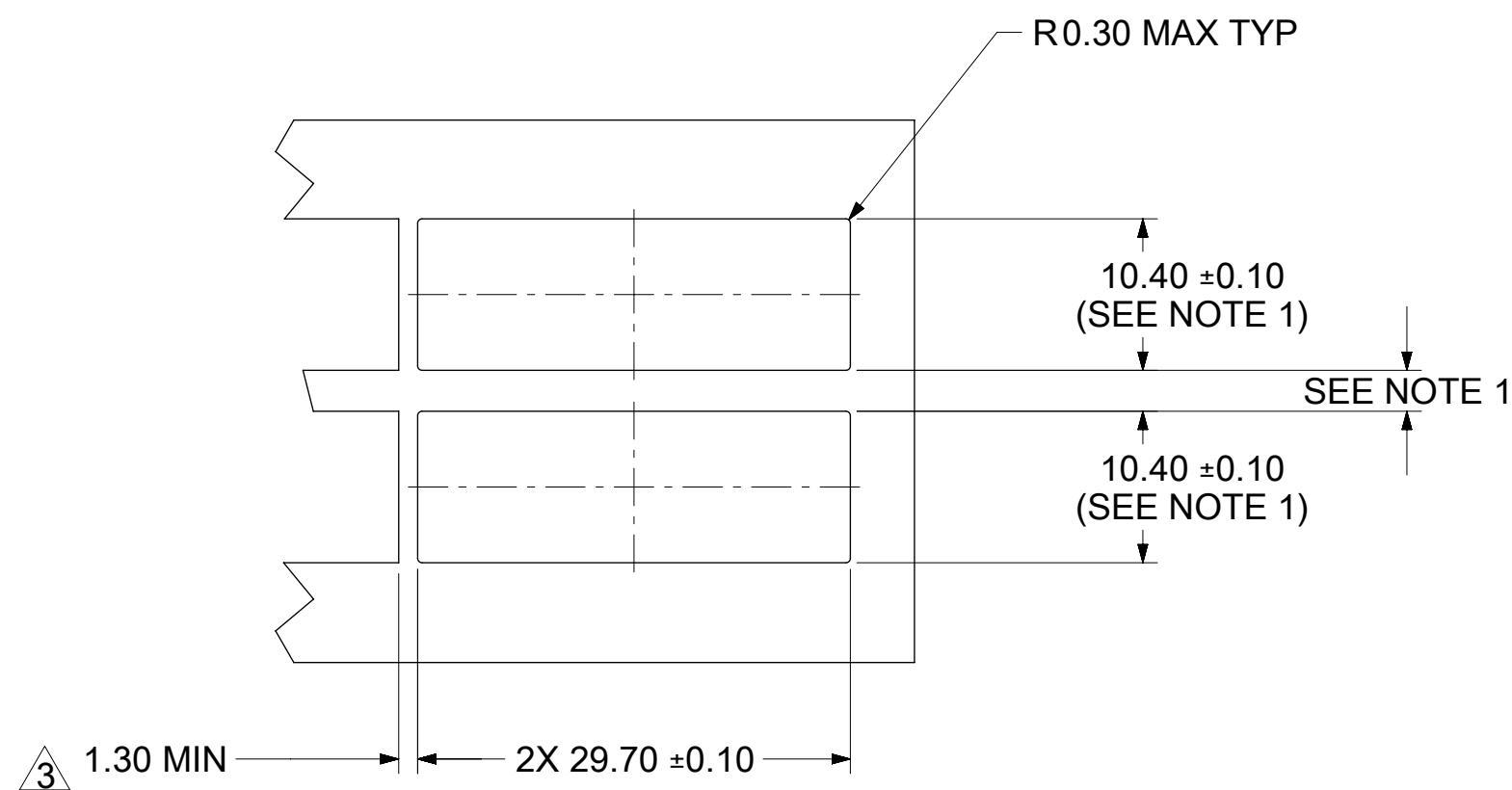
1. PADS AND VIAS CONNECT TO CHASSIS GROUND  
 RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS 14.25mm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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS <b>mm</b>		SCALE <b>4:1</b>		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.				<b>molex</b>		SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0°		EC NO: 680890							
4 PLACES ±		3 PLACES ±		2 PLACES ± 0.13		1 PLACE ± 0.25		0 PLACES ±		PRODUCT CUSTOMER DRAWING	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING <b>C-SIZE</b>		SERIES <b>111112</b>		MATERIAL NUMBER SEE SHEET 3		CUSTOMER PSD ASY J3	
DOCUMENT STATUS P1		RELEASE DATE 2021/11/25 12:19:23		DRWN: SANTHN 2021/05/26		CHK'D: GGA 2021/11/25		APPR: GGA 2021/11/25		DOCUMENT NUMBER <b>111122220</b>	
INITIAL REVISION: DRWN: MKEMPEGOWDA 2016/04/13		APPR: RCHEN08 2016/08/04		DRWN: MKEMPEGOWDA 2016/04/13		APPR: RCHEN08 2016/08/04		SHEET NUMBER 5 OF 7		REVISION	

## BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING (SPRING FINGER)



## BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING (SPRING FINGER)



- NOTE:**
- PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING SIZE AND LOCATION.
  - CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB.
  - THIS DIMENSION IS FOR REF ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION. HOLE OF ADJACENT CAGE ON PCB LAYOUT VARIES ON MODIFICATION.

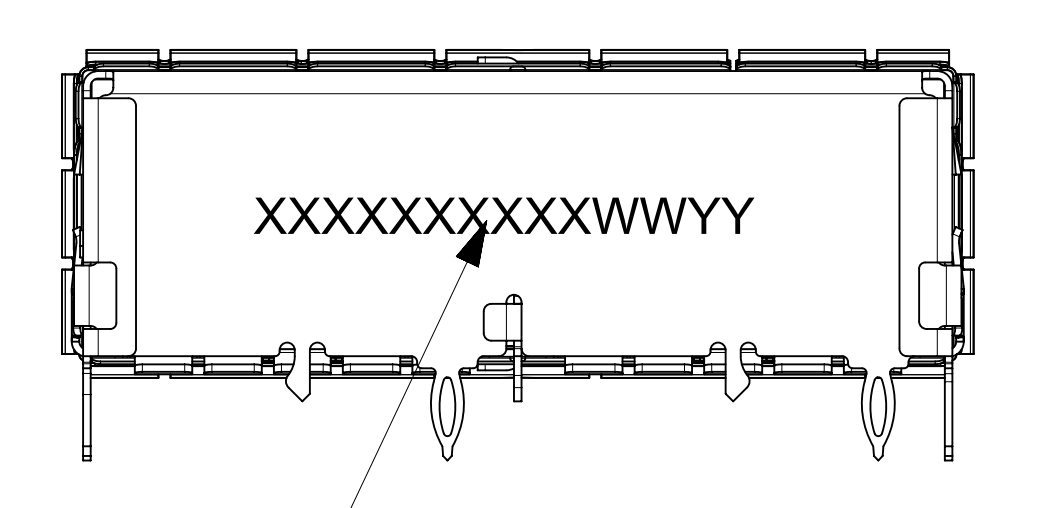
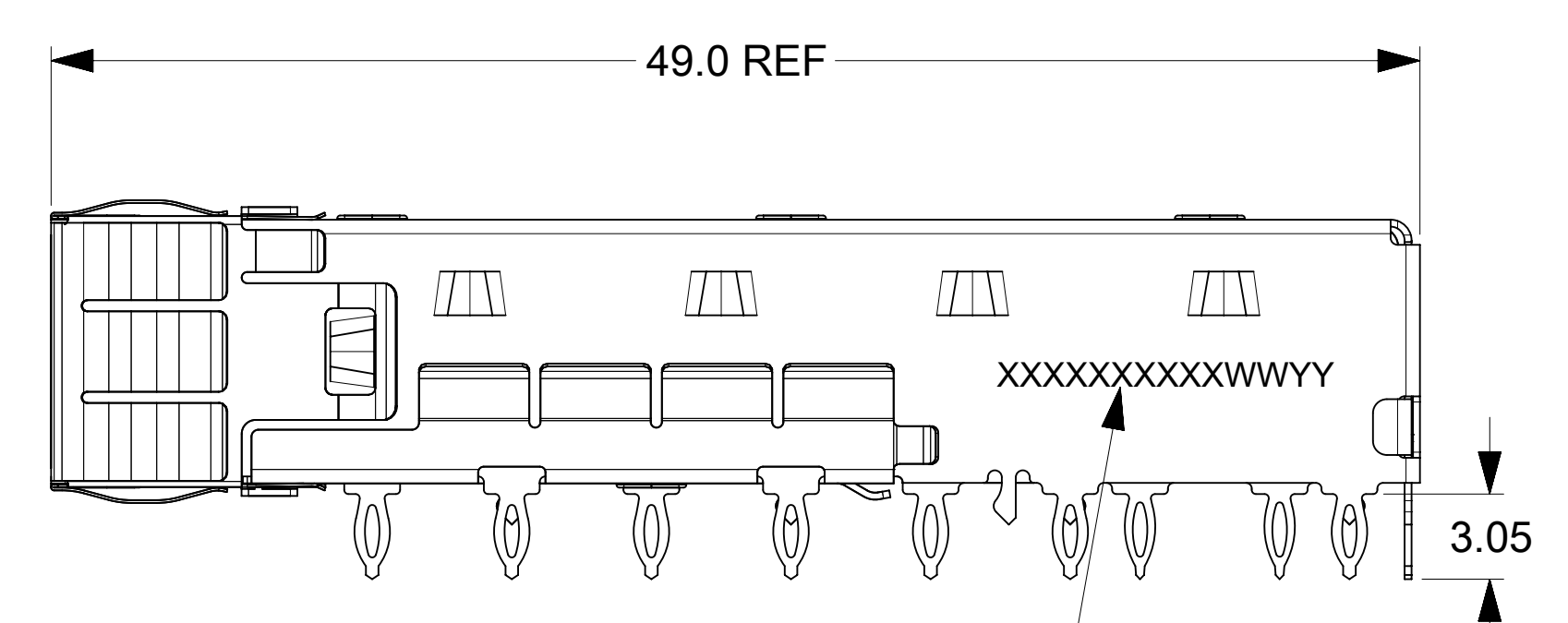
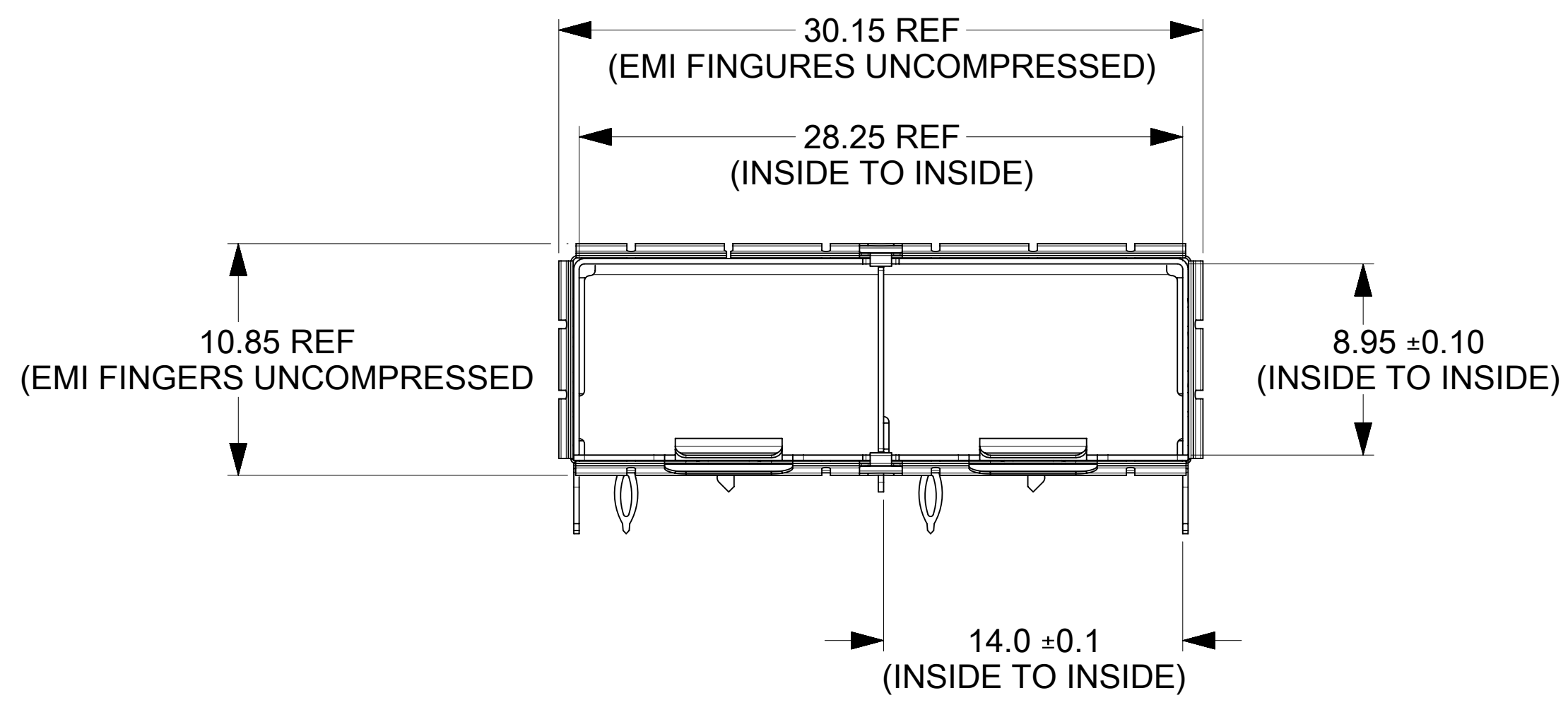
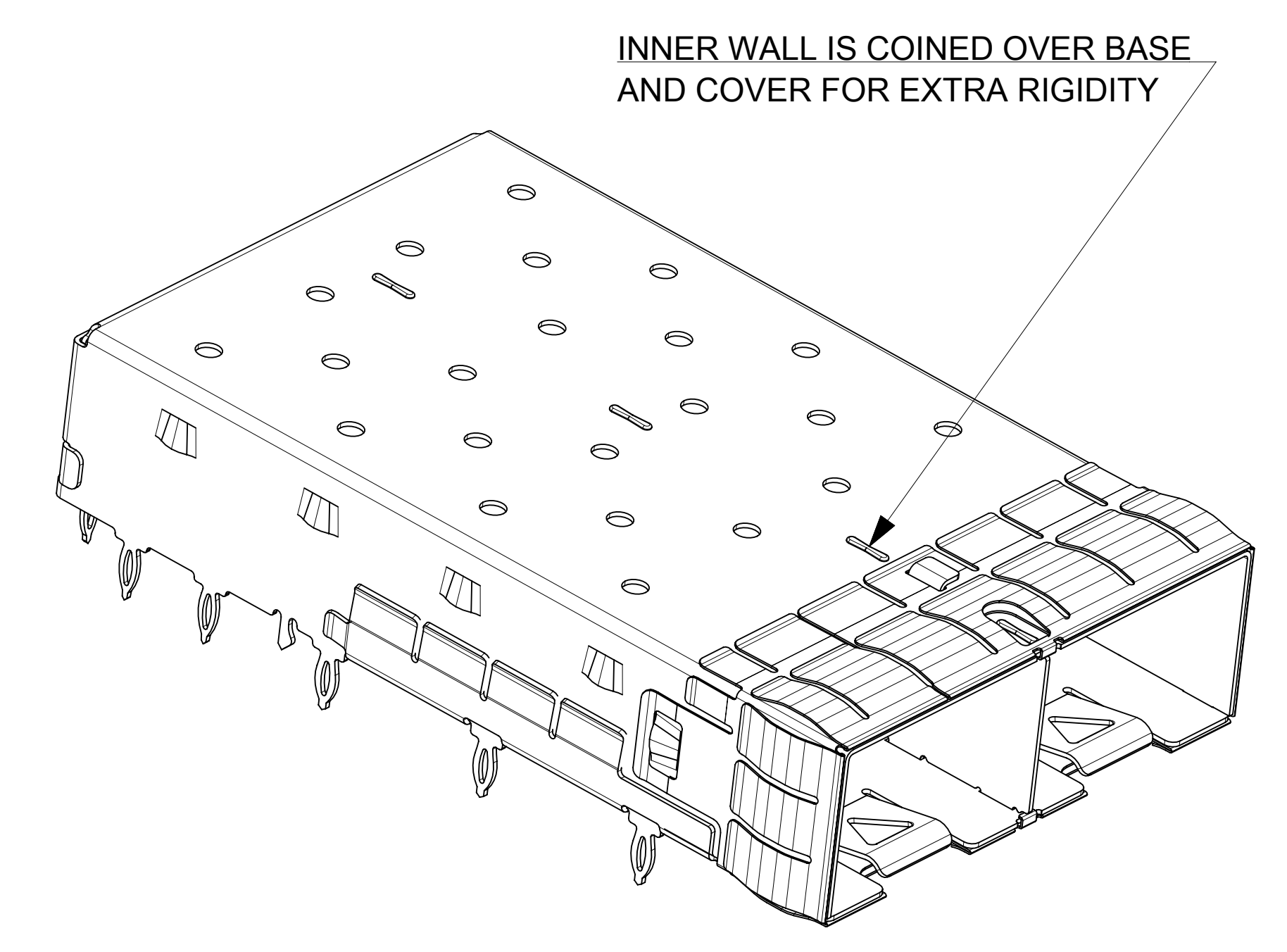
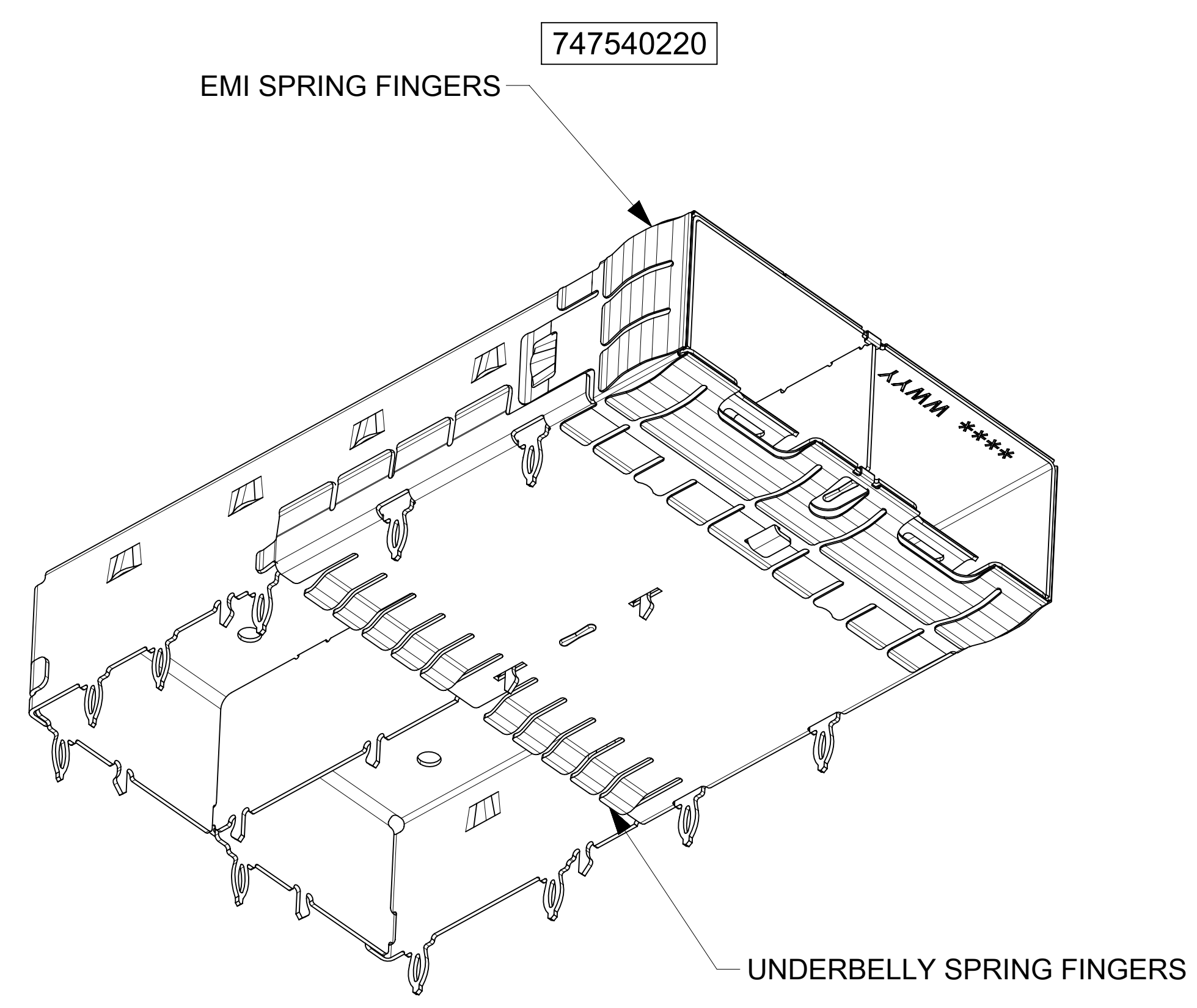
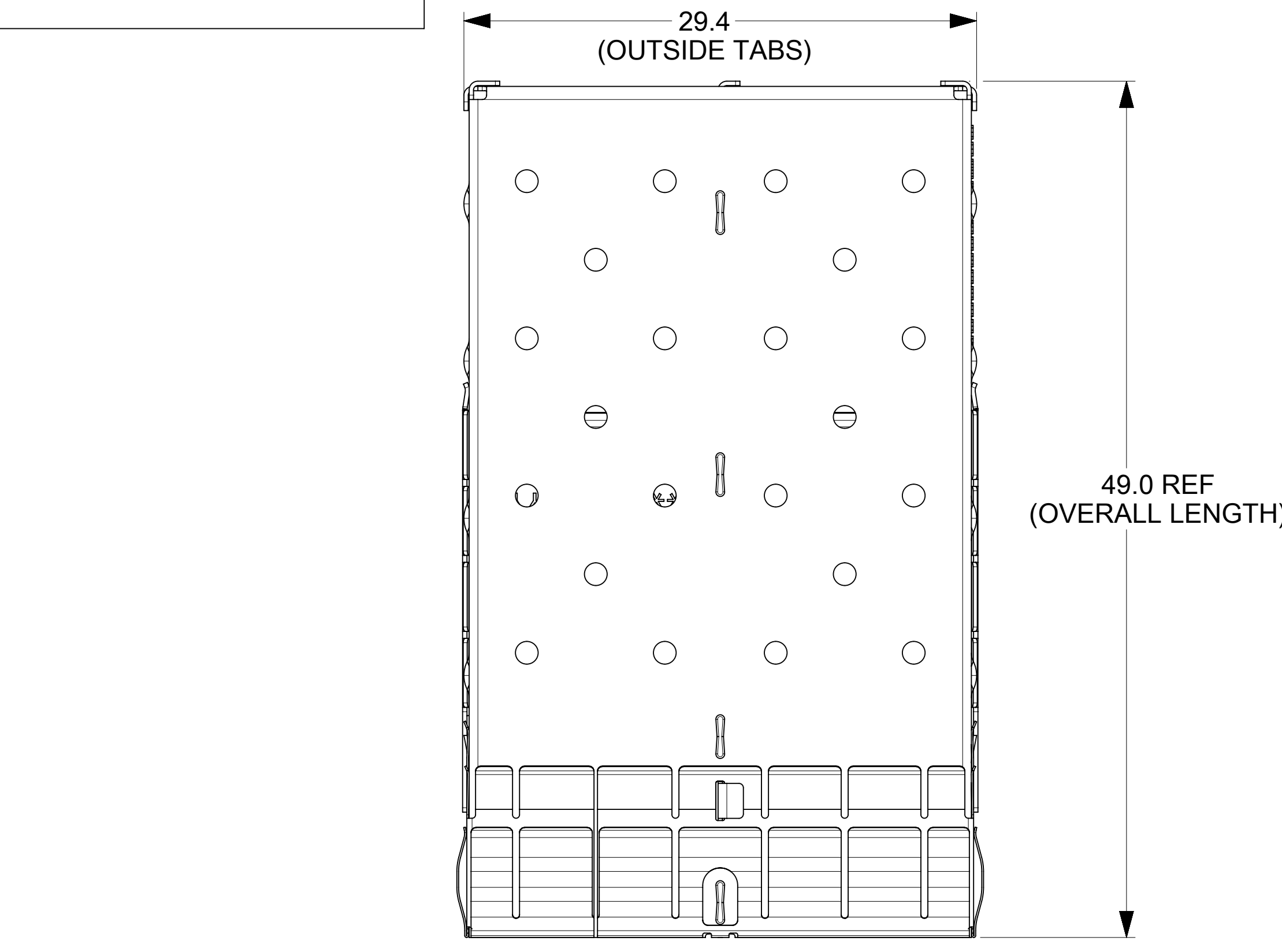
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.							
mm	2:1	<b>molex</b>							
GENERAL TOLERANCES (UNLESS SPECIFIED)		SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS							
ANGULAR TOL ± 1.0°		PRODUCT CUSTOMER DRAWING							
4 PLACES ±	EC NO: 680890	DRWN: SANTHN 2021/05/26						DOCUMENT NUMBER	
3 PLACES ±	CHK'D: GGA	APPR: GGA 2021/11/25						DOC TYPE DOC PART REVISION	
2 PLACES ± 0.13	INITIAL REVISION:		DRWN: MKEMPEGOWDA 2016/04/13					111122220	
1 PLACE ± 0.25	APPR: RCHEN08		2016/08/04					PSD ASY J3	
0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
			C-SIZE	111112	SEE SHEET 3		6 OF 7		

REV	DATE	DESCRIPTION
A	2011/06/10	INITIAL RELEASE
A1	2011/06/15	SHEET 1: REMOVED HEATSINK OPENING REFERENCE DIMENSIONS AND WEEK 52 REFERENCE; SHEET 4: ADDED NOTES POINTING TO THE INNER WALL COINED OVER THE COVER.
B	2011/07/22	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.
B1	2011/08/19	UPDATED CAGE AND SPRING CLIP MODELS.
C	2012/10/25	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 INDICATING 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.
D	2014/02/07	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. SHEET 3: ADDED SHEET 3 WITH ZSFP+ OPTIONS SHEET 4: ADDED PART NUMBERS 747540220, 1001130220. UPDATED TITLE BLOCK.
E	2014/08/13	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.
F	2014/08/21	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.
G	2015/02/26	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."
H	2015/08/26	SHEET 2: E3 : ADDED NEW CUSTOM FIN HEATSINK ISO VIEW SHEET 4: E3 : ADDED PART NO. 111112-6221 ISO VIEW 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
J	2016/06/28	REMASTERED FROM SD-111112-2220 REV H TO "1111122220 REV_J" NX SHEET 2: E10: CHANGED THE PN /DATE CODE STYLE FROM 1 ROW TO 2 ROWS SHEET 7: A19:ADDED A NOTE "THIS DIM IS FOR REF ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION.HOLE OF ADJACENT CAGE ON PCB LAYOUT VARIES BASED ON MODIFICATION." SEPARATED ZSFP+ SERIES TO 1001130220 PSD ASY
J2	2016/12/16	SHEET 4/5: CORRECTED TYPO TO UPDATE PCB VIEW
J3	2021/09/22	OBSOLETED PART NUMBERS 1111121220, 1111122220, 1111123220, 1111124220, 1111125220, 1111126220, 1111126221, 1111128220, 1111129220. SHEET 4: E07: ADDED DIMENSION 35.4 TYP.

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: OBSOLETED PART NUMBER AS PER PCN#509457.				<b>molex</b>	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)								SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
ANGULAR TOL ± 1.0°									
4 PLACES ±				EC NO: 680890				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				DRWN: SANTHN 2021/05/26					
2 PLACES ± 0.13				CHK'D: GGA 2021/11/25				DOCUMENT NUMBER <b>1111122220</b>	
1 PLACE ± 0.25				APPR: GGA 2021/11/25					
0 PLACES ±				INITIAL REVISION:				DOC TYPE PSD	
				DRWN: MKEMPEGOWDA 2016/04/13					
				APPR: RCHEN08 2016/08/04				REVISION <b>J3</b>	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES			
				C-SIZE		111112		7 OF 7	
				MATERIAL NUMBER		CUSTOMER			
				SEE SHEET 3					



BASE CAGE DETAILS



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.

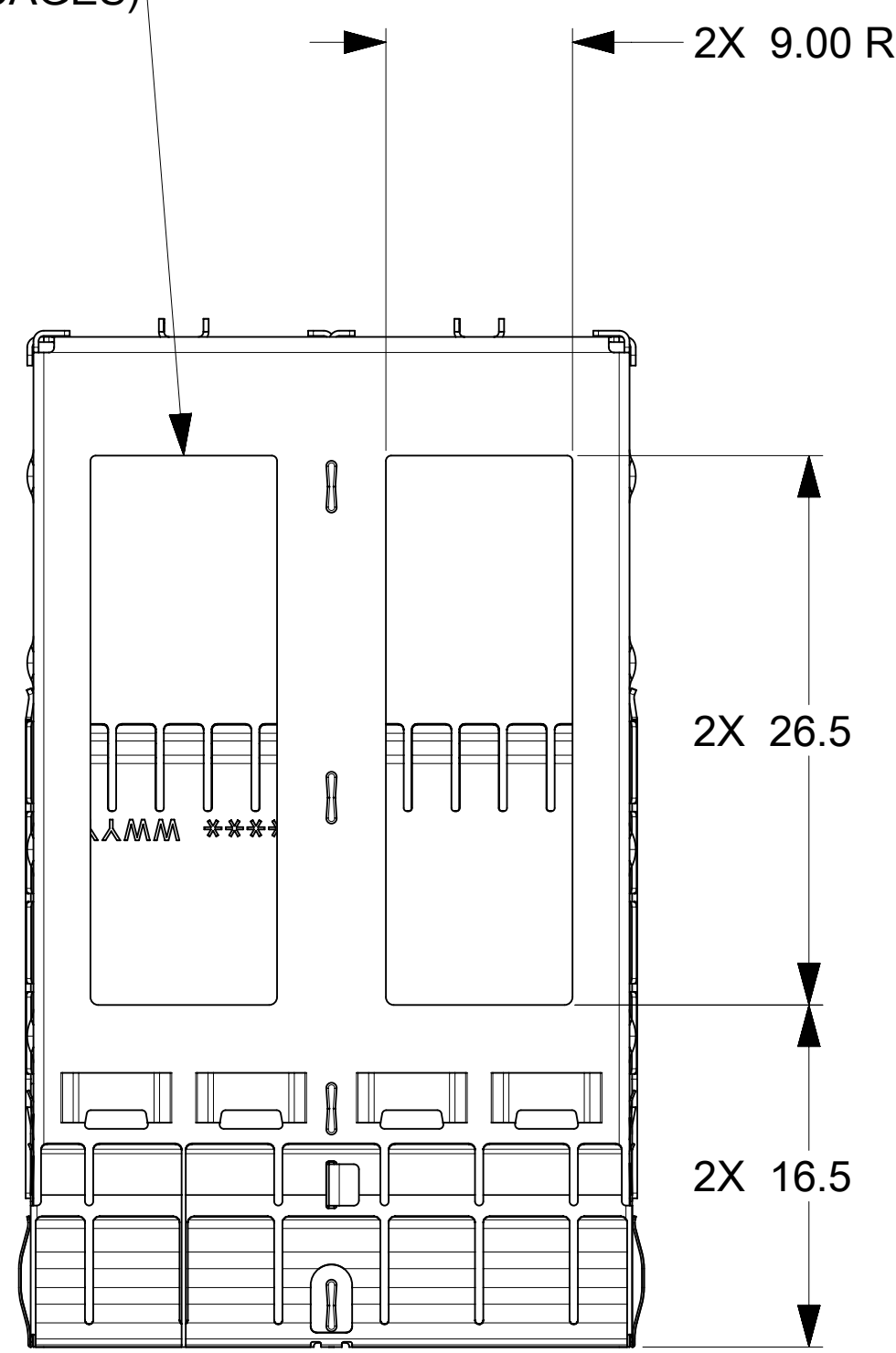
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

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.							
mm	4:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)					SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
	MM	INCH			PRODUCT CUSTOMER DRAWING				
4 PLACES	±	±			DOCUMENT NUMBER				
3 PLACES	±	±			DOC TYPE DOC PART REVISION				
2 PLACES	± 0.13	±			SD-111112-2220 PSD 001 J				
1 PLACE	± 0.25	±			MATERIAL NUMBER CUSTOMER SHEET NUMBER				
0 PLACES	±	±			SEE SHEET 4 GENERAL MARKET 1 OF 8				
ANGULAR TOL	±	°							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES				
				D-SIZE	111112				

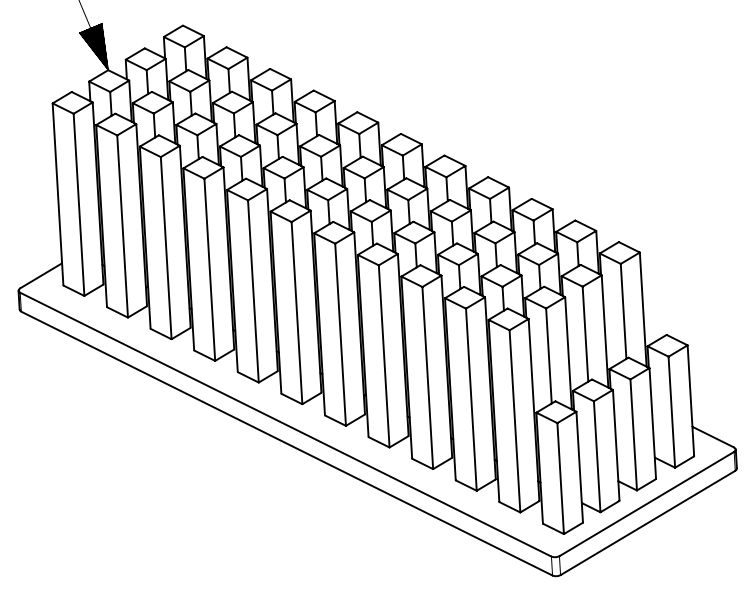


# CAGE ASSEMBLY OPTIONS

OPEN TOP  
1111120220  
SHOWN  
(APPLIES TO ALL  
OPEN TOP CAGES)



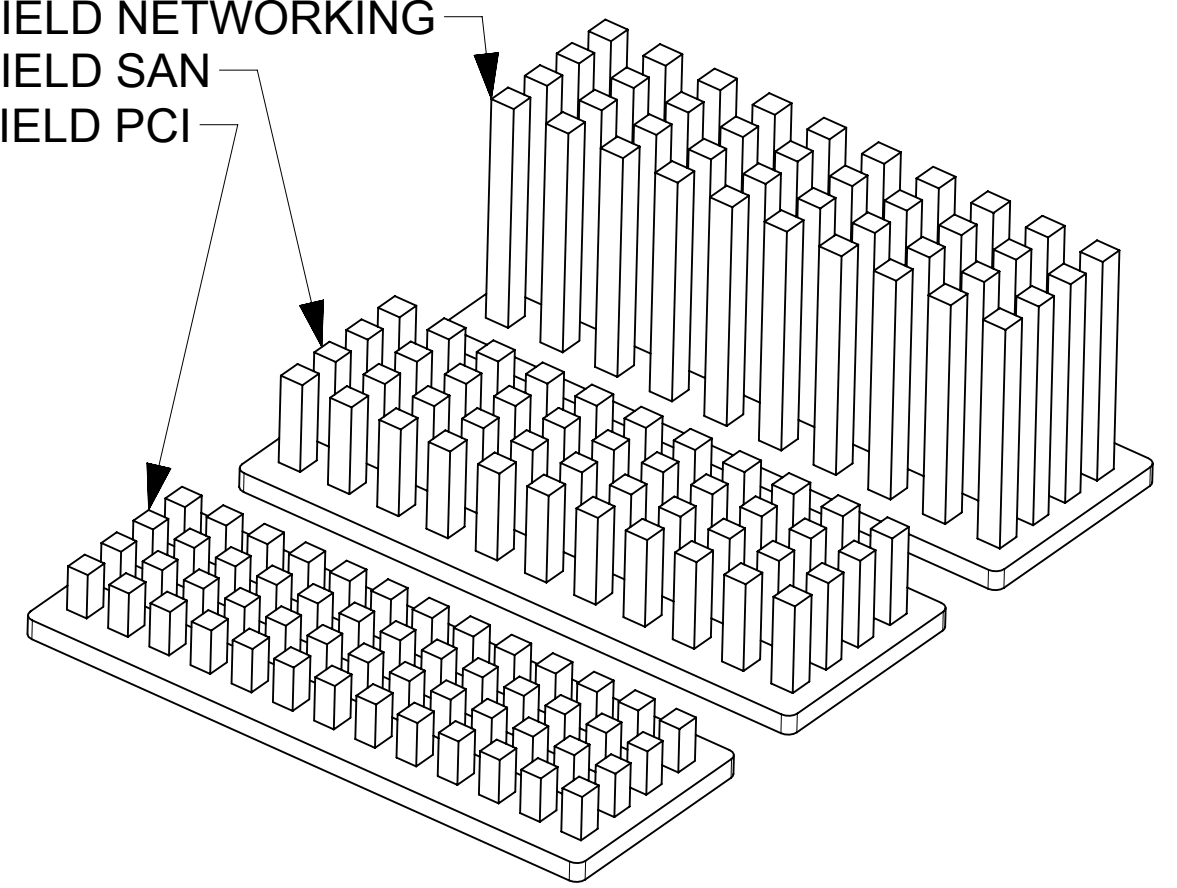
HEATSINK OPTIONS  
(2 PLC)  
CUSTOM



OVERALL HEAT SINK HEIGHT

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

HEATSINK OPTIONS  
(2 PLC)  
PIN FIELD NETWORKING  
PIN FIELD SAN  
PIN FIELD PCI

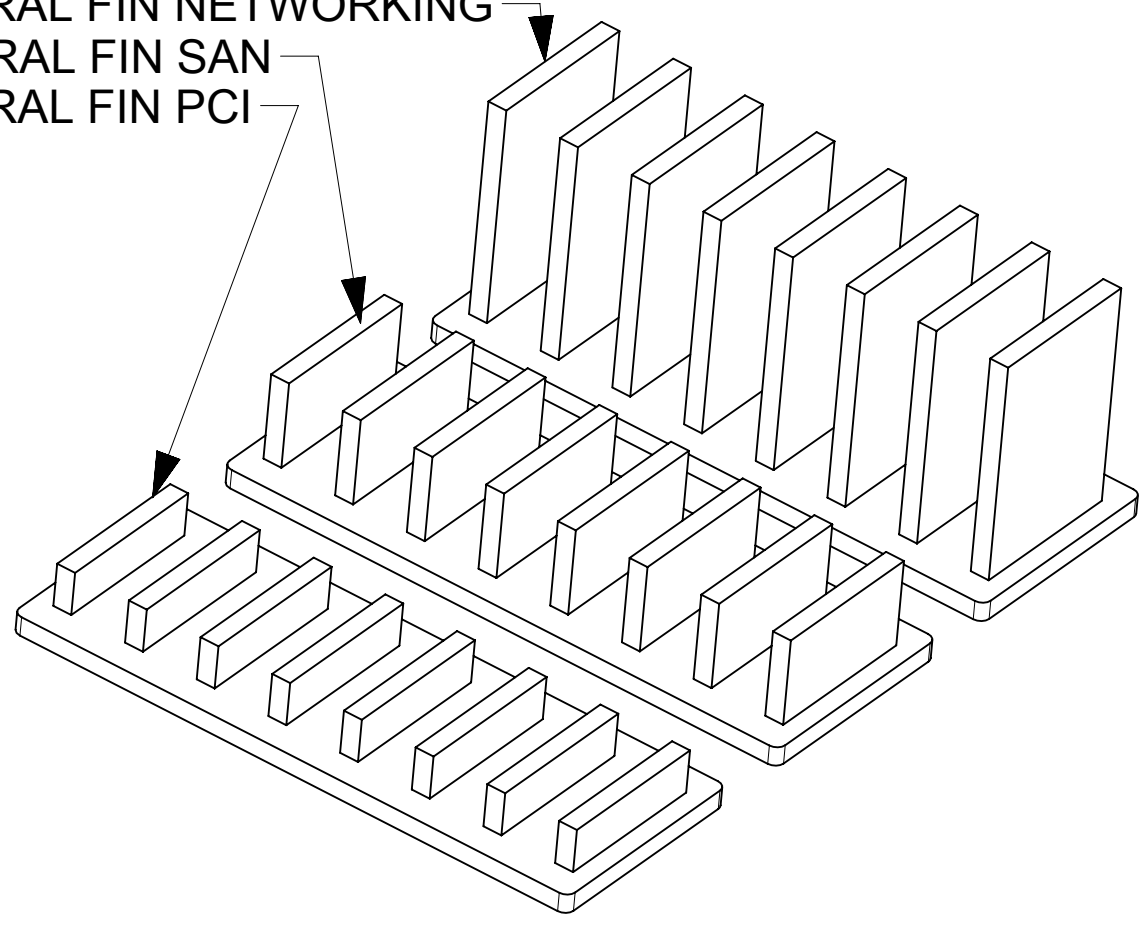


OVERALL HEATSINK HEIGHT

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

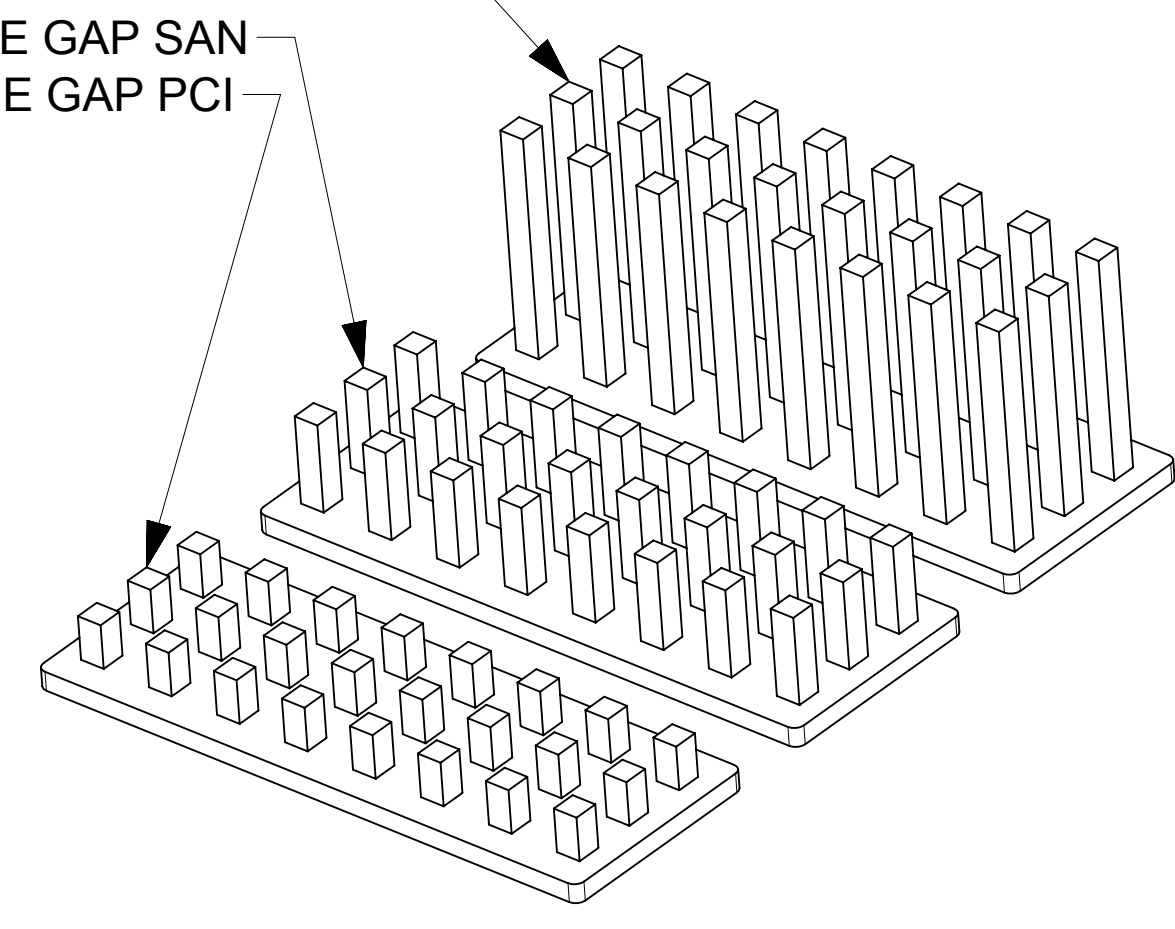
HEATSINK OPTIONS  
(2 PLC)  
LATERAL FIN NETWORKING  
LATERAL FIN SAN  
LATERAL FIN PCI



OVERALL HEATSINK HEIGHT

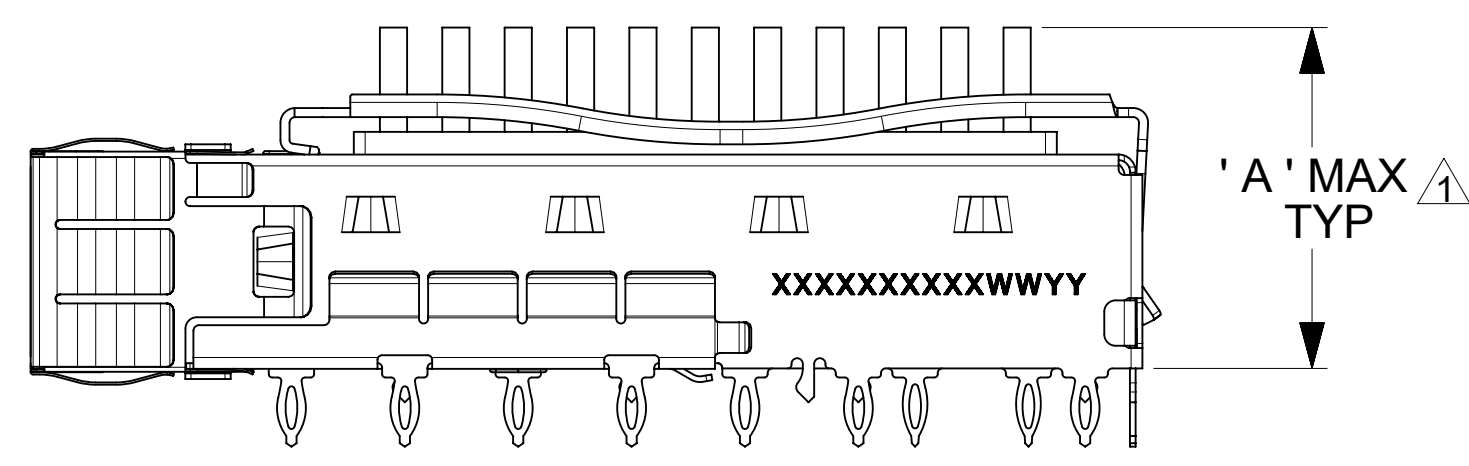
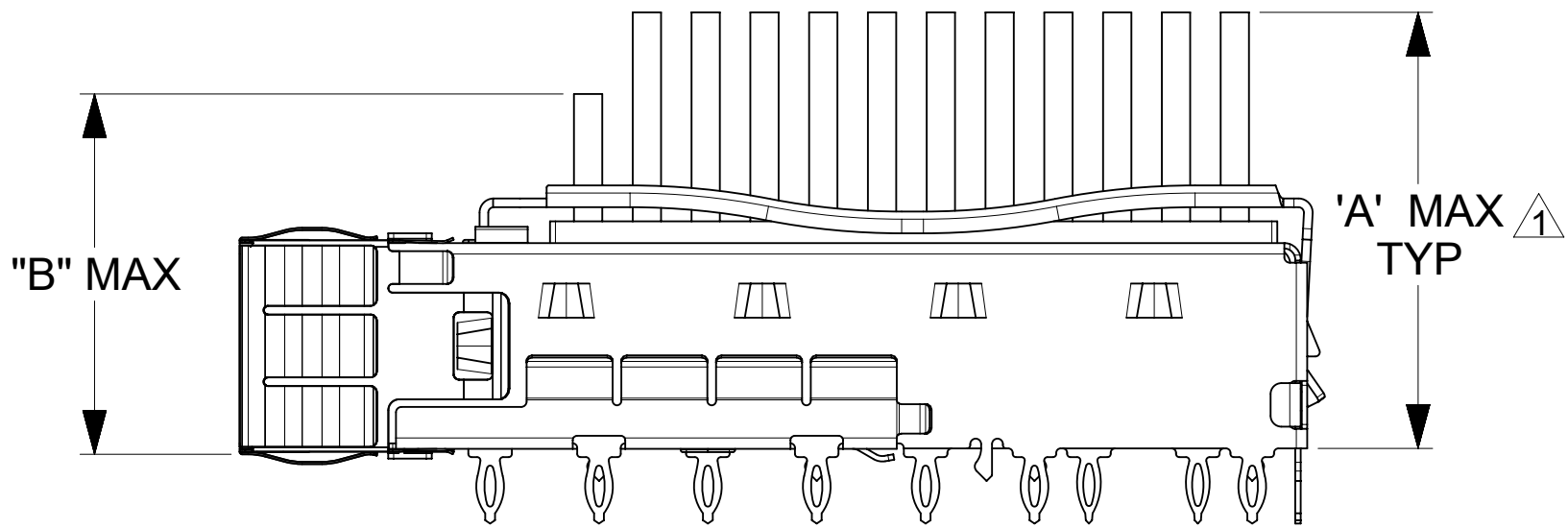
APPLICATION	STYLE	DIM 'A'
PCI	LATERAL FIELD	14.3
SAN	LATERAL FIELD	16.6
NETWORKING	LATERAL FIELD	23.6

HEATSINK OPTIONS  
(2 PLC)  
WIDE GAP NETWORKING  
WIDE GAP SAN  
WIDE GAP PCI

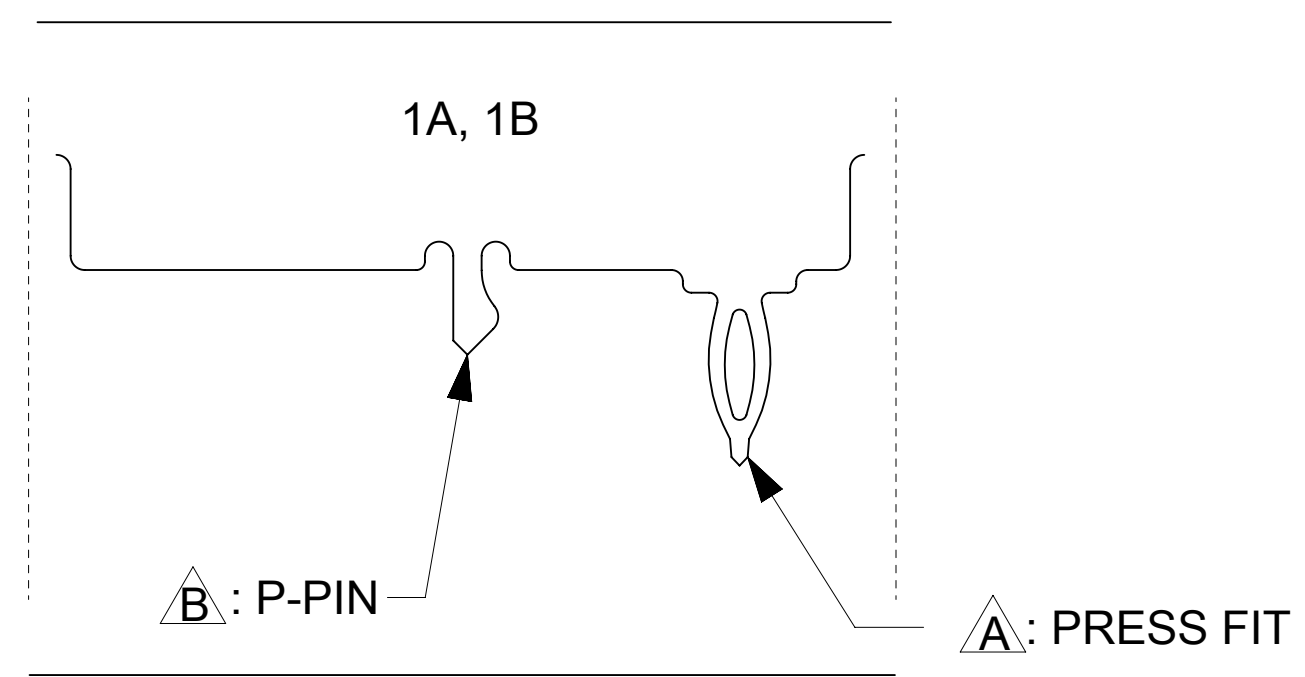


OVERALL HEATSINK HEIGHT

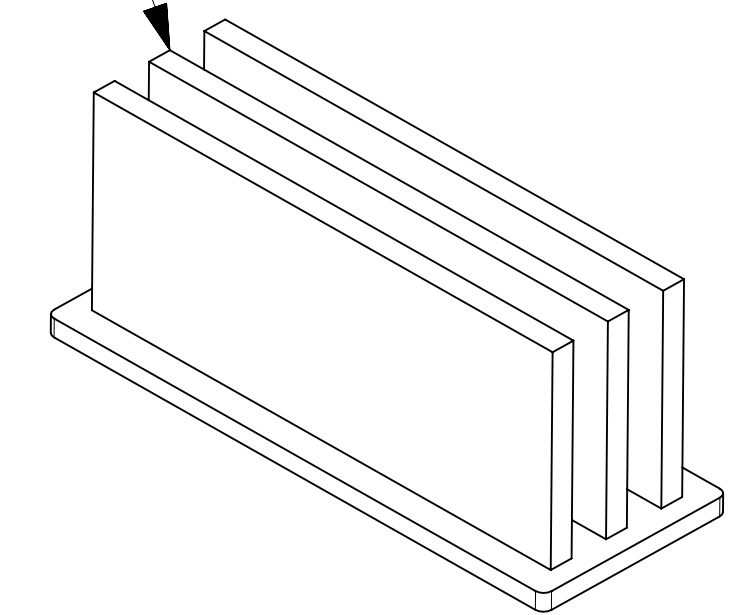
APPLICATION	TYLE	DIM 'A'
PCI	WIDE GAP PIN	14.3
SAN	WIDE GAP PIN	16.6
NETWORKING	WIDE GAP PIN	23.6



## REAR LEG OPTIONS (PER REPORT)



HEATSINK OPTIONS  
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	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

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

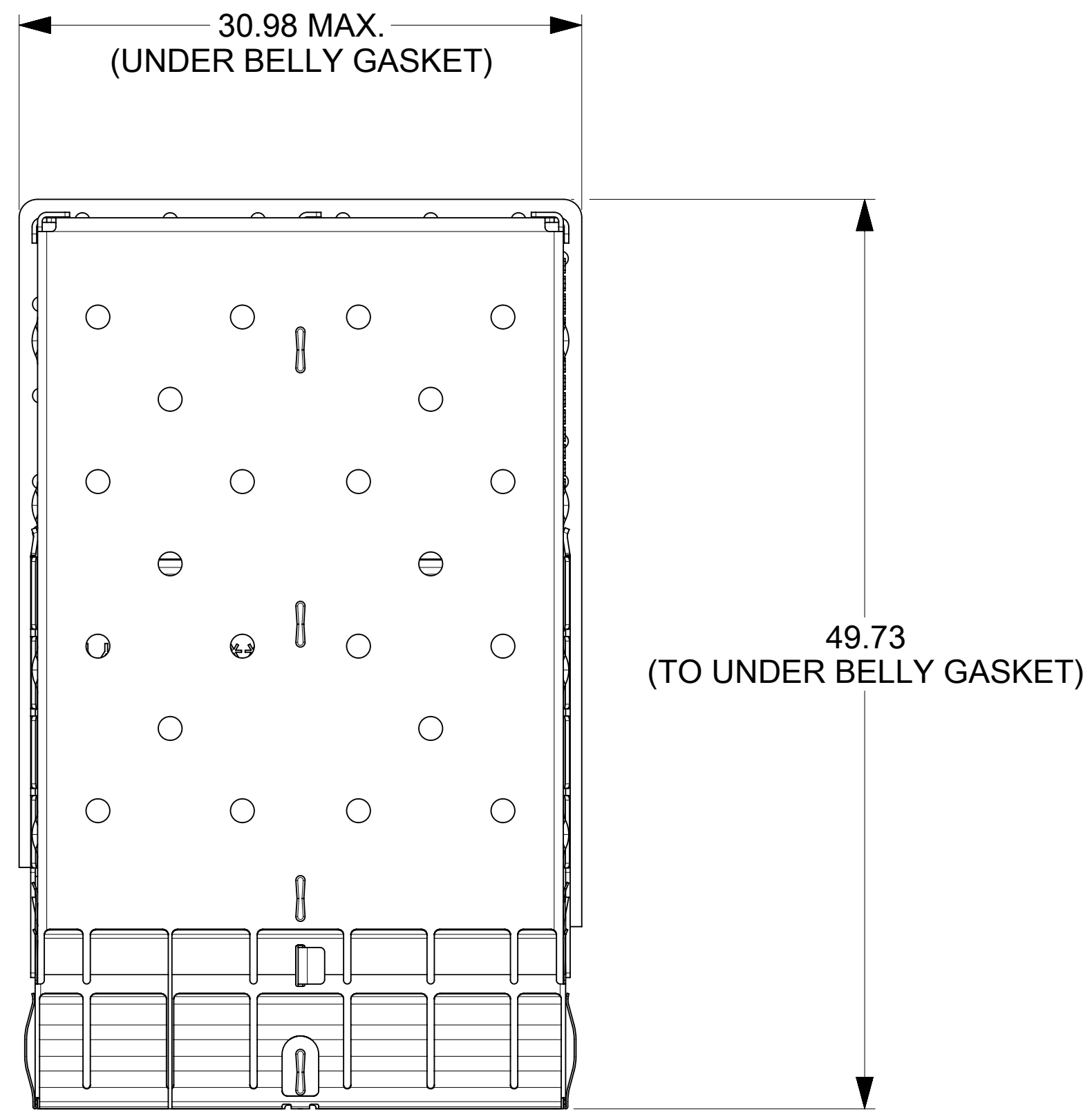
DIMENSION UNITS <b>mm</b>	SCALE <b>3:1</b>	CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.	
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 680890	
	MM	INCH	2021/06/24
4 PLACES	±	±	DRWN: SANTHN
3 PLACES	±	±	CHK'D: GGA
2 PLACES	± 0.13	±	APPR: GGA
1 PLACE	± 0.25	±	2021/11/25
0 PLACES	±	±	INITIAL REVISION:
ANGULAR TOL	± °		DRWN: JERWIN
			2013/11/21
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
		<b>D-SIZE</b>	<b>111112</b>
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
<b>SD-11112-2220</b>		GENERAL MARKET	<b>2 OF 8</b>

**molex**

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

PRODUCT CUSTOMER DRAWING

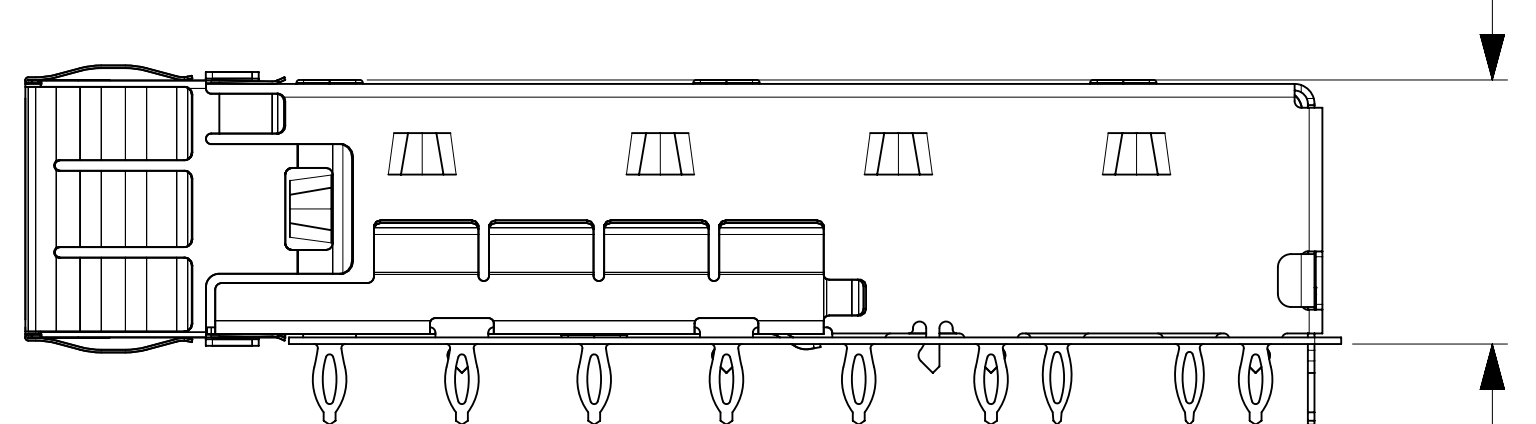
DOCUMENT NUMBER: **SD-11112-2220**  
DOC TYPE: PSD  
DOC PART: 001  
REVISION: J



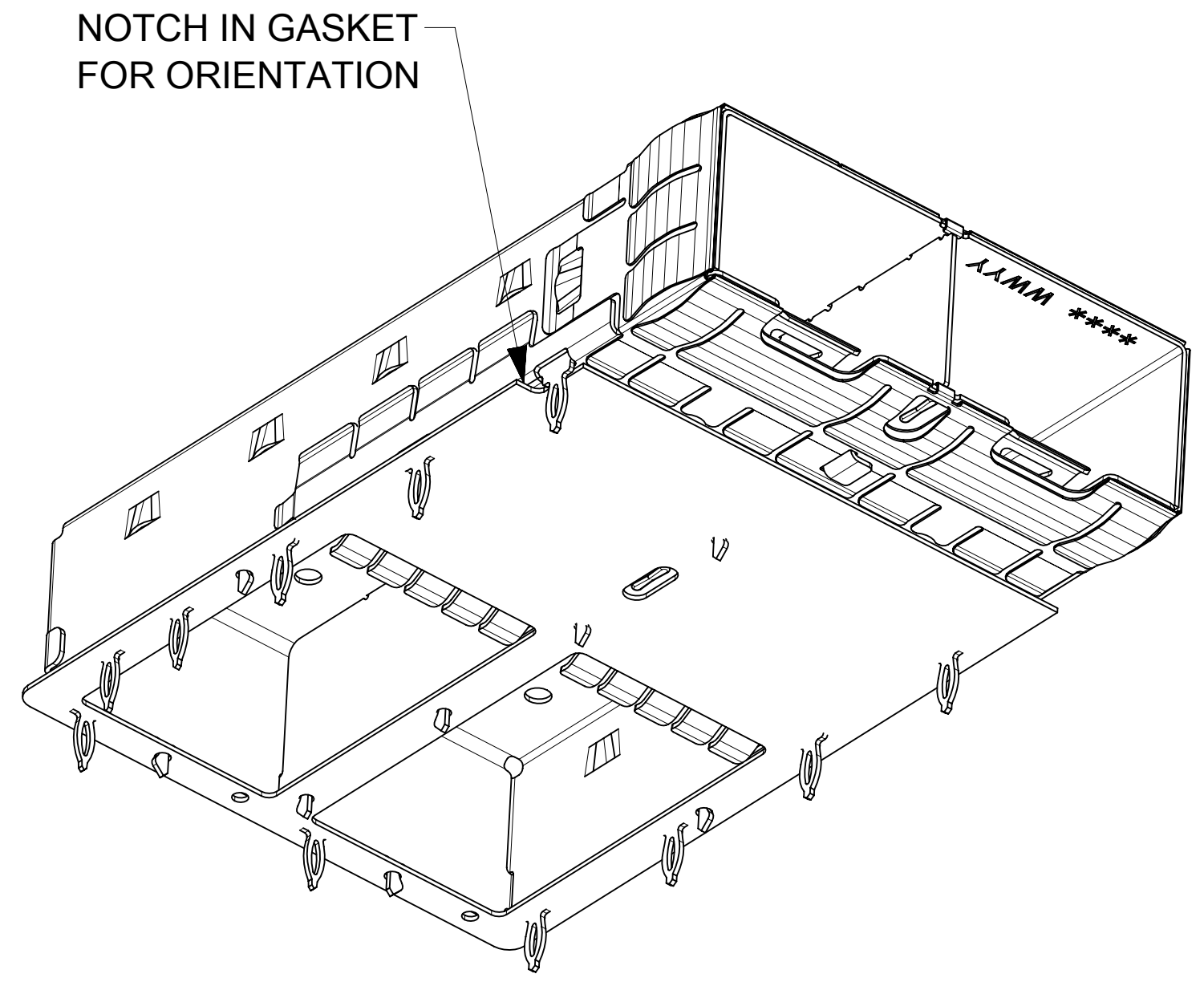
### OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

1001130220

SHOWN



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

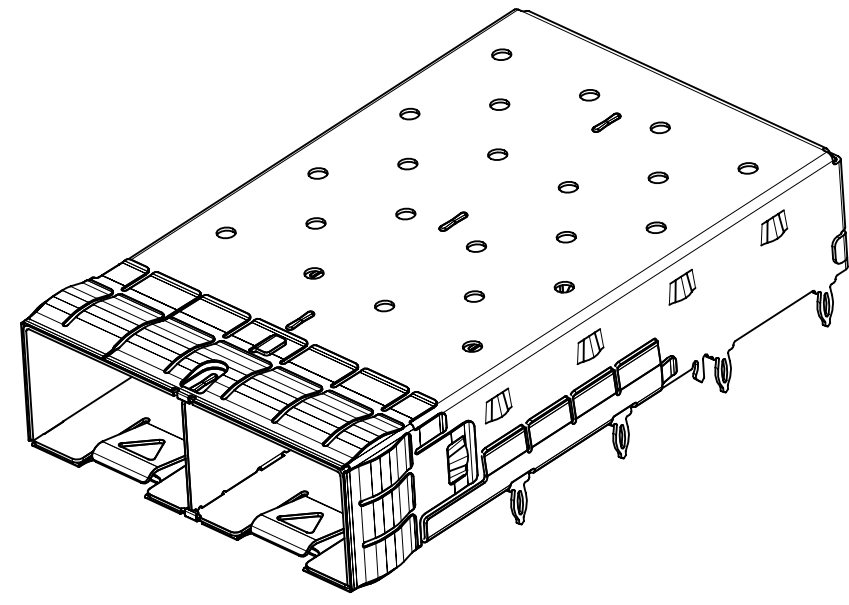


NOTE:  
1. UNDER BELLY GASKET IS UL94 V-0 RATED

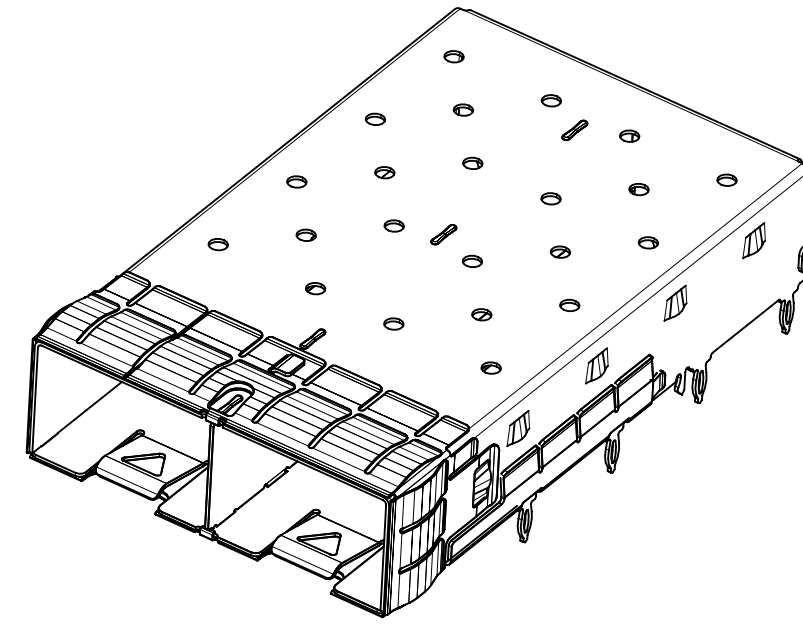
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS <b>mm</b>		SCALE <b>3.5:1</b>		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.		<p>SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS</p> <p>PRODUCT CUSTOMER DRAWING</p>					
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890						DOC TYPE	
		MM		INCH		DRWN: SANTHN		2021/06/24			
4 PLACES		±		±		CHK'D: GGA		2021/11/25			
3 PLACES		±		±		APPR: GGA		2021/11/25			
2 PLACES		±		0.13		INITIAL REVISION:					
1 PLACE		±		0.25		DRWN: JERWIN		2013/11/21			
0 PLACES		±		±		APPR:					
ANGULAR TOL		±		°		THIRD ANGLE PROJECTION		DRAWING		SERIES	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						D-SIZE		111112		MATERIAL NUMBER	
						SEE SHEET 4		CUSTOMER		SHEET NUMBER	
						GENERAL MARKET				3 OF 8	

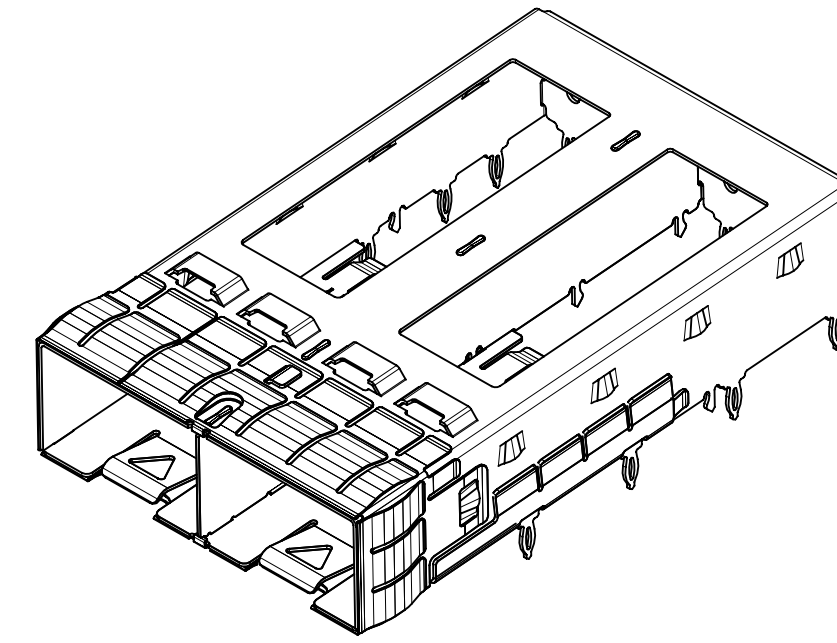
PART NUMBER SELECTION



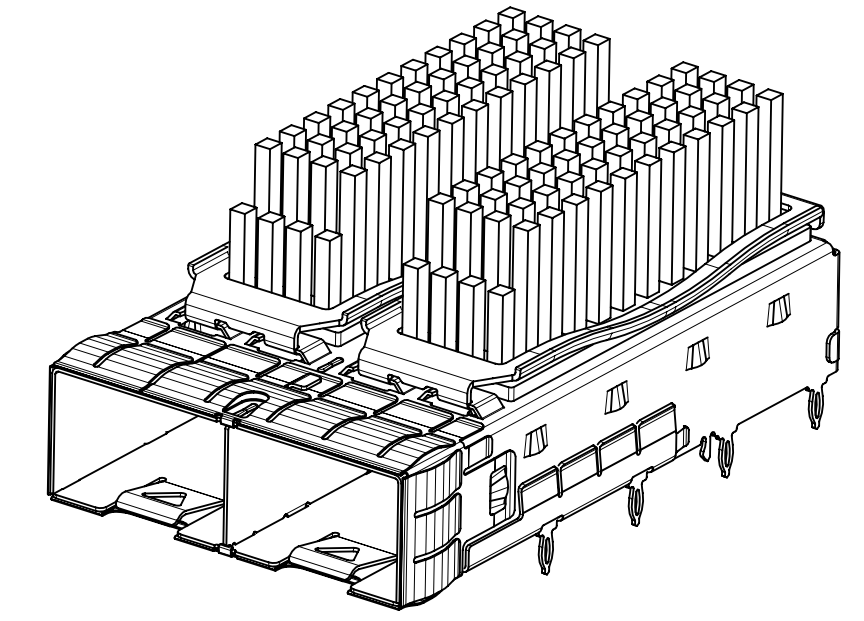
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



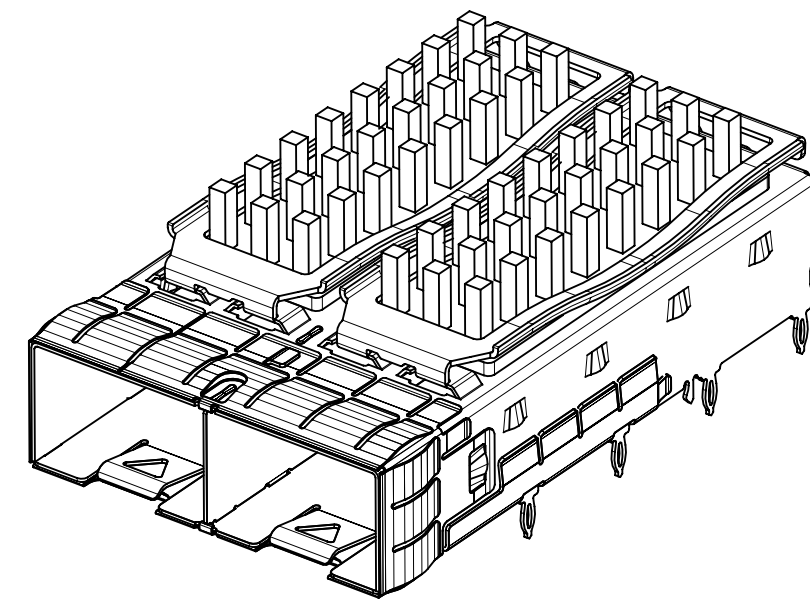
zSFP+ GEN 2 CLOSED TOP	
PART NO.	
1001130220	



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	SCALE
mm	2:1

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

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

EC NO: 680890  
 DRWN: SANTHN 2021/06/24  
 CHK'D: GGA 2021/11/25  
 APPR: GGA 2021/11/25  
 INITIAL REVISION:  
 DRWN: JERWIN 2013/11/21  
 APPR:

**molex**

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

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-11112-2220	PSD	001	J

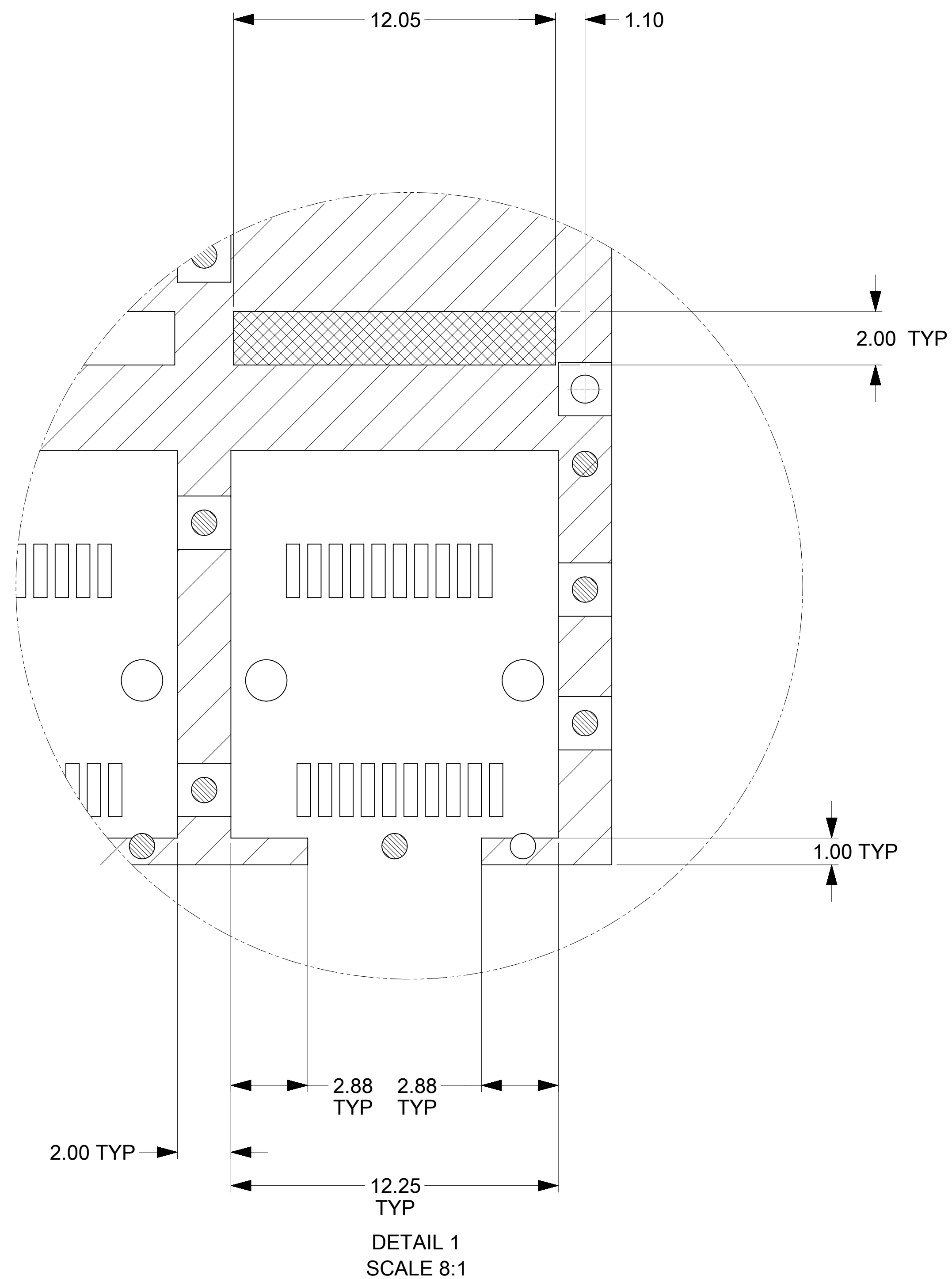
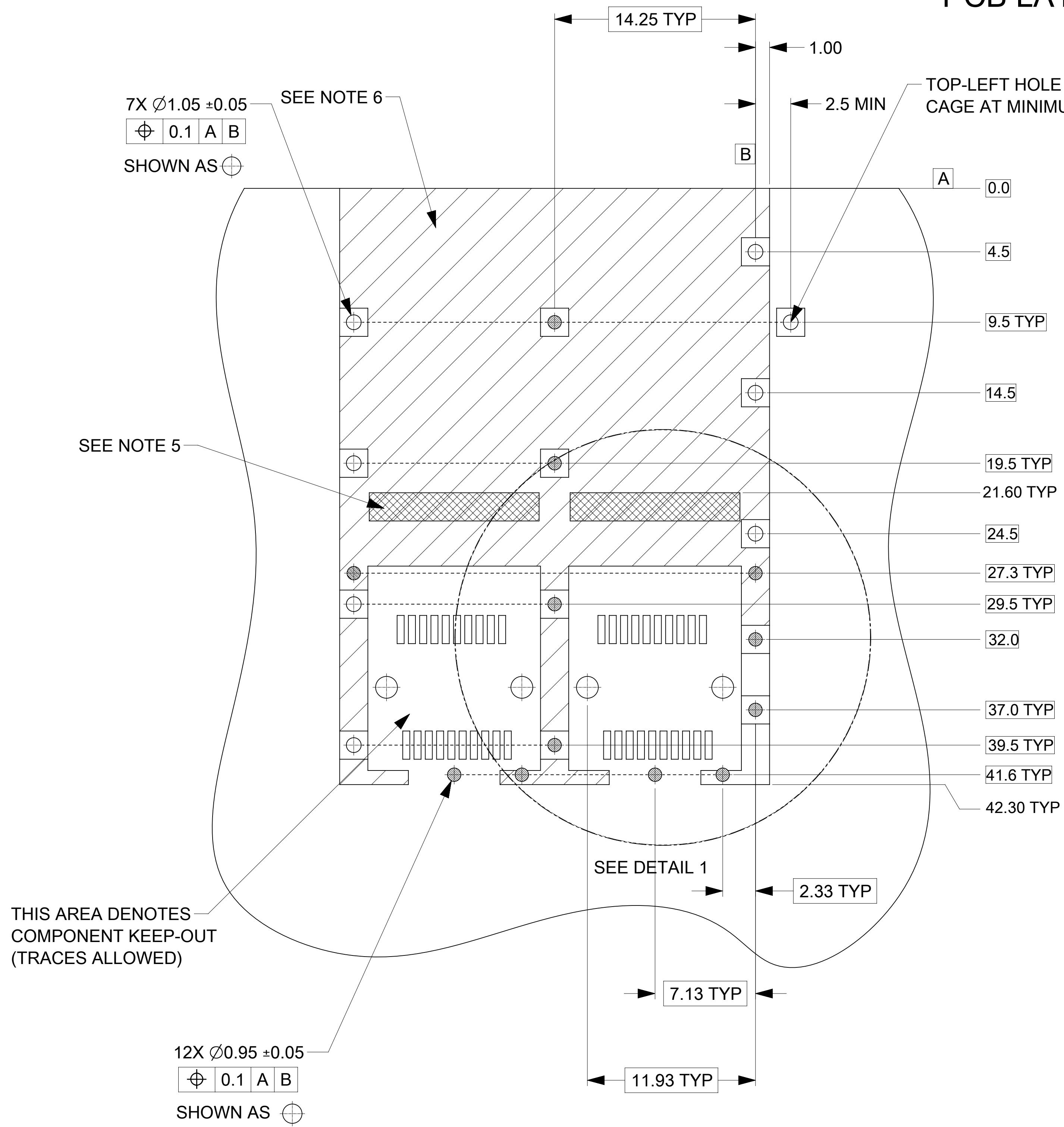
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING D-SIZE

SERIES 111112  
 MATERIAL NUMBER SEE SHEET 4  
 CUSTOMER GENERAL MARKET  
 SHEET NUMBER 4 OF 8

# PCB LAYOUT - SINGLE SIDE ONLY



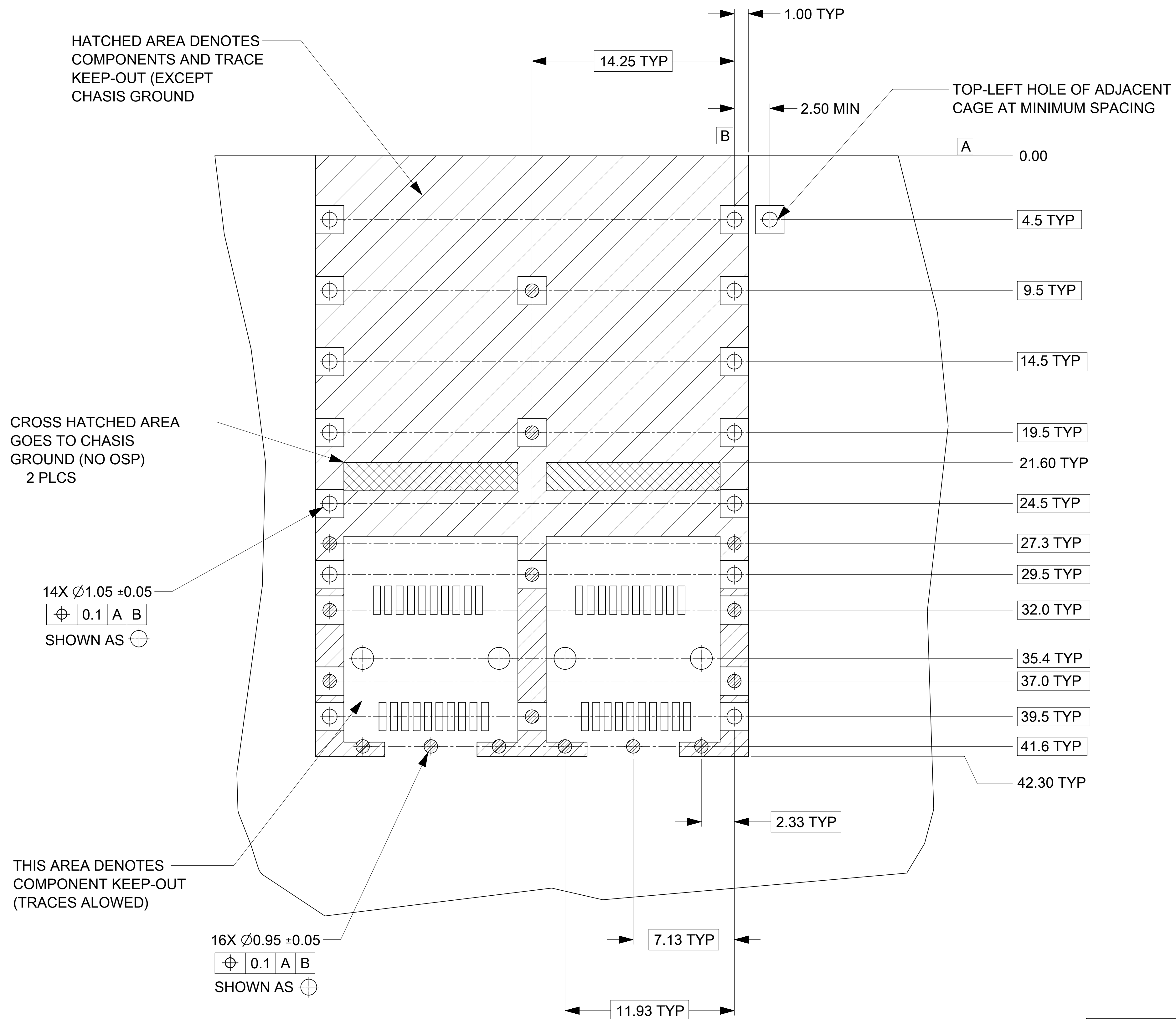
**NOTES:**

- PADS AND VIAS CONNECT TO CHASSIS GROUND  
RECOMMEND PADS TO BE 2.00mm SQUARE
- RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
- CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
- SPACING BETWEEN PORTS IS 14.25mm
- CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
- HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
- 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 <b>mm</b>		SCALE <b>5:1</b>		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.		<b>molex</b>	
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890			
4 PLACES ±		±		DRWN: SANTHN 2021/06/24		PRODUCT CUSTOMER DRAWING	
3 PLACES ±		±		CHK'D: GGA 2021/11/25		DOCUMENT NUMBER	
2 PLACES ±		0.13 ±		APPR: GGA 2021/11/25		DOC PART	
1 PLACE ±		0.25 ±		INITIAL REVISION:		REVISION	
0 PLACES ±		±		DRWN: JERWIN 2013/11/21		SD-111112-2220	
ANGULAR TOL ± °		± °		APPR:		PSD 001 J	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES	
		D-SIZE		111112		MATERIAL NUMBER	
				SEE SHEET 4		CUSTOMER	
				GENERAL MARKET		SHEET NUMBER	
				5 OF 8			

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING



HATCHED AREA DENOTES COMPONENTS AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

CROSS HATCHED AREA GOES TO CHASSIS GROUND (NO OSP) 2 PLCS

14X Ø1.05 ±0.05  
 ⊕ 0.1 A B  
 SHOWN AS ⊕

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

16X Ø0.95 ±0.05  
 ⊕ 0.1 A B  
 SHOWN AS ⊕

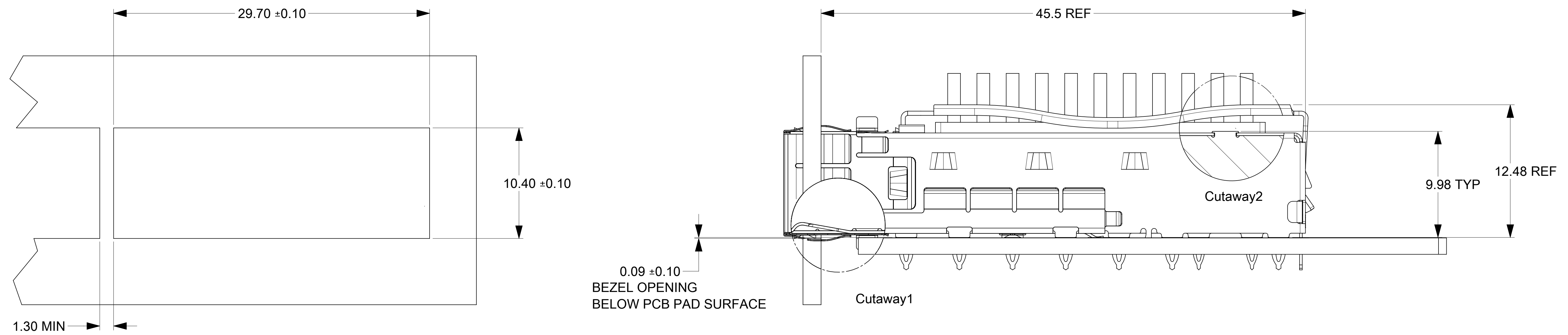
NOTE:  
 SEE SHEET 5 FOR HOST CONNECTOR DETAIL

- 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.

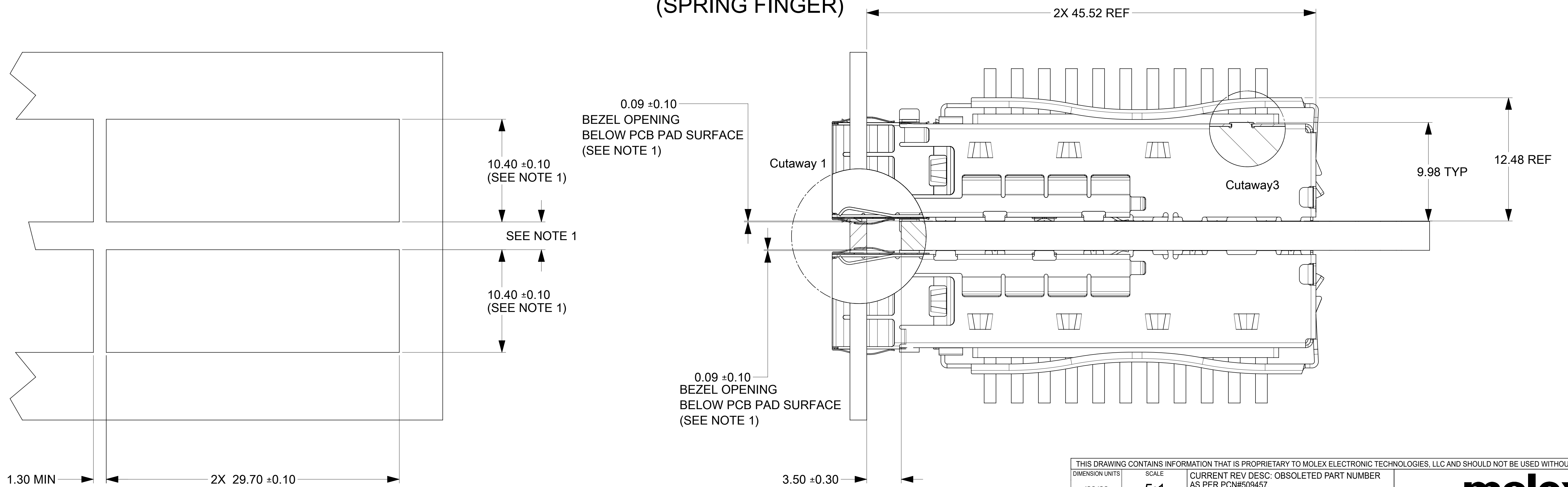
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NUMBER AS PER PCN#509457.						SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS									
mm		6:1																	
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 680890		2021/06/24		PRODUCT CUSTOMER DRAWING											
		MM		INCH															
4 PLACES		±		±		DRWN: SANTHN		2021/11/25		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
3 PLACES		±		±		CHK'D: GGA		2021/11/25											
2 PLACES		±		0.13		±		APPR: GGA		2021/11/25		SD-11112-2220		PSD		001		J	
1 PLACE		±		0.25		±		INITIAL REVISION:		2013/11/21		SEE SHEET 4		GENERAL MARKET		6 OF 8			
0 PLACES		±		±		±		DRWN: JERWIN											
ANGULAR TOL		±		°				APPR:											
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					



# BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING (SPRING FINGER)



# BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING (SPRING FINGER)



- NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING SIZE AND LOCATION.
  2. CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB.

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	5:1		
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
			D-SIZE
		SERIES	111112
		MATERIAL NUMBER	SEE SHEET 4
		CUSTOMER	GENERAL MARKET
		SHEET NUMBER	7 OF 8
		EC NO: 680890	2021/06/24
		DRWN: SANTHN	2021/11/25
		CHK'D: GGA	2021/11/25
		APPR: GGA	
		INITIAL REVISION:	
		DRWN: JERWIN	2013/11/21
		APPR:	
		DOCUMENT NUMBER	SD-111112-2220
		DOC TYPE	PSD
		DOC PART	001
		REVISION	J
DOCUMENT STATUS	P1	RELEASE DATE	2021/11/25 12:19:18

**molex**

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

PRODUCT CUSTOMER DRAWING

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

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 INDICATING 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.

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