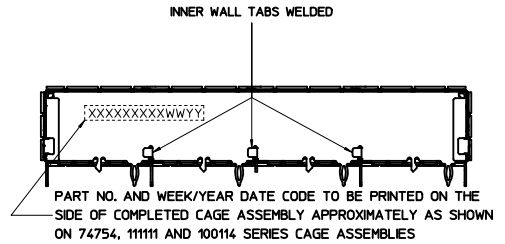
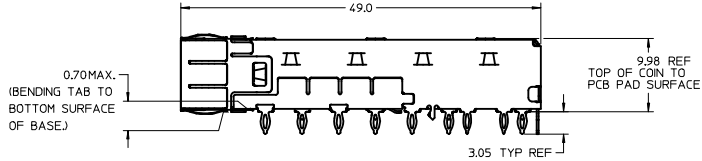
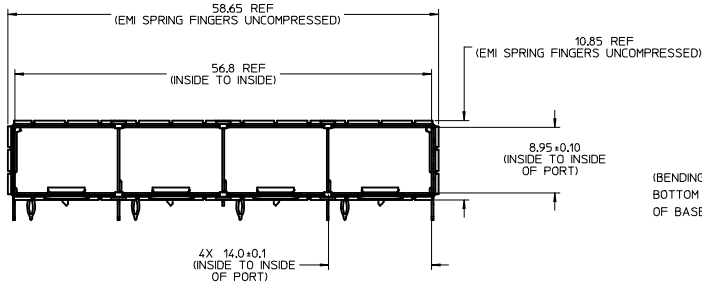
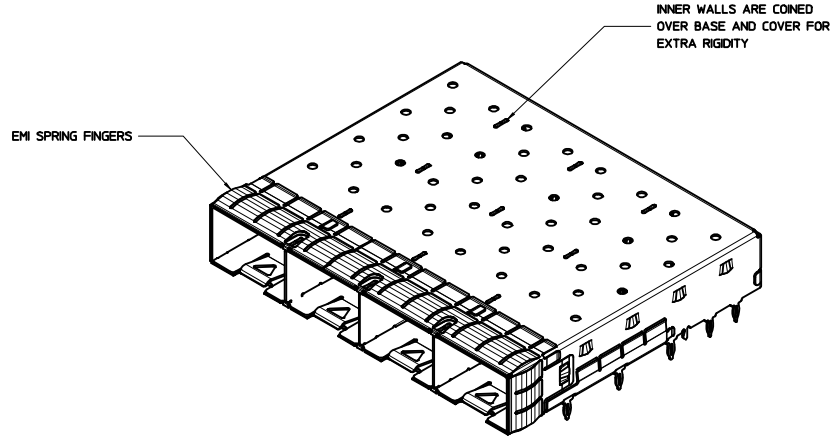
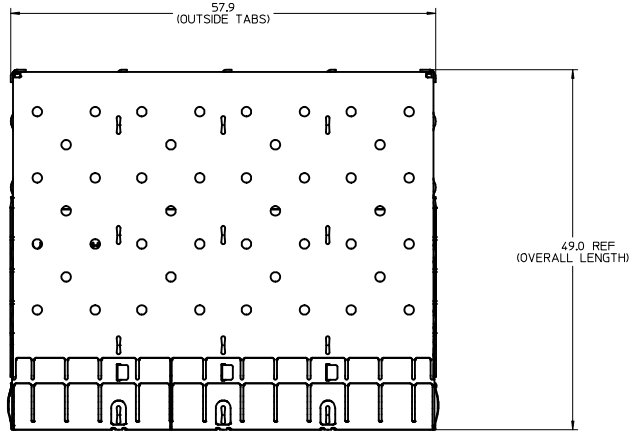


3D MODEL: TM-11112-2420

# BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)

**747540420**  
SHOWN

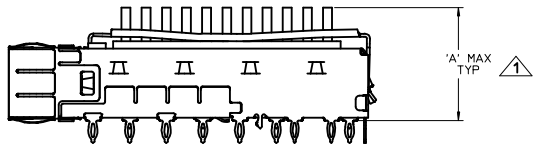
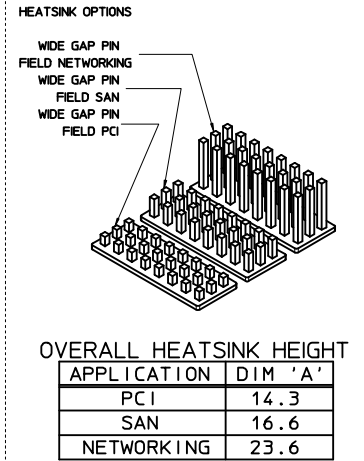
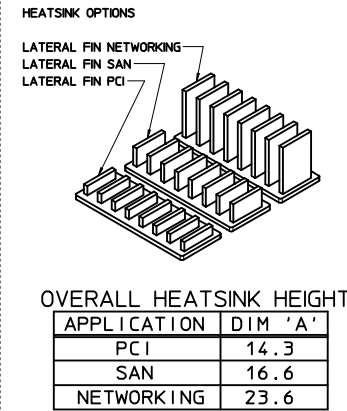
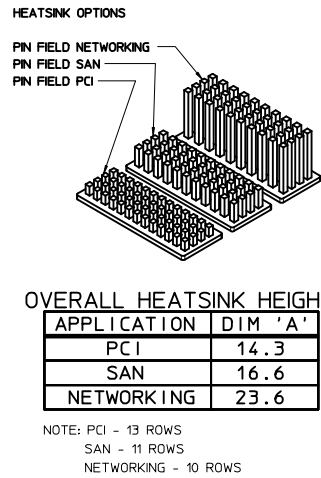
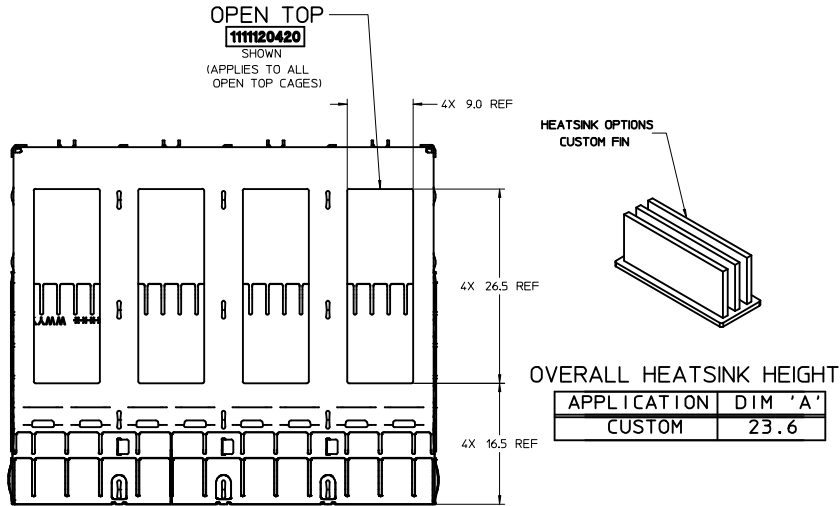


WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

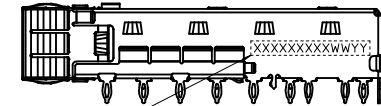
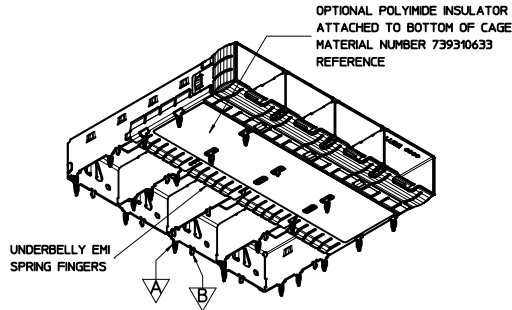
- NOTES:**
- MATERIAL:**  
 CAGE: 0.25mm THICK COPPER ALLOY, NICKEL PLATED.  
 SPRING FINGERS: 0.10mm THICK COPPER ALLOY, NICKEL PLATED.  
 HEATSINK: ALUMINUM, NICKEL PLATED.  
 HEATSINK SPRING CLIP: STAINLESS STEEL.
  - PRESS FIT LEGS 3.05mm [.120 INCH] LONG.
  - PORTS ARE DESIGNED FOR SFP+ TRANSCEIVERS 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: CHEN03 CHKD: APPR: CHEN08 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM ONLY	3:1	METRIC	☉
	4 PLACES ± ---	± ---		DRAWN BY	DATE	TITLE	
	3 PLACES ± ---	± ---		RMIKLINSKI	2011/06/20	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	
	2 PLACES ± 0.15	± ---		CHECKED BY	DATE		
	1 PLACE ± 0.25	± ---		MCKERVEY	2011/08/26		
	0 PLACE ±	±		APPROVED BY	DATE		
				KLLOYD	2012/08/14	MATERIAL NO.	DOCUMENT NO.
						SEE SHEET 4	SD-11112-2420
						SIZE	SHEET NO.
						D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	1 OF 10

# CAGE ASSEMBLY OPTIONS



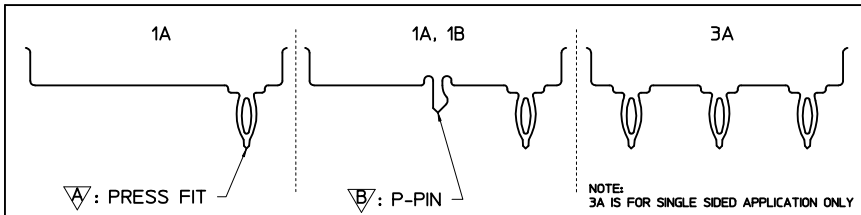
NOTES:  
▲ HEIGHT OF HEATSINK WITH MODULE INSERTED.  
DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.



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)

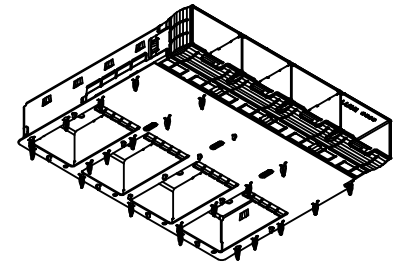
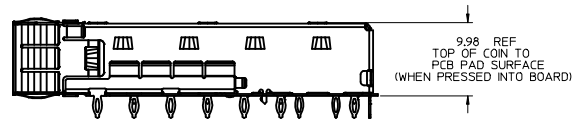
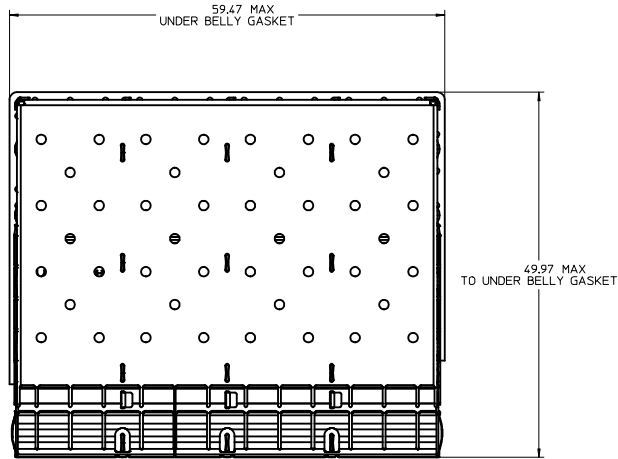


SEE REVISION TABLE EC NO: CPG2016-2974 CHKD: J APPR: CHEN08 REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH	DATE	DATE			
		4 PLACES	± .005	± .005	RMIKLINSKI	2011/06/20		TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS WITH EMI SPRING FINGERS <b>molex</b> DOCUMENT NO. SD-11112-2420 SHEET NO. 2 OF 10
		3 PLACES	± .010	± .010	CHECKED BY	DATE		
		2 PLACES	± 0.15	± .010	MMCKERVEY	2011/08/26		
		1 PLACE	± 0.25	± .010	APPROVED BY	DATE		
		0 PLACE	±	±	KLLOYD	2012/08/14		
		ANGULAR ± 1 °		MATERIAL NO.		SEE SHEET 4		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE		D		

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



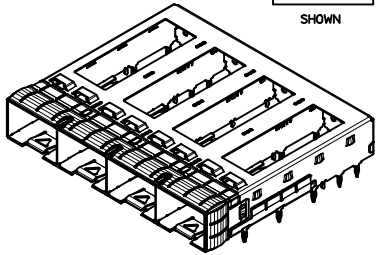
- NOTES:
- OPTIONAL UNDER BELLY GASKET ATTACHED TO BOTTOM OF CAGE (SEE P/N TABLES FOR AVAILABLE ASSEMBLIES).
  - GEN 2 UNDER BELLY GASKET IS UL94 V-0 RATED.

SEE REVISION TABLE IEC NO: CPG2016-2974 J CHYD: APPR:RCHEN03 2016/02/04 REV DESCRIPTION	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$	4 PLACES	mm	INCH	MM ONLY		3:1	METRIC	
	$\nabla=0$	3 PLACES			DRAWN BY DATE		TITLE		
	$\nabla=0$	2 PLACES			CHECKED BY DATE		SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
	1 PLACE			APPROVED BY DATE		MATERIAL NO.		DOCUMENT NO.	SHEET NO.
	0 PLACE			K LLOYD 2012/08/14		SEE SHEET 4		SD-11112-2420	3 OF 10
ANGULAR $\pm 1^\circ$					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

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

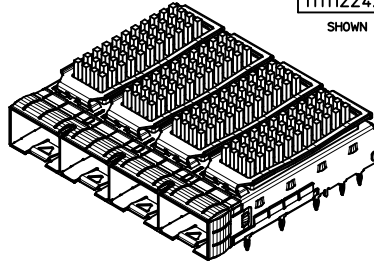
## PART NUMBER SELECTION

**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

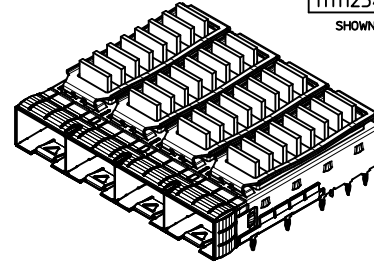
**1111122420**  
SHOWN



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

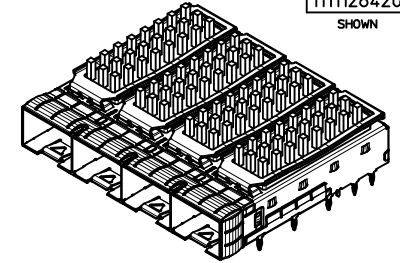
**1111125420**  
SHOWN



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

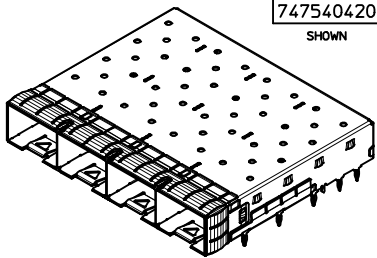
NOTE: (\*) FOR LOW COST

**1111128420**  
SHOWN



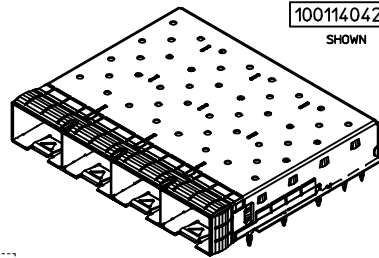
SFP+ WIDE GAP PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111127420	---	PCI	1A, 1B
1111127460	YES	PCI	1A, 1B
1111128420	---	SAN	1A, 1B
1111128460	YES	SAN	1A, 1B
1111129420	---	NET	1A, 1B
1111129460	YES	NET	1A, 1B

**747540420**  
SHOWN



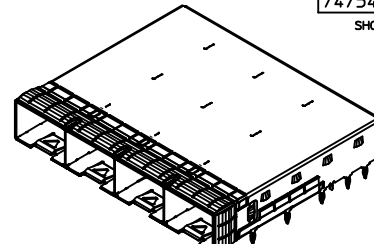
SFP+ CLOSED TOP BASE CAGE				
PART NO.	POLYIMIDE INSULATOR	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540420	---	6	1A, 1B	----
747540422	---	6	3A	----
747540423	---	19	1A, 1B	----
747540427	YES	6 <small>(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)</small>	1A, 1B	----
747540464	---	6	1A, 1B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

**1001140420**  
SHOWN



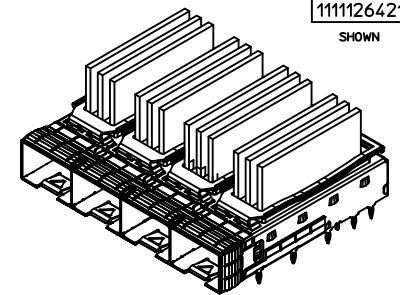
zSFP+ CLOSED TOP BASE CAGE W/ GEN 2 BELLY GASKET	
PART NO.	# OF REAR LEGS PER PORT
1001140420	1A, 1B

**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



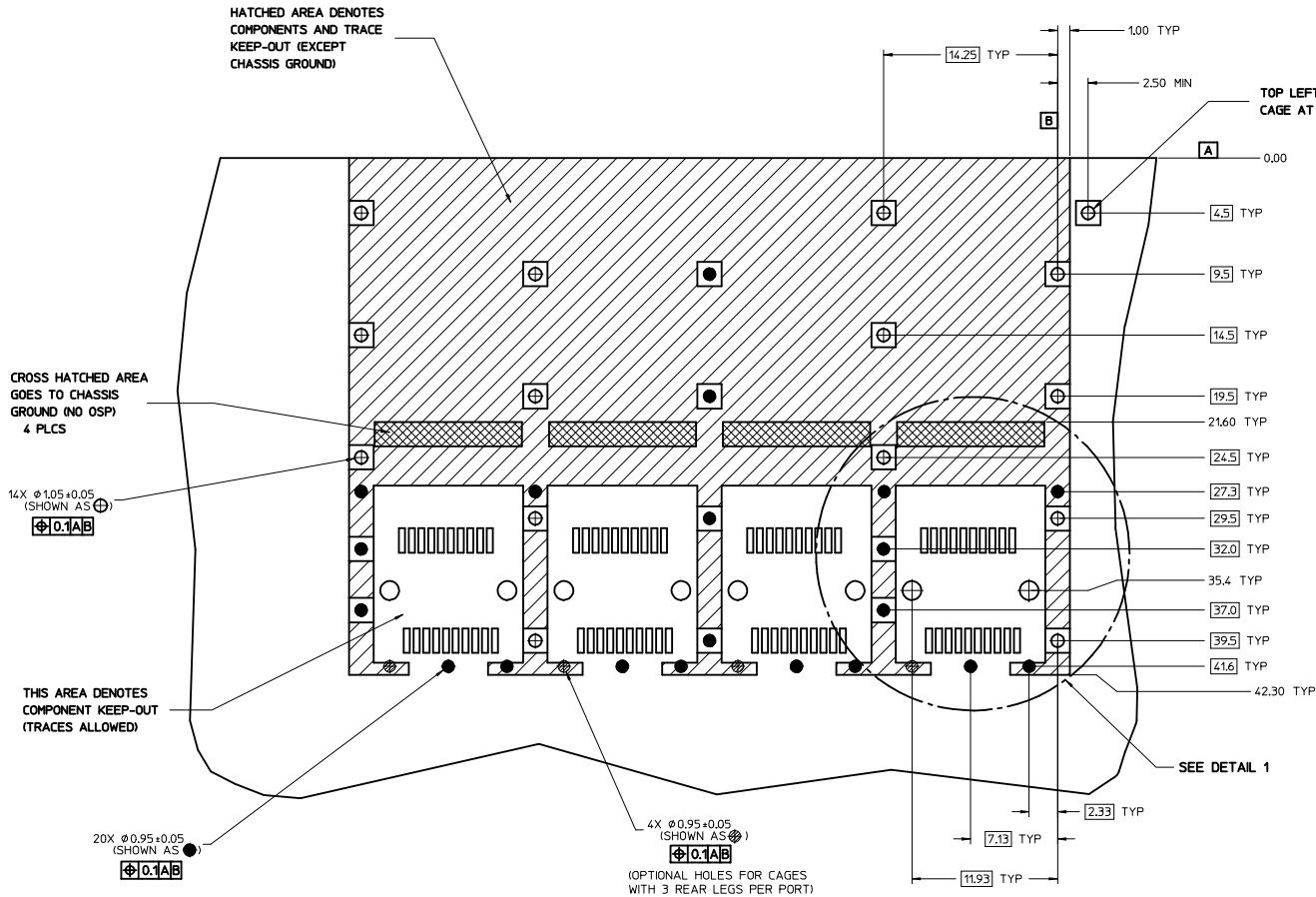
SFP+ CUSTOM FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111126421	---	CUSTOM	1A, 1B

<b>SEE REVISION TABLE</b> EC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: APPR: RCHEN08 2016/02/04	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>2:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ± 0.15 3 PLACES ± 0.25 2 PLACES ± 0.50 1 PLACE ± 0.75 0 PLACE ± 1.00	mm    INCH	DRAWN BY RMIKLINSKI	DATE 2011/06/20	TITLE <b>SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS</b>			
		ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY KLOYD	DATE 2012/08/14	MATERIAL NO. <b>SEE TABLE</b>			
						DOCUMENT NO. <b>SD-11112-2420</b>	SHEET NO. <b>4 OF 10</b>		

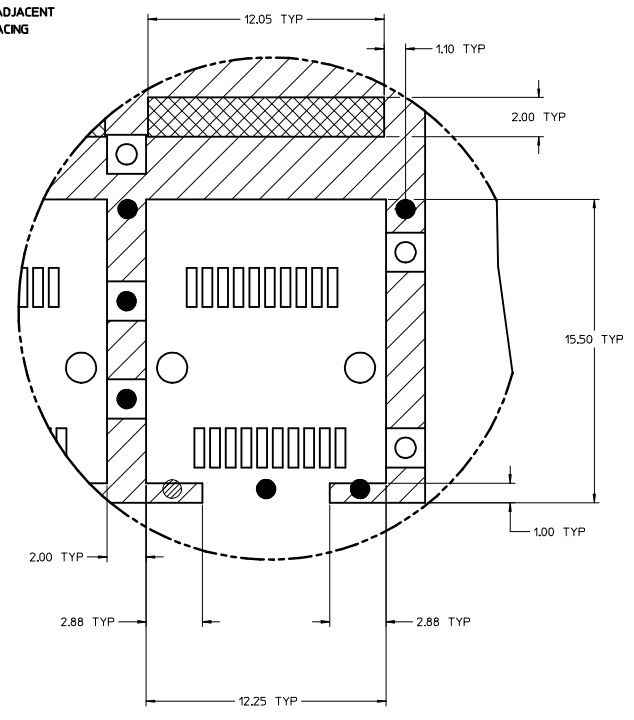
**molex**

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# PCB LAYOUT FOR SINGLE SIDE MOUNT



## HOST CONNECTOR DETAIL

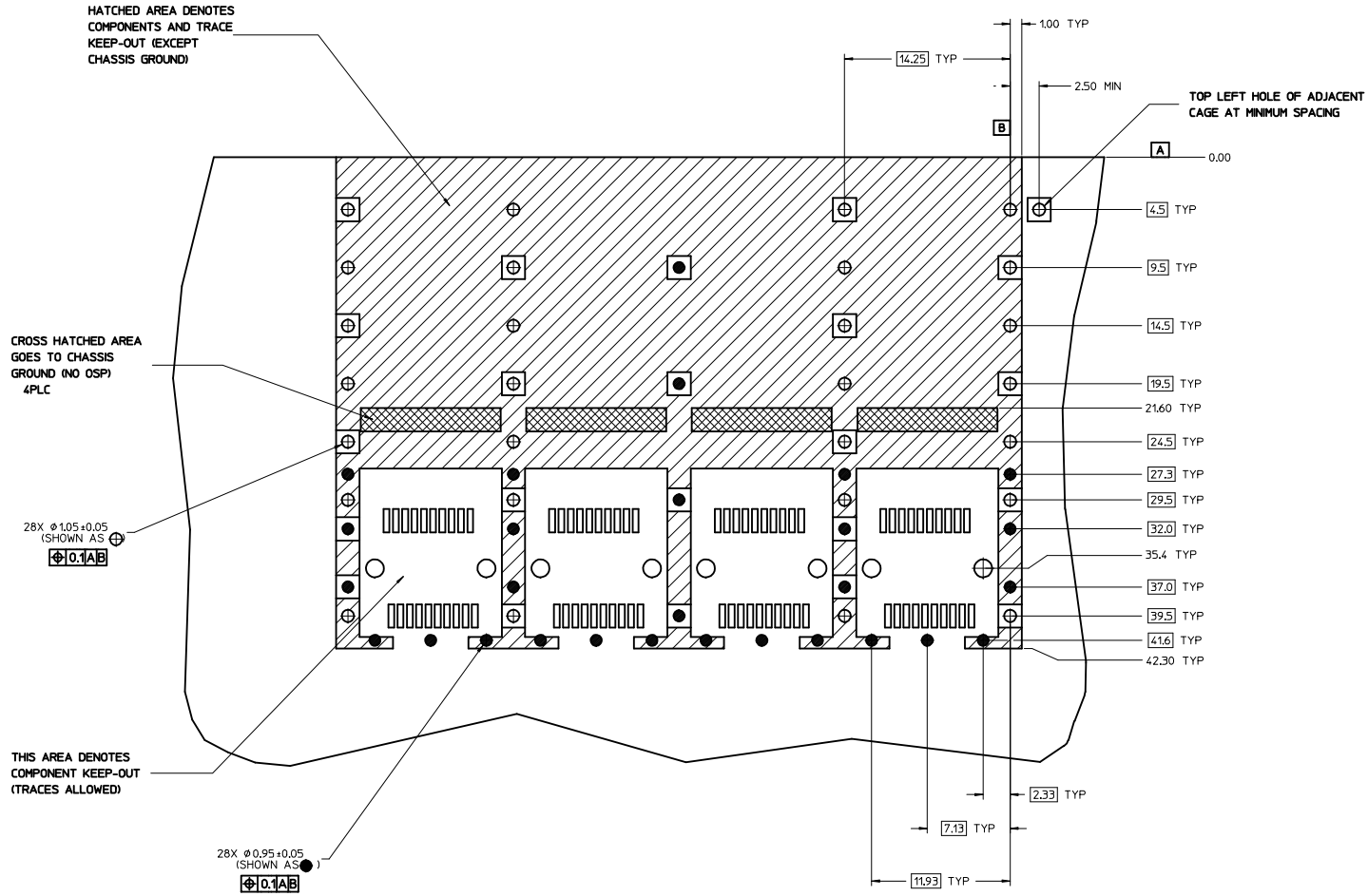


DETAIL 1  
SCALE 8:1

- 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"]

<b>SEE REVISION TABLE</b> 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
	▽=0	mm INCH	MM ONLY	5:1	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 ± --- ± ---	CHECKED BY: MMCKERVEY	DATE: 2011/08/26		
	ANGULAR ± 1 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO: SEE SHEET 4	DATE: 2012/08/14	DOCUMENT NO: SD-11112-2420	SHEET NO: 5 OF 10
			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



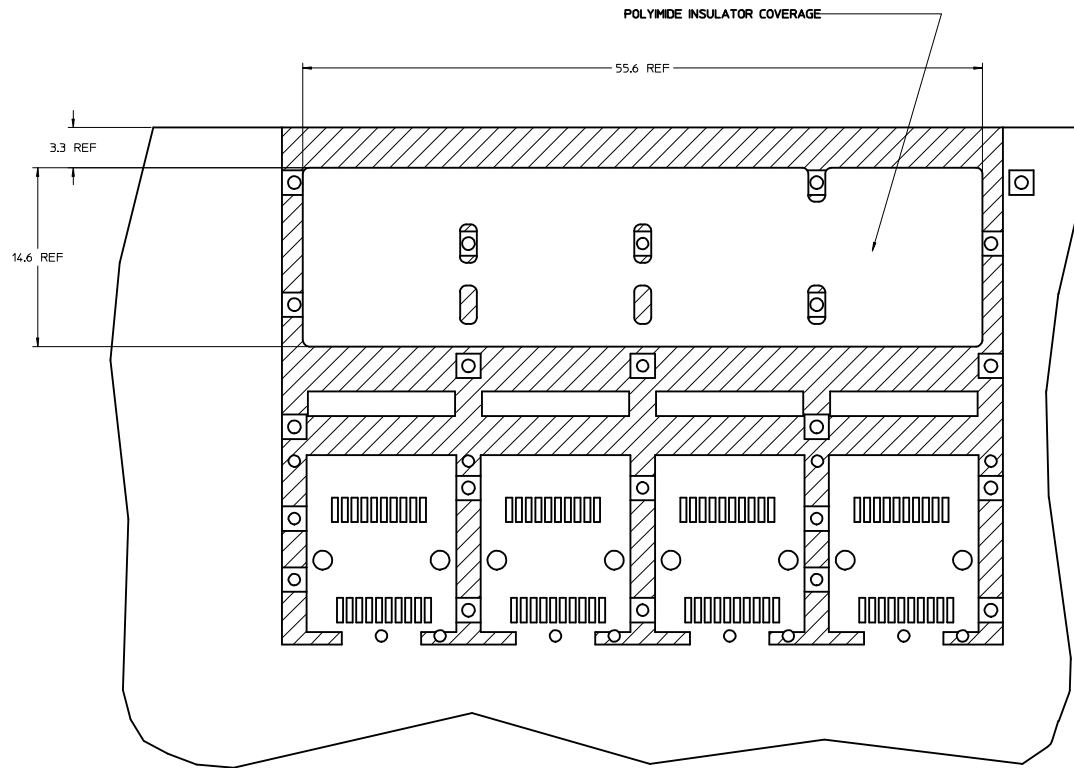
NOTE:  
SEE SHEET 5 FOR HOST  
CONNECTOR DETAIL

**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"].

<b>SEE REVISION TABLE</b> IEC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: APPR: RCHEN08 REV:	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.15 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ± ±	DIMENSION STYLE MM ONLY SCALE 5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	DRAWN BY RMIKLINSKI DATE 2011/06/20 CHECKED BY DATE MCKERVEY 2011/08/26 APPROVED BY DATE KLOYD 2012/08/14	TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS molex DOCUMENT NO. SD-11112-2420 SHEET NO. 6 OF 10	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
	ANGULAR ± 1 °					

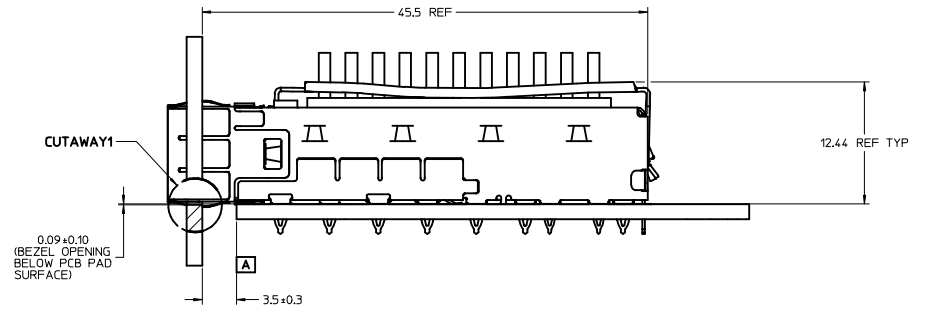
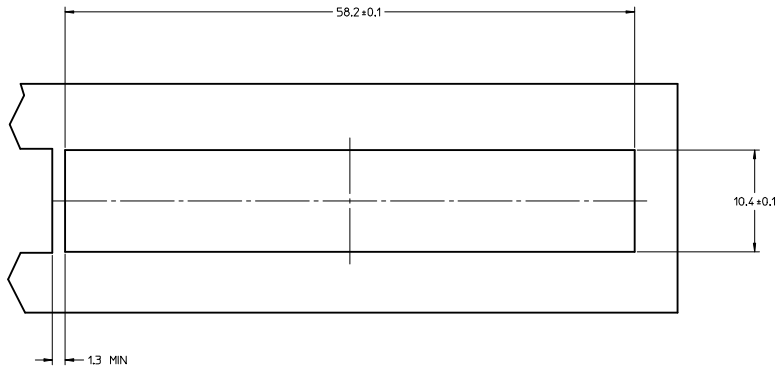
POLYIMIDE INSULATOR COVERAGE AREA  
(APPLIES TO SINGLE SIDED AND BELLY TO BELLY)



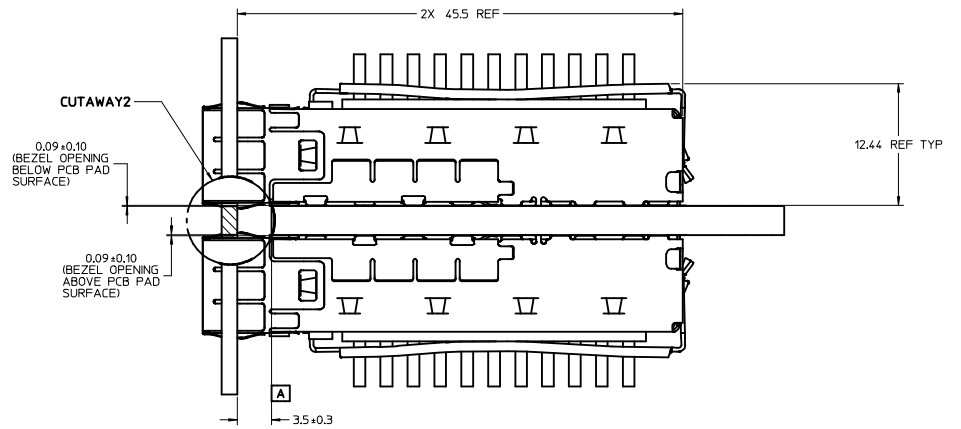
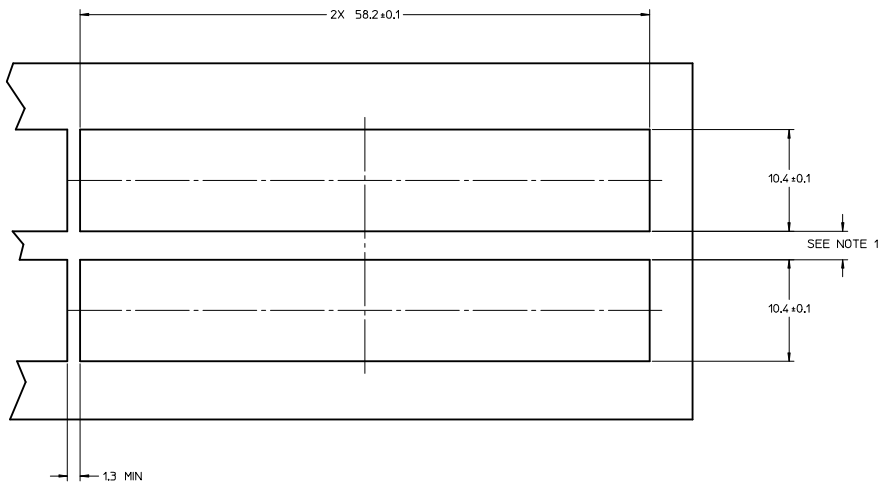
<b>SEE REVISION TABLE</b> EC NO: CPG2016-2974 DRAWN: ACHENG03 CHKD: CHYD APPR: RCHEN08 2016/02/04	<b>QUALITY SYMBOLS</b> ∇=0 ∇=0 ∇=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± .01</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES</td> <td>± .02</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	± .01	± .0004	3 PLACES	± .02	± .0008	2 PLACES	± 0.15	± .006	1 PLACE	± 0.25	± .010	0 PLACE	±	±	<b>DIMENSION STYLE</b> MM ONLY	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH																					
	4 PLACES	± .01	± .0004																					
	3 PLACES	± .02	± .0008																					
2 PLACES	± 0.15	± .006																						
1 PLACE	± 0.25	± .010																						
0 PLACE	±	±																						
		ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY RMIKLINSKI	DATE 2011/06/20	TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS WITH EMI SPRING FINGERS																			
			CHECKED BY MMCKERVEY	DATE 2011/08/26																				
			APPROVED BY KLLLOYD	DATE 2012/08/14	MATERIAL NO. <b>SEE SHEET 4</b>	DOCUMENT NO. SD-11112-2420																		

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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.


<b>SEE REVISION TABLE</b> EEC NO: CPG2016-2974 DRAWN BY: CHYD APPROVED BY: APPRCHEN08	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± 0.15 ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± ± --- 0 PLACE ± ± --- ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	DRAWN BY: RMIKLINSKI CHECKED BY: MMCKERVEY APPROVED BY: KLLOYD	DATE: 2011/06/20 DATE: 2011/08/26 DATE: 2012/08/14	TITLE SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2420	SHEET NO. 8 OF 10	moxle logo
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
	SIZE D						



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"> <li>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 &amp; 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)</li> <li>2. MOVED POLYIMIDE BELLY ISO VIEW TO E9 AND ADDED REAR LEG &amp; 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 &amp; # OF REAR LEGS PER PORT COLUMNS TO TABLES. (SHEET 2)</li> <li>3. ADDED PN'S 747500420, -0422, -0423 &amp; 1111110420 AND UPDATED TABLES, ADDING ISO VIEWS @F18 &amp; F13. ADDED P/N NOTE FOR EACH CAGE SHOWN. (SHEET 3)</li> <li>4. ADDED NOTE 5, (SHEET 4 &amp; 5). REMOVED UNNECESSARY CAGE TO PCB CONTACT PADS FROM BELLY TO BELLY LAYOUT. ADDED TYP TO ALL DIMENSIONS (SHEET 4 &amp; 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, &amp; E11 (SHEET 4). REMOVED PAD @F13 (SHEET 5).</li> <li>5. REMOVED BELLY TO BELLY VIEW AND CENTERED &amp; INCREASED SCALE OF SINGLE SIDED VIEW. (SHEET 6)</li> <li>6. REMOVED 'SEE NOTE 1' FROM DIMENSION '10.4 ±0.1', @E12 &amp; D12. ADDED 'SEE NOTE 1' BEZEL OPENING PITCH, @E12. ADDED CENTER LINES TO BEZEL OPENINGS. REMOVED CUTAWAY 7 &amp; 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 &amp; J4. (SHEET 7)</li> </ol>
2013/09/06	F	ADDED PN'S 747540426. (SHEET 3)
2013/10/14	G	<ol style="list-style-type: none"> <li>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 IN THIS LOCATION. ADDED 0.70 MAX(BENDING TAB TO BOTTOM SURFACE OF BASE) AT E13. (SHEET 1)</li> <li>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)</li> <li>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.</li> <li>4. ADDED P/N 747540427 TO TABLE AT D20 AND ADDED ISO VIEW AND TABLE FOR 1001140420 AT E3 ON SHEET 4.</li> </ol>

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			SD-11112-2420
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.	9 OF 10

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

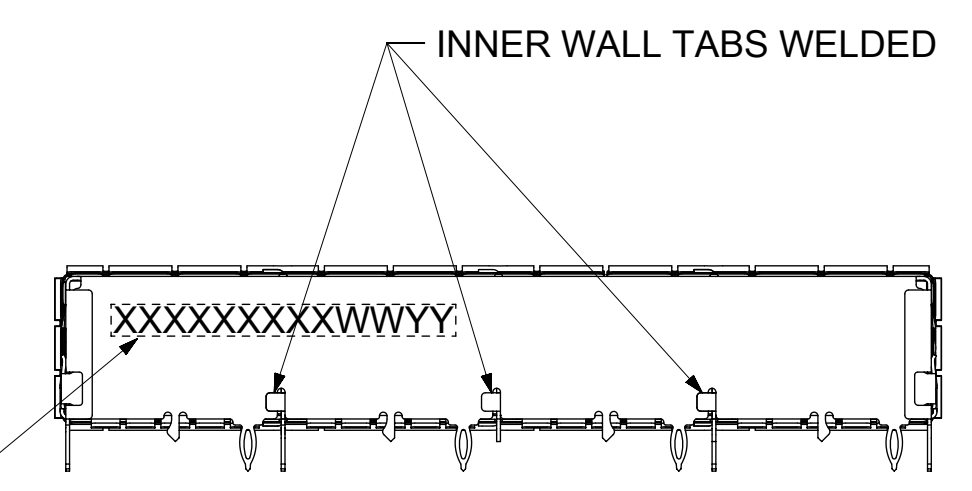
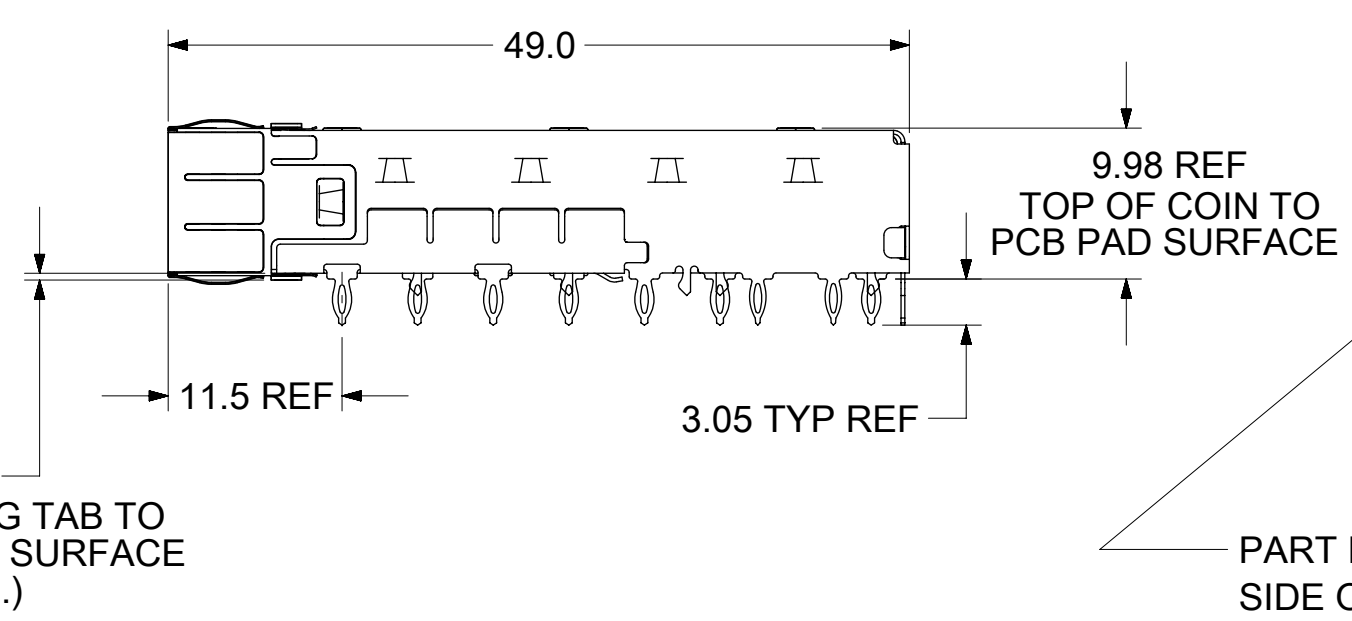
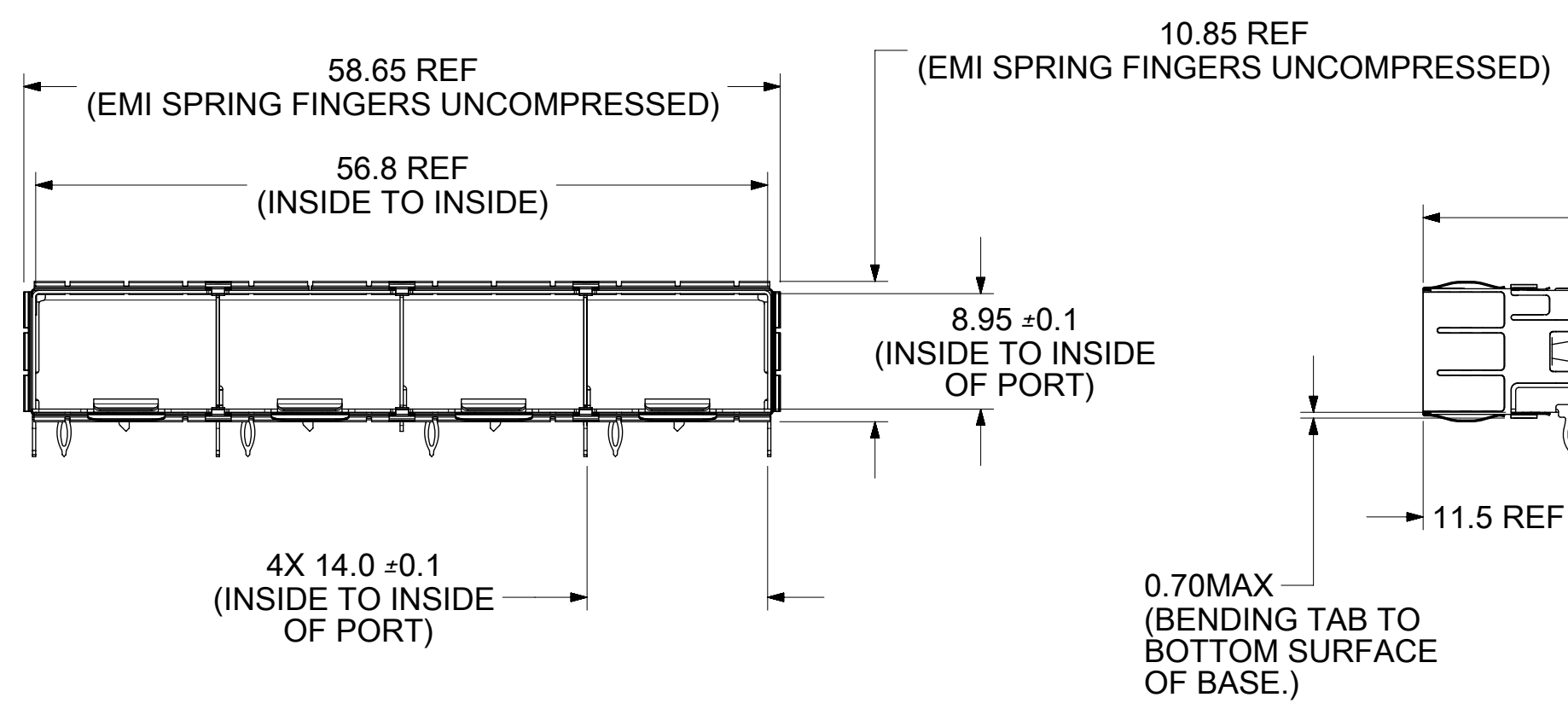
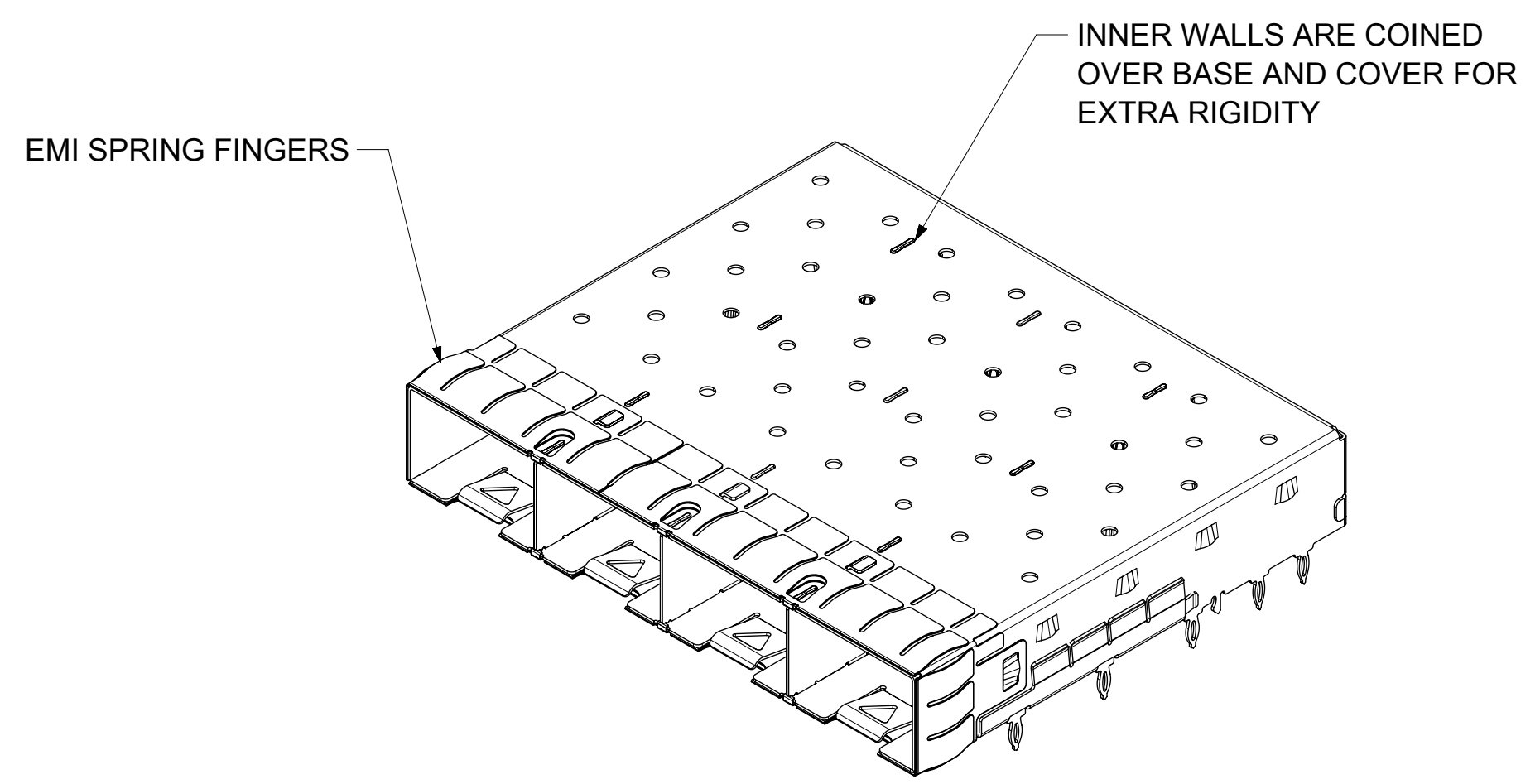
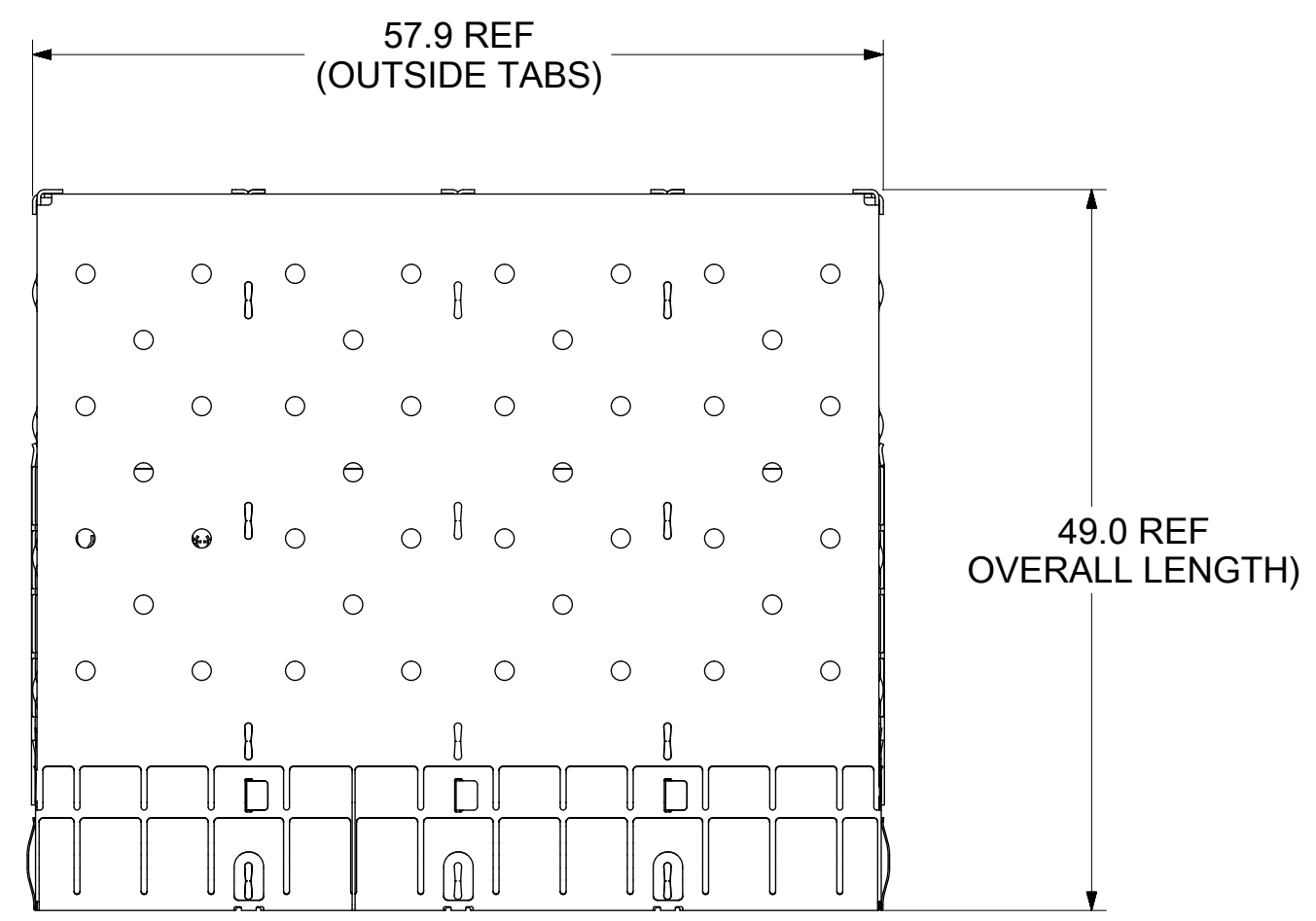
<b>SEE REVISION TABLE</b> EC NO: CPG2016-2974 J DRAWN:ACHEN03 2016/02/02 CHYD: APPR:ACHEN08 2016/02/04 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
	$\nabla=0$	4 PLACES $\pm$ mm $\pm$ INCH	DRAWN BY RMIKLINSKI	DATE 2011/06/20	TITLE <b>SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS</b>	
	$\nabla=0$	3 PLACES $\pm 0.15$	CHECKED BY MMCKERVEY	DATE 2011/08/26	 MATERIAL NO. <b>SD-11112-2420</b> DOCUMENT NO. <b>SD-11112-2420</b> SHEET NO. <b>10 OF 10</b>	
	$\nabla=0$	1 PLACE $\pm 0.25$	APPROVED BY KLLOYD	DATE 2012/08/14		
	$\nabla=0$	0 PLACE $\pm$	ANGULAR $\pm 1^\circ$ DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
SIZE <b>D</b> THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

# BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)

747540420

SHOWN



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN ON 74754 AND 111111 SERIES CAGE ASSEMBLIES

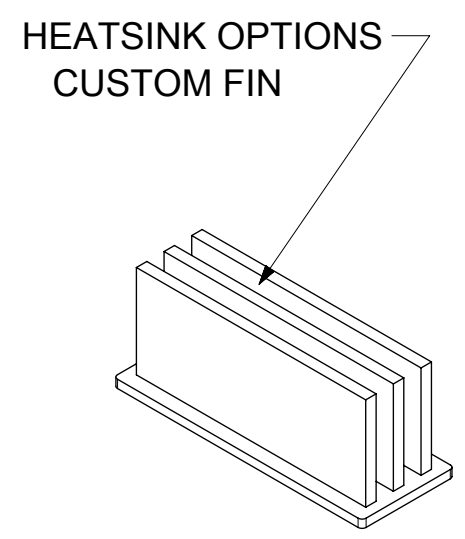
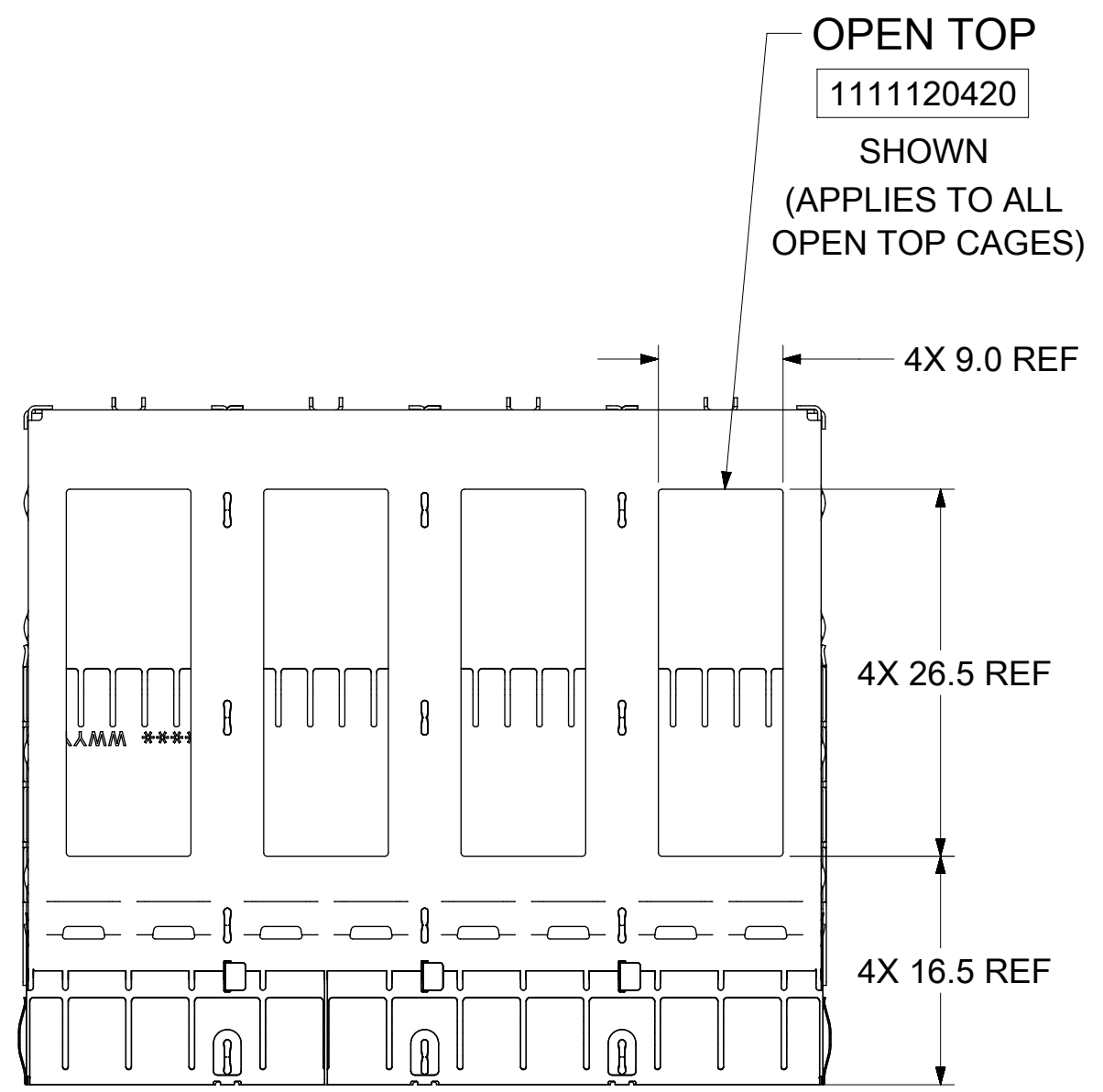
NOTES:

- 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	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

QUALITY SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS: MM SCALE: 2:1		<b>molex</b>	
SEE REVISION TABLE EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV: APPR: RCHEN08		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.15 1 PLACE ± 0.25 0 PLACES ±		DRWN BY: VK10 DATE: 2016/06/02		SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN BY: DSUN15 DATE: 2016/07/30		APPR BY: RCHEN08 DATE: 2016/08/03		PRODUCT CUSTOMER DRAWING	
DRAWING SIZE: C		THIRD ANGLE PROJECTION		SERIES: 111112 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER: GENERAL MARKET		DOCUMENT NUMBER: 111122420 DOC TYPE: PSD DOC PART: ASY SHEET NUMBER: 1 OF 8	

# CAGE ASSEMBLY OPTIONS

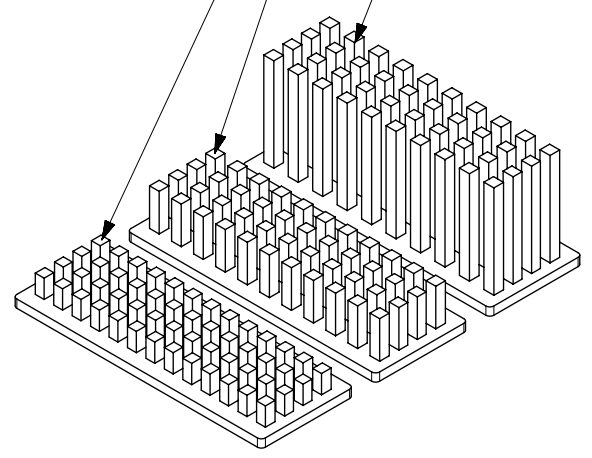


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

## HEATSINK OPTIONS

- PIN FIELD NETWORKING
- PIN FIELD SAN
- PIN FIELD PCI



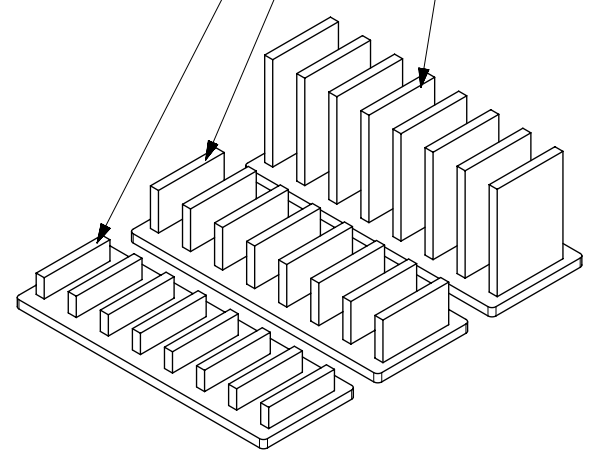
OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

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

## HEATSINK OPTIONS

- LATERAL FIN NETWORKING
- LATERAL FIN SAN
- LATERAL FIN PCI

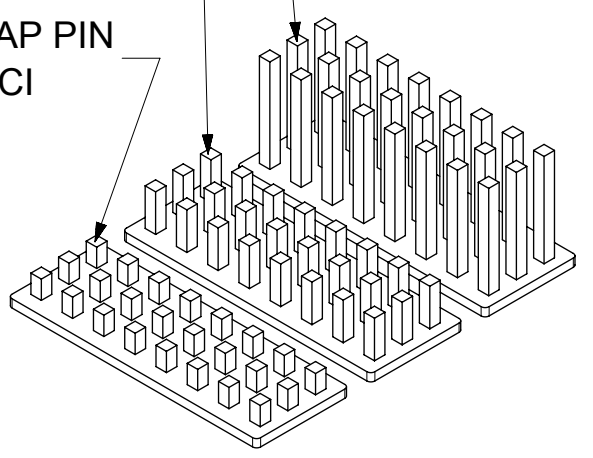


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

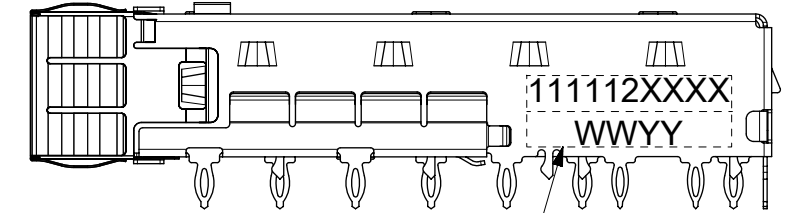
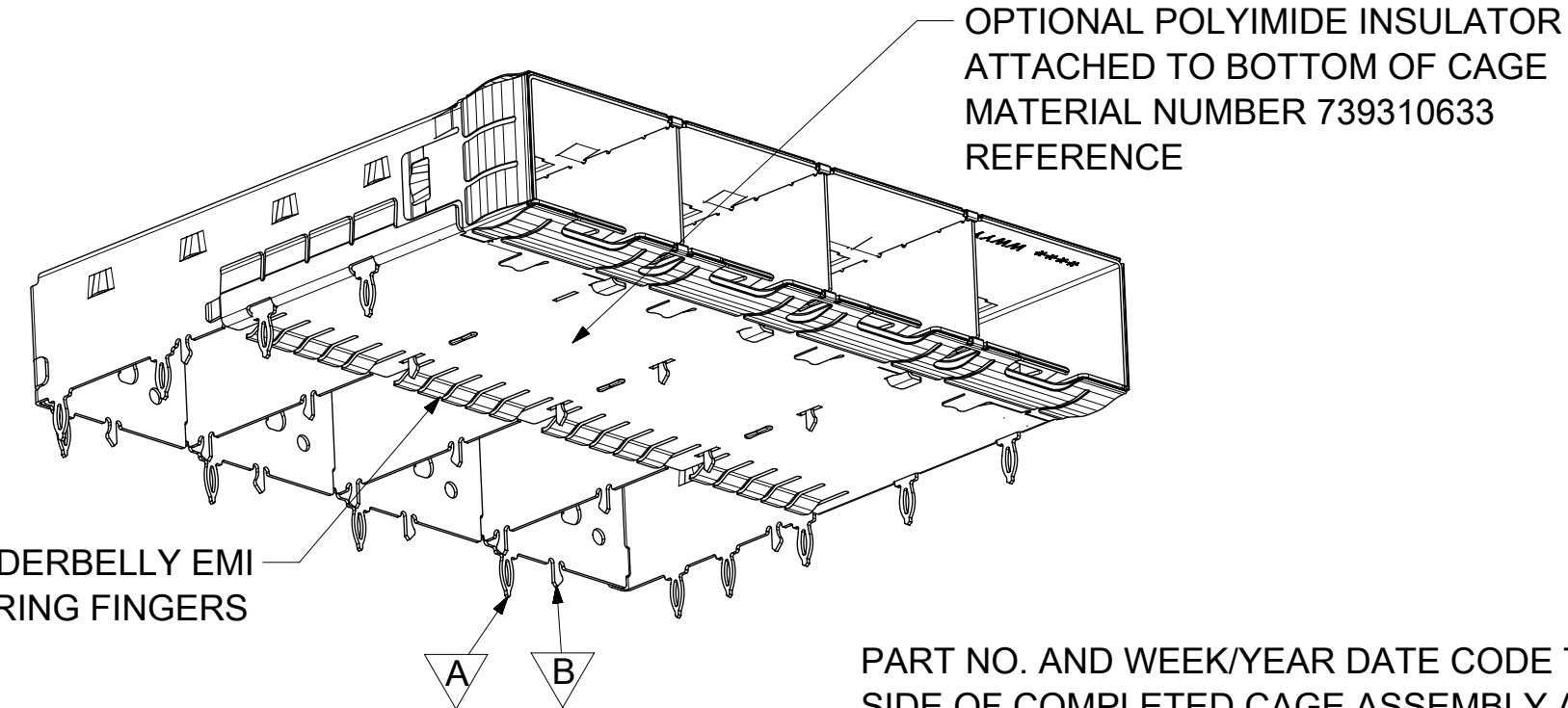
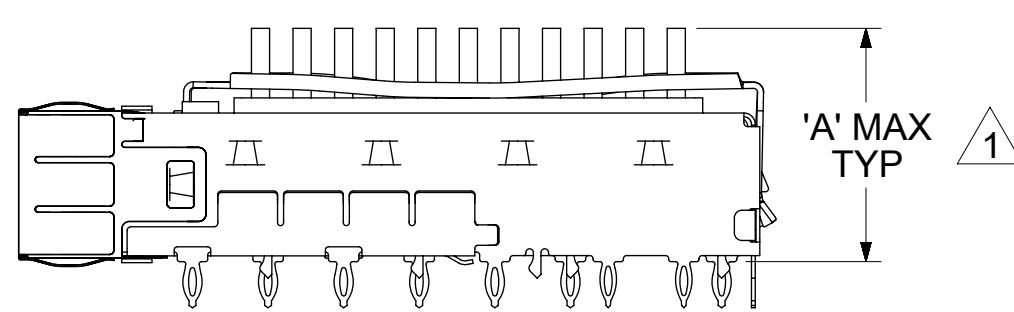
## HEATSINK OPTIONS

- WIDE GAP PIN FIELD NETWORKING
- WIDE GAP PIN FIELD SAN
- WIDE GAP PIN FIELD PCI



OVERALL HEATSINK HEIGHT

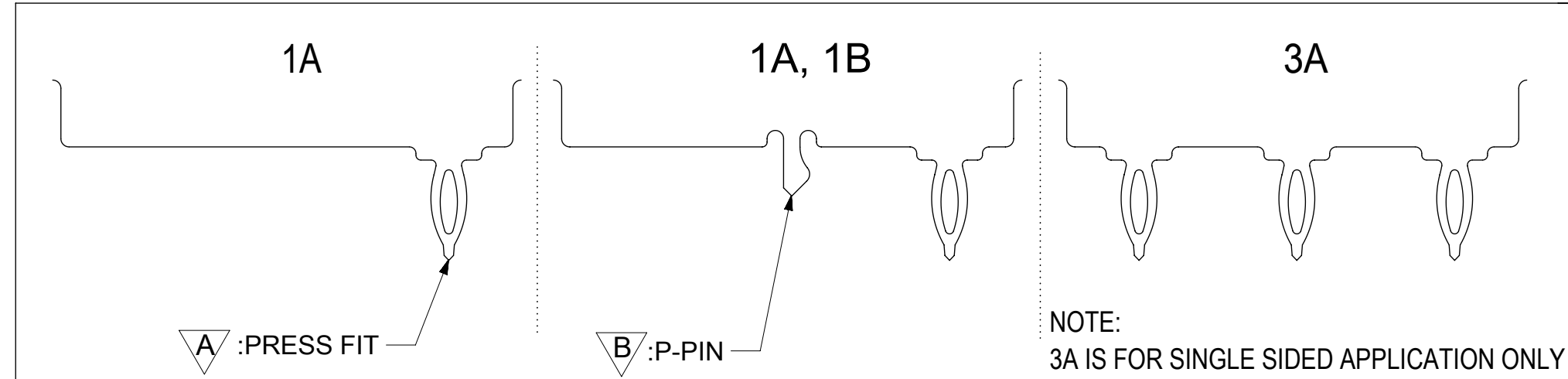
APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6



NOTES:  
1 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.

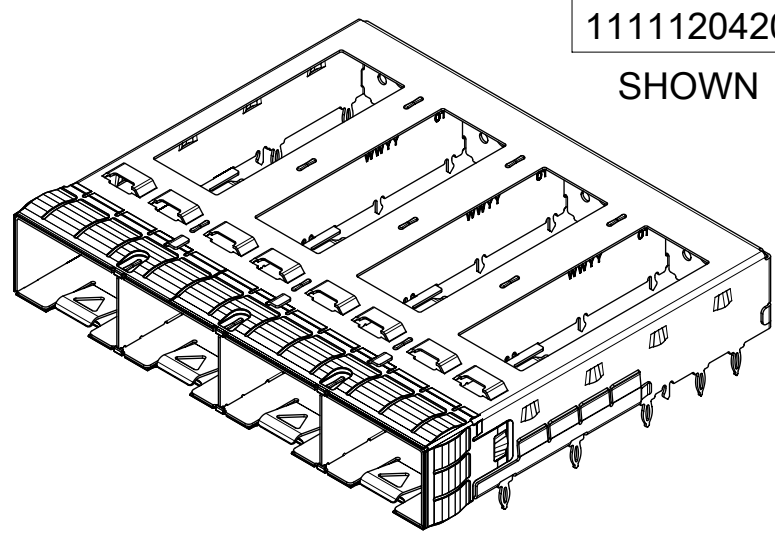
## REAR LEG OPTIONS (PER PORT)



WEEK/YEAR DATE CODE TABLE	
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YY	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

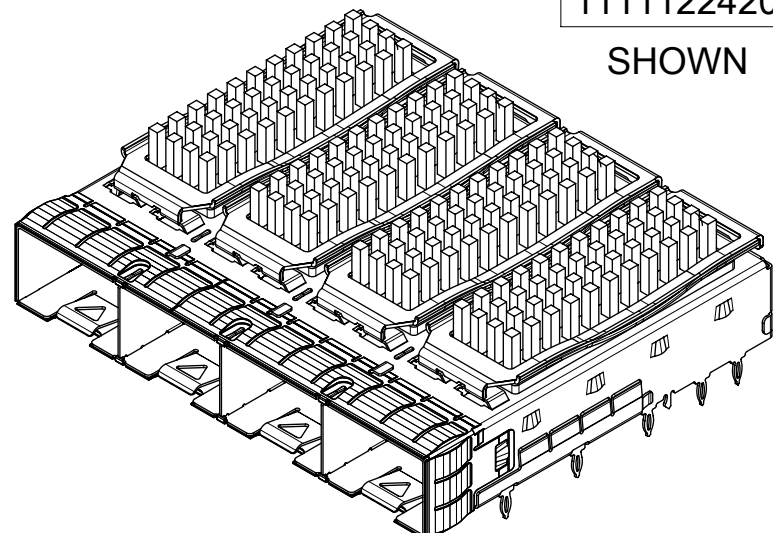
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# PART NUMBER SELECTION



1111120420  
SHOWN

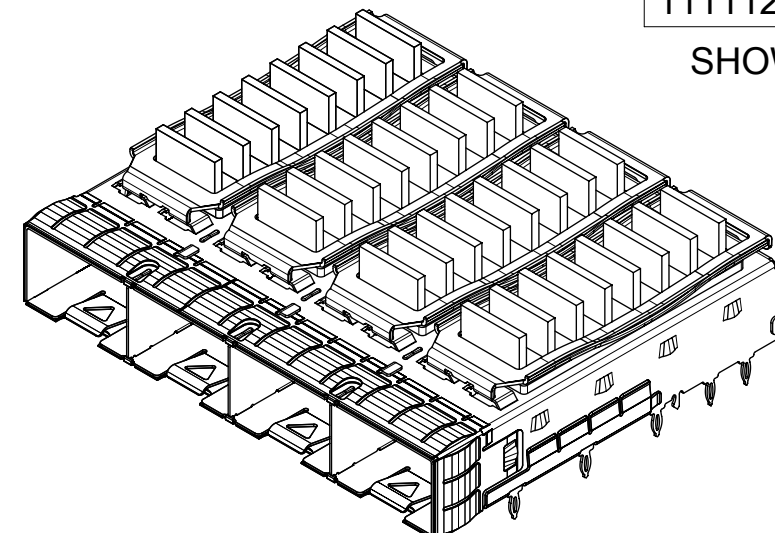
SFP+ OPEN TOP BASE CAGE FOR HEATSINK		
PART NO.	POLYIMIDE INSULATOR	# OF REAR LEGS PER PORT
1111120420	---	1A, 1B
1111120460	YES	1A, 1B
1111120494	---	1A, 1B



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

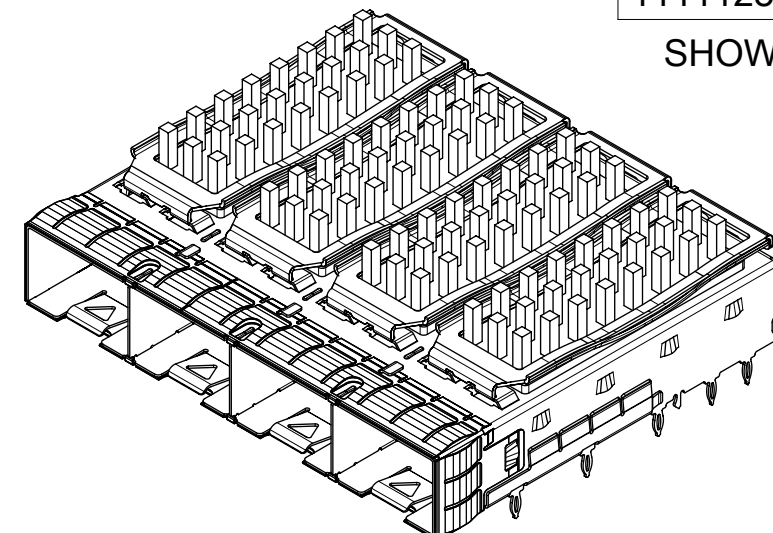
NOTE: PCI-13ROWS  
SAN-11ROWS  
NET-10ROWS



1111125420  
SHOWN

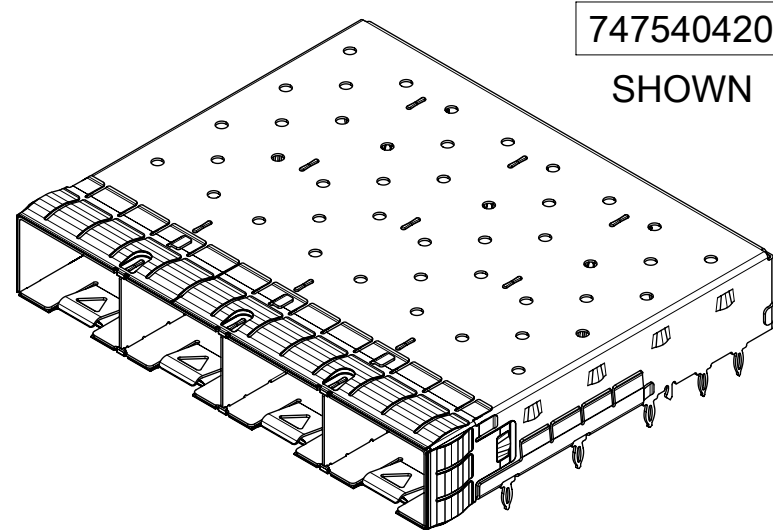
SFP+ LATERAL FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111124420	---	PCI	1A, 1B
1111124460	YES	PCI	1A, 1B
1111125420	---	SAN	1A, 1B
1111125421	---	SAN(*)	1A, 1B
1111125460	YES	SAN	1A, 1B
1111126420	---	NET	1A, 1B
1111126460	YES	NET	1A, 1B

NOTE: (\*)FAR LOW CAST



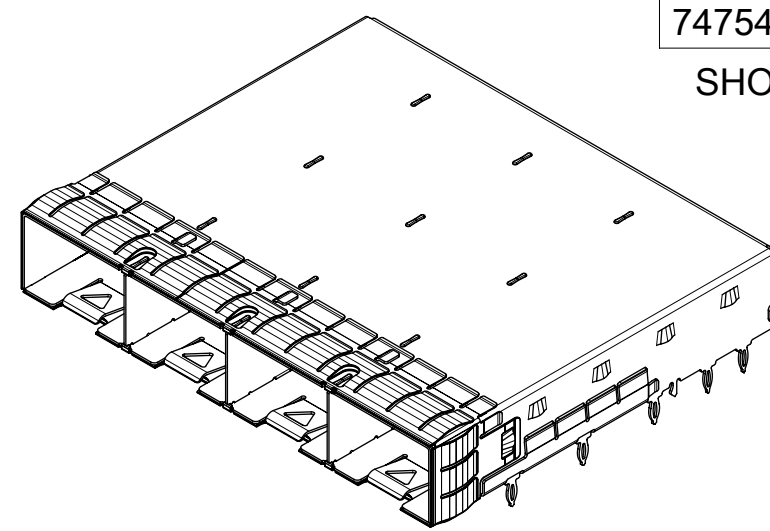
1111128420  
SHOWN

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



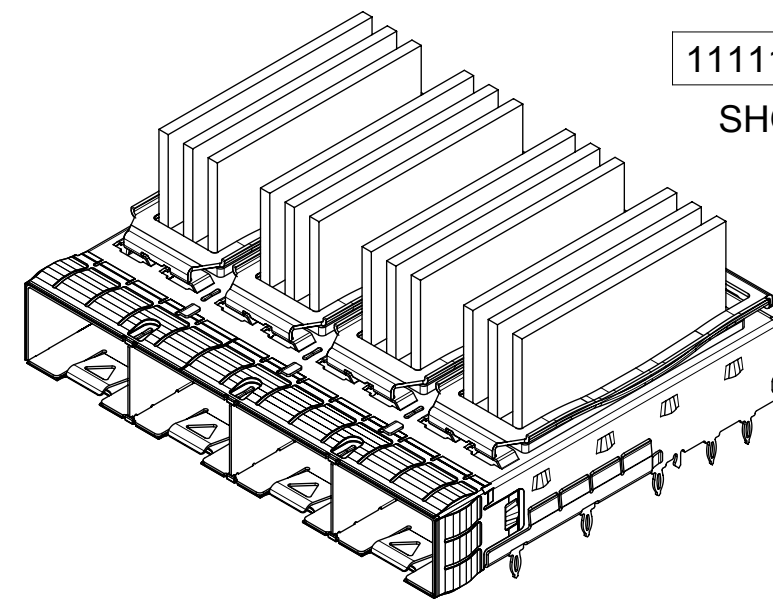
747540420  
SHOWN

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 <small>(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)</small>	1A, 1B	----
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 <small>(15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)</small>	1A, 1B	OVER ALL: MAT TIN PLATED 2.0µm MIN.

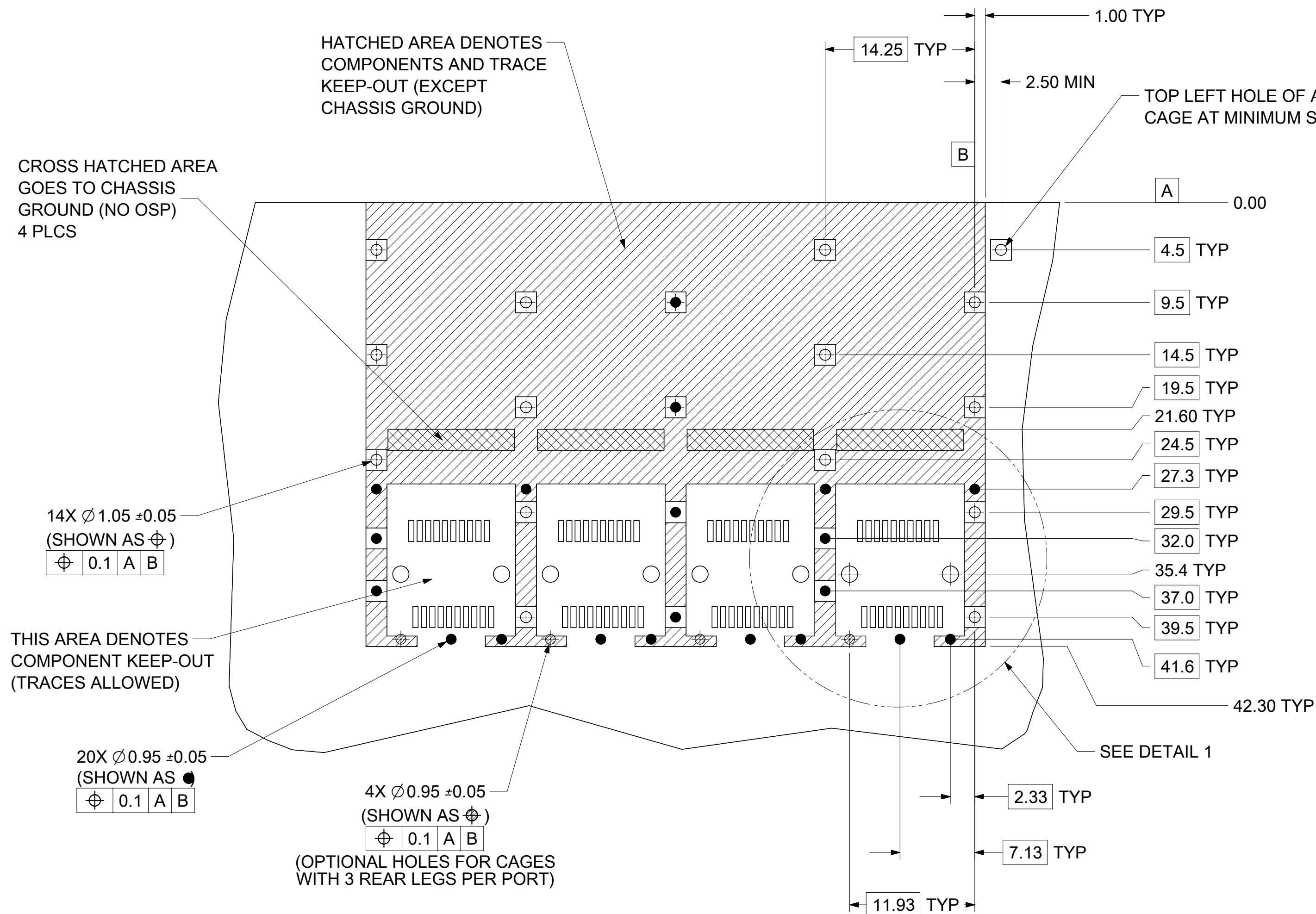


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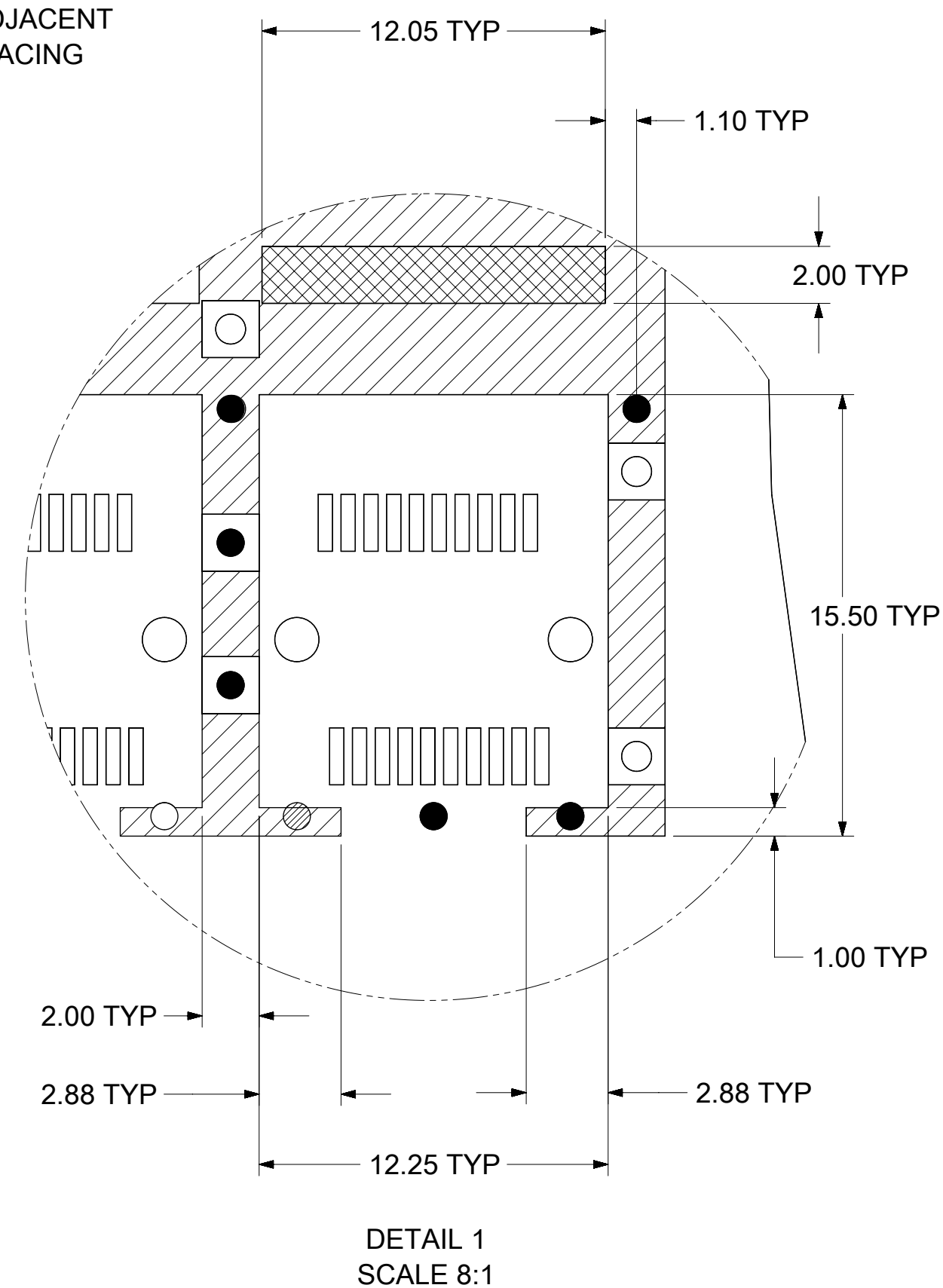
SFP+ CUSTOM FIN HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111126421	---	CUSTOM	1A, 1B

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
SEE REVISION TABLE EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV APPR: RCHEN08	2016/06/02	2016/07/30	2016/08/03	
	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS SCALE
				MM 4:3
	ANGULAR TOL ± 1.0 °			DRWN BY DATE
	4 PLACES ±			VK10 2016/06/02
	3 PLACES ±			CHKD BY DATE
	2 PLACES ± 0.15			DSUN15 2016/07/30
	1 PLACE ± 0.25			APPR BY DATE
	0 PLACES ±			RCHEN08 2016/08/03
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE THIRD ANGLE PROJECTION
		C		
<b>molex</b>				
SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS				
PRODUCT CUSTOMER DRAWING				
SERIES	MATERIAL NUMBER	CUSTOMER		
111112	SEE TABLE	GENERAL MARKET		
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER	
1111122420	PSD	ASY	3 OF 8	

# PCB LAYOUT FOR SINGLE SIDE MOUNT



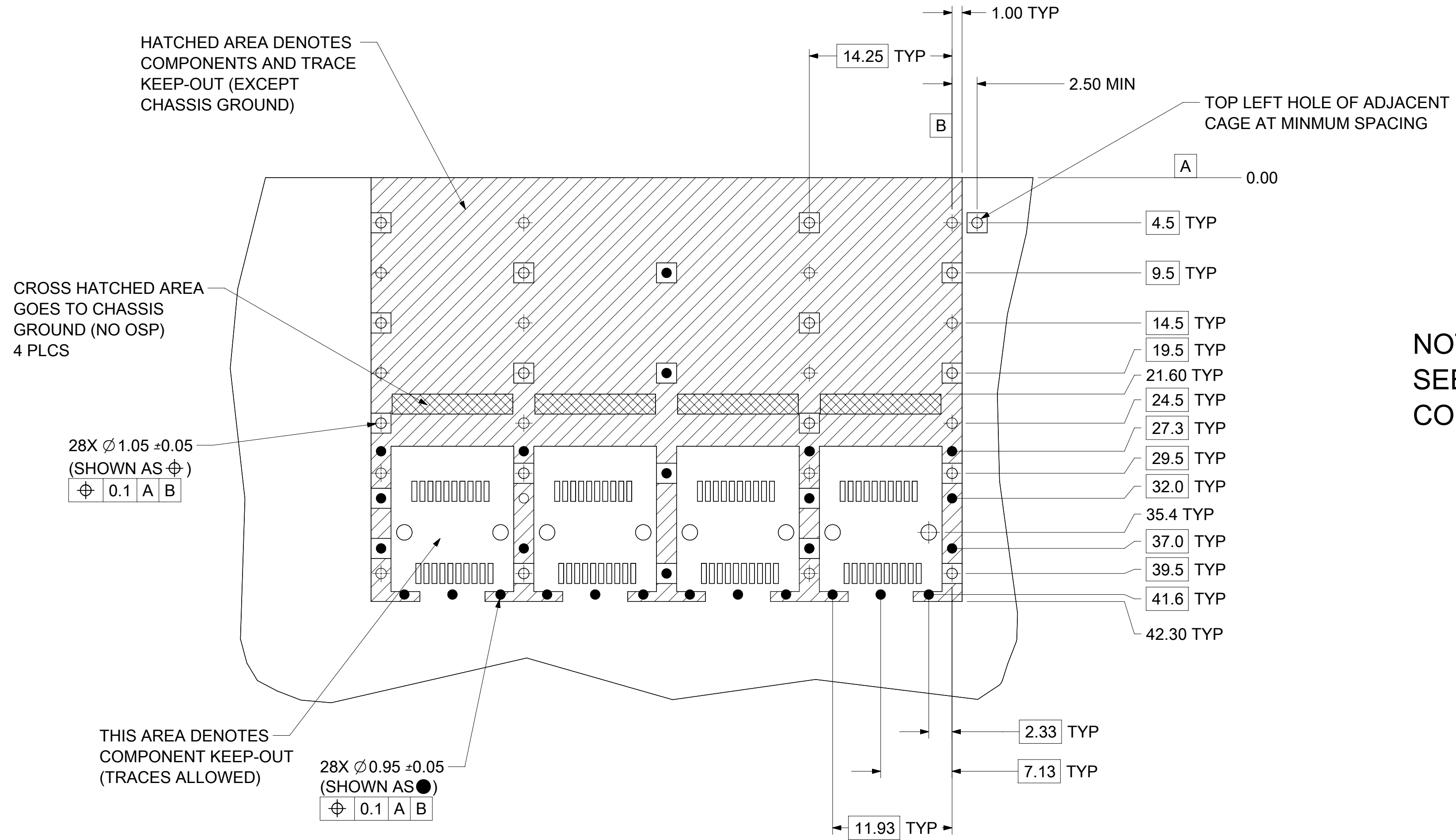
## HOST CONNECTOR DETAIL



- 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 SINGLE SIDED USE 1.57mm [0.062"].

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
$\nabla$	= 0	SEE REVISION TABLE	EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV / APPR: RCHEN08	2016/06/02 2016/07/30 2016/08/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	<b>molex</b>		
$\nabla$	= 0				ANGULAR TOL $\pm 1.0^\circ$		MM	3:1			
$\nabla$	= 0				4 PLACES	$\pm$	DRWN BY	DATE	SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
$\nabla$	= 0				3 PLACES	$\pm$	VK10	2016/06/02			
$\nabla$	= 0				2 PLACES	$\pm 0.15$	CHKD BY	DATE	PRODUCT CUSTOMER DRAWING		
$\nabla$	= 0	1 PLACE	$\pm 0.25$	DSUN15	2016/07/30						
$\boxtimes$	= 0	0 PLACES	$\pm$	APPR BY	DATE	SERIES MATERIAL NUMBER CUSTOMER					
$\bullet$	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			RCHEN08				2016/08/03	111112	SEE SHEET 3
$\nabla$	= 0	DRAWING SIZE		THIRD ANGLE PROJECTION		DOCUMENT NUMBER		DOCS	DOC PART	SHEET NUMBER	
		C				1111122420		PSD	ASY	4 OF 8	

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING

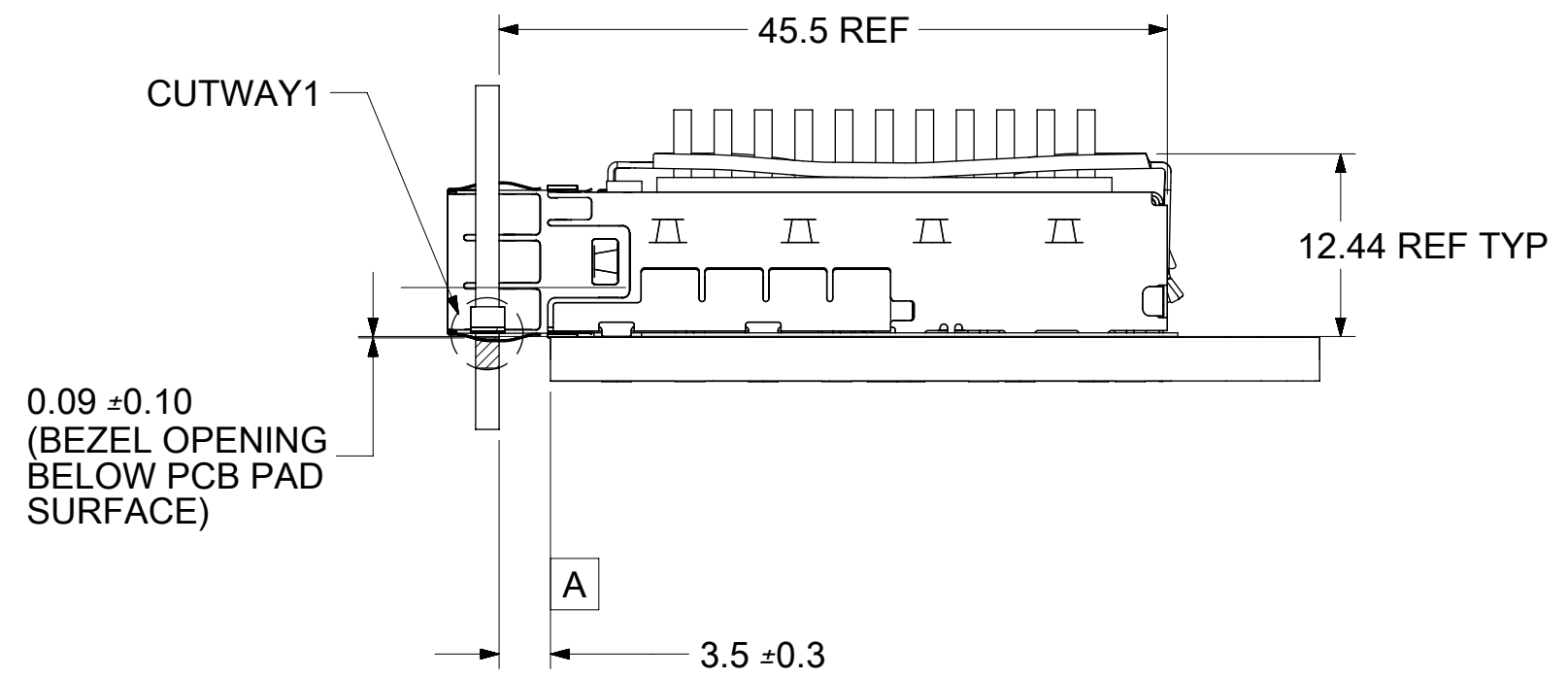
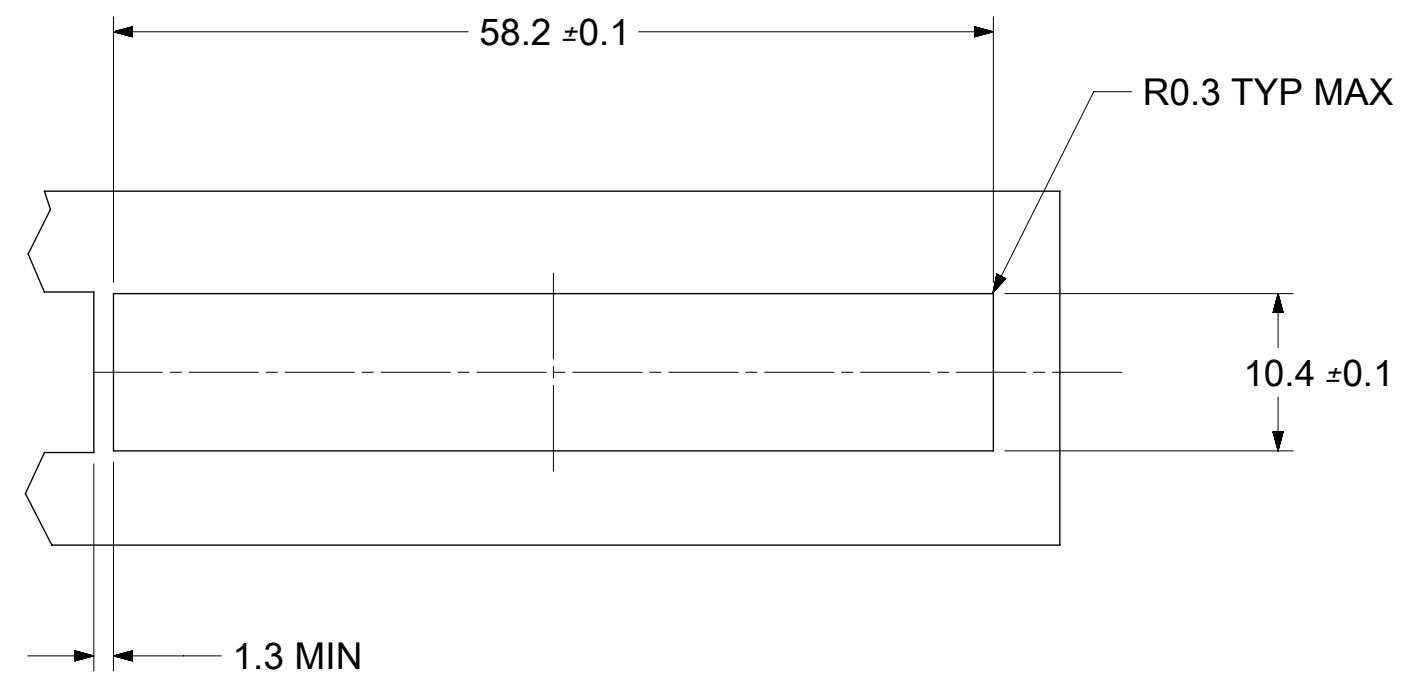


**NOTE:**  
SEE SHEET 5 FOR HOST  
CONNECTOR DETAIL

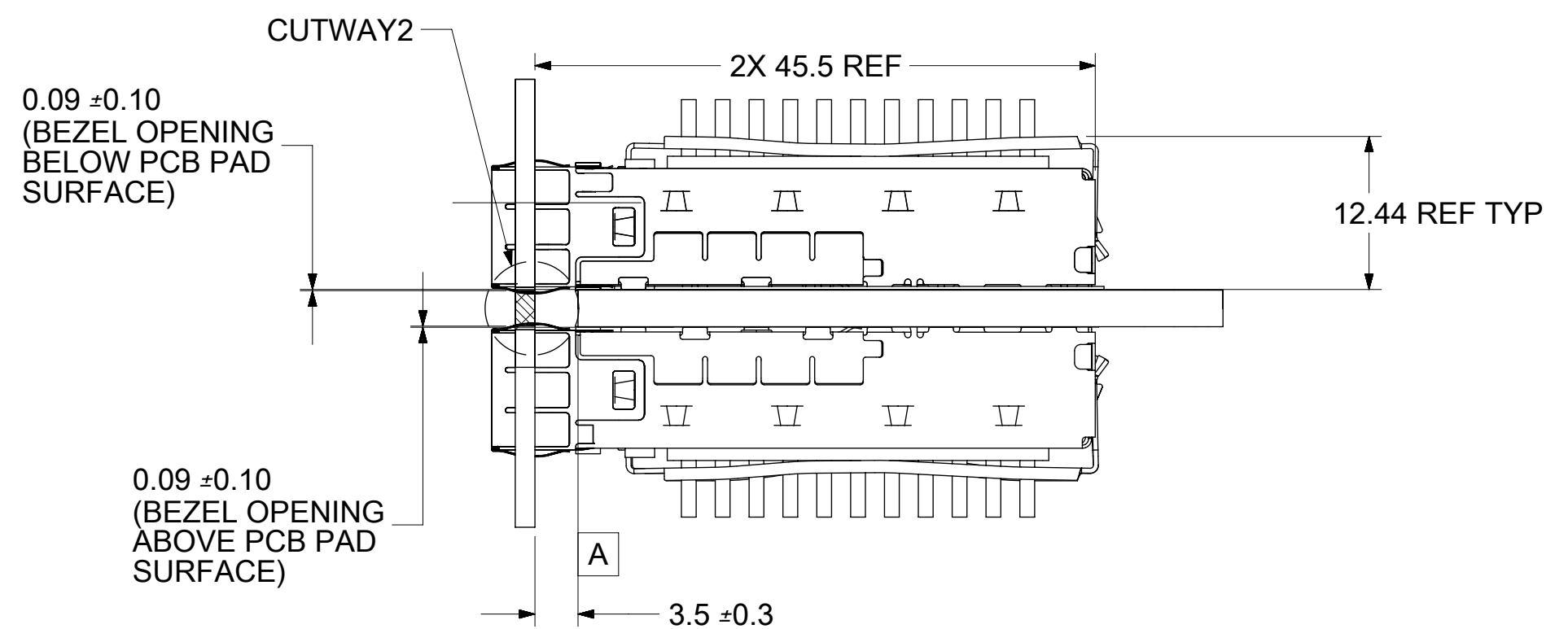
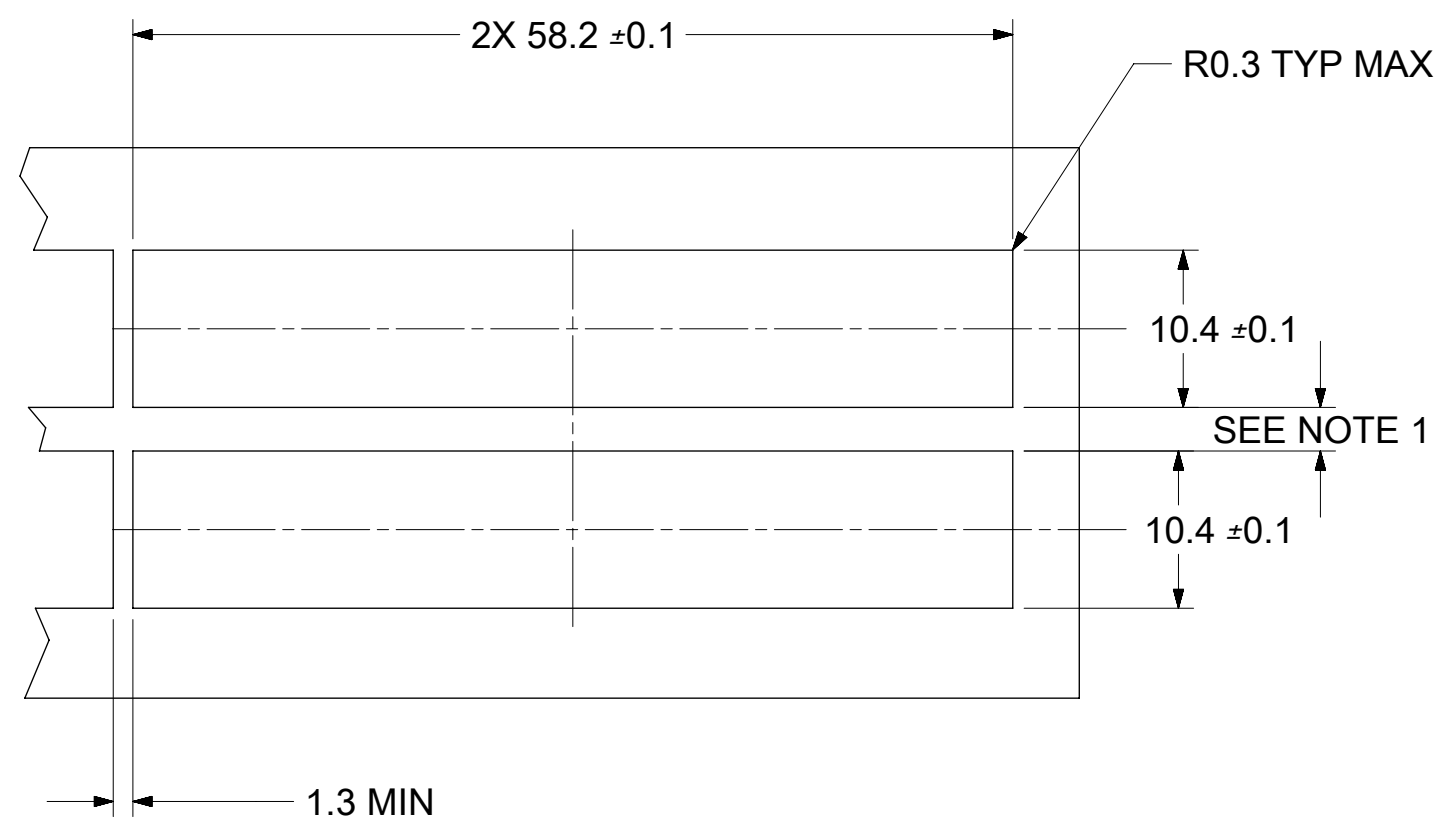
- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED PADS TO BE 2.00mm SQUARE)
  2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
  3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
  4. HOLE PATTERN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

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
▽ = 0	▽ = 0	SEE REVISION TABLE	EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV / APPR: RCHEN08	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION UNITS	SCALE	<b>molex</b>		
▽ = 0	▽ = 0			ANGULAR TOL ± 1.0 °				MM	3:1			
▽ = 0	▽ = 0			4 PLACES ±		3 PLACES ±		DRWN BY	DATE	SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
▽ = 0	▽ = 0			2 PLACES ± 0.15		1 PLACE ± 0.25		VK10	2016/06/02			
▽ = 0	▽ = 0			0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHKD BY	DATE	PRODUCT CUSTOMER DRAWING		
▽ = 0	▽ = 0	C		THIRD ANGLE PROJECTION		DSUN15	2016/07/30					
RELEASE STATUS		P1	RELEASE DATE	04.08.2016	03:02:00	SERIES		MATERIAL NUMBER	CUSTOMER	DOCUMENT NUMBER		
12		11	10		9	8	11112	SEE SHEET 3	GENERAL MARKET	111122420		
12		11	10		9	8	DOC TYPE	DOC PART	SHEET NUMBER	111122420		
12		11	10		9	8	PSD	ASY	5 OF 8	1		

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



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


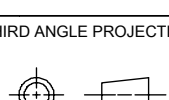


**NOTE:**  
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING LOCATION.  
 2. CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB.

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
▽ = 0	▽ = 0	SEE REVISION TABLE EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV: APPR: RCHEN08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	<b>molex</b> <sup>®</sup>				
▽ = 0	▽ = 0		ANGULAR TOL ± 1.0 °		MM	2:1					
▽ = 0	▽ = 0		4 PLACES ±	DRWN BY		DATE		SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS			
▽ = 0	▽ = 0		3 PLACES ±	VK10		2016/06/02					
▽ = 0	▽ = 0		2 PLACES ± 0.15	CHKD BY		DATE		PRODUCT CUSTOMER DRAWING			
▽ = 0	▽ = 0		1 PLACE ± 0.25	DSUN15		2016/07/30					
□ = 0	■ = 0	0 PLACES ±	APPR BY		DATE		SERIES MATERIAL NUMBER CUSTOMER 111112 SEE SHEET 3 GENERAL MARKET				
▽ = 0	▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		RCHEN08		2016/08/03					
			DRAWING SIZE		THIRD ANGLE PROJECTION		DOCUMENT NUMBER		DOC TYPE DOC PART SHEET NUMBER		
			C				111122420		PSD ASY 6 OF 8		



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.

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
▽ = 0	SEE REVISION TABLE EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV / APPR: RCHEN08	2016/06/02 2016/07/30 2016/08/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE						
▽ = 0			ANGULAR TOL ± 1.0 °		MM	1:1						
▽ = 0			4 PLACES ±	DRWN BY	DATE	VK10					2016/06/02	
▽ = 0			3 PLACES ±	CHKD BY	DATE	DSUN15	2016/07/30					
▽ = 0			2 PLACES ± 0.15	APPR BY	DATE	RCHEN08	2016/08/03					
▽ = 0			1 PLACE ± 0.25	DRAWING SIZE	THIRD ANGLE PROJECTION	C						
▽ = 0			0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SERIES	MATERIAL NUMBER	CUSTOMER		
▽ = 0									111112	SEE SHEET 3	GENERAL MARKET	
▽ = 0									DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
							111122420		PSD	ASY	7 OF 8	

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 $\varnothing 14$ X 1.05 $\pm 0.05$ 7. SHEET 6: D19 : CHANGED $\varnothing 0.95 \pm 0.05$ X20 TO $\varnothing 20$ X 0.95 $\pm 0.05$ 8. SHEET 6: D14 : CHANGED $\varnothing 0.95 \pm 0.05$ X4 TO $\varnothing 4$ X 0.95 $\pm 0.05$ 9. SHEET 7: G18 : CHANGED $\varnothing 1.05 \pm 0.05$ X28 TO $\varnothing 28$ X 1.05 $\pm 0.05$ 10. SHEET 7: C16 : CHANGED $\varnothing 0.95 \pm 0.05$ X28 TO $\varnothing 28$ X 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

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= 0	SEE REVISION TABLE EC NO: 107116 DRWN: VK10 CHKD: DSUN15 REV APPR: RCHEN08	2016/06/02 2016/07/30 2016/08/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	<b>molex</b> SFP+ 1X4 SF CAGE 3.05 MM PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS			
= 0			ANGULAR TOL $\pm 1.0^\circ$		MM	1:1				
= 0			4 PLACES $\pm$	DRWN BY	DATE	PRODUCT CUSTOMER DRAWING				
= 0			3 PLACES $\pm$	VK10	2016/06/02					
= 0			2 PLACES $\pm 0.15$	CHKD BY	DATE	SERIES MATERIAL NUMBER CUSTOMER 111112 SEE SHEET 3 GENERAL MARKET				
= 0			1 PLACE $\pm 0.25$	DSUN15	2016/07/30					
= 0			0 PLACES $\pm$	APPR BY	DATE	DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER 1111122420 PSD ASY 8 OF 8				
= 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	RCHEN08	2016/08/03					
= 0				DRAWING SIZE	THIRD ANGLE PROJECTION	C				
= 0										