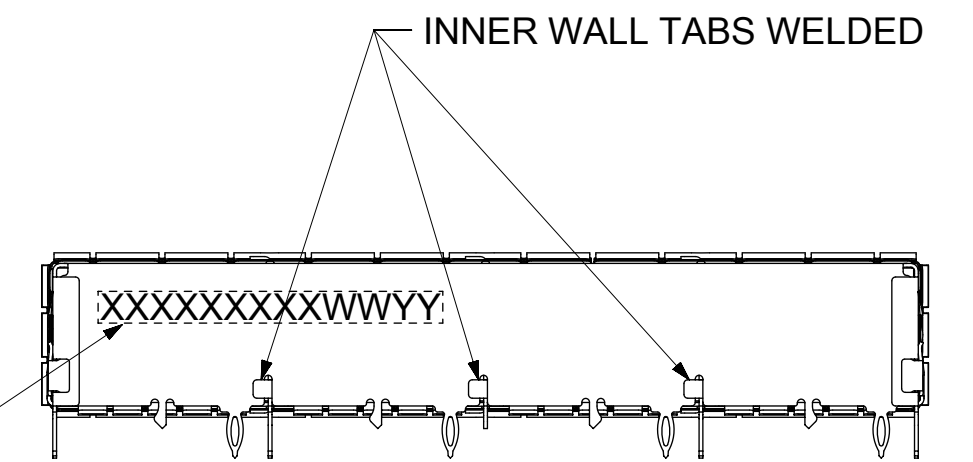
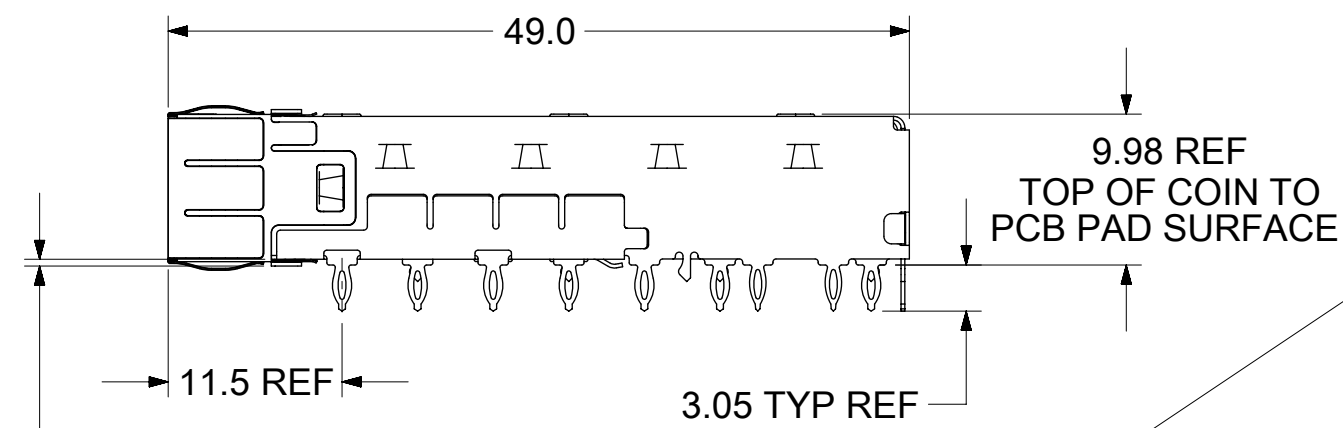
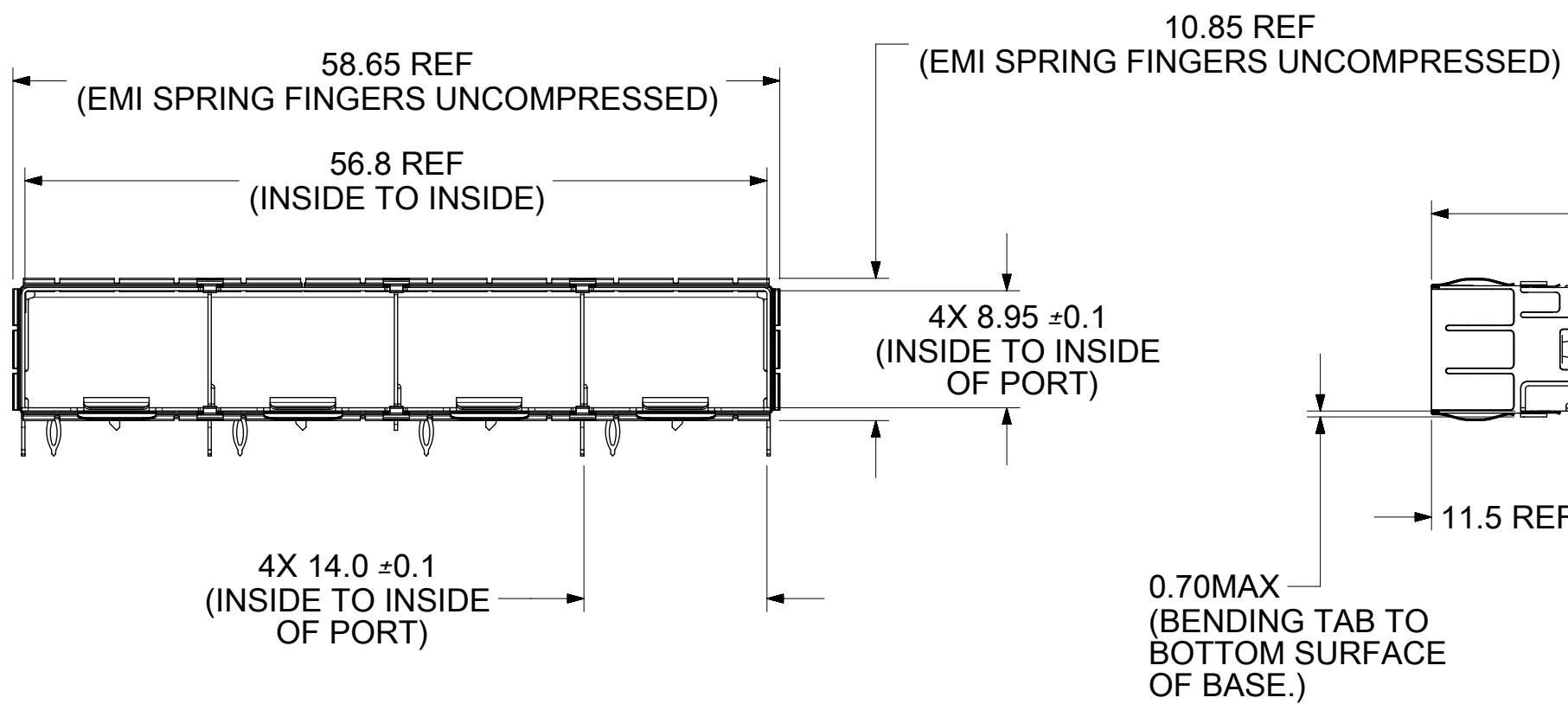
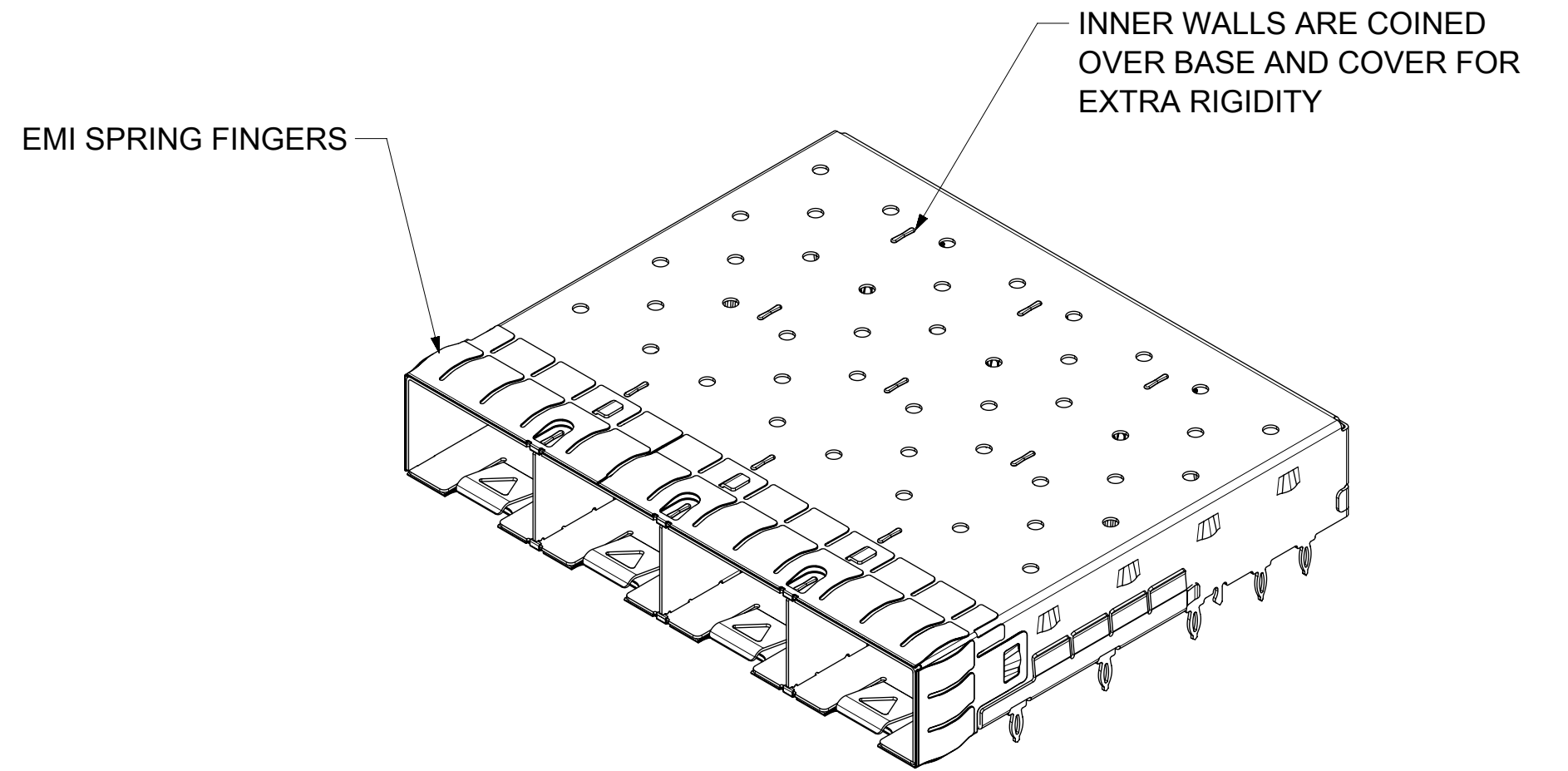
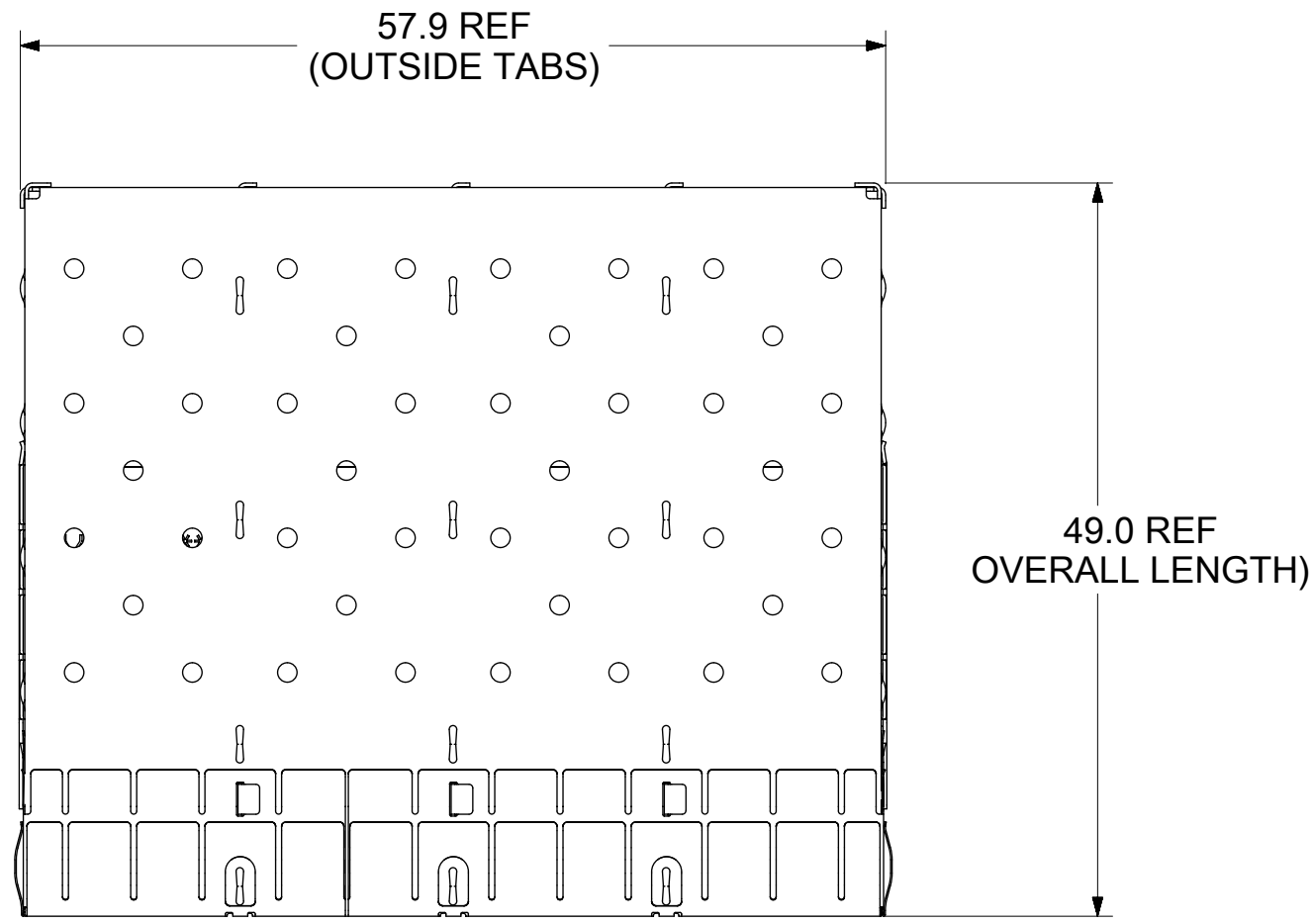


BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)

747540420

SHOWN



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN ON 74754 SERIES CAGE ASSEMBLIES.

NOTES:

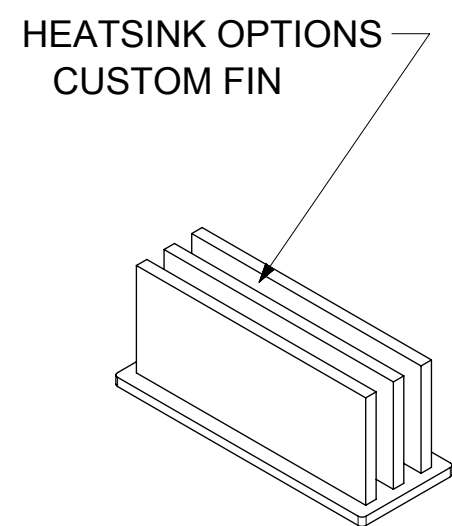
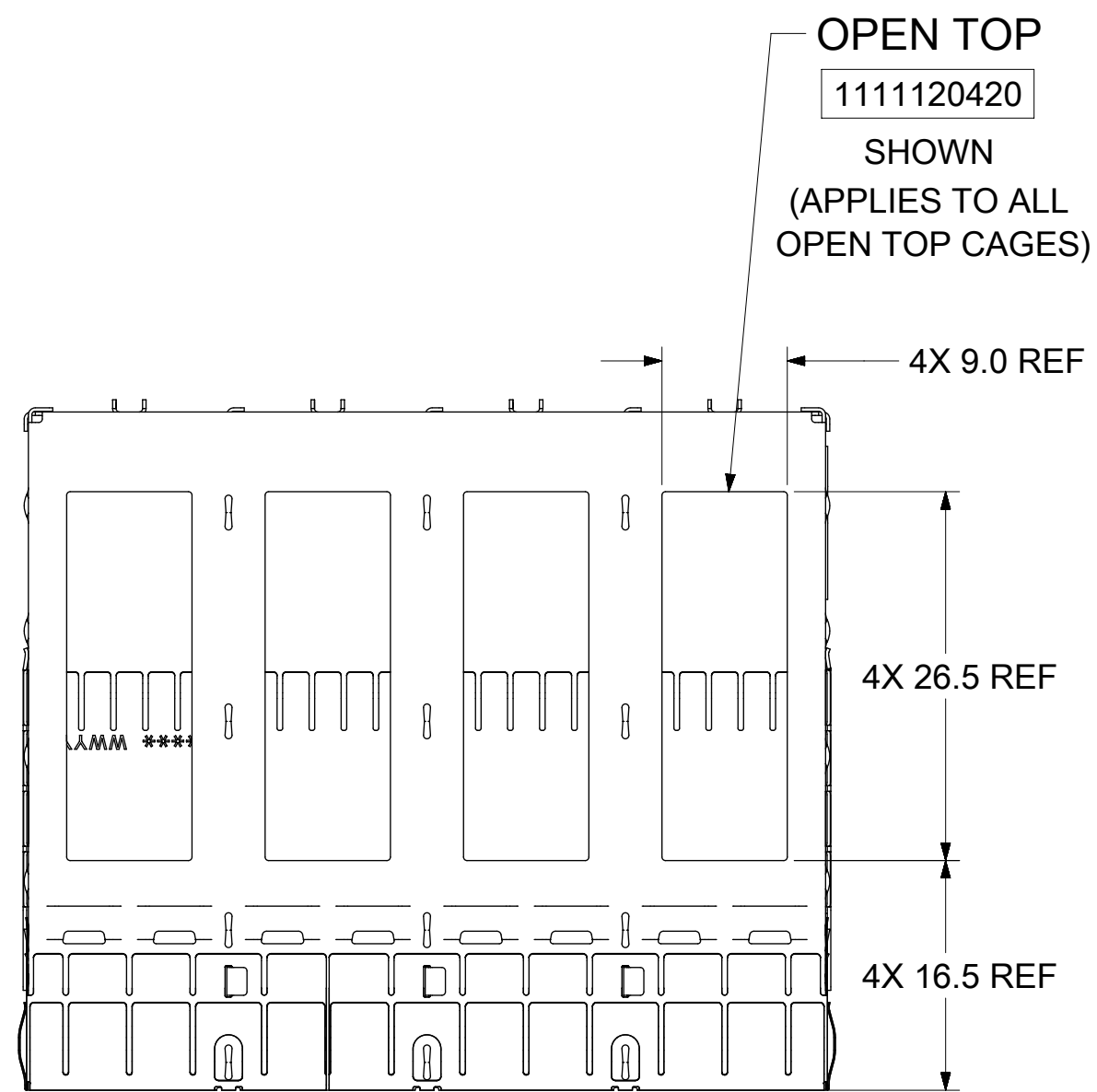
- MATERIAL:
CAGE: 0.25mm THICK COPPER ALLOY, NICKEL PLATED.
SPRING FINGERS: 0.10mm THICK COPPER ALLOY, NICKEL PLATED.
HEATSINK: ALUMINUM, NICKEL PLATED.
HEATSINK SPRING CLIP: STAINLESS STEEL.
- PRESS FIT LEGS 3.05mm LONG:
- PORTS ARE DESIGNED FOR SFP+ TRANSCEIVERS AND ARE COMPATIBLE WITH SFP TRANSCEIVERS.
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	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	19, 20, 21,, ETC. EXAMPLE: YEAR 2019 = 19

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:						
▽ = 0	mm	2:1	EC NO: 627930 DRWN: VK10 2019/10/04 CHK'D: TKUMARKC 2019/11/22 APPR: JCHIANG 2019/11/25 INITIAL REVISION: DRWN: VK10 2016/06/02 APPR: RCHEN08 2016/08/04						
▽ / = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)								
▽ = 0	ANGULAR TOL ± 1.0°		PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: 111122420 DOC TYPE: PSD DOC PART: ASY REVISION: M1						
▽ = 0	4 PLACES ±								
▽ = 0	3 PLACES ±		MATERIAL NUMBER: SEE SHEET 3 CUSTOMER:						
▽ = 0	2 PLACES ± 0.15								
▽ = 0	1 PLACE ± 0.25		THIRD ANGLE PROJECTION		DRAWING		SERIES		SHEET NUMBER
☒ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		C-SIZE		111112		1 OF 8		

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/25	04:18:16
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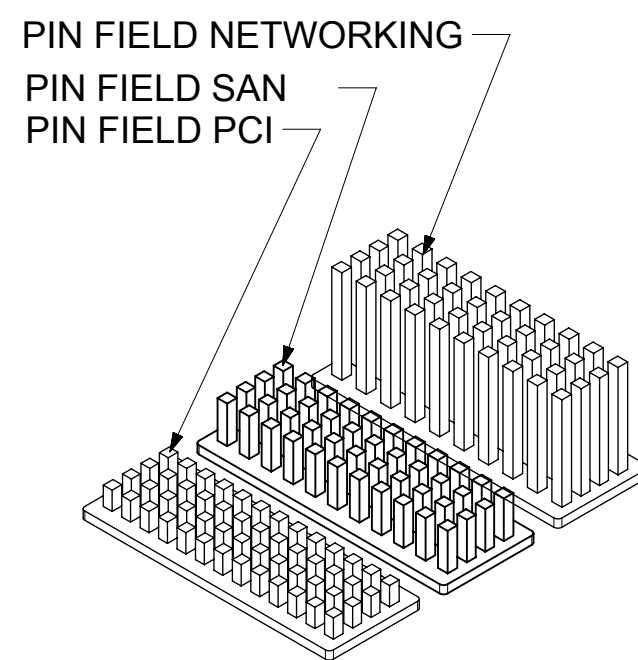
CAGE ASSEMBLY OPTIONS



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

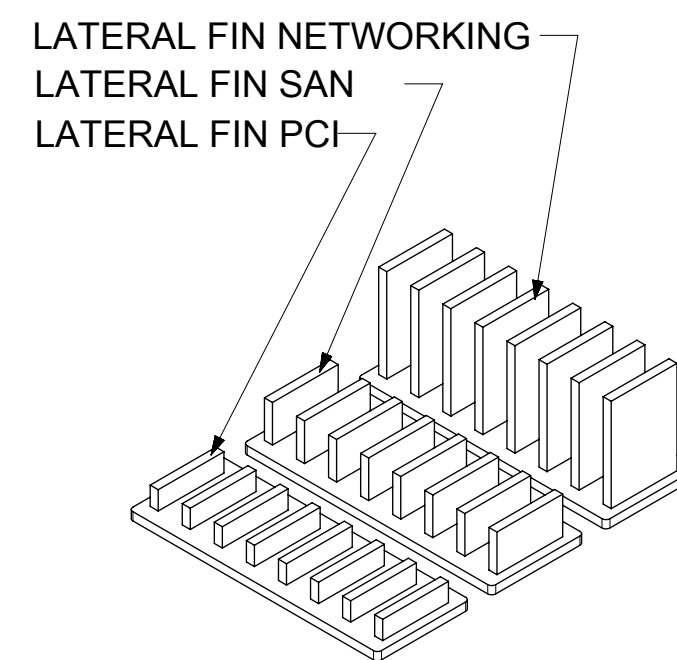
HEATSINK OPTIONS



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

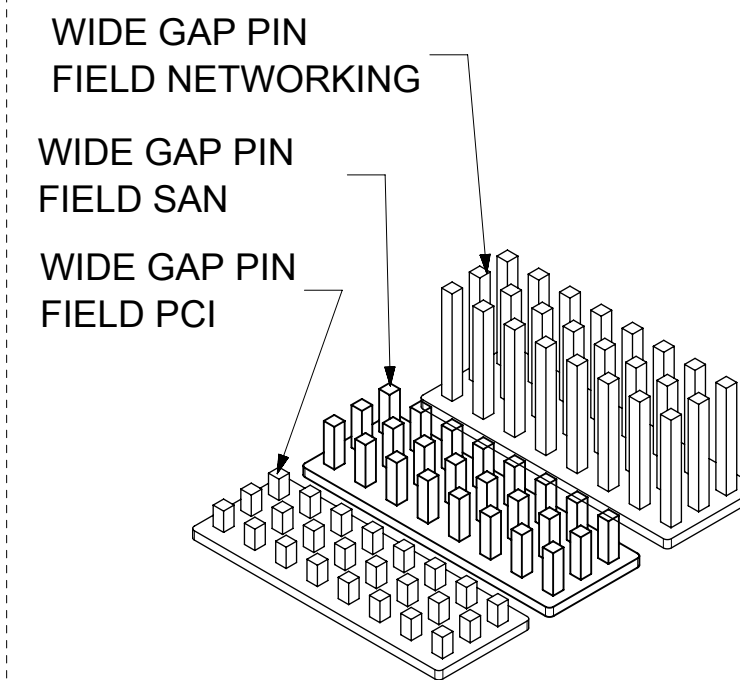
HEATSINK OPTIONS



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

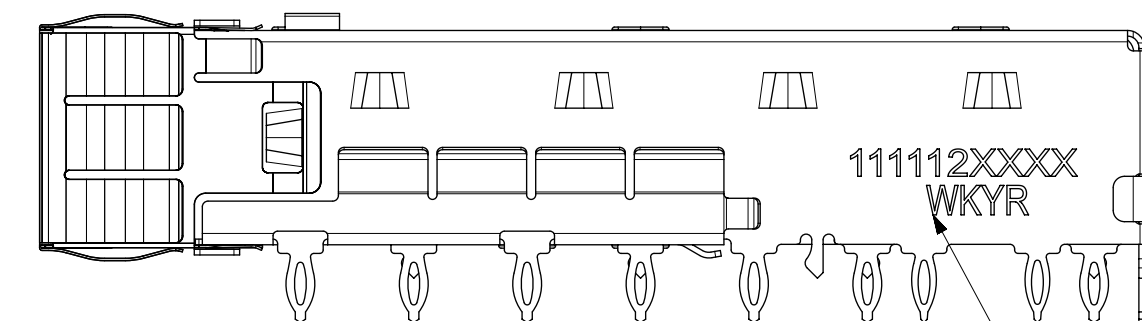
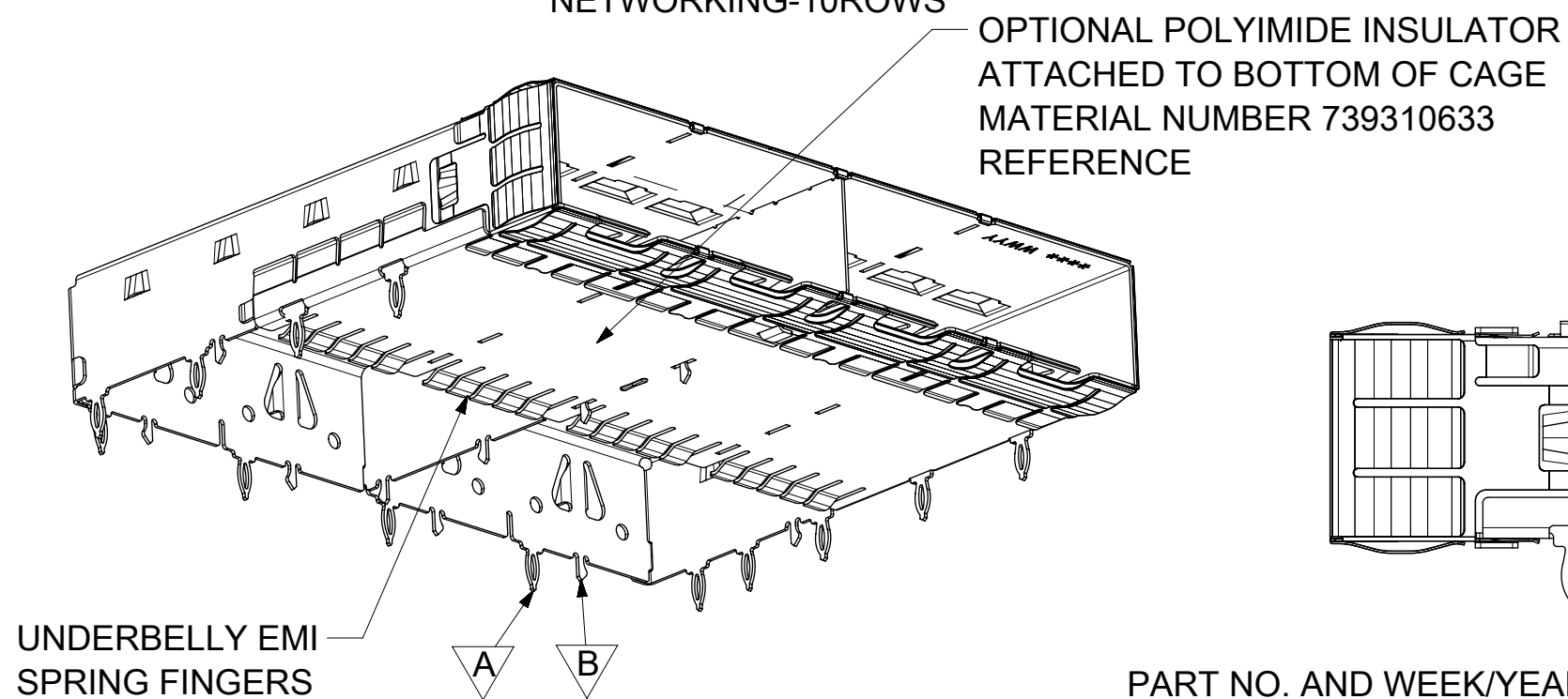
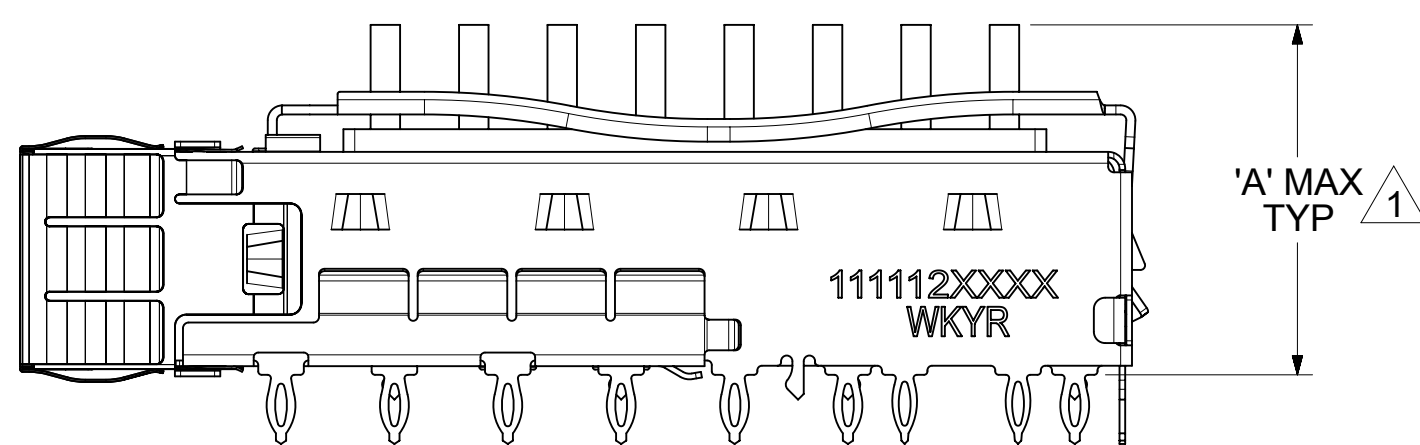
HEATSINK OPTIONS



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6
CUSTOM	13.7

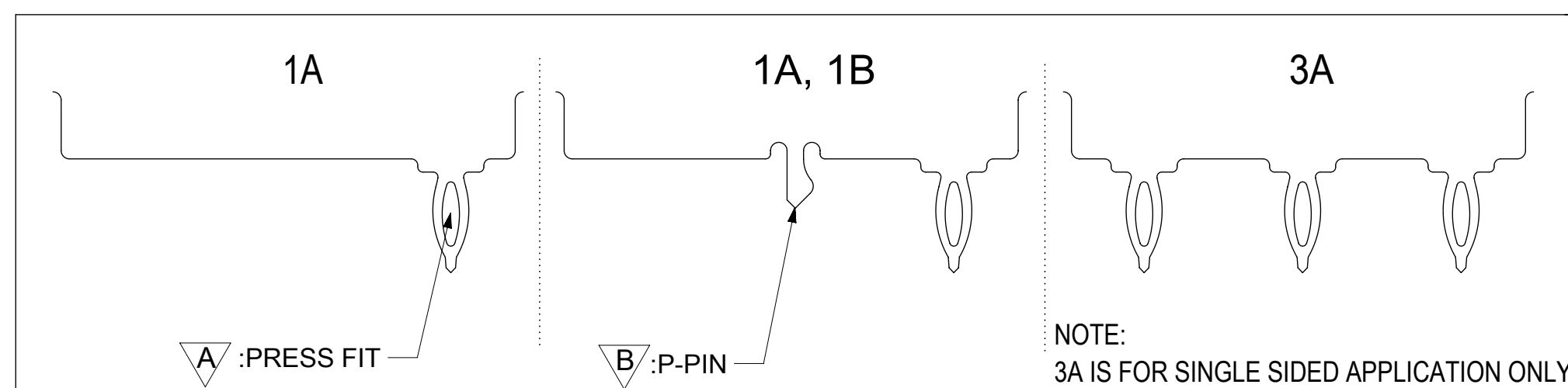
NOTE: PCI-13ROWS
SAN-11ROWS
NETWORKING-10ROWS



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 11112 SERIES CAGE ASSEMBLIES.

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

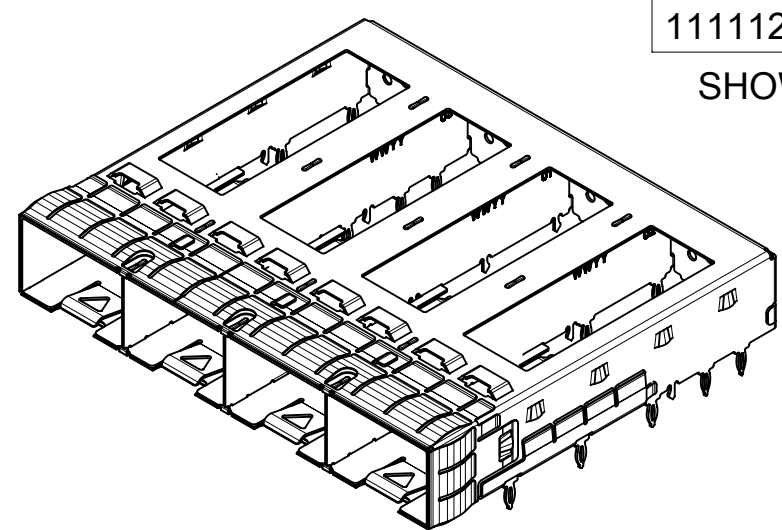
REAR LEG OPTIONS (PER PORT)



WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	19, 20, 21,, ETC. EXAMPLE: YEAR 2019 = 19

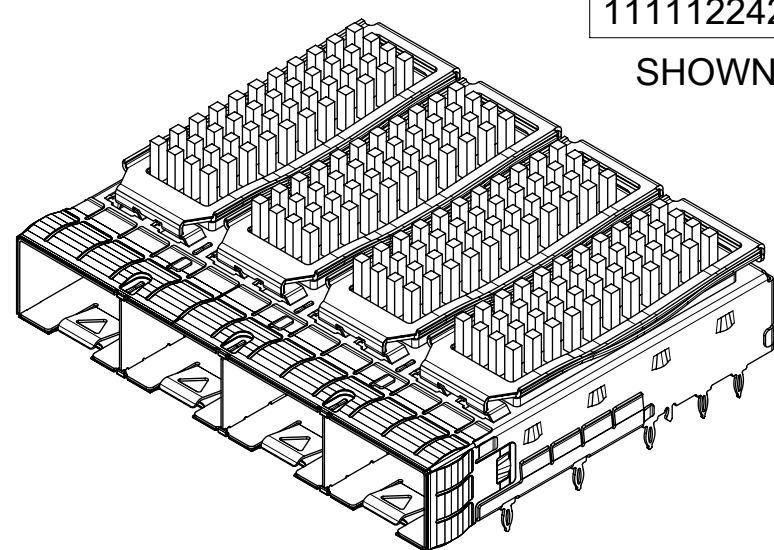
SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex	
▽ = 0	mm	SCALE	2:1	EC NO: 627930		SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DRWN: VK10 2019/10/04		DRWN: VK10 2019/10/04			
▽ = 0	ANGULAR TOL ± 1.0°	CHK'D: TKUMARKC 2019/11/22		CHK'D: TKUMARKC 2019/11/22			
▽ = 0	4 PLACES ±	APPR: JCHIANG 2019/11/25		APPR: JCHIANG 2019/11/25		PRODUCT CUSTOMER DRAWING	
▽ = 0	3 PLACES ±	INITIAL REVISION:		DRWN: VK10 2016/06/02		DOCUMENT NUMBER	
▽ = 0	2 PLACES ± 0.15	DRWN: VK10 2016/08/04		APPR: RCHEN08 2016/08/04		DOC TYPE DOC PART REVISION	
▽ = 0	1 PLACE ± 0.25	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		111122420 PSD ASY M1	
▽ = 0	0 PLACES ±	DRAWING		SERIES		MATERIAL NUMBER CUSTOMER SHEET NUMBER	
▽ = 0		C-SIZE		111112		SEE SHEET 3 2 OF 8	

PART NUMBER SELECTION



1111120420
SHOWN

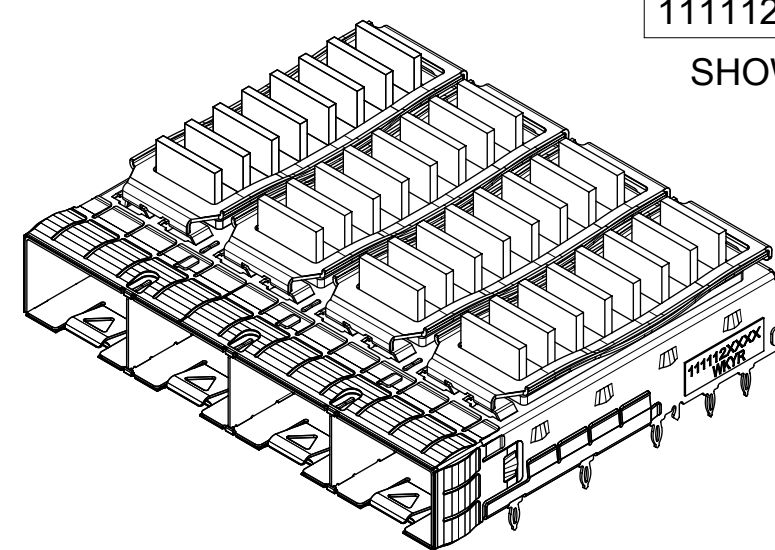
SFP+ OPEN TOP BASE CAGE FOR HEATSINK		
PART NO.	POLYIMIDE INSULATOR	# OF REAR LEGS PER PORT
1111120420	---	1A, 1B
1111120460	YES	1A, 1B
1111120494	---	1A, 1B



1111122420
SHOWN

SFP+ PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111121420	---	PCI	1A, 1B
1111121460	YES	PCI	1A, 1B
1111122420	---	SAN	1A, 1B
1111122460	YES	SAN	1A, 1B
1111123420	---	NET	1A, 1B
1111123460	YES	NET	1A, 1B

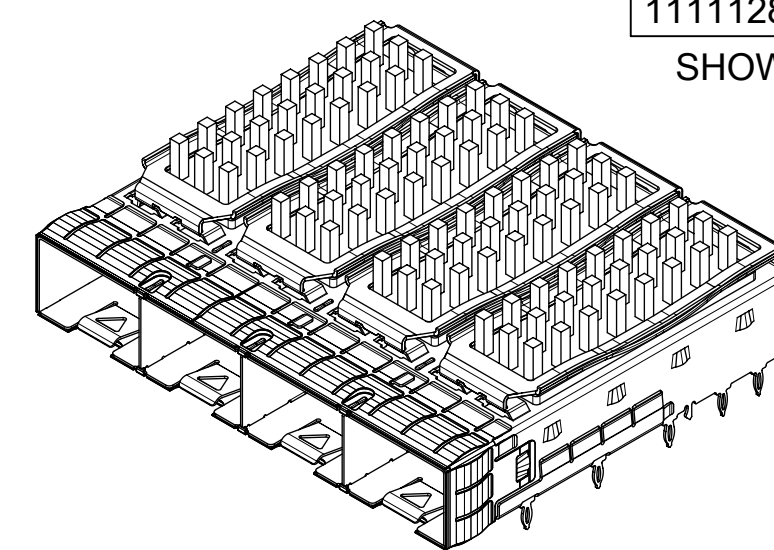
NOTE: PCI-13ROWS
SAN-11ROWS
NET-10ROWS



1111125420
SHOWN

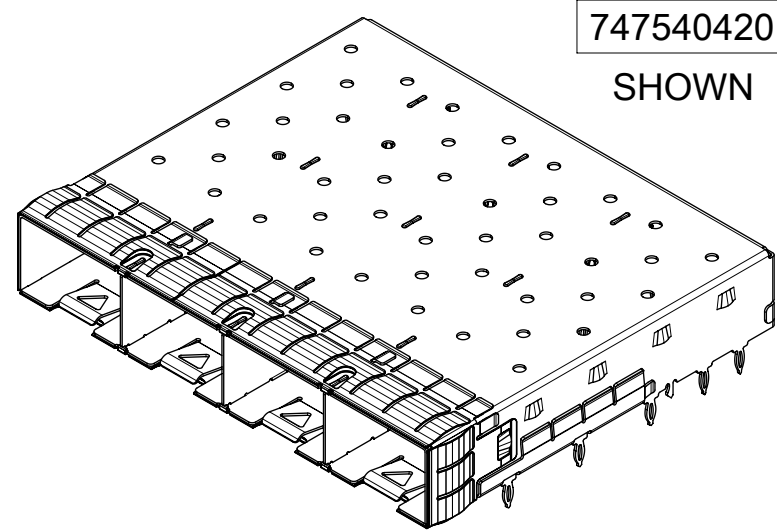
SFP+ LATERAL FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111124420	---	PCI	1A, 1B
1111124460	YES	PCI	1A, 1B
1111125420	---	SAN	1A, 1B
1111125421	---	SAN(*)	1A, 1B
1111125460	YES	SAN	1A, 1B
1111126420	---	NET	1A, 1B
1111126460	YES	NET	1A, 1B

NOTE: (*)FAR LOW CAST



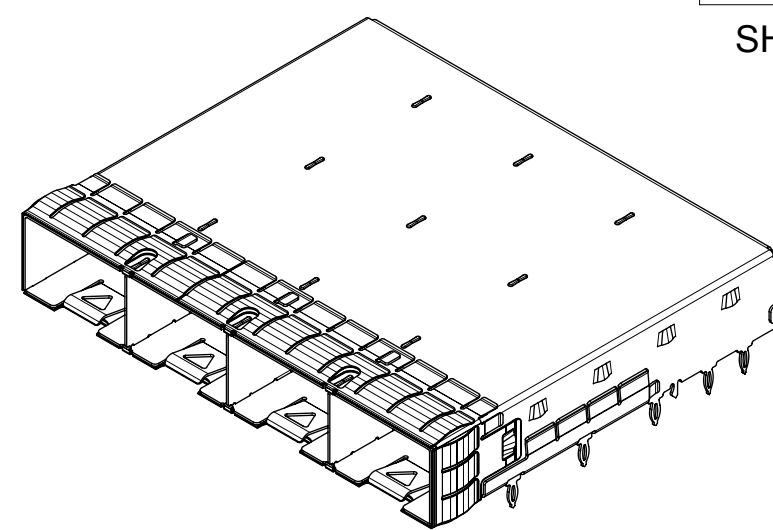
1111128420
SHOWN

SFP+ WIDE GAP PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111127420	---	PCI	1A, 1B
1111127460	YES	PCI	1A, 1B
1111128420	---	SAN	1A, 1B
1111128460	YES	SAN	1A, 1B
1111129420	---	NET	1A, 1B
1111129460	YES	NET	1A, 1B
1111127421	---	CUSTOM	1A, 1B



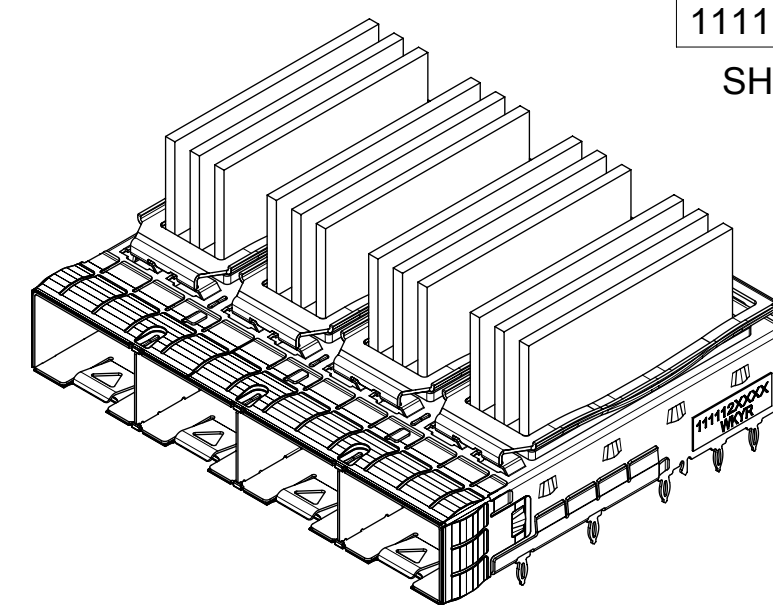
747540420
SHOWN

SFP+ OPEN TOP BASE CAGE FOR HEATSINK				
PART NO.	POLYIMIDE INSULATOR	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540420	---	6	1A, 1B	----
747540422	---	6	3A	----
747540423	---	19	1A, 1B	----
747540427	YES	6	1A, 1B	----
(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)				
747540464	---	6	1A, 1B	OVER ALL: MAT TIN PLATED 2.0μM MIN.



747540426
SHOWN

SFP+ CLOSED TOP BASE CAGE			
PART NO.	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540426	6 (15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)	1A, 1B	OVER ALL: MAT TIN PLATED 2.0μM MIN.

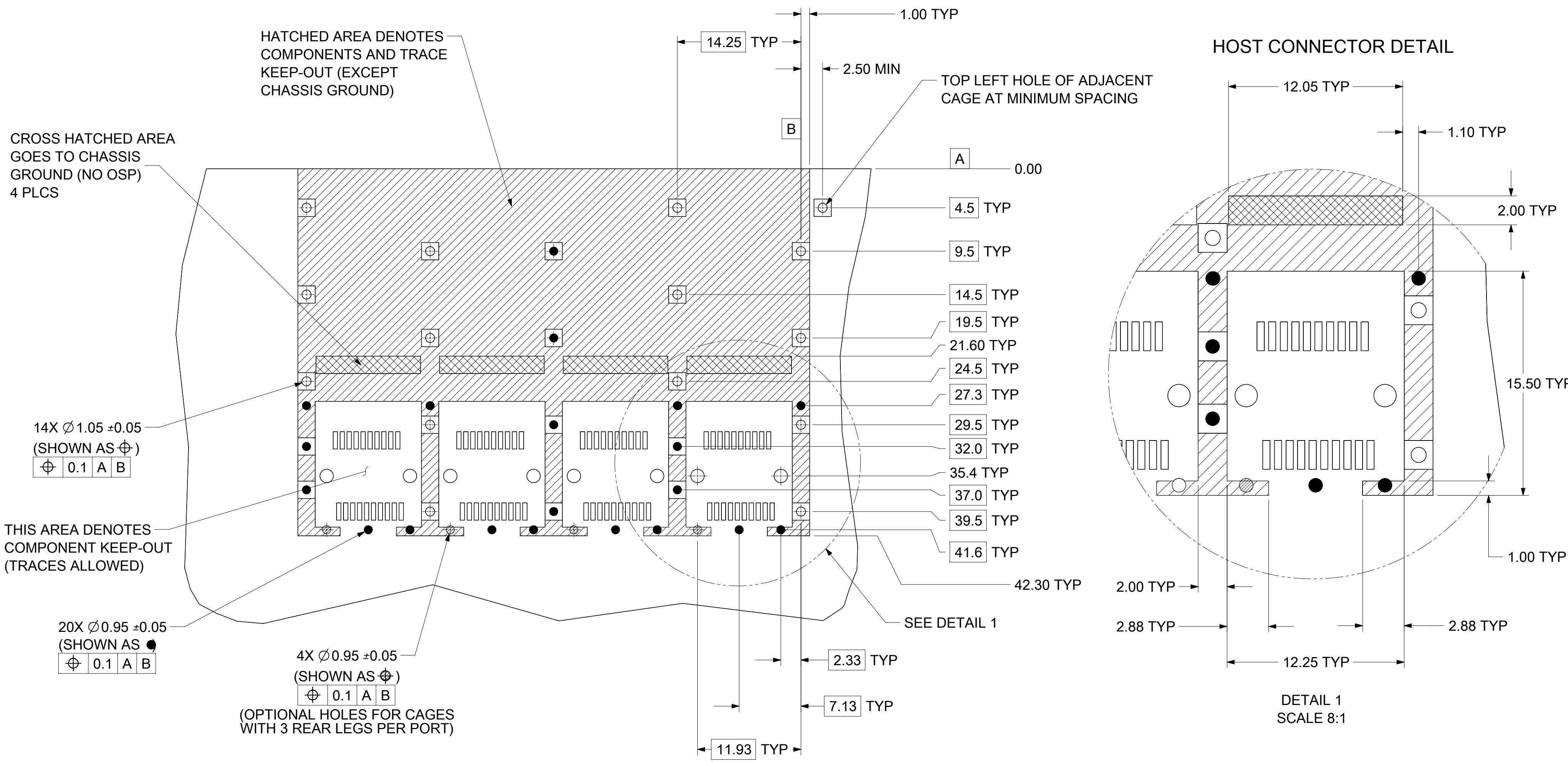


1111126421
SHOWN

SFP+ CUSTOM FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111126421	---	CUSTOM	1A, 1B

SYMBOLS DIMENSION UNITS: mm SCALE: 4:3 GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL: ± 1.0° 4 PLACES: ± 3 PLACES: ± 2 PLACES: ± 0.15 1 PLACE: ± 0.25 0 PLACES: ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		CURRENT REV DESC: EC NO: 627930 DRWN: VK10 2019/10/04 CHK'D: TKUMARKC 2019/11/22 APPR: JCHIANG 2019/11/25 INITIAL REVISION: DRWN: VK10 2016/06/02 APPR: RCHEN08 2016/08/04			
	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: 1111122420 DOC TYPE: PSD DOC PART: ASY REVISION: M1		SHEET NUMBER: 3 OF 8			
DOCUMENT STATUS: P1 RELEASE DATE: 2019/11/25 04:18:16	THIRD ANGLE PROJECTION		DRAWING: C-SIZE	SERIES: 111112	MATERIAL NUMBER: SEE TABLE	CUSTOMER:

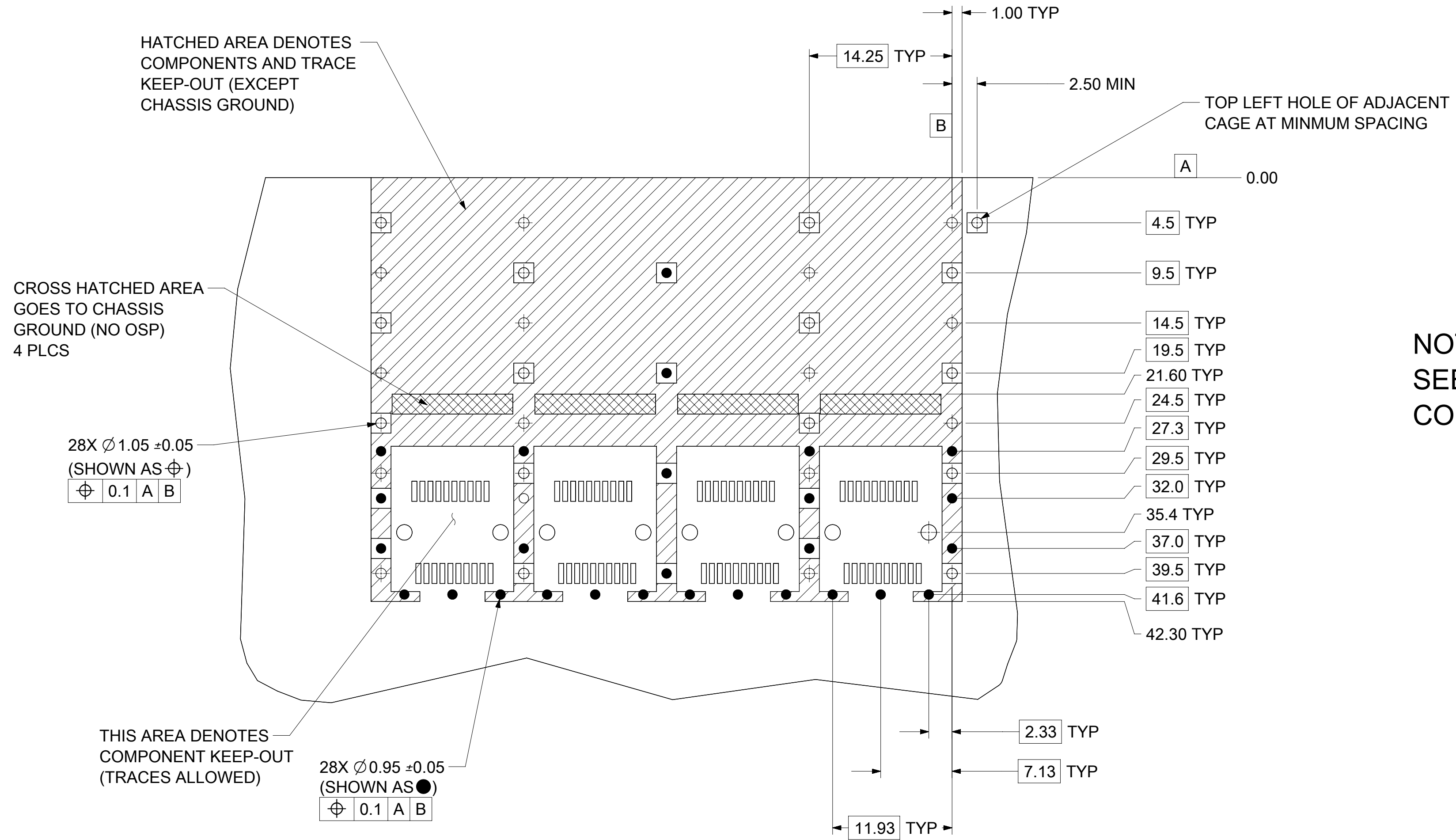
PCB LAYOUT FOR SINGLE SIDE MOUNT



- NOTES:
- PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED 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 ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
 - HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
 - MINIMUM PCB THICKNESS FOR SINGLE SIDED USE 1.57mm.

SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
$\nabla = 0$	DIMENSION UNITS	SCALE	CURRENT REV DESC:
$\nabla = 0$	mm	3:1	EC NO: 627930
$\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: VK10 2019/10/04
$\nabla = 0$	ANGULAR TOL $\pm 1.0^\circ$		CHK'D: TKUMARKC 2019/11/22
$\nabla = 0$	4 PLACES	\pm	APPR: JCHIANG 2019/11/25
$\nabla = 0$	3 PLACES	\pm	INITIAL REVISION:
$\nabla = 0$	2 PLACES	± 0.15	DRWN: VK10 2016/06/02
$\nabla = 0$	1 PLACE	± 0.25	APPR: RCHEN08 2016/08/04
$\nabla = 0$	0 PLACES	\pm	THIRD ANGLE PROJECTION
$\nabla = 0$	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SERIES
			C-SIZE 111112
DOCUMENT STATUS		DOCUMENT NUMBER	DOC TYPE DOC PART REVISION
P1	RELEASE DATE 2019/11/25 04:18:16	111122420	PSD ASY M1
		MATERIAL NUMBER	CUSTOMER
		SEE SHEET 3	
		SHEET NUMBER	
		4 OF 8	

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

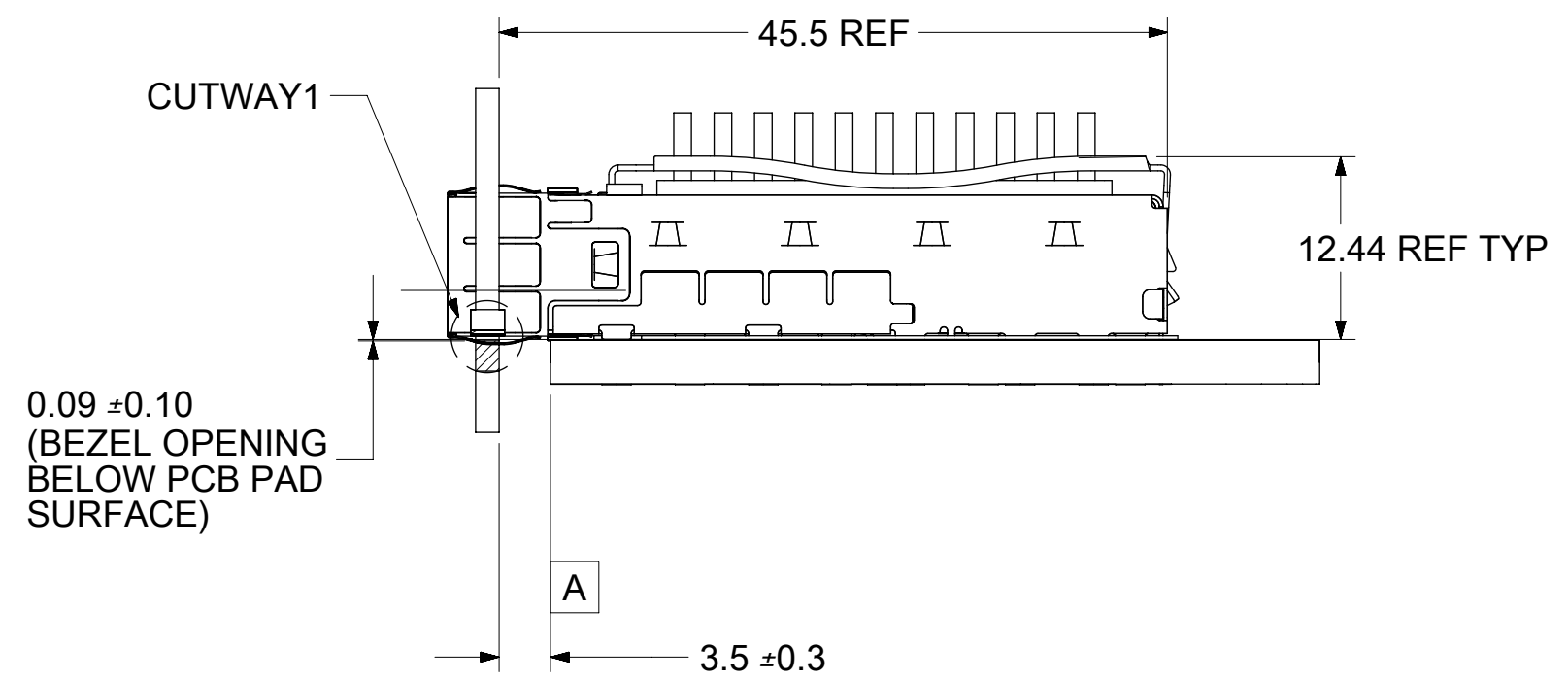
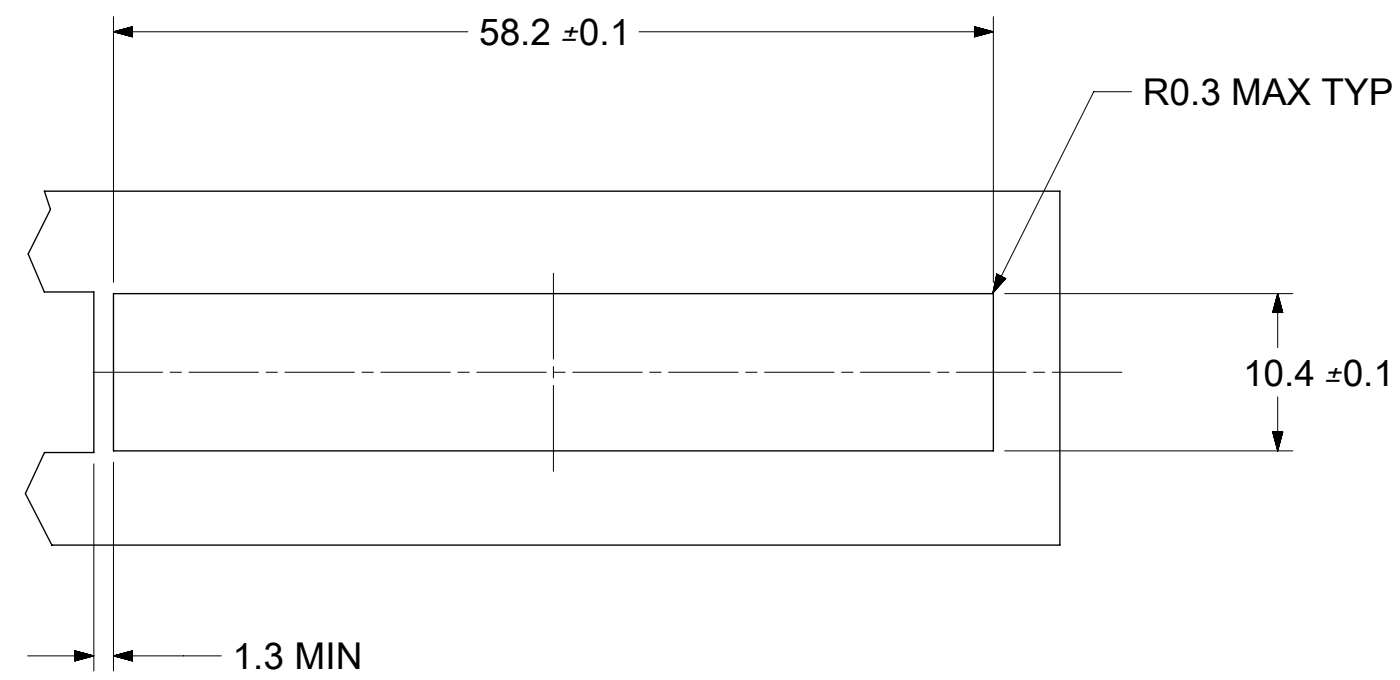


NOTE:
SEE SHEET 5 FOR HOST CONNECTOR DETAIL

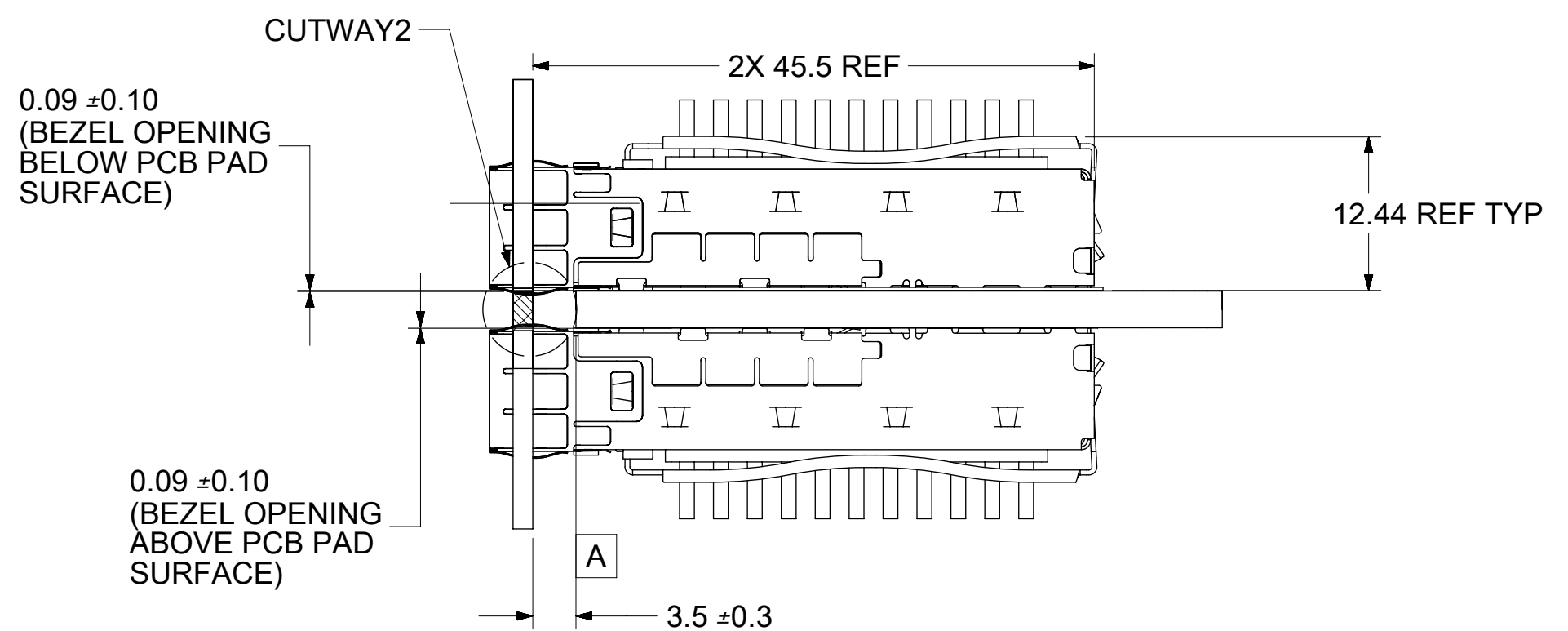
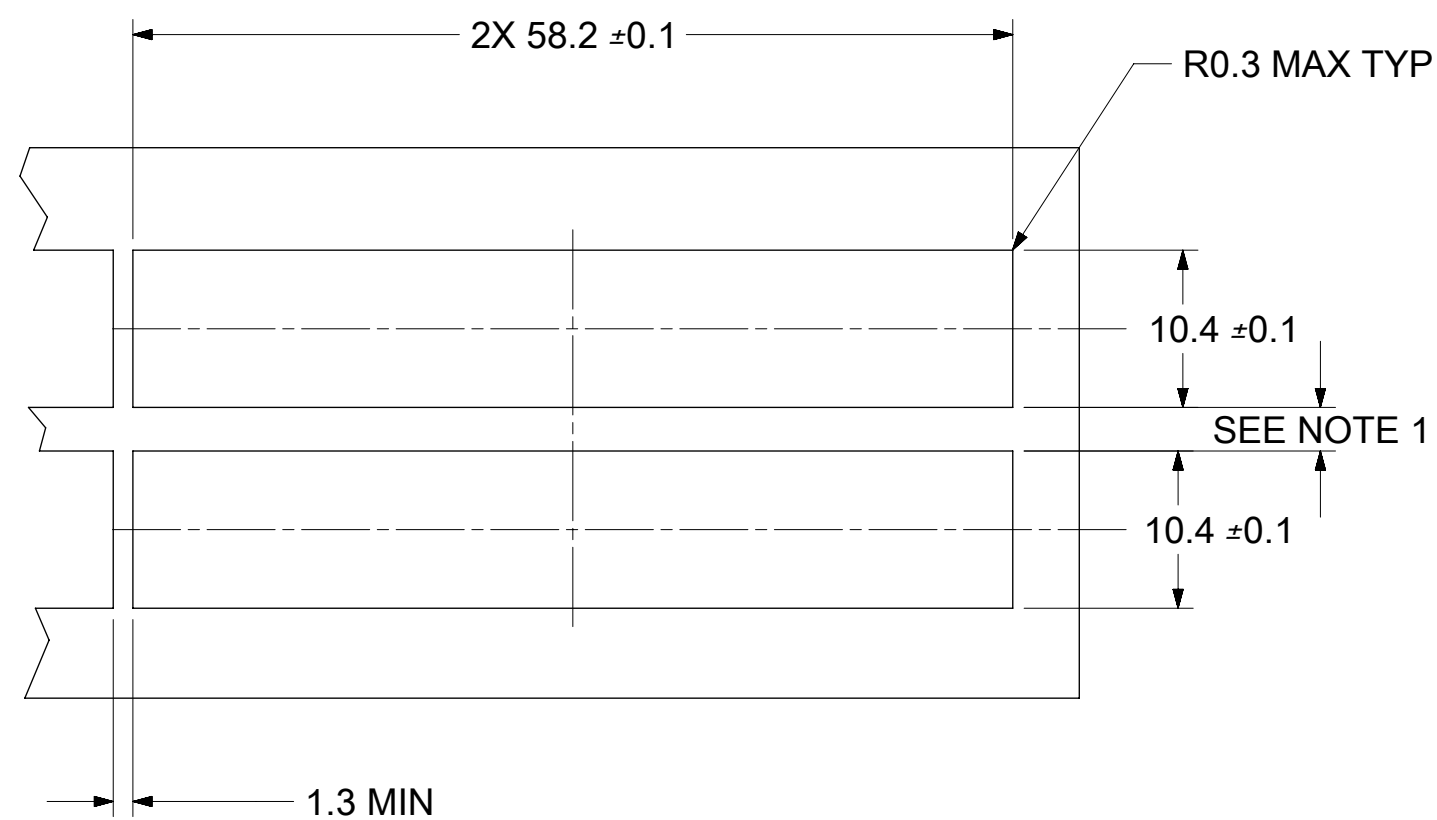
- NOTES:**
- PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED PADS TO BE 2.00mm SQUARE)
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 - CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
 - HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
 - MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE 3.00mm.

SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS					SCALE					CURRENT REV DESC:									
mm					3:1					EC NO: 627930									
GENERAL TOLERANCES (UNLESS SPECIFIED)					ANGULAR TOL $\pm 1.0^\circ$					DRWN: VK10 2019/10/04					SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS				
4 PLACES \pm					3 PLACES \pm					CHK'D: TKUMARKC 2019/11/22									
2 PLACES ± 0.15					1 PLACE ± 0.25					APPR: JCHIANG 2019/11/25					PRODUCT CUSTOMER DRAWING				
0 PLACES \pm					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION					DRAWING SERIES				
1 PLACE \pm					0 PLACES \pm					INITIAL REVISION:					DOCUMENT NUMBER				
1 PLACE \pm					0 PLACES \pm					DRWN: VK10 2016/06/02					1111122420				
1 PLACE \pm					0 PLACES \pm					APPR: RCHEN08 2016/08/04					PSD ASY M1				
1 PLACE \pm					0 PLACES \pm					C-SIZE 111112					MATERIAL NUMBER				
1 PLACE \pm					0 PLACES \pm					SEE SHEET 3					CUSTOMER				
1 PLACE \pm					0 PLACES \pm					5 OF 8					SHEET NUMBER				

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




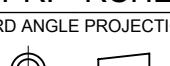
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING (SPRING FINGER)



NOTE:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING 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																																																																																
SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:																																																																													
▽ = 0	mm	2:1	<table style="width: 100%; border: none;"> <tr> <td colspan="2">EC NO: 627930</td> <td colspan="2">2019/10/04</td> <td colspan="3" rowspan="2" style="text-align: center; vertical-align: middle;">molex</td> </tr> <tr> <td colspan="2">DRWN: VK10</td> <td colspan="2">2019/11/22</td> </tr> <tr> <td colspan="2">CHK'D: TKUMARKC</td> <td colspan="2">2019/11/25</td> <td colspan="3" rowspan="2" style="text-align: center; vertical-align: middle;">SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS</td> </tr> <tr> <td colspan="2">APPR: JCHIANG</td> <td colspan="2">2019/11/25</td> </tr> <tr> <td colspan="4">INITIAL REVISION:</td> <td colspan="3" rowspan="2" style="text-align: center; vertical-align: middle;">PRODUCT CUSTOMER DRAWING</td> </tr> <tr> <td colspan="2">DRWN: VK10</td> <td colspan="2">2016/06/02</td> </tr> <tr> <td colspan="2">APPR: RCHEN08</td> <td colspan="2">2016/08/04</td> <td colspan="2" style="text-align: center;">DOCUMENT NUMBER</td> <td style="text-align: center;">DOC TYPE</td> <td style="text-align: center;">DOC PART</td> <td style="text-align: center;">REVISION</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2" style="text-align: center; font-size: large;">111122420</td> <td style="text-align: center;">PSD</td> <td style="text-align: center;">ASY</td> <td style="text-align: center; font-size: large;">M1</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2" style="text-align: center;">MATERIAL NUMBER</td> <td colspan="2" style="text-align: center;">CUSTOMER</td> <td colspan="2" style="text-align: center;">SHEET NUMBER</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2" style="text-align: center;">SEE SHEET 3</td> <td colspan="2"></td> <td colspan="2" style="text-align: center;">6 OF 8</td> </tr> </table>							EC NO: 627930		2019/10/04		molex			DRWN: VK10		2019/11/22		CHK'D: TKUMARKC		2019/11/25		SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS			APPR: JCHIANG		2019/11/25		INITIAL REVISION:				PRODUCT CUSTOMER DRAWING			DRWN: VK10		2016/06/02		APPR: RCHEN08		2016/08/04		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION					111122420		PSD	ASY	M1					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER						SEE SHEET 3				6 OF 8	
EC NO: 627930		2019/10/04								molex																																																																						
DRWN: VK10		2019/11/22																																																																														
CHK'D: TKUMARKC		2019/11/25								SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS																																																																						
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DRWN: VK10		2016/06/02																																																																														
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				111122420		PSD	ASY	M1																																																																								
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				SEE SHEET 3				6 OF 8																																																																								
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▽ = 0	3 PLACES ±																																																																															
▽ = 0	2 PLACES ± 0.15																																																																															
▽ = 0	1 PLACE ± 0.25																																																																															
⊠ = 0	0 PLACES ±																																																																															
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES																																																																										
▽ = 0			C-SIZE	111112																																																																												

REV	DATE	DESCRIPTION
1	2011/06/21	INITIAL RELEASE
A	2011/06/29	UPDATED THE CAGE TOP TO INCLUDE HOLES FOR LIGHTPIPES.
B	2012/03/20	REVISED NOTES; HANGED HEATSINK HEIGHT FROM 8.63 TO 6.5; TABULARIZED PCI, SAN, AND NETWORKING; ADDED HEATSINK HEIGHT WITH MODULE INSERTED [SHT1]. MOVED EXPLODED VIEW TO SHT2. CHANGED OTHER SHEET NUMBER ACCORDINGLY. REMOVED NOTE 6 AND MOVED TO SHEET 2.
C	2012/07/31	HIDE HEATSINK CLIP FROM TOP VIEW, CHANGED DIM 49.0 TO 49.3 AND ADDED "SEE TABLE ON SHEET 2" TO ANNOTATION ON VIEW BOTTOM 3, ADDED MODEL NOTATION IN TOP CORNER ON SHEET 1, ADDED KAPTON TAPE MODEL TO EXPLODED VIEW ON SHEET 2, EXPANDED P/N TABLE ON SHEET 2 TO INCLUDE HEAT SINK DIMS AND KAPTON TAPE OPTIONS, REMOVED DIM 'B' FROM SHEET 2, REWORDED ANNOTATIONS FOR CORRECT ORIENTATION ON SHEET 5.
D	2012/08/31	REMOVED HEATSINKS AND CLIPS FROM ALL VIEWS ON SHEET 1; SEPERATED HEATSINKS TO SEPERATE VIEWS ON SHEET 2 AND REMOVED P/N FROM TABLES; ADDED NEW SHEET 3 WITH VIEWS AND P/N TABLES FOR NO HEATSINK, AND PINFIELD OR LATERAL FIN HEATSINKS; MOVED DIM "0.23 TYP" ON SHEET 6. ADDED ISO VIEWS AND PART NUMBER TABLES FOR WIDE GAP HEATSINKS TO SHEET 2 AND SHEET 3. ADDED TOP VIEWS OF SINGLE AND BELLY TO BELLY PCB TO SHEET SIX TO SHOW POLYIMIDE COVERAGE AND DIMENSIONS.
E	2013/02/20	1. CHANGED BASE CAGE VIEWS ON SHEET 1 FROM 111112-0432 TO 747540420. ADDED TYP TO DIMENSION 3.05 REF ON SIDE VIEW. MOVED DIMENSIONS "10.85 REF" TO F14, "14.0 ±0.1" TO D17, "56.75 REF" TO F17, "58.65 REF" TO G17. ADDED DIMENSION "9.98 REF" @E7. CHANGED DIMENSION 49.03 TO 49.0 @ J14. ADDED BACK VIEW, @E3. REMOVED BELLY ISO VIEW AND ROTATED TOP ISO VIEW & MOVED TO J7. MOVED PCB MIN THICKNESS FROM NOTE 2 TO RESPECTIVE PCB LAYOUT SHEETS. REMOVED INSERTION FORCE FROM NOTE 2. ADDED APPLICATION NOTE @H10. UPDATED P/N DATE CODE PRINTING CALLOUT ON SIDE VIEW. UPDATED 3D MODEL P/N @M20. ADDED EMI SPRING FINGERS NOTE @H8. (SHEET 1) 2. MOVED POLYIMIDE BELLY ISO VIEW TO E9 AND ADDED REAR LEG & UNDER BELLY SPRING FINGER IDENTIFIERS. ADDED UNDERBELLY GASKET ISO VIEW @E3. ADDED TOP VIEW, @ J17. REMOVED CAGES FROM HEATSINK VIEWS. ADDED REAR LEG OPTIONS, @B16. ADDED TITLE FOR TABLES THAT READS OVERALL HEATSINK HEIGHT. ADDED POLYIMIDE INSULATOR & # OF REAR LEGS PER PORT COLUMNS TO TABLES. (SHEET 2) 3. ADDED PN'S 747500420, -0422, -0423 & 111110420 AND UPDATED TABLES, ADDING ISO VIEWS @F18 & F13. ADDED P/N NOTE FOR EACH CAGE SHOWN. (SHEET 3) 4. ADDED NOTE 5, (SHEET 4 & 5). REMOVED UNNECESSARY CAGE TO PCB CONTACT PADS FROM BELLY TO BELLY LAYOUT. ADDED TYP TO ALL DIMENSIONS (SHEET 4 & 5). ADDED DIAMETER DIMENSION 0.95±0.05 X4 WITH NOTES "SHOWN AS..." (SHEET 4). FIXED BOX TO NOT INCLUDE TYP. ADDED HOLES @E17, @E15, @E13, & E11 (SHEET 4). REMOVED PAD @F13 (SHEET 5). 5. REMOVED BELLY TO BELLY VIEW AND CENTERED & INCREASED SCALE OF SINGLE SIDED VIEW. (SHEET 6) 6. REMOVED "SEE NOTE 1" FROM DIMENSION "10.4 ±0.1", @E12 & D12. ADDED "SEE NOTE 1" BEZEL OPENING PITCH, @E12. ADDED CENTER LINES TO BEZEL OPENINGS. REMOVED CUTAWAY 7 & 8 FROM SIDE VIEWS. RENAMED CUTAWAY2 TO 1 AND 4 TO 2. REMOVED "SIZE, AND" FROM NOTE 1. ADDED DIMENSION 12.44 REF TYP TO BOTH SIDE VIEWS. REMOVED DIMENSION 9.98 TYP @E4 & J4. (SHEET 7)
F	2013/09/06	ADDED PN'S 747540426. (SHEET 3)
G	2013/10/14	1. CHANGED THE WORD "WILL" TO "MAY" ON NOTE 4. MOVED DATE CODE FROM SIDE OF CAGE TO BACK OF CAGE, ADDED NOTE AT E5 TO LIST THE SERIES NUMBERS THAT WILL HAVE THE DATE CODE INTHIS LOCATION. ADDED 0.70 MAX(BENDING TAB TO BOTTOM SURFACE OF BASE) AT E13. (SHEET 1) 2. REMOVED zSFP+ CAGE VIEW FROM SHEET AT E5, ADDED SIDE VIEW OF CAGE TO SHOW WHERE THE DATE CODE WILL BE ON ALL 111112 SERIES CAGES. (SHEET 2) 3. ADDED NEW SHEET 3 WITH GEN 1 AND GEN 2 zSFP+ OPTIONS. THE PREVIOUS SHEETS FROM SHEET 3 TO SHEET 8 ALL INCREASE BY 1 NUMBER. 4. ADDED P/N 747540427 TO TABLE AT D20 AND ADDED ISO VIEW AND TABLE FOR 1001140420 AT E3 ON SHEET 4.

SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
DIMENSION UNITS		SCALE		CURRENT REV DESC:																
mm		1:1		EC NO: 627930 DRWN: VK10 2019/10/04 CHK'D: TKUMARKC 2019/11/22 APPR: JCHIANG 2019/11/25																
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0°		INITIAL REVISION:										DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
4 PLACES ±		± 0.15		DRWN: VK10 2016/06/02										1111122420				PSD	ASY	M1
3 PLACES ±		± 0.25		APPR: RCHEN08 2016/08/04										MATERIAL NUMBER				CUSTOMER	SHEET NUMBER	
2 PLACES ±		±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										SEE SHEET 3					7 OF 8	
1 PLACE ±		±		THIRD ANGLE PROJECTION										DRAWING	SERIES					
0 PLACES ±		±												C-SIZE	111112					

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/25	04:18:16
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REV	DATE	DESCRIPTION
H	2014/09/24	1. ADDED 74754-0426 PLATING SPEC. [SHEET 4] 2. ADDED P/N 74754-0464. [SHEET 4]
I	2015/08/26	1. SHEET 3 : ADDED NOTE 2 2. SHEET 2: J13 : ADDED NEW VERTICAL FIN HEATSINK ISO VIEW 3. SHEET 4: H10 : ADDED (*) FOR LOW COST IN NOTE 4. SHEET 4: I10 : ADDED PART NO. 111112-5421 ON P/N TABLE 5. SHEET 5: K18 : ADDED PART NO. 111112-6421 ISOVIEW 6. SHEET 6: G20 : CHANGED $\varnothing 1.05 \pm 0.05$ X14 TO $\varnothing 14 \times 1.05 \pm 0.05$ 7. SHEET 6: D19 : CHANGED $\varnothing 0.95 \pm 0.05$ X20 TO $\varnothing 20 \times 0.95 \pm 0.05$ 8. SHEET 6: D14 : CHANGED $\varnothing 0.95 \pm 0.05$ X4 TO $\varnothing 4 \times 0.95 \pm 0.05$ 9. SHEET 7: G18 : CHANGED $\varnothing 1.05 \pm 0.05$ X28 TO $\varnothing 28 \times 1.05 \pm 0.05$ 10. SHEET 7: C16 : CHANGED $\varnothing 0.95 \pm 0.05$ X28 TO $\varnothing 28 \times 0.95 \pm 0.05$ 11. SHEET 9: ADDED NOTE 2 MODIFIED PCB LAYOUT PER SFF-8433 12. SHEET 6: G20 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C14 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 13. SHEET 7 : F18 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C16 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1
J	2016/02/02	1. SHEET 3 & 4: REMOVE 1111110420
K	2016/03/25	SHEET 4: H19: ADDED 1111120494 IN P/N TABLE
L	2016/06/30	REMASTERED FROM SD-111112-2420 REV_K TO 1111122420 PSD ASY REV_L SEPERATED 1001140420 TO 1001140420 PSD ASY
M	2019/01/09	SHEET 2: D7: SHOWED POLYIMIDE INSULATOR IN THE VIEW. SHEET 1: B3: REMOVED 111111 SERIES FROM DATE CODE NOTE
M1	2019/04/10	SHEET 2 : E02 : ADDED NEW ROW OF CUSTOM HEAT SINK WITH HEIGHT 13.7. SHEET 3 : E03 : ADDED NEW P/N 1111127421 IN PART NUMBER TABLE.

SYMBOLS										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																							
DIMENSION UNITS		SCALE		CURRENT REV DESC:																													
	= 0	mm	1:1	EC NO: 627930 DRWN: VK10 2019/10/04 CHK'D: TKUMARKC 2019/11/22 APPR: JCHIANG 2019/11/25 INITIAL REVISION: DRWN: VK10 2016/06/02 APPR: RCHEN08 2016/08/04										 SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS PRODUCT CUSTOMER DRAWING																			
	= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)																						DOCUMENT NUMBER: 1111122420 DOC TYPE: PSD DOC PART: ASY REVISION: M1									
	= 0	ANGULAR TOL $\pm 1.0^\circ$																															
	= 0	4 PLACES	\pm	MATERIAL NUMBER: SEE SHEET 3 CUSTOMER:										SHEET NUMBER: 8 OF 8																			
	= 0	3 PLACES	\pm																														
	= 0	2 PLACES	± 0.15	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										THIRD ANGLE PROJECTION C-SIZE 111112																			
	= 0	1 PLACE	± 0.25																														
	= 0	0 PLACES	\pm	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										THIRD ANGLE PROJECTION C-SIZE 111112																			
	= 0																																

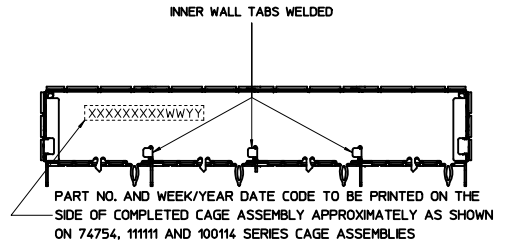
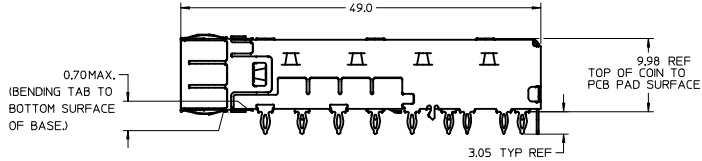
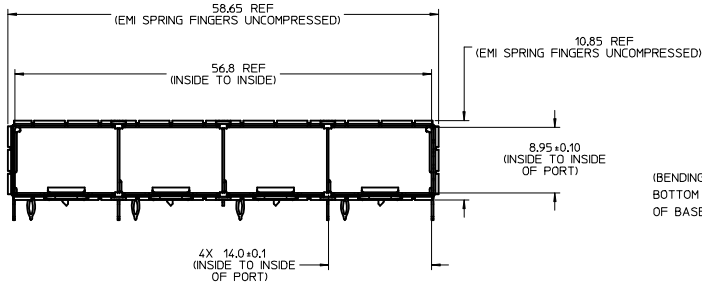
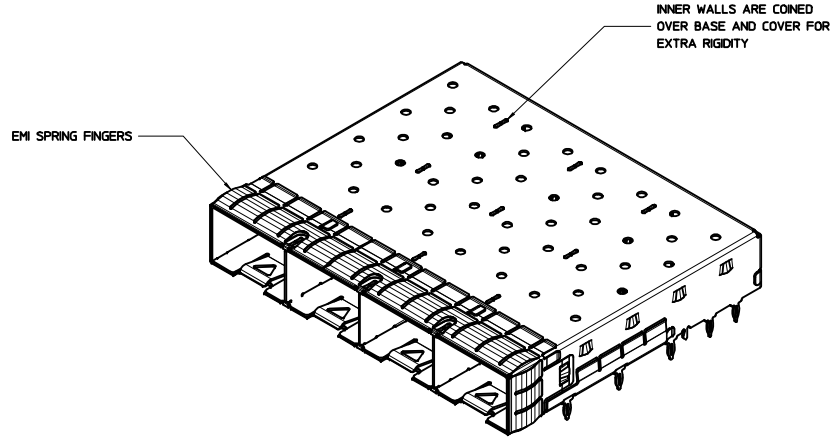
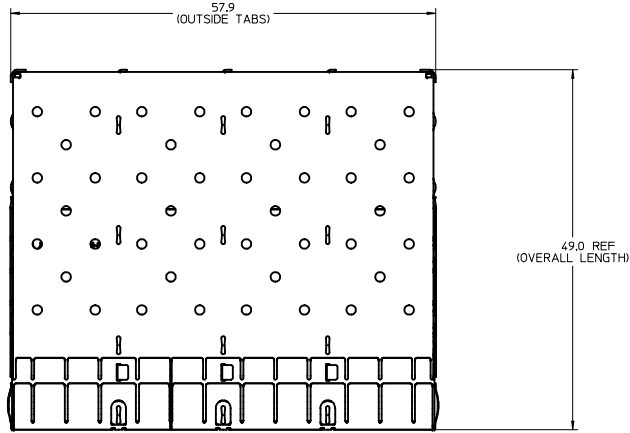
DOCUMENT STATUS	P1	RELEASE DATE	2019/11/25 04:18:16
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3D MODEL: TM-11112-2420

BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)

747540420
SHOWN

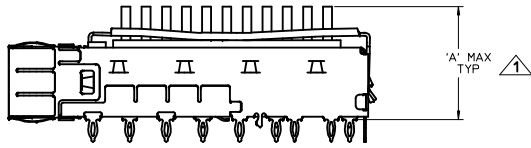
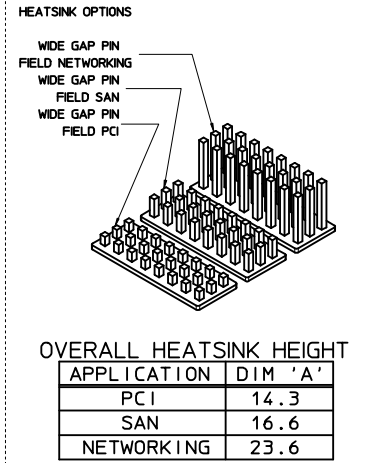
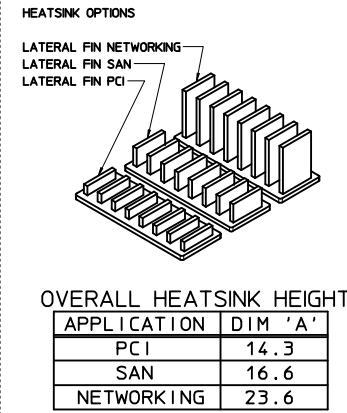
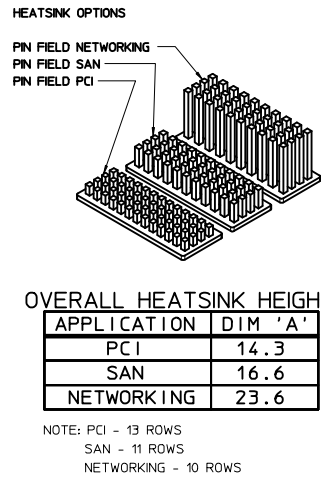
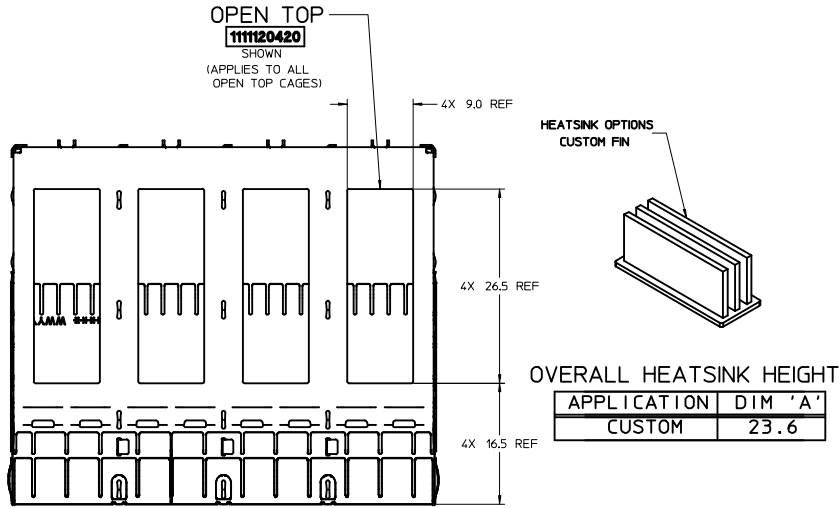


WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

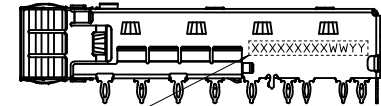
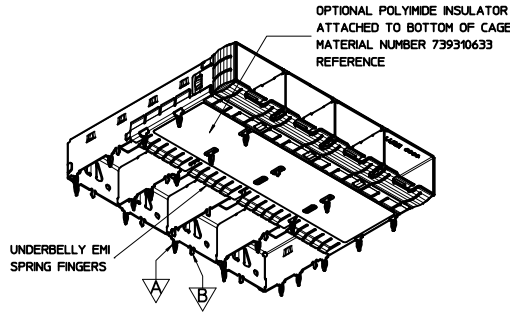
- NOTES:**
- MATERIAL:**
 CAGE: 0.25mm THICK COPPER ALLOY, NICKEL PLATED.
 SPRING FINGERS: 0.10mm THICK COPPER ALLOY, NICKEL PLATED.
 HEATSINK: ALUMINUM, NICKEL PLATED.
 HEATSINK SPRING CLIP: STAINLESS STEEL.
 - PRESS FIT LEGS 3.05mm [.120 INCH] LONG.
 - PORTS ARE DESIGNED FOR SFP+ TRANSCEIVERS AND ARE 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.

SEE REVISION TABLE EC NO: CPG2016-2974 DRAWN: CHENG03 CHKD: APPR: CHEN08 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY	DATE				
		4 PLACES ±---	±---	DRAWN BY RMIKLINSKI	DATE 2011/06/20			TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS WITH EMI SPRING FINGERS molex DOCUMENT NO. SD-11112-2420	
		3 PLACES ±---	±---	CHECKED BY MCKERVEY	DATE 2011/08/26				
		2 PLACES ±0.15	±---	APPROVED BY	DATE				
		1 PLACE ±0.25	±---	KLLOYD	2012/08/14				
		0 PLACE ±	±					SHEET NO. 1 OF 10	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1°		MATERIAL NO. SEE SHEET 4		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

CAGE ASSEMBLY OPTIONS



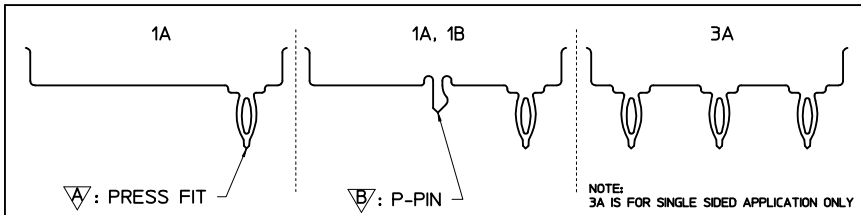
NOTES:
▲ HEIGHT OF HEATSINK WITH MODULE INSERTED.
DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 11112 SERIES CAGE ASSEMBLIES.

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

REAR LEG OPTIONS (PER PORT)

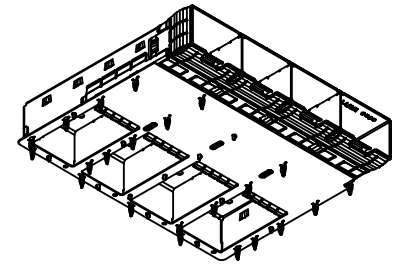
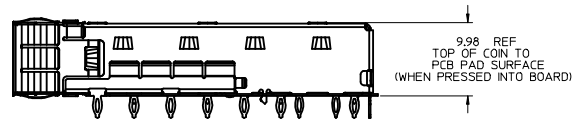
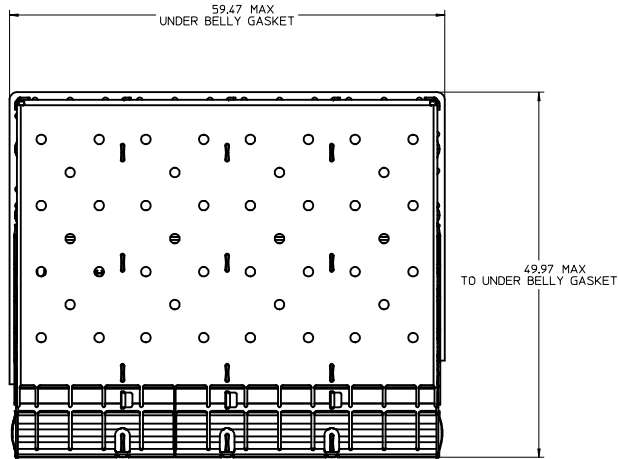


SEE REVISION TABLE EC NO: CPG2016-2974 CHKD: J APPROV: CHEN08	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH	DATE	DATE			
		4 PLACES	±.005	±.005	RMIKLINSKI	2011/06/20		TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS WITH EMI SPRING FINGERS molex MATERIAL NO. SD-11112-2420 DOCUMENT NO. SD-11112-2420 SHEET NO. 2 OF 10
		3 PLACES	±.010	±.010	DATE			
		2 PLACES	±0.15	±.010	MMCKERVEY	2011/08/26		
		1 PLACE	±0.25	±.010	DATE			
		0 PLACE	±	±	KLLOYD	2012/08/14		
		ANGULAR ± 1°		MATERIAL NO.		DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 4				
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

OPTIONAL GEN 2 UNDER BELLY GASKET

1001140420
SHOWN



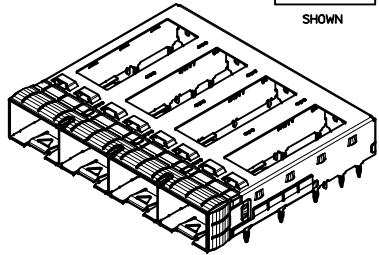
- NOTES:
- OPTIONAL UNDER BELLY GASKET ATTACHED TO BOTTOM OF CAGE (SEE P/N TABLES FOR AVAILABLE ASSEMBLIES).
 - GEN 2 UNDER BELLY GASKET IS UL94 V-0 RATED.

SEE REVISION TABLE IEC NO: CPG2016-2974 J CHYK: DRWNA/CHENG03 APPR: RCHEN08 2016/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	3:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
	▽=0	3 PLACES ± --- ± ---	RM IKLINSKI 2011/06/20	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
	2 PLACES ± 0.15 ± ---	CHECKED BY DATE	DOCUMENT NO.			SHEET NO.
	1 PLACE ± 0.25 ± ---	MCKERVEY 2011/08/26	SD-11112-2420			3 OF 10
	0 PLACE ± ±	APPROVED BY DATE	MATERIAL NO.			
	ANGULAR ± 1 °	KLLOYD 2012/08/14	SEE SHEET 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			

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

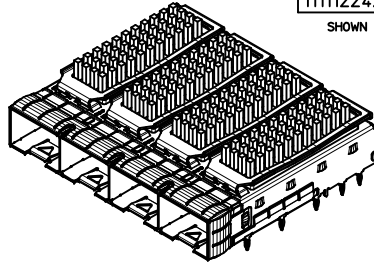
PART NUMBER SELECTION

1111120420
SHOWN



SFP+ OPEN TOP BASE CAGE FOR HEATSINK		
PART NO.	POLYIMIDE INSULATOR	# OF REAR LEGS PER PORT
1111120420	---	1A, 1B
1111120460	YES	1A, 1B

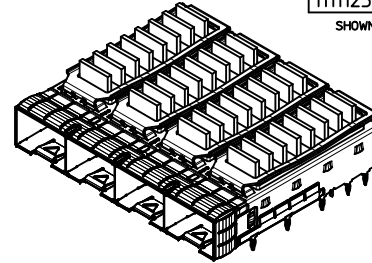
1111122420
SHOWN



SFP+ PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111121420	---	PCI	1A, 1B
1111121460	YES	PCI	1A, 1B
1111122420	---	SAN	1A, 1B
1111122460	YES	SAN	1A, 1B
1111123420	---	NET	1A, 1B
1111123460	YES	NET	1A, 1B

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

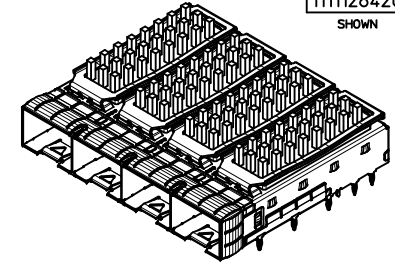
1111125420
SHOWN



SFP+ LATERAL FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111124420	---	PCI	1A, 1B
1111124460	YES	PCI	1A, 1B
1111125420	---	SAN	1A, 1B
1111125421	---	SAN(*)	1A, 1B
1111125460	YES	SAN	1A, 1B
1111126420	---	NET	1A, 1B
1111126460	YES	NET	1A, 1B

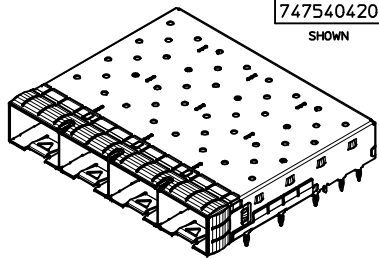
NOTE: (*) FOR LOW COST

1111128420
SHOWN



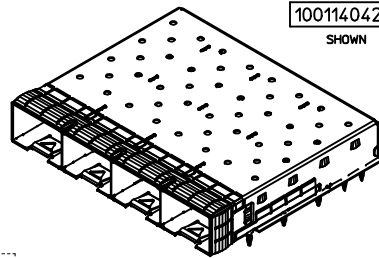
SFP+ WIDE GAP PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111127420	---	PCI	1A, 1B
1111127460	YES	PCI	1A, 1B
1111128420	---	SAN	1A, 1B
1111128460	YES	SAN	1A, 1B
1111129420	---	NET	1A, 1B
1111129460	YES	NET	1A, 1B

747540420
SHOWN



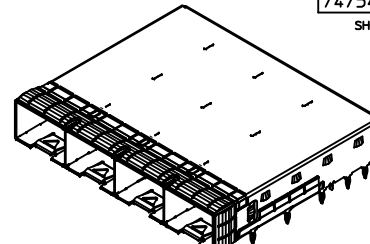
SFP+ CLOSED TOP BASE CAGE				
PART NO.	POLYIMIDE INSULATOR	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540420	---	6	1A, 1B	----
747540422	---	6	3A	----
747540423	---	19	1A, 1B	----
747540427	YES	6 <small>(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)</small>	1A, 1B	----
747540464	---	6	1A, 1B	OVER ALL: MAT TIN PLATED 2.0MM MIN.

1001140420
SHOWN



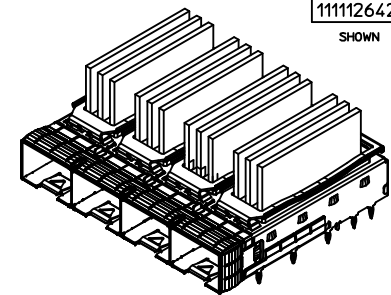
zSFP+ CLOSED TOP BASE CAGE W/ GEN 2 BELLY GASKET	
PART NO.	# OF REAR LEGS PER PORT
1001140420	1A, 1B

747540426
SHOWN



SFP+ CLOSED TOP BASE CAGE			
PART NO.	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540426	6 <small>(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)</small>	1A, 1B	OVER ALL: MAT TIN PLATED 2.0MM MIN.

1111126421
SHOWN



SFP+ CUSTOM FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111126421	---	CUSTOM	1A, 1B

SEE REVISION TABLE EC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: J APPR: RCHENG08	2016/02/02 DESCRIPTION	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1" style="font-size: 8px;"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±0.15</td> <td>±0.006</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> </table>		mm	INCH	4 PLACES	±0.15	±0.006	3 PLACES	±0.25	±0.010	2 PLACES	±0.38	±0.015	1 PLACE	±0.51	±0.020	0 PLACE	±0.64	±0.025	DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH																						
	4 PLACES	±0.15	±0.006																						
	3 PLACES	±0.25	±0.010																						
2 PLACES	±0.38	±0.015																							
1 PLACE	±0.51	±0.020																							
0 PLACE	±0.64	±0.025																							
MATERIAL NO.		DATE 2012/08/14		DATE 2011/06/20		DATE 2011/08/26																			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1 °		TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		DOCUMENT NO. SD-11112-2420																			
SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 4 OF 10																					

PCB LAYOUT FOR SINGLE SIDE MOUNT

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

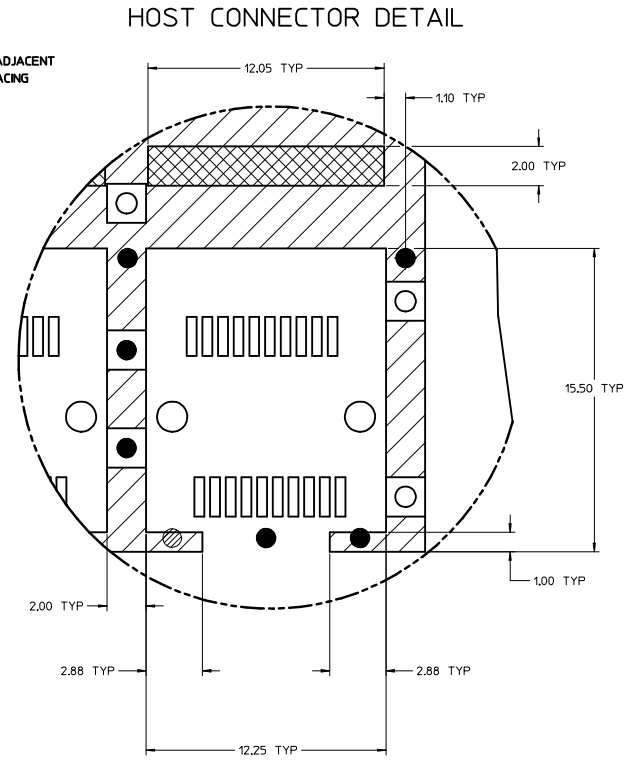
CROSS HATCHED AREA GOES TO CHASSIS GROUND (NO OSP) 4 PLCS

14X $\phi 1.05 \pm 0.05$ (SHOWN AS $\phi 0.1AB$)

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

20X $\phi 0.95 \pm 0.05$ (SHOWN AS $\phi 0.1AB$)

4X $\phi 0.95 \pm 0.05$ (SHOWN AS $\phi 0.1AB$)
(OPTIONAL HOLES FOR CAGES WITH 3 REAR LEGS PER PORT)

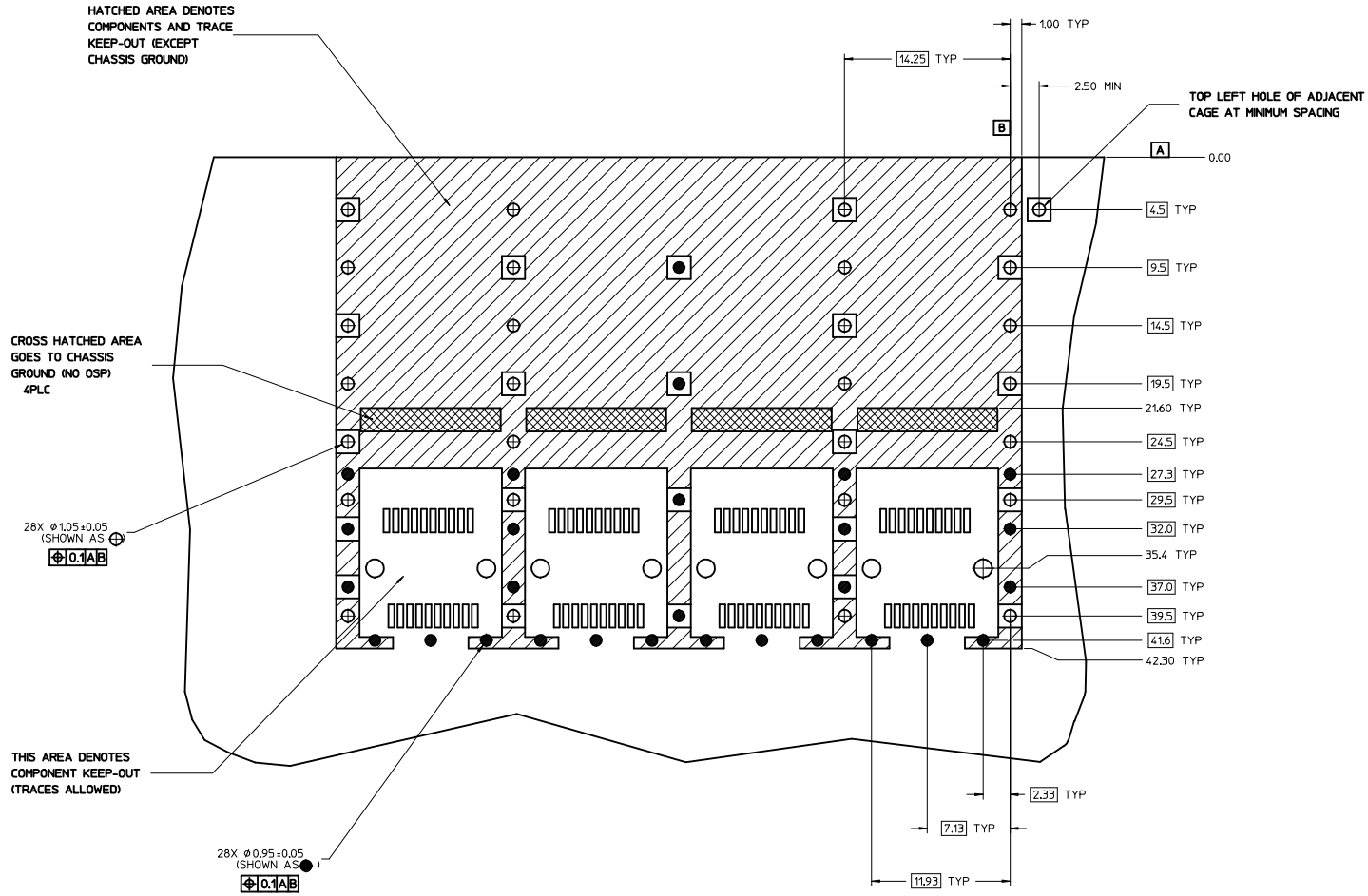


DETAIL 1
SCALE 8:1

- NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED 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 ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
 4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
 5. MINIMUM PCB THICKNESS FOR SINGLE SIDED USE 157mm [0.062"]

SEE REVISION TABLE EC NO: CPG2016-2974 DRAWN BY: DRWACHENG03 CHKD: APPR: RCHEN08 DATE: 2016/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± ±	MM ONLY	5:1	METRIC	
	DRAWN BY: RMIKLINSKI DATE: 2011/06/20 CHECKED BY: MMCKERVEY DATE: 2011/08/26 APPROVED BY: KLOYD DATE: 2012/08/14	MATERIAL NO: SEE SHEET 4	TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	DOCUMENT NO: SD-11112-2420	SHEET NO: 5 OF 10	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR ± 1 °	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



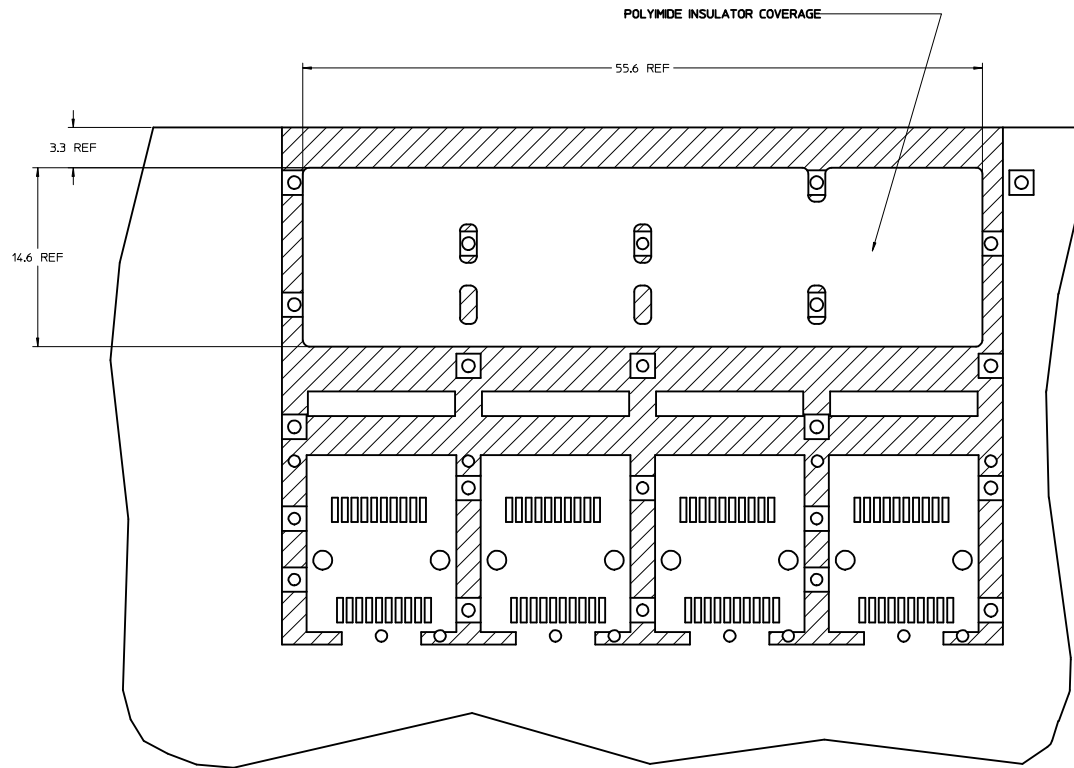
NOTE:
SEE SHEET 5 FOR HOST
CONNECTOR DETAIL

NOTES:

1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED 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 ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
5. MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE 3.00mm [0.118"].

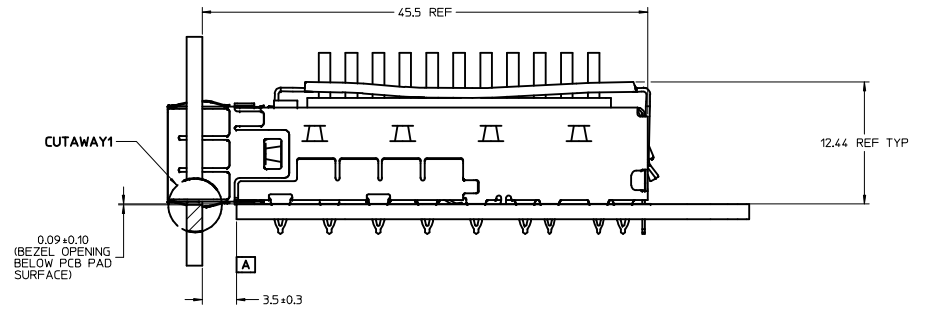
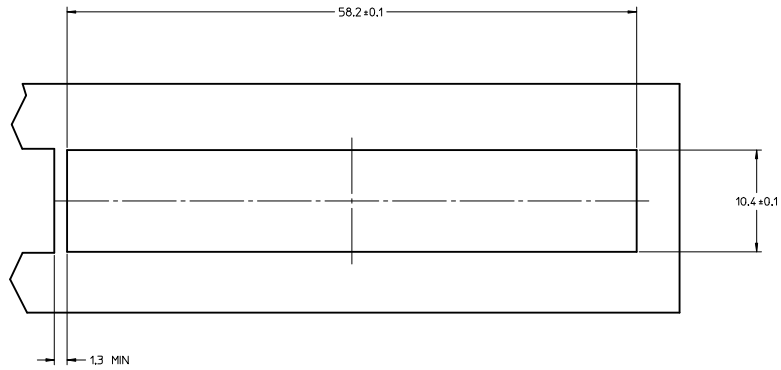
SEE REVISION TABLE IEC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: J APPR: RCHEN08 DATE: 2016/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm	INCH	MM ONLY	5:1	METRIC	☉
	▽=0	4 PLACES ±	±				
	▽=0	3 PLACES ±	±				
		ANGULAR ± 1 °					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.
				SEE SHEET 4		SD-11112-2420	6 OF 10
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

POLYIMIDE INSULATOR COVERAGE AREA
(APPLIES TO SINGLE SIDED AND BELLY TO BELLY)

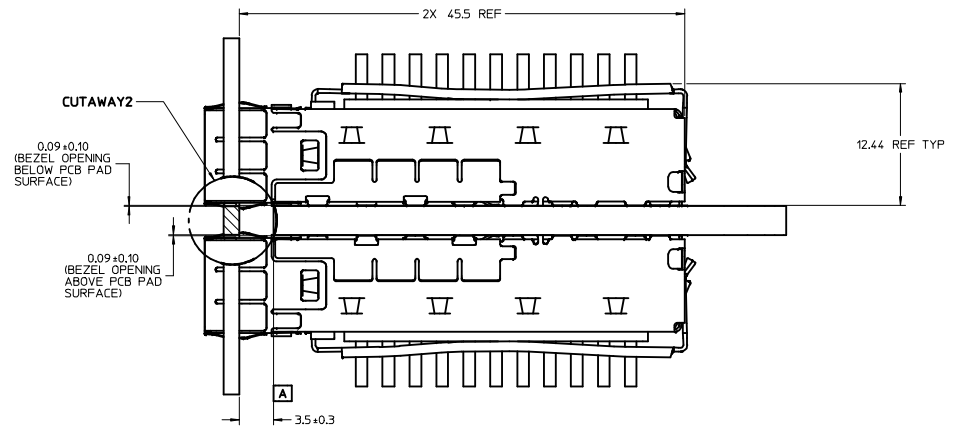
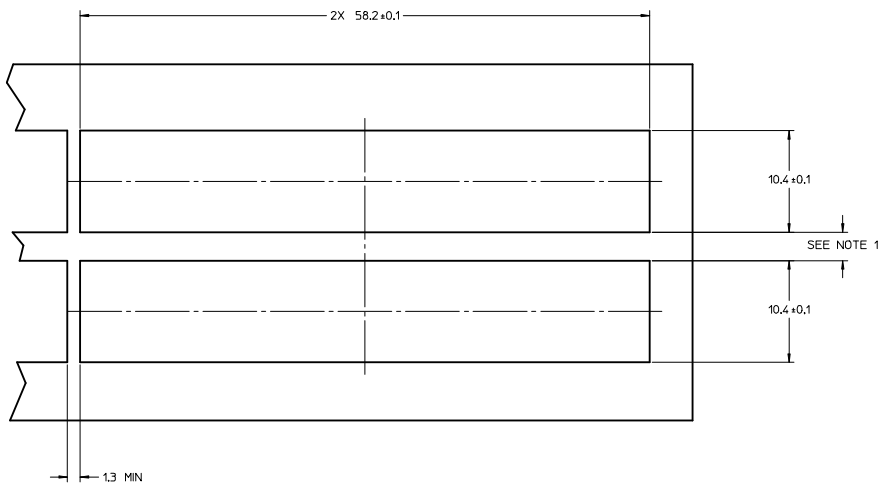


SEE REVISION TABLE EC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: CHYD APPR: RCHEN08 2016/02/04	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± .015</td> <td>± .0005</td> </tr> <tr> <td>3 PLACES</td> <td>± .020</td> <td>± .0008</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.15</td> <td>± .006</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .010</td> </tr> <tr> <td>0 PLACE</td> <td>±</td> <td>±</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± .015	± .0005	3 PLACES	± .020	± .0008	2 PLACES	± 0.15	± .006	1 PLACE	± 0.25	± .010	0 PLACE	±	±	DIMENSION STYLE MM ONLY	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
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			CHECKED BY MMCKERVEY	DATE 2011/08/26																				
			APPROVED BY KLLLOYD	DATE 2012/08/14																				
			MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2420	SHEET NO. 7 OF 10																			
			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
(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 LOCATION.
 - CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB.

SEE REVISION TABLE IEC NO: CPG2016-2974 DRAWN BY: CHYD APPROVED BY: APPRCHEN08 DATE: 2016/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY: RMIKLINSKI	DATE: 2011/06/20	TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	
	▽=0	3 PLACES ± 0.15 ± ---	CHECKED BY: MMCKERVEY	DATE: 2011/08/26	molex MATERIAL NO. SEE SHEET 4 DOCUMENT NO. SD-11112-2420 SHEET NO. 8 OF 10	
▽=0	2 PLACES ± 0.25 ± ---	APPROVED BY: K LLOYD	DATE: 2012/08/14			
	0 PLACE ± --- ± ---	ANGULAR ± 1 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

DATE	REV	DESCRIPTION
2011/06/21	1	INITIAL RELEASE
2011/06/29	A	UPDATED THE CAGE TOP TO INCLUDE HOLES FOR LIGHTPIPES.
2012/03/20	B	REVISED NOTES, HANGED HEATSINK HEIGHT FROM 8.63 TO 6.5, TABULARIZED PCI, SAN, AND NETWORKING, ADDED HEATSINK HEIGHT WITH MODULE INSERTED [SHT1]. MOVED EXPLODED VIEW TO SHT2. CHANGED OTHER SHEET NUMBER ACCORDINGLY. REMOVED NOTE 6 AND MOVED TO SHEET 2.
2012/07/31	C	HIDE HEATSINK CLIP FROM TOP VIEW, CHANGED DIM 49.0 TO 49.3 AND ADDED 'SEE TABLE ON SHEET 2' TO ANNOTATION ON VIEW BOTTOM 3, ADDED MODEL NOTATION IN TOP CORNER ON SHEET 1, ADDED KAPTON TAPE MODEL TO EXPLODED VIEW ON SHEET 2, EXPANDED P/N TABLE ON SHEET 2 TO INCLUDE HEAT SINK DIMS AND KAPTON TAPE OPTIONS, REMOVED DIM 'B' FROM SHEET 2, REWORDED ANNOTATIONS FOR CORRECT ORIENTATION ON SHEET 5.
2012/08/31	D	REMOVED HEATSINKS AND CLIPS FROM ALL VIEWS ON SHEET 1, SEPERATED HEATSINKS TO SEPERATE VIEWS ON SHEET 2 AND REMOVED P/N FROM TABLES, ADDED NEW SHEET 3 WITH VIEWS AND P/N TABLES FOR NO HEATSINK, AND PINFIELD OR LATERAL FIN HEATSINKS, MOVED DIM '0.23 TYP' ON SHEET 6. ADDED ISO VIEWS AND PART NUMBER TABLES FOR WIDE GAP HEATSINKS TO SHEET 2 AND SHEET 3. ADDED TOP VIEWS OF SINGLE AND BELLY TO BELLY PCB TO SHEET SIX TO SHOW POLYIMIDE COVERAGE AND DIMENSIONS.
2013/02/20	E	<ol style="list-style-type: none"> 1. CHANGED BASE CAGE VIEWS ON SHEET 1 FROM 111112-0432 TO 747540420. ADDED TYP TO DIMENSION 3.05 REF ON SIDE VIEW. MOVED DIMENSIONS '10.85 REF' TO F14, '14.0 ±0.1' TO D17, '56.75 REF' TO F17, '58.65 REF' TO G17. ADDED DIMENSION '9.98 REF' @E7. CHANGED DIMENSION 49.03 TO 49.0 @ J14. ADDED BACK VIEW, @E3. REMOVED BELLY ISO VIEW AND ROTATED TOP ISO VIEW & MOVED TO J7. MOVED PCB MIN THICKNESS FROM NOTE 2 TO RESPECTIVE PCB LAYOUT SHEETS. REMOVED INSERTION FORCE FROM NOTE 2. ADDED APPLICATION NOTE @H10. UPDATED P/N DATE CODE PRINTING CALLOUT ON SIDE VIEW. UPDATED 3D MODEL P/N @M20. ADDED EMI SPRING FINGERS NOTE @H8. (SHEET 1) 2. MOVED POLYIMIDE BELLY ISO VIEW TO E9 AND ADDED REAR LEG & UNDER BELLY SPRING FINGER IDENTIFIERS. ADDED UNDERBELLY GASKET ISO VIEW @E3. ADDED TOP VIEW, @ J17. REMOVED CAGES FROM HEATSINK VIEWS. ADDED REAR LEG OPTIONS, @B16. ADDED TITLE FOR TABLES THAT READS OVERALL HEATSINK HEIGHT. ADDED POLYIMIDE INSULATOR & # OF REAR LEGS PER PORT COLUMNS TO TABLES. (SHEET 2) 3. ADDED PN'S 747500420, -0422, -0423 & 1111110420 AND UPDATED TABLES, ADDING ISO VIEWS @F18 & F13. ADDED P/N NOTE FOR EACH CAGE SHOWN. (SHEET 3) 4. ADDED NOTE 5, (SHEET 4 & 5). REMOVED UNNECESSARY CAGE TO PCB CONTACT PADS FROM BELLY TO BELLY LAYOUT. ADDED TYP TO ALL DIMENSIONS (SHEET 4 & 5). ADDED DIAMETER DIMENSION 0.95±0.05 X4 WITH NOTES 'SHOWN AS...' (SHEET 4). FIXED BOX TO NOT INCLUDE TYP. ADDED HOLES @E17, @E15, @E13, & E11 (SHEET 4). REMOVED PAD @F13 (SHEET 5). 5. REMOVED BELLY TO BELLY VIEW AND CENTERED & INCREASED SCALE OF SINGLE SIDED VIEW. (SHEET 6) 6. REMOVED 'SEE NOTE 1' FROM DIMENSION '10.4 ±0.1', @E12 & D12. ADDED 'SEE NOTE 1' BEZEL OPENING PITCH, @E12. ADDED CENTER LINES TO BEZEL OPENINGS. REMOVED CUTAWAY 7 & 8 FROM SIDE VIEWS. RENAMED CUTAWAY2 TO 1 AND 4 TO 2. REMOVED 'SIZE, AND' FROM NOTE 1. ADDED DIMENSION 12.44 REF TYP TO BOTH SIDE VIEWS. REMOVED DIMENSION 9.98 TYP @E4 & J4. (SHEET 7)
2013/09/06	F	ADDED PN'S 747540426. (SHEET 3)
2013/10/14	G	<ol style="list-style-type: none"> 1. CHANGED THE WORD 'WILL' TO 'MAY' ON NOTE 4. MOVED DATE CODE FROM SIDE OF CAGE TO BACK OF CAGE, ADDED NOTE AT E5 TO LIST THE SERIES NUMBERS THAT WILL HAVE THE DATE CODE INTHIS LOCATION. ADDED 0.70 MAX(BENDING TAB TO BOTTOM SURFACE OF BASE) AT E13. (SHEET 1) 2. REMOVED zSFP+ CAGE VIEW FROM SHEET AT E5, ADDED SIDE VIEW OF CAGE TO SHOW WHERE THE DATE CODE WILL BE ON ALL 111112 SERIES CAGES. (SHEET 2) 3. ADDED NEW SHEET 3 WITH GEN 1 AND GEN 2 zSFP+ OPTIONS. THE PREVIOUS SHEETS FROM SHEET 3 TO SHEET 8 ALL INCREASE BY 1 NUMBER. 4. ADDED P/N 747540427 TO TABLE AT D20 AND ADDED ISO VIEW AND TABLE FOR 1001140420 AT E3 ON SHEET 4.

SEE REVISION TABLE EC NO: CPG2016-2974 DRAWN BY: J CHYK: J APPR: RCHEN08 2016/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	1:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	RM IKLINSKI 2011/06/20	TITLE	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY DATE	MCKERVEY 2011/08/26	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS WITH EMI SPRING FINGERS	
	ANGULAR ± 1 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY DATE	KLLOYD 2012/08/14	MATERIAL NO.	DOCUMENT NO.
			SEE SHEET 4			
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

DATE	REV	DESCRIPTION
2014/09/24	H	1. ADDED 74754-0426 PLATING SPEC. [SHEET 4] 2. ADDED P/N 74754-0464. [SHEET 4]
2015/08/26	I	1. SHEET 3 : ADDED NOTE 2 2. SHEET 2: J13 : ADDED NEW VERTICAL FIN HEATSINK ISOVIEW 3. SHEET 4: H10 : ADDED (*) FOR LOW COST IN NOTE 4. SHEET 4: I10 : ADDED PART NO. 111112-5421 ON P/N TABLE 5. SHEET 5: K18 : ADDED PART NO. 111112-6421 ISOVIEW 6. SHEET 6: G20 : CHANGED $\phi 1.05+/-0.05$ X14 TO $\phi 14X 1.05+/-0.05$ 7. SHEET 6: D19 : CHANGED $\phi 0.95+/-0.05$ X20 TO $\phi 20X 0.95+/-0.05$ 8. SHEET 6: D14 : CHANGED $\phi 0.95+/-0.05$ X4 TO $\phi 4X 0.95+/-0.05$ 9. SHEET 7: G18 : CHANGED $\phi 1.05+/-0.05$ X28 TO $\phi 28X 1.05+/-0.05$ 10. SHEET 7: C16 : CHANGED $\phi 0.95+/-0.05$ X28 TO $\phi 28X 0.95+/-0.05$ 11. SHEET 9: ADDED NOTE 2 MODIFIED PCB LAYOUT PER SFF-8433 12. SHEET 6: G20 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C14 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 13. SHEET 7 : F18 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C16 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1
2016/02/02	J	1. SHEET 3 & 4: REMOVE 1111110420

SEE REVISION TABLE EC NO: CPG2016-2974 J DRAWN: ACHENG03 2016/02/02 CHYK: APPR: RCHEN08 2016/02/04 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$	mm INCH	MM ONLY		METRIC	
	$\nabla=0$	4 PLACES \pm --- \pm ---	DRAWN BY DATE	TITLE		
	$\nabla=0$	3 PLACES \pm --- \pm ---	RMIKLINSKI 2011/06/20	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
	2 PLACES ± 0.15 \pm ---	CHECKED BY DATE	DOCUMENT NO.			
	1 PLACE ± 0.25 \pm ---	MCKERVEY 2011/08/26	SD-11112-2420			
	0 PLACE \pm \pm	APPROVED BY DATE	SHEET NO.			
	ANGULAR $\pm 1^\circ$	KLLOYD 2012/08/14	10 OF 10			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		SEE SHEET 4				