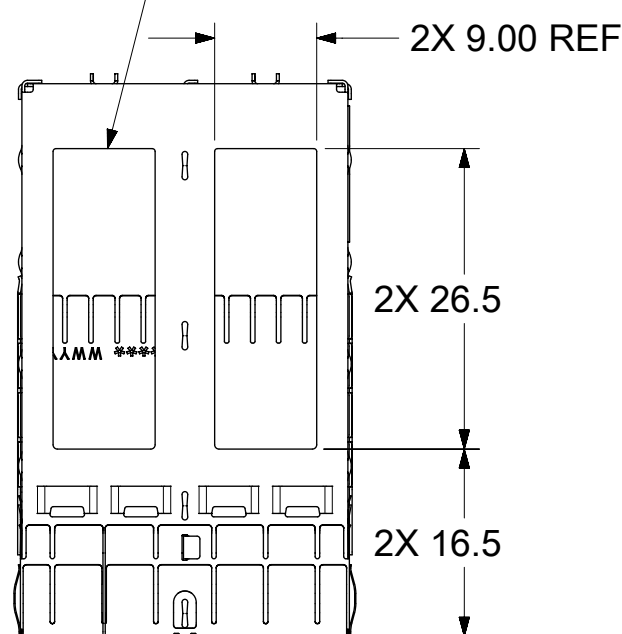
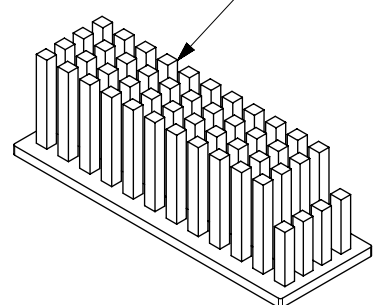


CAGE ASSEMBLY OPTIONS

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



HEATSINK OPTIONS
(2 PLC)
CUSTOM

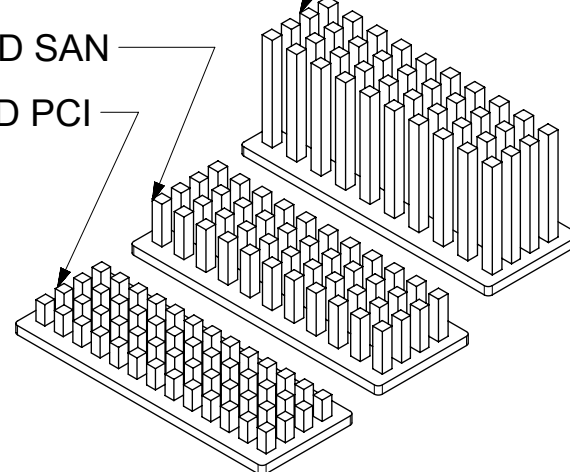


OVERALL HEATSINK HEIGHT

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

HEATSINK OPTIONS
(2 PLC)

PIN FIELD NETWORKING
PIN FIELD SAN
PIN FIELD PCI



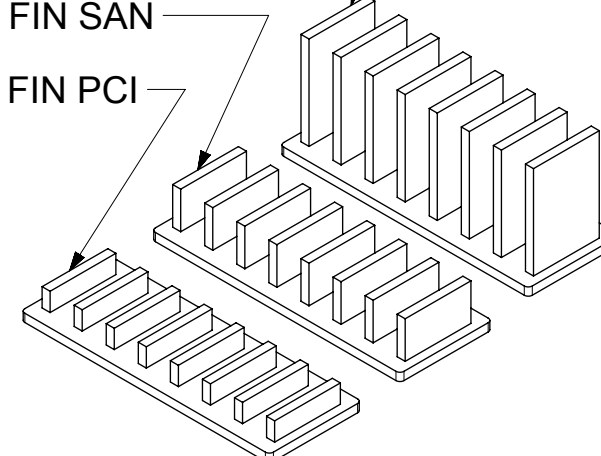
OVERALL HEATSINK HEIGHT

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

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

HEATSINK OPTIONS
(2 PLC)

LATERAL FIN NETWORKING
LATERAL FIN SAN
LATERAL FIN PCI

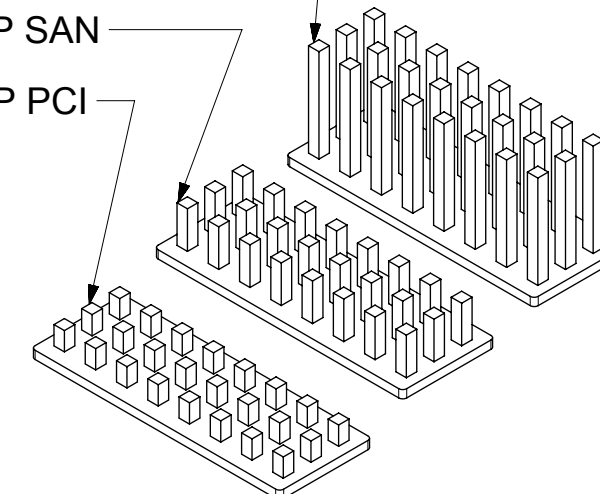


OVERALL HEATSINK HEIGHT

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

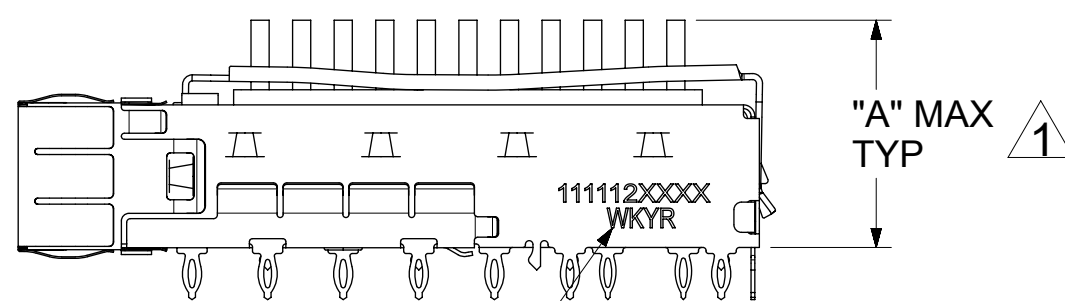
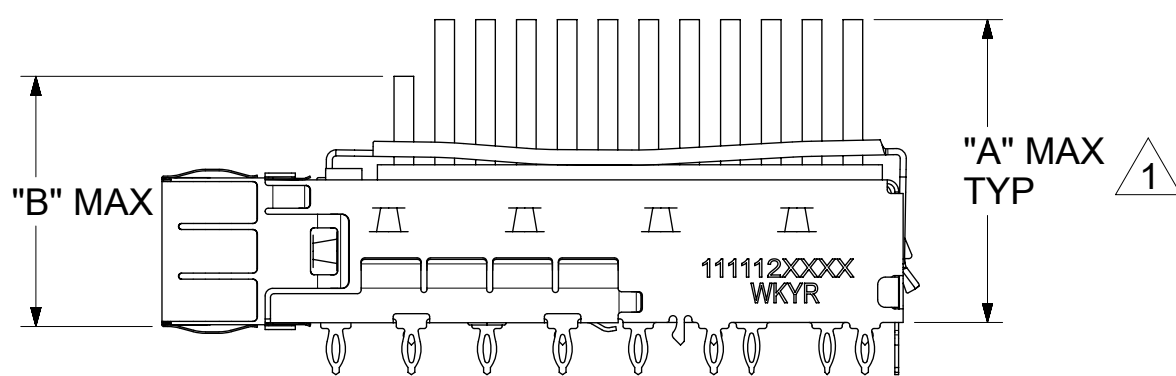
HEATSINK OPTIONS
(2 PLC)

WIDE GAP NETWORKING
WIDE GAP SAN
WIDE GAP PCI



OVERALL HEATSINK HEIGHT

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

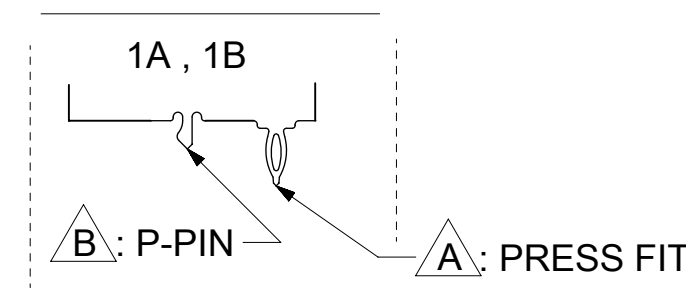


PN/DATE CODE TO BE PRINTED ON THE SIDE OF
COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
FOR 111112 SERIES CAGES

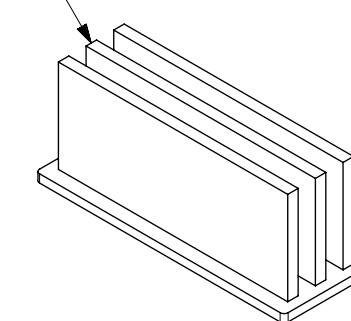
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

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

REAR LEG OPTIONS
(PER PORT)



HEATSINK OPTIONS
CUSTOM FIN

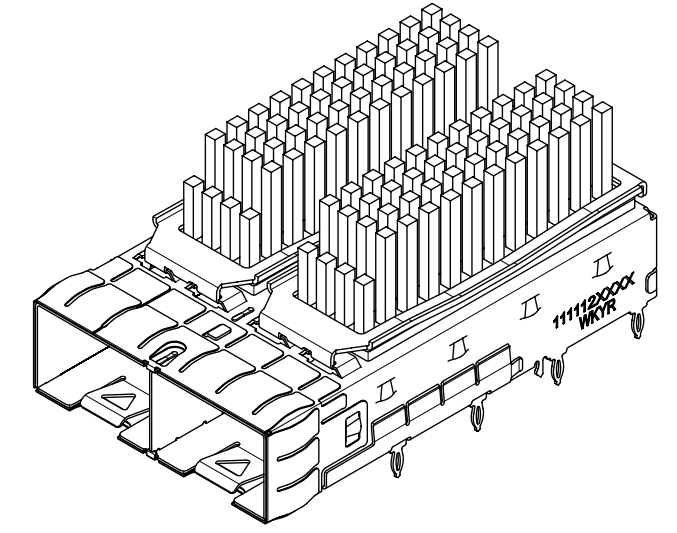
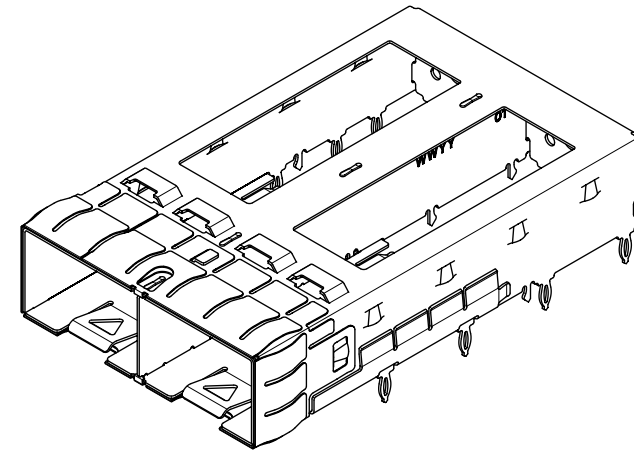
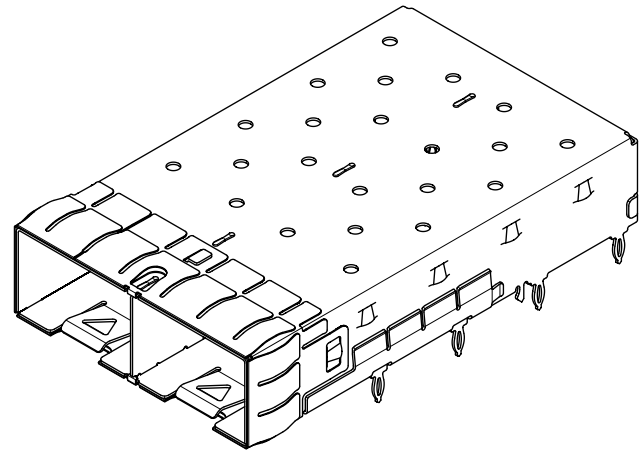


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS		SCALE	
			MM		1.5:1	
SEE REVISION TABLE	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN BY		DATE	
	ANGULAR TOL ± 1.0 °		MKEMPEGOWDA		2016/04/13	
EC NO: 111626	4 PLACES ±		CHKD BY		DATE	
	3 PLACES ±		DSUN15		2016/07/31	
DRWN: SJLG	2 PLACES ± 0.13		APPR BY		DATE	
	1 PLACE ± 0.25		RCHEN08		2016/08/04	
CHKD: DSUN15	0 PLACES ±		DRAWING SIZE		THIRD ANGLE PROJECTION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		C			
REV: APPR: RCHEN08	SERIES		MATERIAL NUMBER		CUSTOMER	
	111112		SEE SHEET 3			
J2	DOCUMENT NUMBER		DOC TYPE		DOC PART	
	1111122220		PSD		ASY	
		SHEET NUMBER				
		2 OF 7				

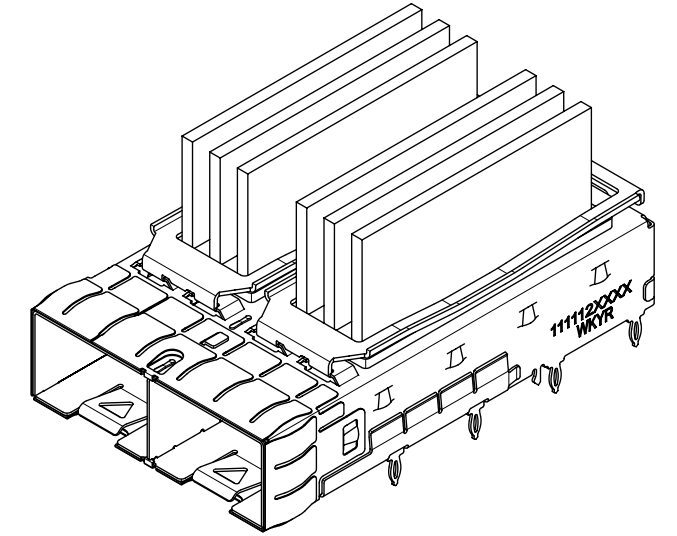
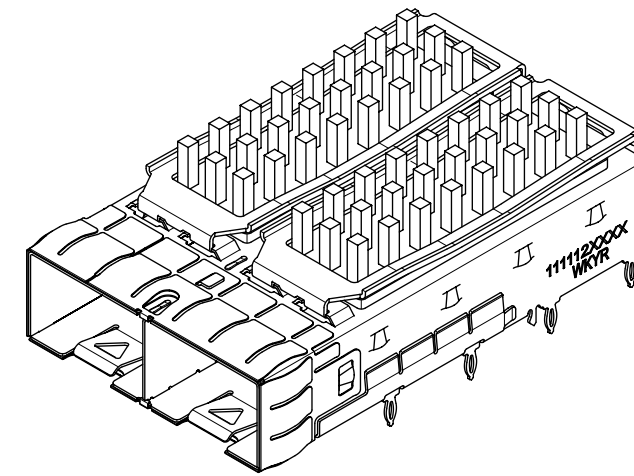
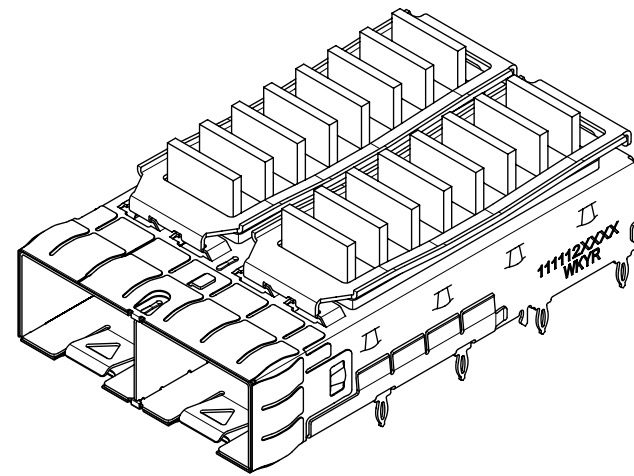
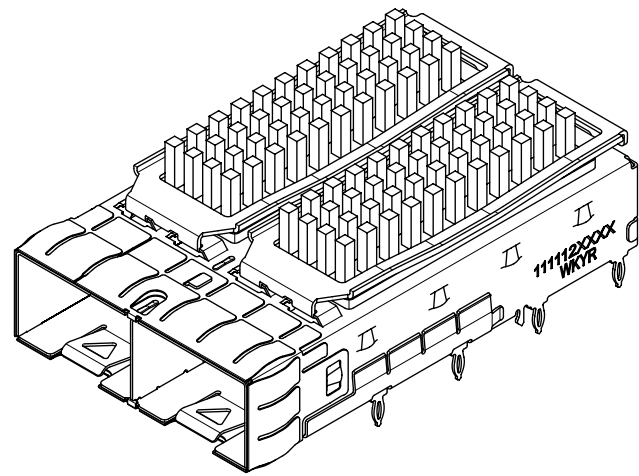
PART NUMBER SELECTION



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

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

SFP+ CUSTOM HEATSINK OPTION	
PART NO.	
1111120226	



SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111124220	PCI
1111125220	SAN
1111126220	NETWORKING

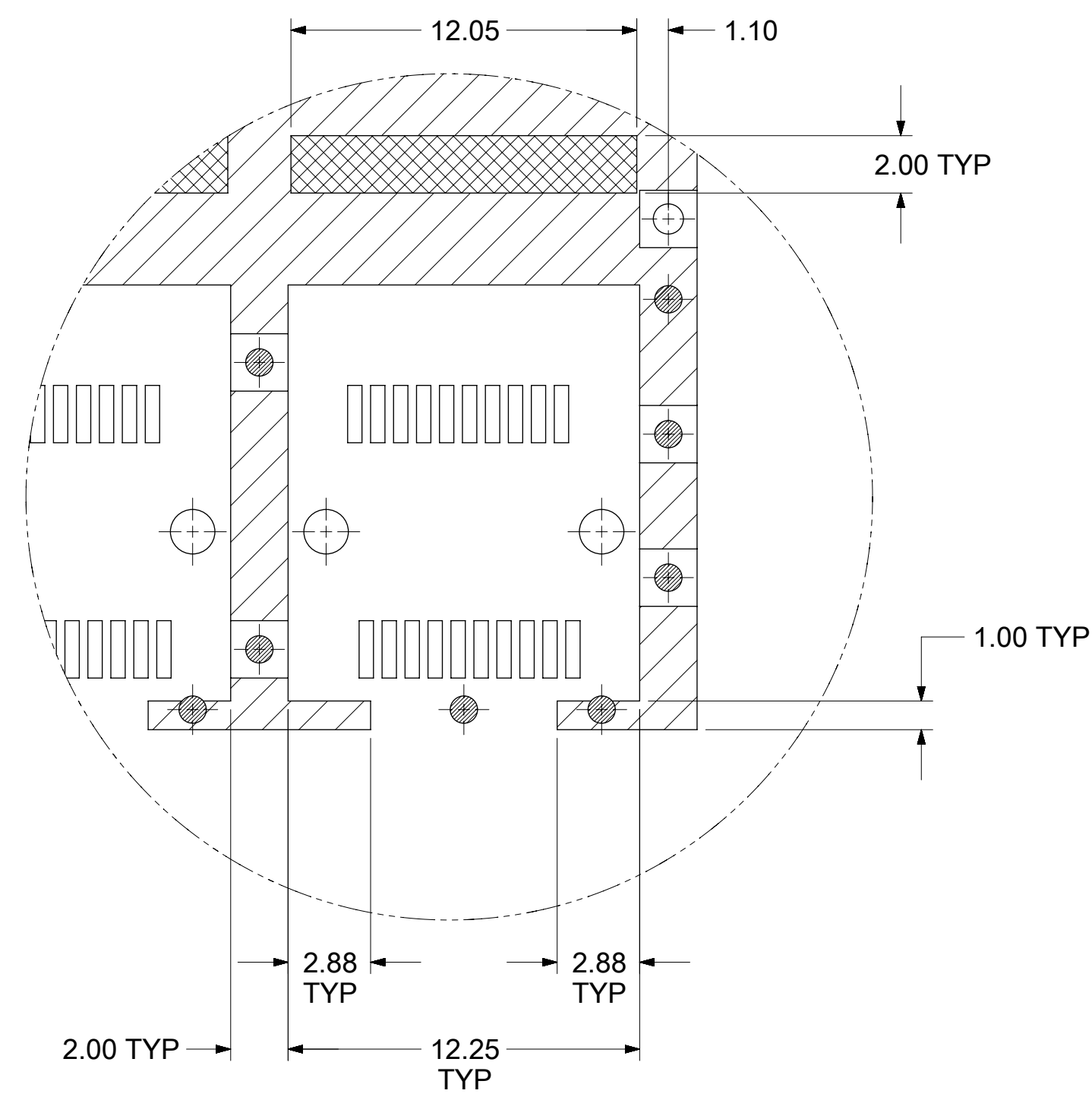
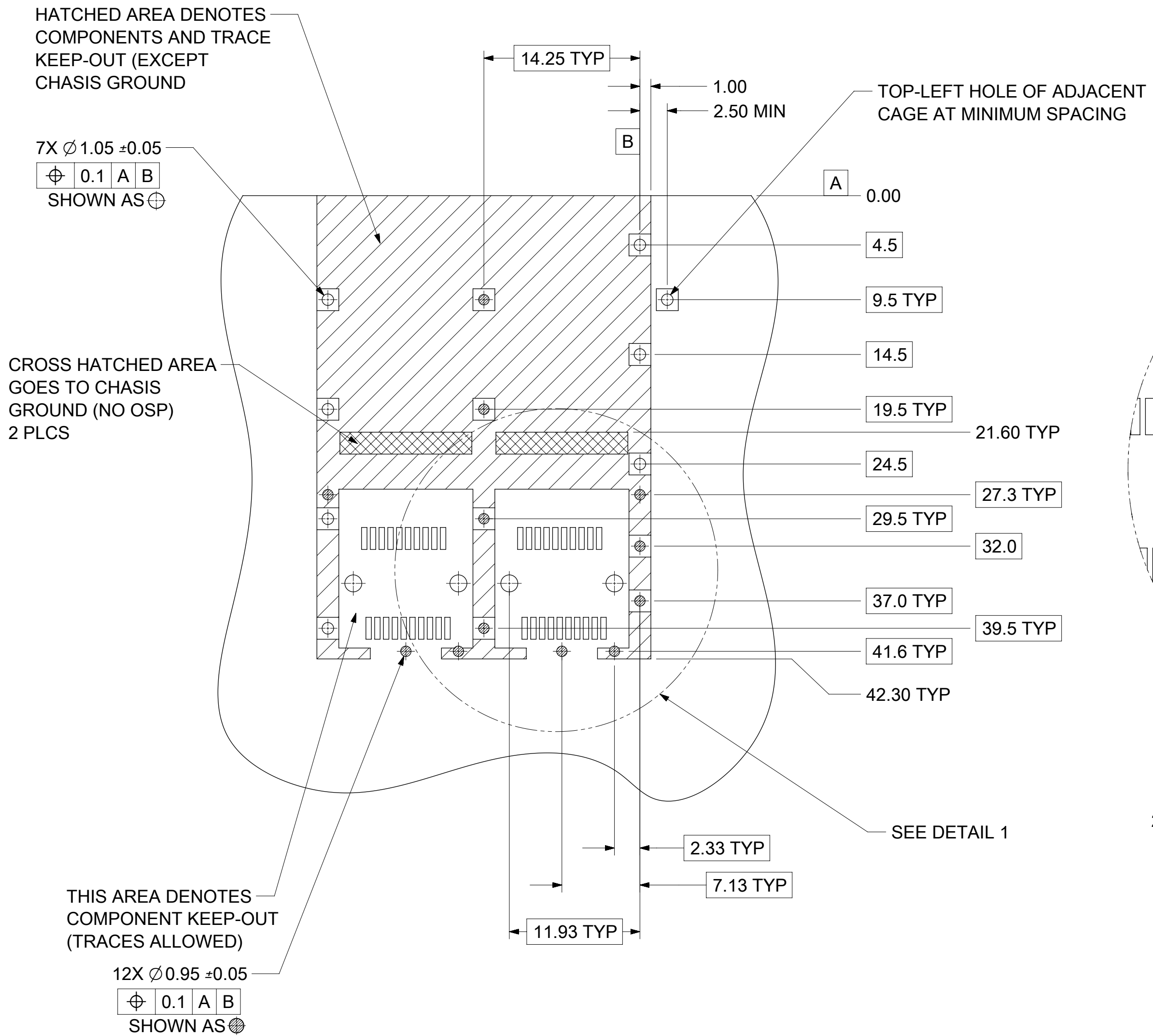
SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111127220	PCI
1111128220	SAN
1111129220	NETWORKING

SFP+ CUSTOM FIN HEATSINK OPTION	
PART NO.	
1111126221	

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

QUALITY SYMBOLS ▽ = 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										
	SEE REVISION TABLE EC NO: 111626 DRWN: SJLG CHKD: DSUN15 REV: APPR: RCHEN08	2016/12/15	2016/12/21	2016/12/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE			
		ANGULAR TOL ± 1.0 °		MM	1.25:1						
		4 PLACES ±	3 PLACES ±	2 PLACES ± 0.13	1 PLACE ± 0.25	0 PLACES ±	DRWN BY	DATE	SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MKEMPEGOWDA	2016/04/13			
							CHKD BY	DATE	PRODUCT CUSTOMER DRAWING		
						DSUN15	2016/07/31				
						APPR BY	DATE	SERIES MATERIAL NUMBER CUSTOMER 111112 SEE SHEET 3			
						RCHEN08	2016/08/04				
						DRAWING SIZE	THIRD ANGLE PROJECTION	DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER 1111122220 PSD ASY 3 OF 7			
					C						

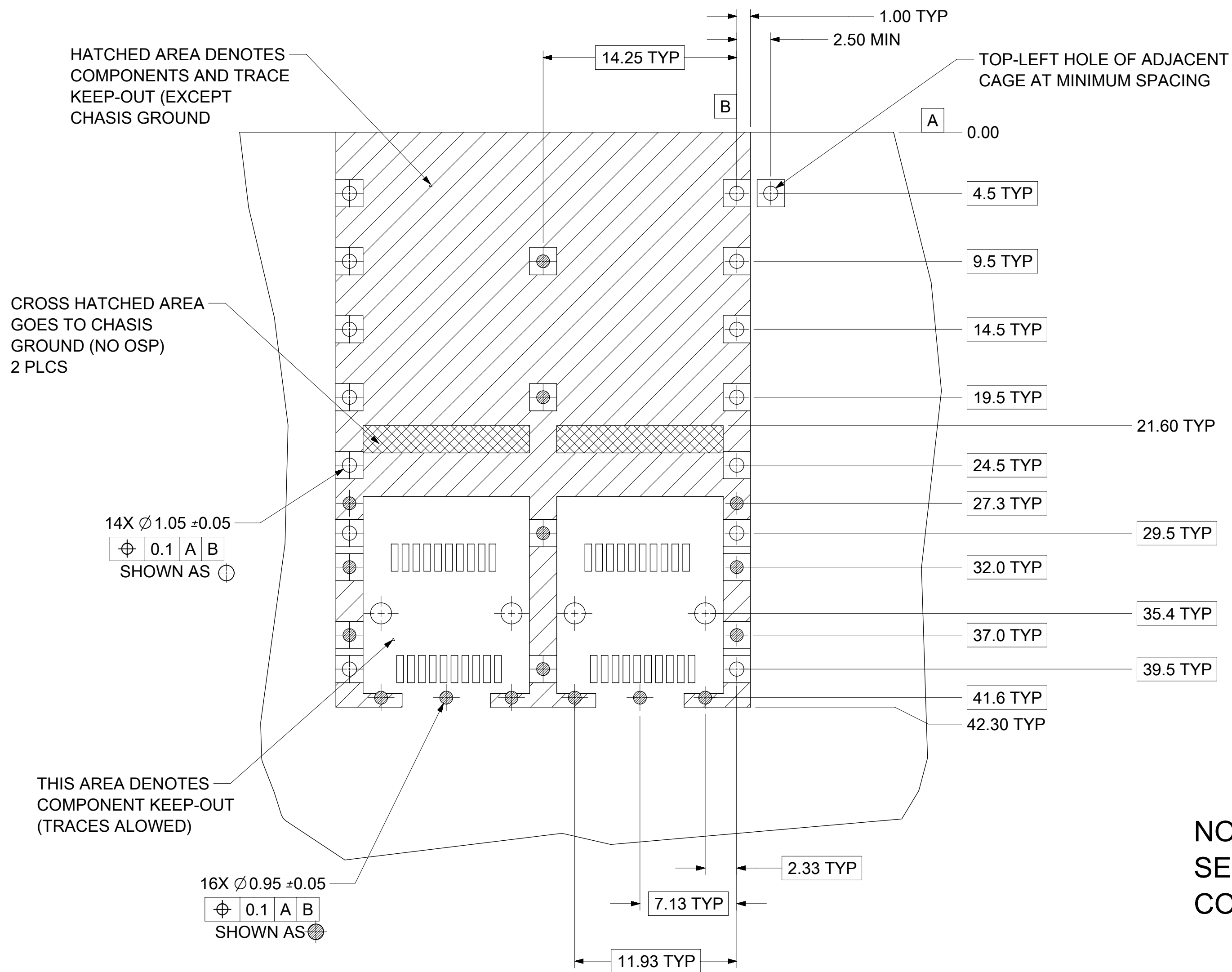
PCB LAYOUT - SINGLE SIDE ONLY



- NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 4. SPACING BETWEEN PORTS IS 14.25mm
 5. 1.57mm MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

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: 111626 DRWN: SJLG CHKD: DSUN15 REV: APPR: RCHEN08 2016/12/15 2016/12/21 2016/12/21	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS		SCALE					
▽ = 0	▽ = 0		ANGULAR TOL ± 1.0 °			MM		1:1					
▽ = 0	▽ = 0		4 PLACES ±			DRWN BY		DATE		SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS			
▽ = 0	▽ = 0		3 PLACES ±			MKEMPEGOWDA		2016/04/13					
▽ = 0	▽ = 0		2 PLACES ± 0.13			CHKD BY		DATE		PRODUCT CUSTOMER DRAWING			
▽ = 0	▽ = 0		1 PLACE ± 0.25			DSUN15		2016/07/31					
⊗ = 0	⊗ = 0	0 PLACES ±			APPR BY		DATE		SERIES MATERIAL NUMBER CUSTOMER 111112 SEE SHEET 3				
■ = 0	■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			RCHEN08		2016/08/04						
▽ = 0	▽ = 0	J2	DRAWING SIZE			THIRD ANGLE PROJECTION		DOCUMENT NUMBER			PSD DOC PART SHEET NUMBER		
			C					11111222220			4 OF 7		

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



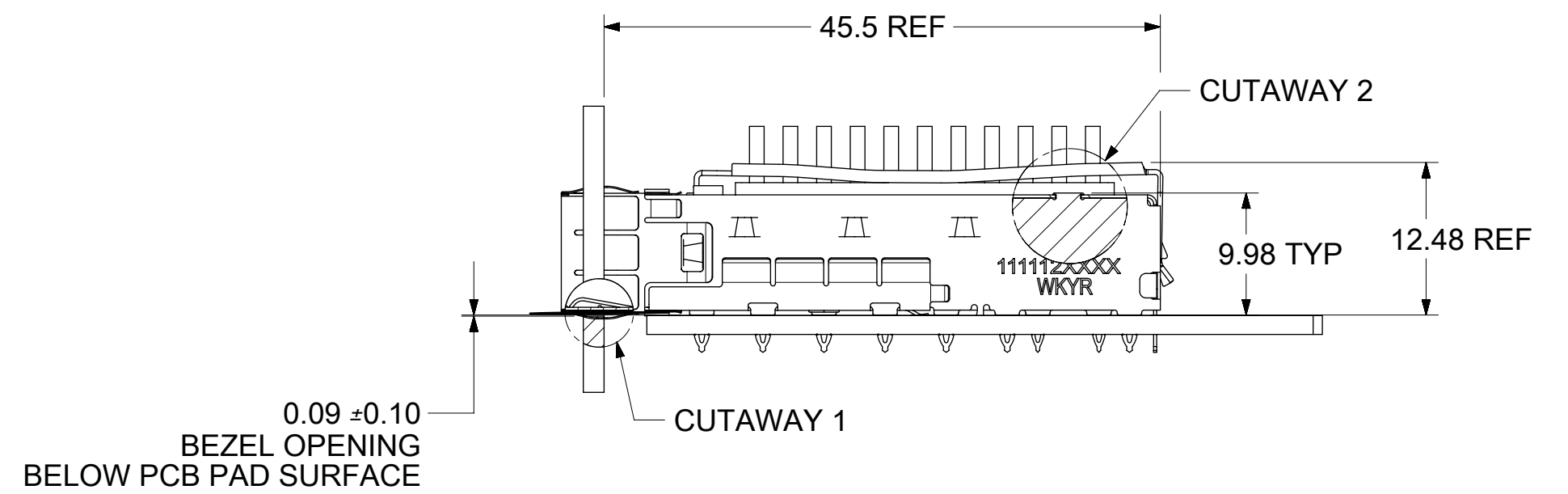
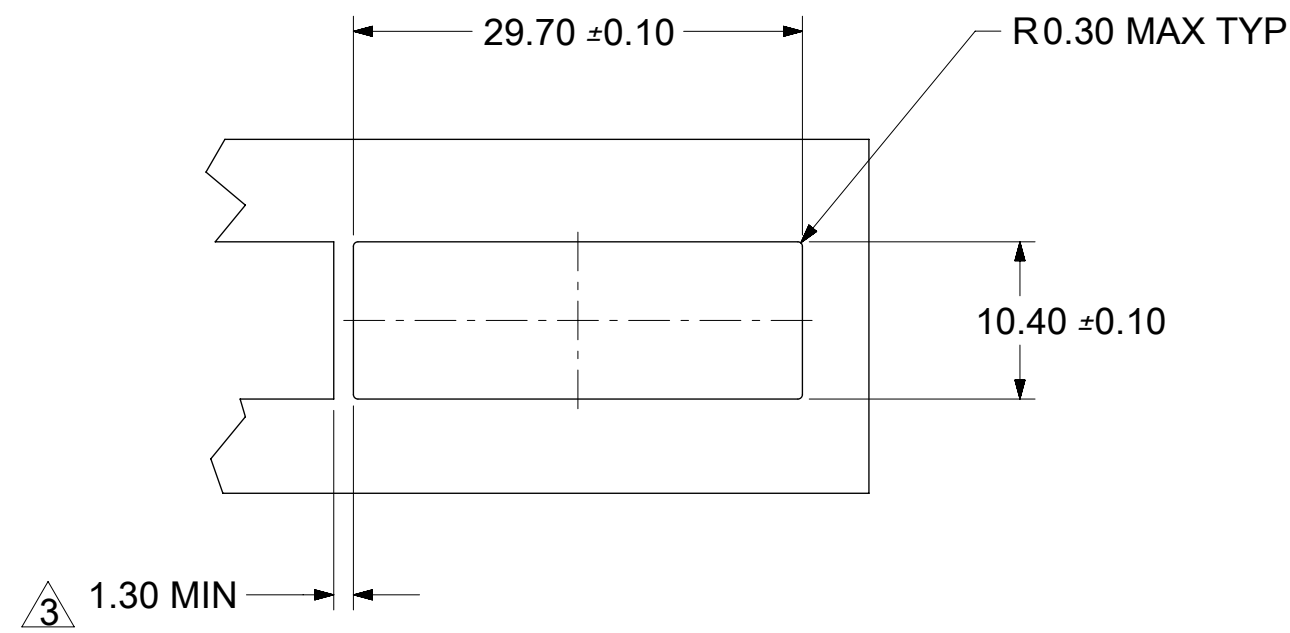
NOTE:
SEE SHEET 4 FOR HOST CONNECTOR DETAIL

NOTES:

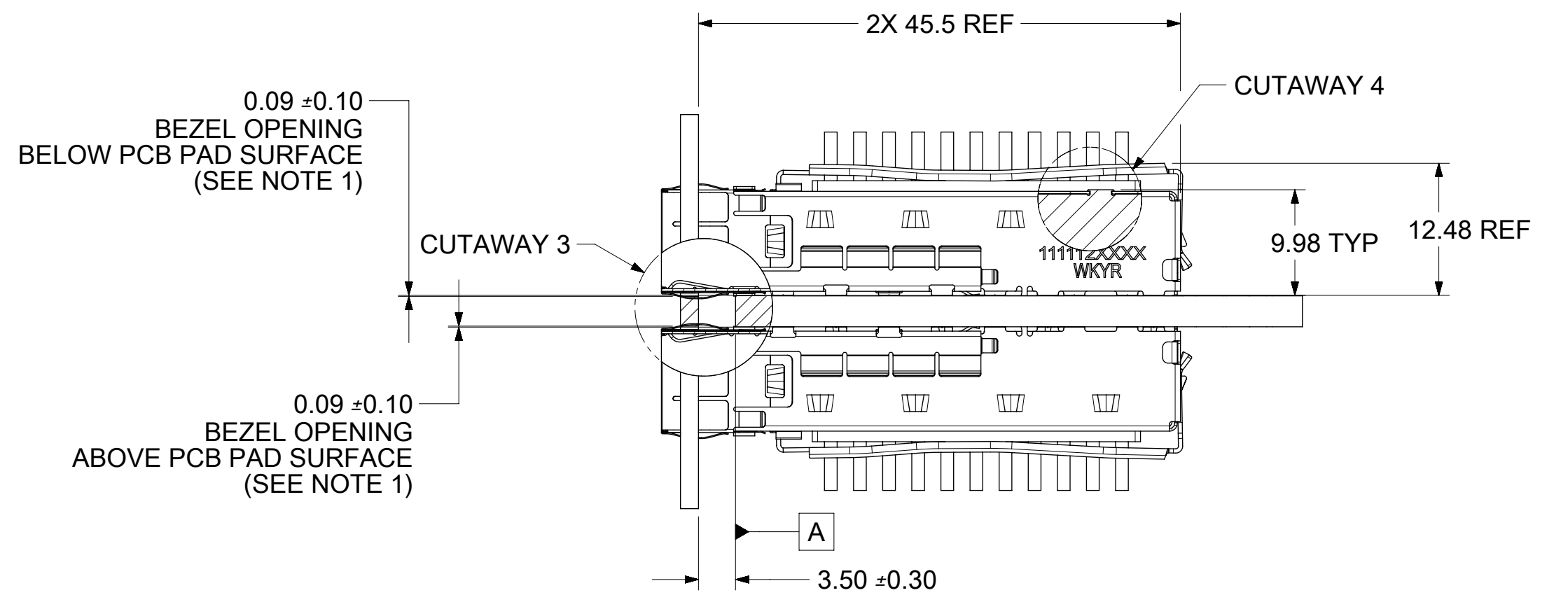
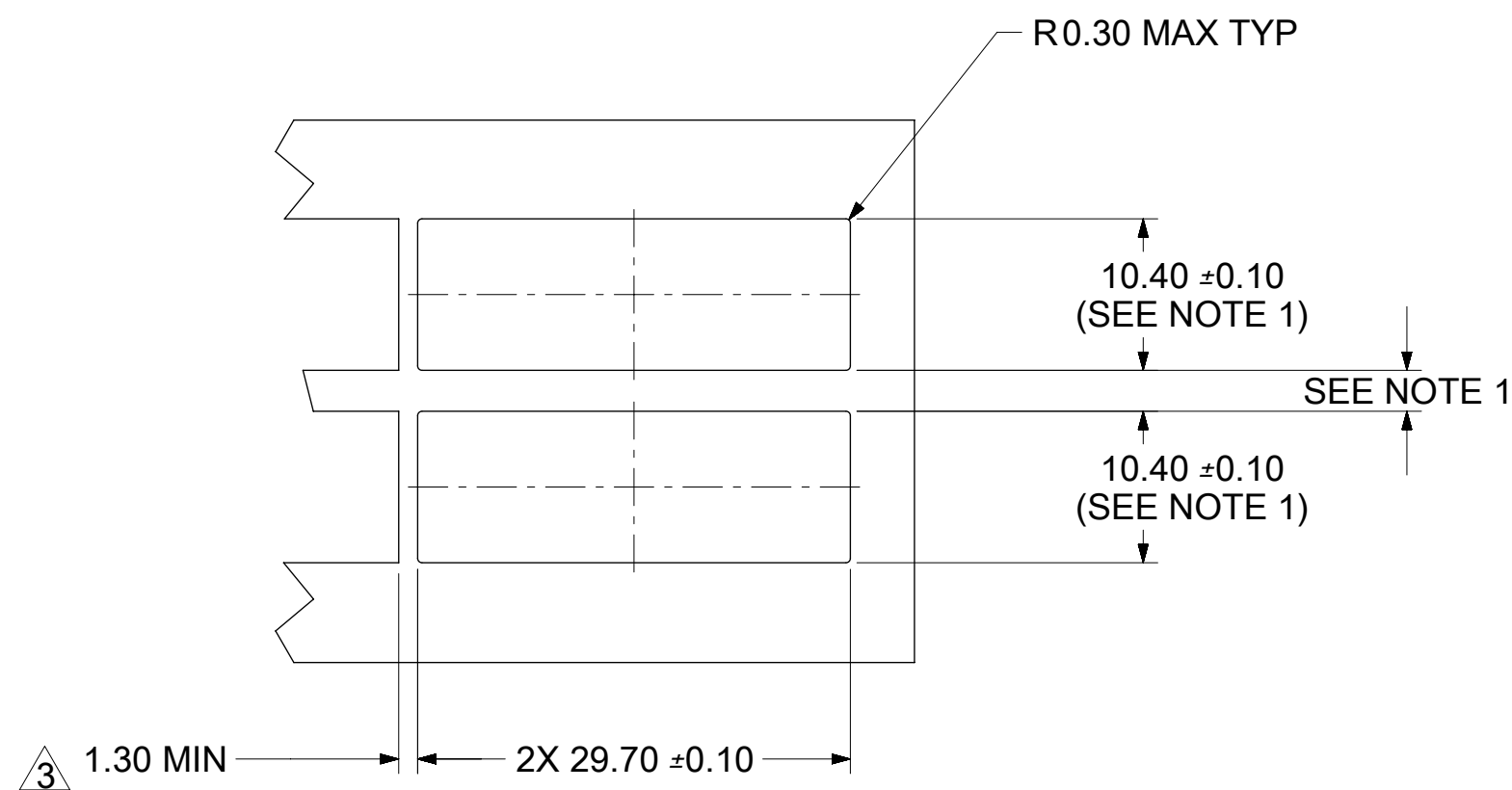
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS 14.25mm
5.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

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
∇ = 0	2016/12/15	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE					
∇ = 0	2016/12/21	ANGULAR TOL $\pm 1.0^\circ$		MM		4:1					
∇ = 0	2016/12/21	4 PLACES \pm		DRWN BY		DATE		SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS			
∇ = 0	2016/12/21	3 PLACES \pm		MKEMPEGOWDA		2016/04/13					
∇ = 0	2016/12/21	2 PLACES ± 0.13		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING			
∇ = 0	2016/12/21	1 PLACE ± 0.25		DSUN15		2016/07/31					
∇ = 0	2016/12/21	0 PLACES \pm		APPR BY		DATE		SERIES MATERIAL NUMBER CUSTOMER			
∇ = 0	2016/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		RCHEN08		2016/08/04					
∇ = 0	2016/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		111112		SEE SHEET 3	
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∇ = 0	2016/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		J2				1111222220		5 OF 7	
∇ = 0	2016/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		REV				DOC TYPE		DOC PART	
∇ = 0	2016/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		J2				PSD		ASY	

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




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



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

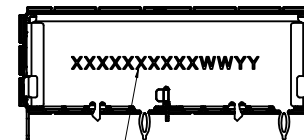
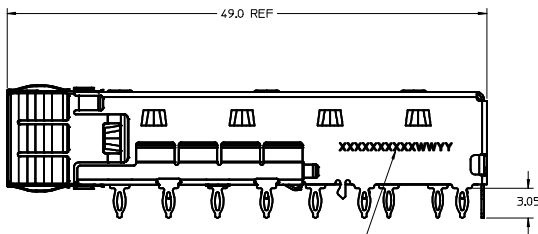
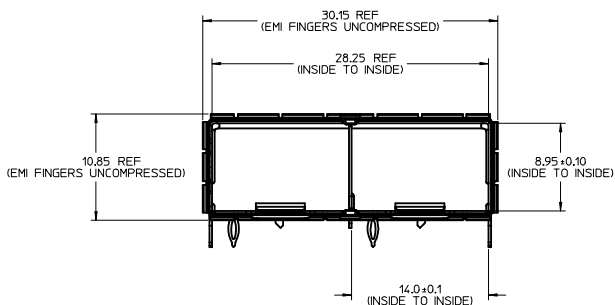
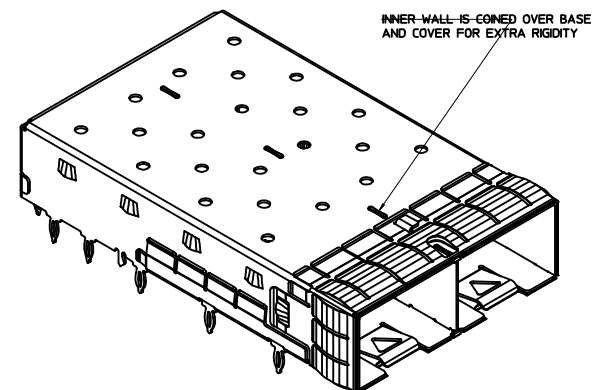
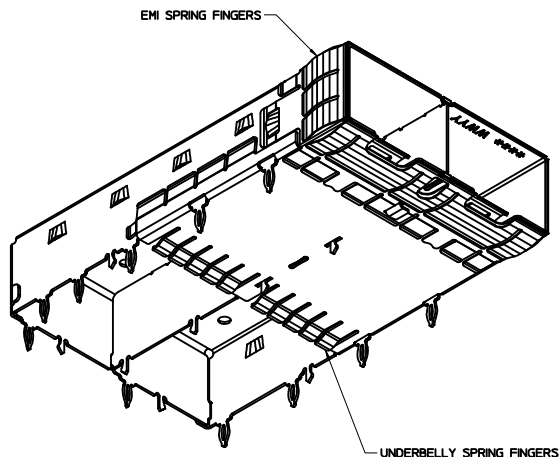
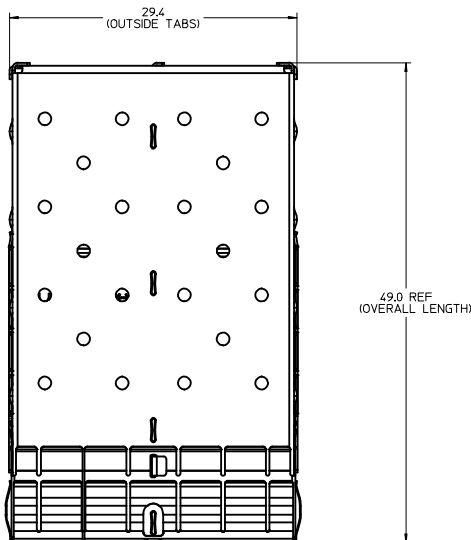
QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS		SCALE		molex	
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▽ = 0	▽ = 0	4 PLACES ±		MKEMPEGOWDA		2016/04/13			
▽ = 0	▽ = 0	3 PLACES ±		CHKD BY		DATE		PRODUCT CUSTOMER DRAWING	
▽ = 0	▽ = 0	2 PLACES ± 0.13		DSUN15		2016/07/31			
▽ = 0	▽ = 0	1 PLACE ± 0.25		APPR BY		DATE		SERIES MATERIAL NUMBER CUSTOMER	
▽ = 0	▽ = 0	0 PLACES ±		RCHEN08		2016/08/04			
▽ = 0	▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		DOCUMENT NUMBER DOC TYPE DOC PART SHEET NUMBER	
▽ = 0	▽ = 0	J2		C		11112			

REV	DATE	DESCRIPTION
A	2011/06/10	INITIAL RELEASE
A1	2011/06/15	SHEET 1: REMOVED HEATSINK OPENING REFERENCE DIMENSIONS AND WEEK 52 REFERENCE; SHEET 4: ADDED NOTES POINTING TO THE INNER WALL COINED OVER THE COVER.
B	2011/07/22	ADDED HOLES IN CAGE FOR LIGHTPIPES; MOVED DATE CODE; REVISED ROHS NOTE 5; CHANGED HEATSINK HEIGHT FROM 8.63 TO 6.5; TABULARIZED PCI, SAN, AND NETWORKING; AND ADDED HEATSINK HEIGHT WITH MODULE INSERTED.
B1	2011/08/19	UPDATED CAGE AND SPRING CLIP MODELS.
C	2012/10/25	SHEET 1: REMOVED HEATSINKS, AND ALL DIMS AND ANNOTATIONS RELATING TO THEM, FROM ALL VIEWS; REMOVED NOTE 6; REMOVED EXPLODED VIEW; REMOVED PART NUMBER TABLE; ADDED TITLE. NEW SHEET 2: ISO VIEWS OF CAGE WITH NO HEATSINKS AND VIEWS WITH EACH OF FOUR TYPES AND SIZES OF HEATSINK; ANNOTATIONS ON EACH VIEW INDICATING EACH HEATSINK TYPE AND SIZE; RIGHT SIDE VIEW WITH DIM OF HEATSINK HEIGHT; TABLE UNDER EACH VIEW WITH HEATSINK SIZES AND DIMS; NOTE 1; SHEET TITLE. NEW SHEET 3: ISO VIEWS OF CAGE WITH NO HEATSINKS AND VIEWS WITH EACH OF FOUR DIFFERENT TYPES OF HEATSINK; TABLES UNDER EACH VIEW WITH PART NUMBERS OF EACH SIZE; SHEET TITLE.
D	2014/02/07	SHEET 1: REVISED ALL BASE CAGE DETAILS AND VIEWS FROM 111112-0232 TO 74754-0220. REMOVED INSERTION FORCE INTO PCB FROM NOTE 2. REVISED NOTE 4: "WAS" WELD SPOT WILL SHOW SLIGHT MATERIAL DISCOLORATION. "NOW READS" WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION. SHEET 2: REVISED ALL HEAT SINK CAGE ASSEMBLY OPTIONS. ADDED OPEN TOP VIEW WITH DIMENSIONS, AND REAR LEG OPTION VIEW. SHEET 3: ADDED SHEET 3 WITH ZSFP+ OPTIONS SHEET 4: ADDED PART NUMBERS 747540220, 1001130220. UPDATED TITLE BLOCK.
E	2014/08/13	SHEET 1: ADDED "REF" TO DIM 10.85 AND 28.25. ADDED 14.0 ±0.1. MOVED "MINIMUM PCB THICKNESS" NOTES FROM SHEET 1 TO SHEETS 5 AND 6.
F	2014/08/21	SHEET 1: ADDED 747540247 NO NEED PRINTED @C6. SHEET 1: ADDED P/N AND DATE CODE PRINTED NOTE @D11. SHEET 4: ADDED P/N 747540247 IN TABLE @I18.
G	2015/02/26	SHEET 3: ADDED NOTE 1 "UNDER BELLY GASKET IS UL94 V-0 RATED." SHEET 4: ADDED "5 WELD POINTS" INTO 747540220 @I17. SHEET 4: ADDED P/N 747540222 @I17. SHEET 7: ADDED NOTE 2 "CAGE LEG STANDOFF WILL PIERCE BELLY GASKET WHEN PROPERLY PRESSED INTO PCB."
H	2015/08/26	SHEET 2: E3 : ADDED NEW CUSTOM FIN HEATSINK ISO VIEW SHEET 4: E3 : ADDED PART NO. 111112-6221 ISO VIEW MODIFIED PCB LAYOUT PER SFF-8433 SHEET 5: K19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 D17 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 SHEET 6: G19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 B18 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1
J	2016/06/28	REMASTERED FROM SD-111112-2220 REV H TO "1111122220 REV_J" NX SHEET 2: E10: CHANGED THE PN /DATE CODE STYLE FROM 1 ROW TO 2 ROWS SHEET 7: A19:ADDED A NOTE "THIS DIM IS FOR REF ONLY. USER CAN MODIFY IT DEPENDS ON APPLICATION.HOLE OF ADJACENT CAGE ON PCB LAYOUT VARIES BASED ON MODIFICATION." SEPARATED ZSFP+ SERIES TO 1001130220 PSD ASY
J2	2016/12/16	SHEET 4/5: CORRECTED TYPO TO UPDATE PCB VIEW

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: 111626 DRWN: SJLG CHKD: DSUN15 REV APPR: RCHEN08 2016/12/15 2016/12/21 2016/12/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE						
▽ = 0		ANGULAR TOL ± 1.0 °		MM	1:1						
▽ = 0		4 PLACES ±		DRWN BY	DATE	SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS					
▽ = 0		3 PLACES ±		MKEMPEGOWDA	2016/04/13						
▽ = 0		2 PLACES ± 0.13		CHKD BY	DATE	PRODUCT CUSTOMER DRAWING					
▽ = 0		1 PLACE ± 0.25		DSUN15	2016/07/31						
□ = 0		0 PLACES ±		APPR BY	DATE	SERIES MATERIAL NUMBER CUSTOMER 111112 SEE SHEET 3					
■ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		RCHEN08	2016/08/04						
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
		J2	C	C		1111122220	PSD	ASY	7 OF 7		

BASE CAGE DETAILS

747540220



P/N/DATE CODE TO BE PRINTED IN APPROXIMATE AREA AS SHOWN FOR 11112 SERIES CAGE

P/N/DATE CODE TO BE PRINTED ON THE BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 74754 AND 10013 SERIES CAGE (747540247 NO NEED PRINTED)

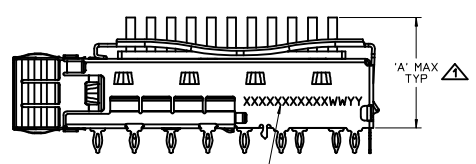
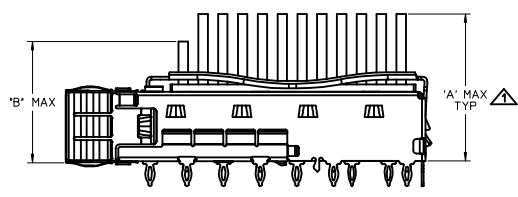
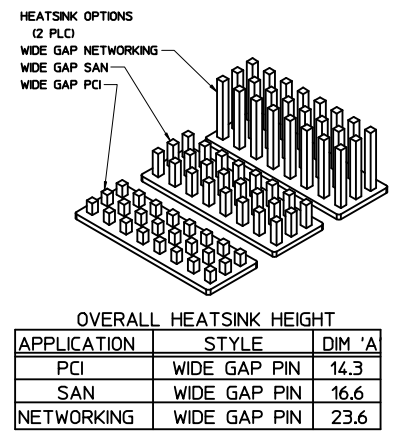
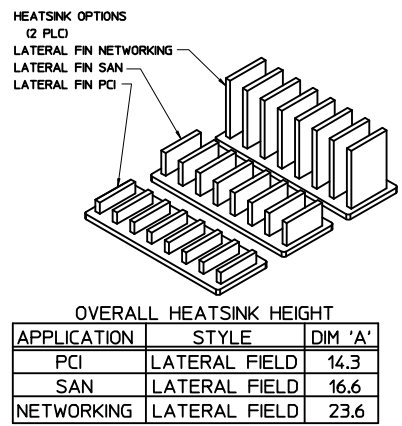
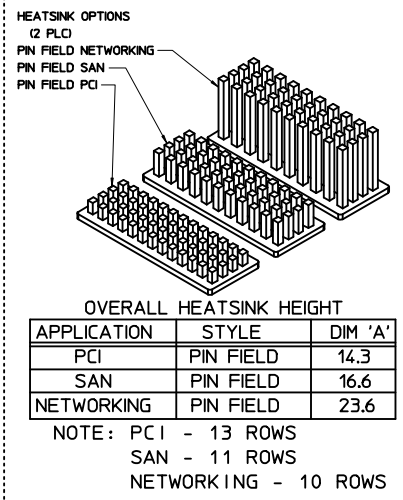
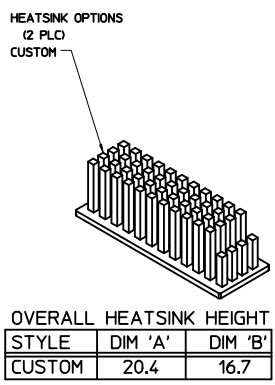
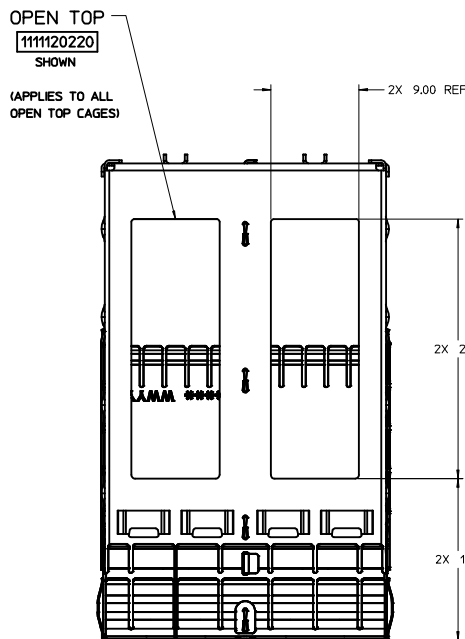
NOTES:

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

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

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: HJ CHYK: APPR:RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY	4:1	METRIC	☉
	▽=0	3 PLACES ± --- ± ---	DRAWN BY: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	2 PLACES ± 0.13 ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21	APPROVED BY: DATE	
		1 PLACE ± 0.25 ± ---	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2220	SHEET NO. 1 OF 8	
		0 PLACE ± --- ± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

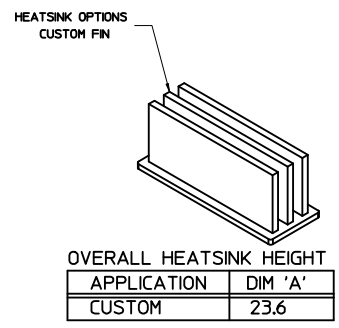
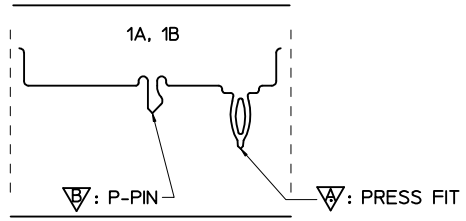
CAGE ASSEMBLY OPTIONS



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

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

REAR LEG OPTIONS (PER PORT)



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

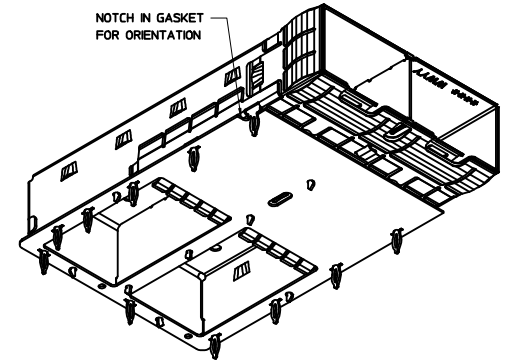
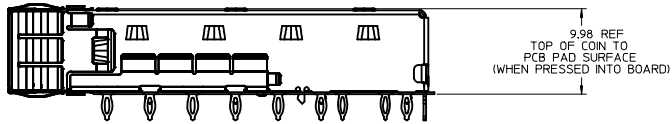
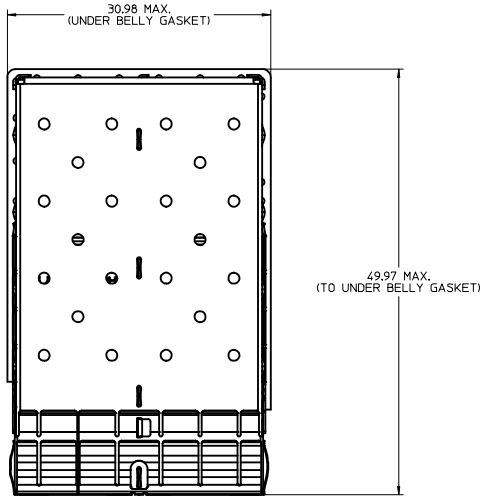
SEE REVISION SHEET EIC NO: CPG2015-5742 DRAWN BY: JERWIN CHYD: APPR: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ±	MM ONLY	3:1	METRIC	☉
	▽=0	3 PLACES ±	INCH			
	▽=0	2 PLACES ±0.13				
	1 PLACE ±0.25					
	0 PLACE ±					
	ANGULAR ±					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			MATERIAL NO.	DOCUMENT NO.		
			SEE SHEET 4	SD-11112-2220		
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
						SHEET NO. 2 OF 8

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

OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

1001130220

SHOWN

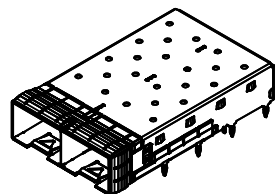


NOTE:
1. UNDER BELLY GASKET IS UL94 V-0 RATED.

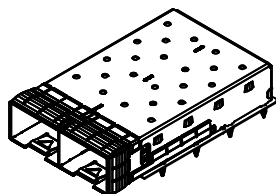
SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: 2015/05/04 CHKD: JERWIN APPR: RCHEN08 2015/08/26 REVISION DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
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	▽=0	3 PLACES ±				
	▽=0	2 PLACES ±0.13				
		1 PLACE ±0.25				
		0 PLACE ±				
		ANGULAR ±				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
			MATERIAL NO.	DOCUMENT NO.		SHEET NO.
			SEE SHEET 4	SD-11112-2220		3 OF 8
			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

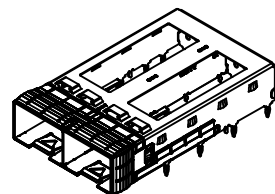
PART NUMBER SELECTION



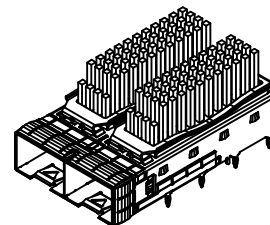
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



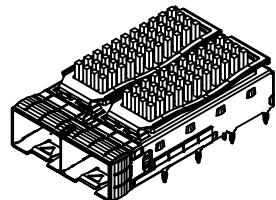
zSFP+ GEN 2 CLOSED TOP	
PART NO.	DESCRIPTION
1001130220	



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

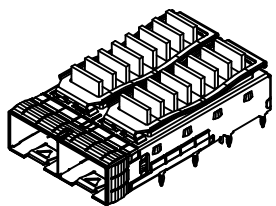


SFP+ CUSTOM HEATSINK OPTION	
PART NO.	DESCRIPTION
1111120226	

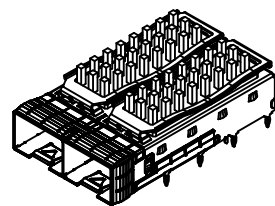


SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

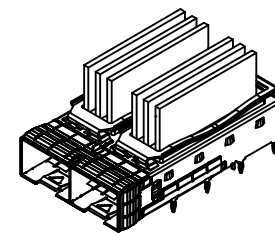
NOTE: PCI - 13 ROWS
SAN - 11 ROWS
NETWORKING - 10 ROWS



SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111124220	PCI
1111125220	SAN
1111126220	NETWORKING



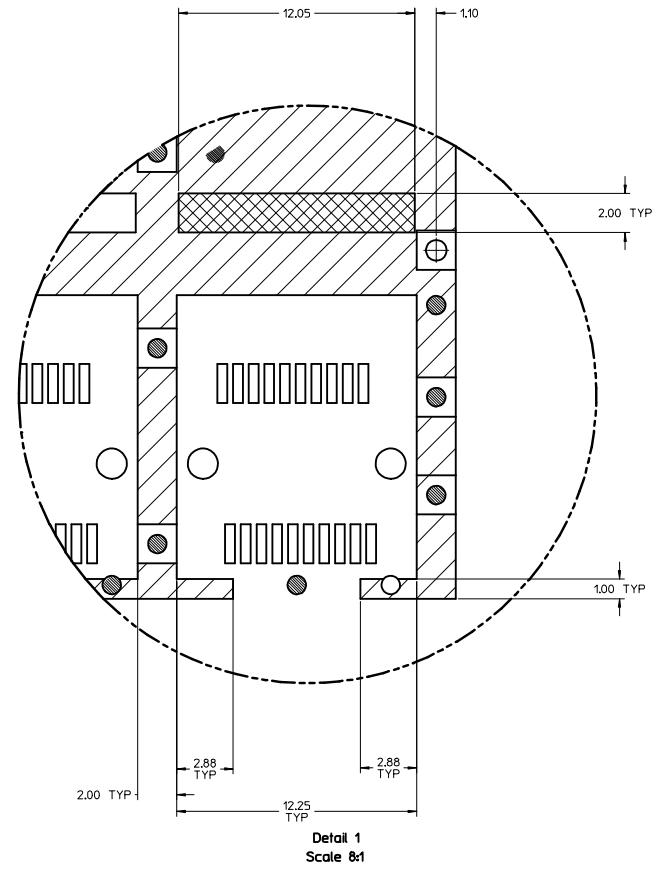
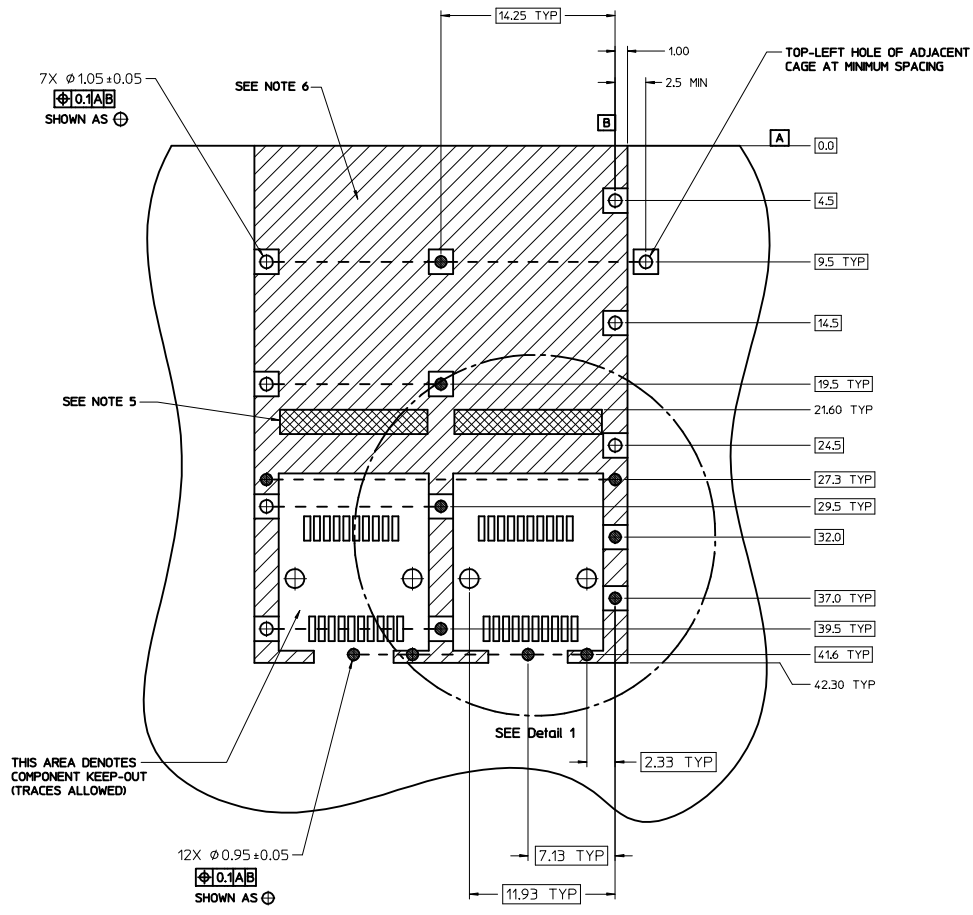
SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111127220	PCI
1111128220	SAN
1111129220	NETWORKING



SFP+ CUSTOM FIN HEATSINK OPTION	
PART NO.	DESCRIPTION
1111126221	

SEE REVISION SHEET EC NO. CPC2015-5742 DRAWN:THSU CHKD: APPR:RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2:1	METRIC	
	▽=0	4 PLACES ±	DRAWN BY	DATE	TITLE	
	▽=0	3 PLACES ±	JERWIN	2013/11/21	SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	2 PLACES ±0.13	CHECKED BY	DATE			
	1 PLACE ±0.25	GBARDELLA	2013/11/21			
	0 PLACE ±	APPROVED BY	DATE			
	ANGULAR ±	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLES	SD-111112-2220	4 OF 8		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

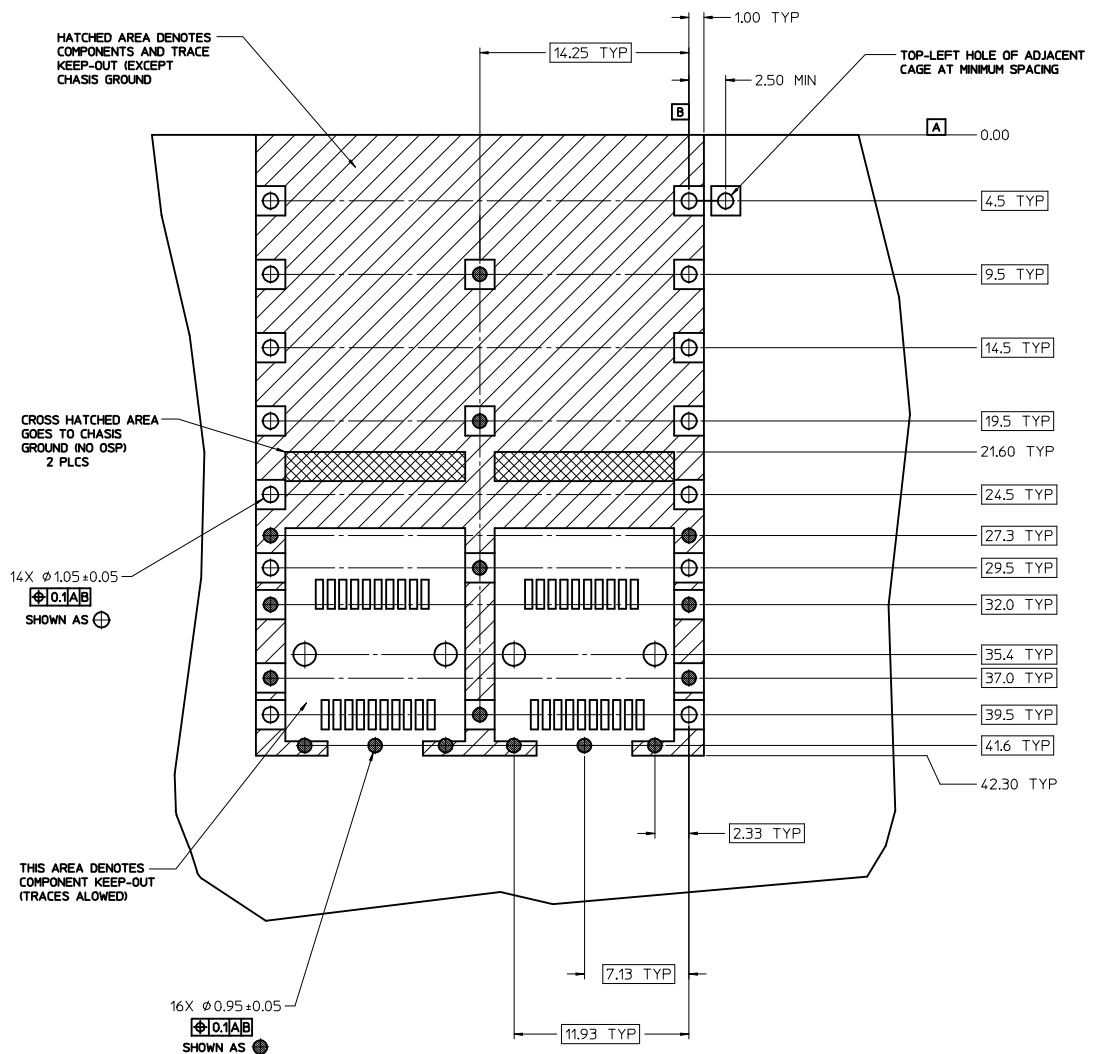
PCB LAYOUT - SINGLE SIDE ONLY



- NOTES:**
- PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 - CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 - SPACING BETWEEN PORTS IS 14.25mm
 - CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
 - HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
 - 1.57mm [.062 INCH] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: H CHYD: APPR: RCHEN08 DESCRIPTION: 2015/05/04 2015/08/26	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: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21	APPROVED BY: DATE	
	ANGULAR ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2220	SHEET NO. 5 OF 8	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

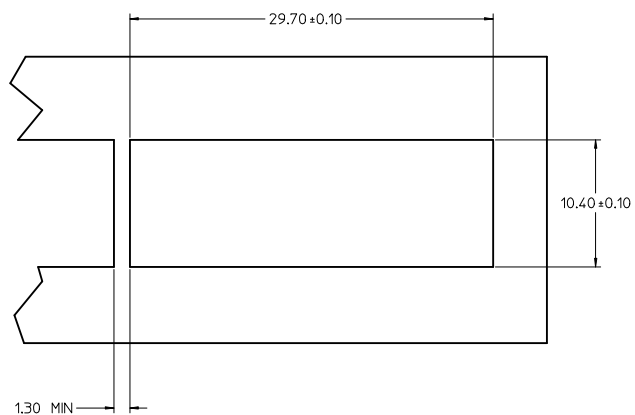
PCB LAYOUT FOR BELLY TO BELLY MOUNTING



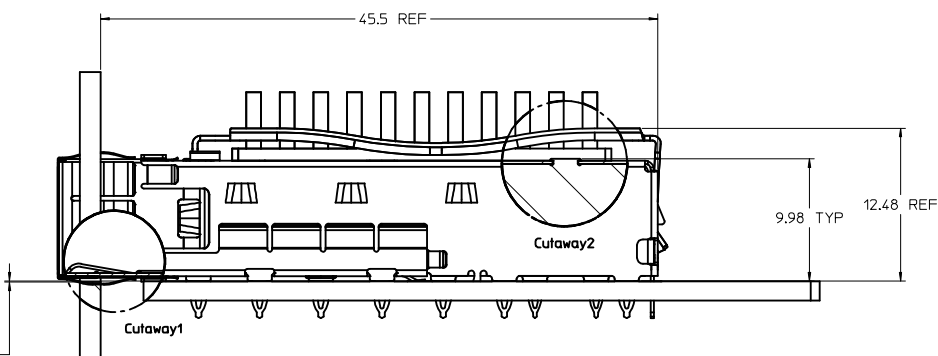
- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 4. SPACING BETWEEN PORTS IS 14.25mm
 5. 3.00mm [1.18 INCH] MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: JERWIN CHYK: GBARDELLA APPR: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	6:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21		
		ANGULAR ± ---	MATERIAL NO.	DOCUMENT NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 4	SD-11112-2220		SHEET NO. 6 OF 8
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

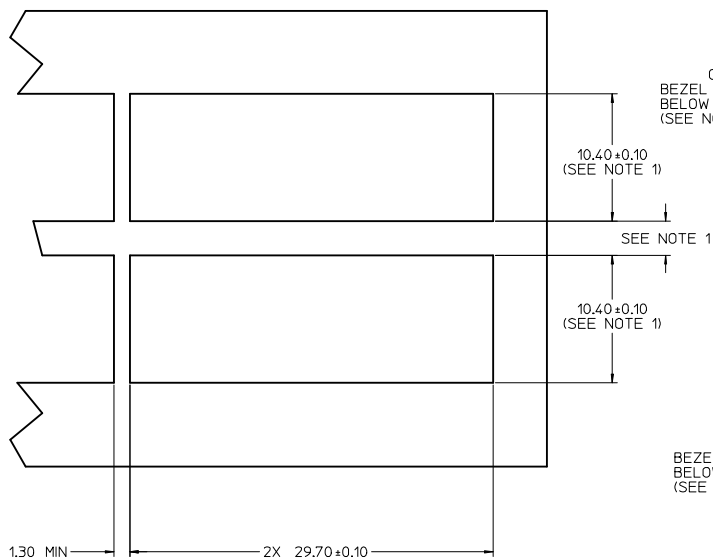
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING
(SPRING FINGER)



0.09 ± 0.10
BEZEL OPENING
BELOW PCB PAD SURFACE

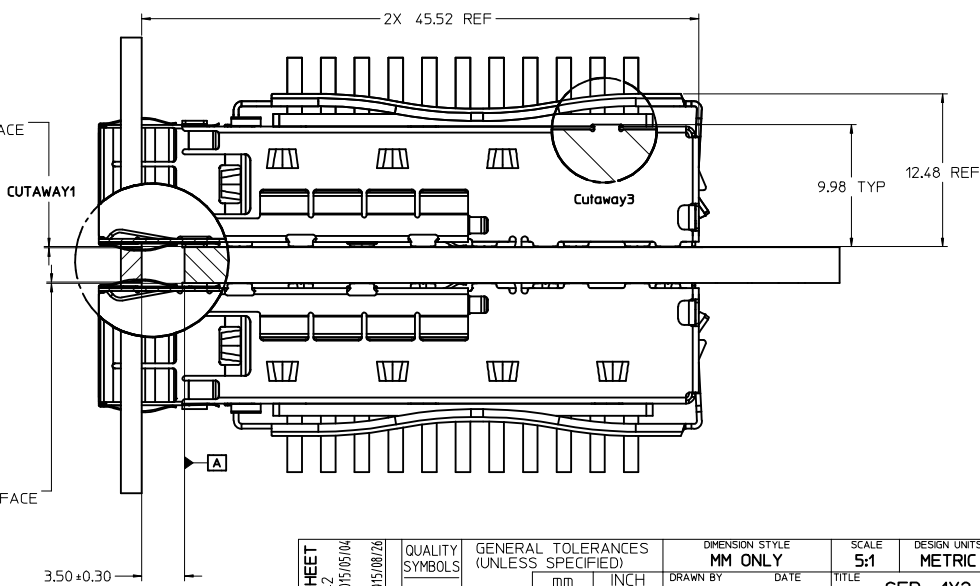


BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING
(SPRING FINGER)



0.09 ± 0.10
BEZEL OPENING
BELOW PCB PAD SURFACE
(SEE NOTE 1)

0.09 ± 0.10
BEZEL OPENING
BELOW PCB PAD SURFACE
(SEE NOTE 1)



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

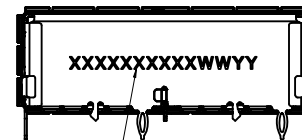
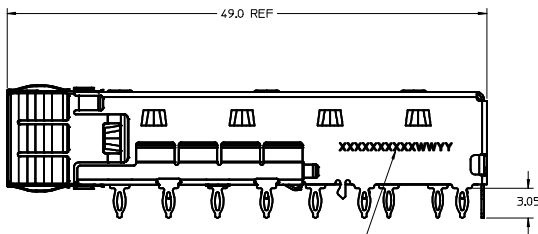
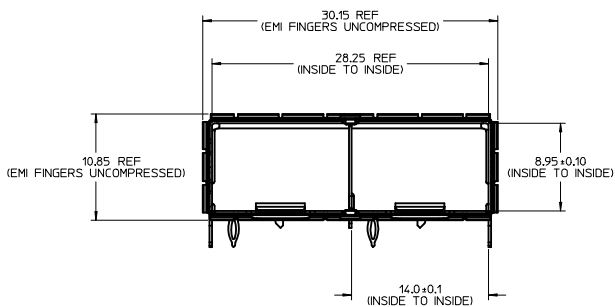
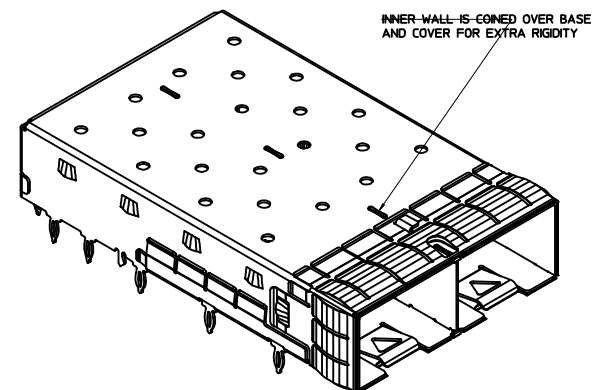
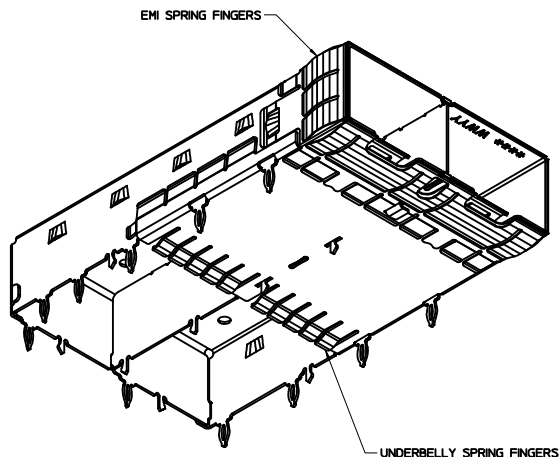
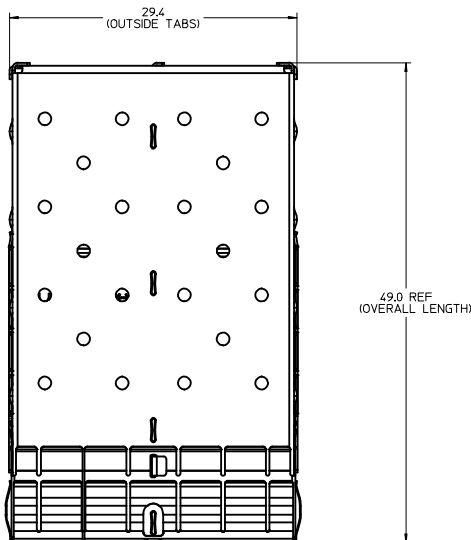
SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: CHYK 2015/05/04 APPR: RCHEN08 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	5:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: GBARELLA	DATE: 2013/11/21	APPROVED BY: DATE	
	ANGULAR ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
			SEE SHEET 4	SD-11112-2220	7 OF 8	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: H CHYK: H APPROV: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---	mm INCH	DRAWN BY: JERWIN DATE: 2013/11/21	CHECKED BY: GBARDELLA DATE: 2013/11/21	TITLE SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS			
		ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2220	molex			
				SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

BASE CAGE DETAILS

747540220



P/N/DATE CODE TO BE PRINTED IN APPROXIMATE AREA AS SHOWN FOR 11112 SERIES CAGE

P/N/DATE CODE TO BE PRINTED ON THE BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 74754 AND 10013 SERIES CAGE (747540247 NO NEED PRINTED)

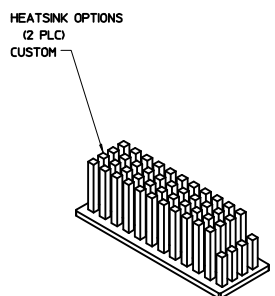
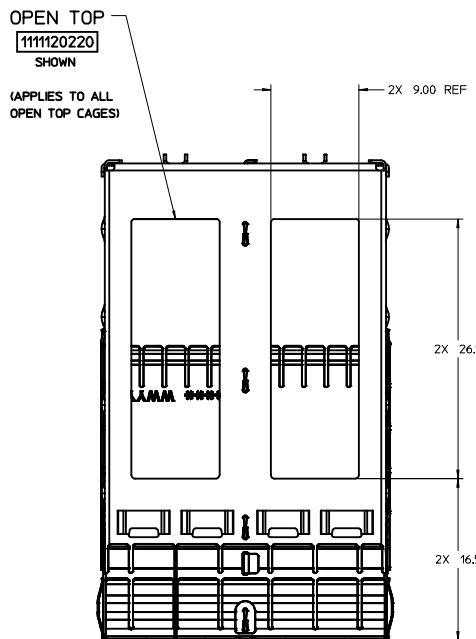
NOTES:

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

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

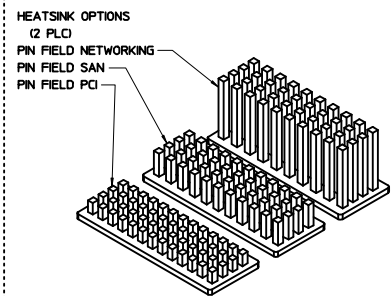
SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: HJ CHYK: APPR:RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY	4:1	METRIC	☉
	▽=0	3 PLACES ± --- ± ---	DRAWN BY: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	2 PLACES ± 0.13 ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21	APPROVED BY: DATE	
		1 PLACE ± 0.25 ± ---	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2220	SHEET NO. 1 OF 8	
		0 PLACE ± --- ± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

CAGE ASSEMBLY OPTIONS



HEATSINK OPTIONS
(2 PLD)
CUSTOM

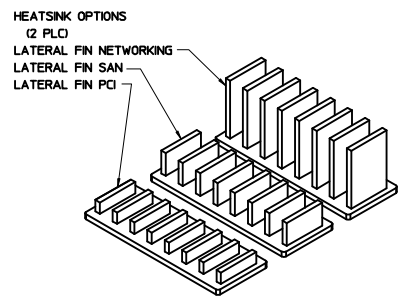
STYLE	DIM 'A'	DIM 'B'
CUSTOM	20.4	16.7



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

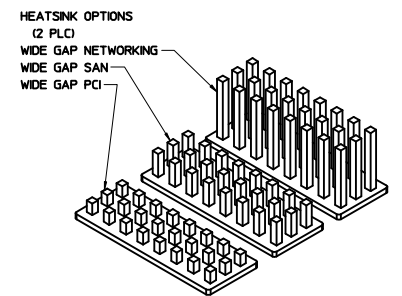
APPLICATION	STYLE	DIM 'A'
PCI	PIN FIELD	14.3
SAN	PIN FIELD	16.6
NETWORKING	PIN FIELD	23.6

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



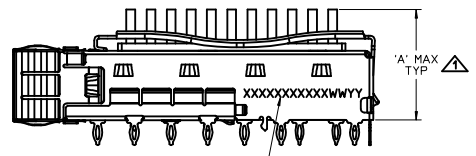
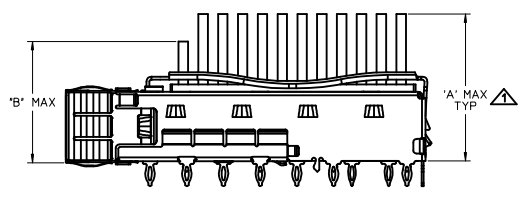
HEATSINK OPTIONS
(2 PLD)
LATERAL FIN NETWORKING
LATERAL FIN SAN
LATERAL FIN PCI

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



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

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

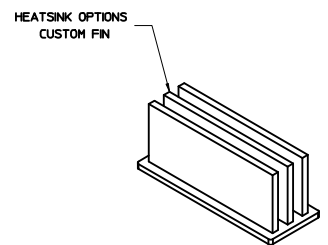
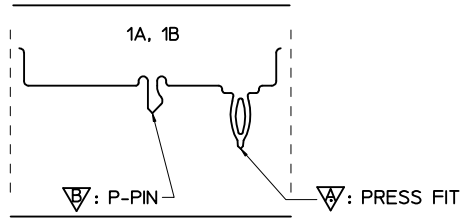


PN/DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN, FOR 11112 SERIES CAGES

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

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

REAR LEG OPTIONS (PER PORT)



HEATSINK OPTIONS
CUSTOM FIN

APPLICATION	DIM 'A'
CUSTOM	23.6

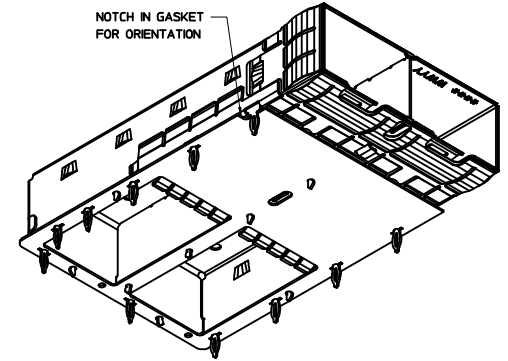
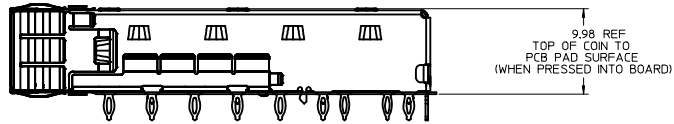
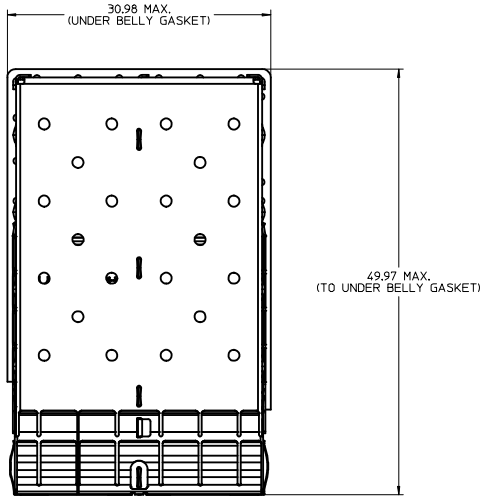
SEE REVISION SHEET EC NO: CPG2015-5742 DRAWN BY: JERWIN CHYD: APPR: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±--- ANGULAR ±--- DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY: JERWIN DATE: 2013/11/21 CHECKED BY: GBARDELLA DATE: 2013/11/21 APPROVED BY: DATE:	SCALE: 3:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS molex	MATERIAL NO.: SEE SHEET 4	DOCUMENT NO.: SD-11112-2220	SHEET NO.: 2 OF 8
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
	SIZE D							
	19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1							

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

OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

1001130220

SHOWN

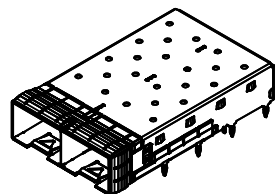


NOTE:
1. UNDER BELLY GASKET IS UL94 V-0 RATED.

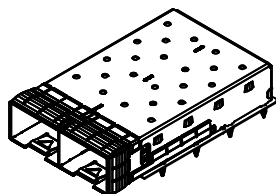
SEE REVISION SHEET EEC NO: CPG2015-5742 DRAWN BY: JERWIN CHYK: 2015/05/04 APPR: RCHEN08 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	∇=0 ∇=0 ∇=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---	MM ONLY	3.5:1	METRIC	DRAWN BY: JERWIN DATE: 2013/11/21 CHECKED BY: GBARDELLA DATE: 2013/11/21 APPROVED BY: DATE:
	ANGULAR ± --- DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.: SEE SHEET 4	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	DOCUMENT NO.: SD-111112-2220	SHEET NO.: 3 OF 8	
	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

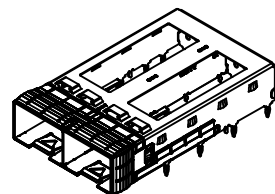
PART NUMBER SELECTION



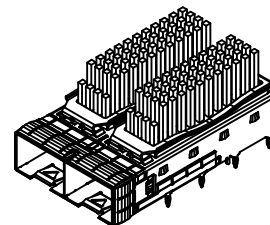
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



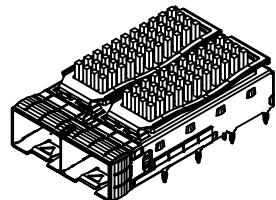
zSFP+ GEN 2 CLOSED TOP	
PART NO.	DESCRIPTION
1001130220	



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

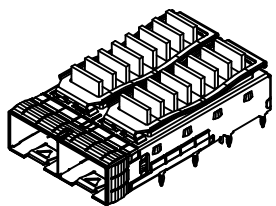


SFP+ CUSTOM HEATSINK OPTION	
PART NO.	DESCRIPTION
1111120226	

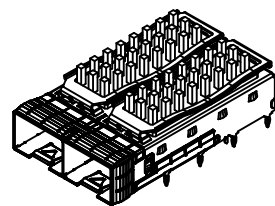


SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

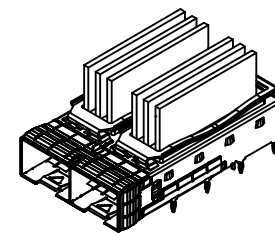
NOTE: PCI - 13 ROWS
SAN - 11 ROWS
NETWORKING - 10 ROWS



SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111124220	PCI
1111125220	SAN
1111126220	NETWORKING



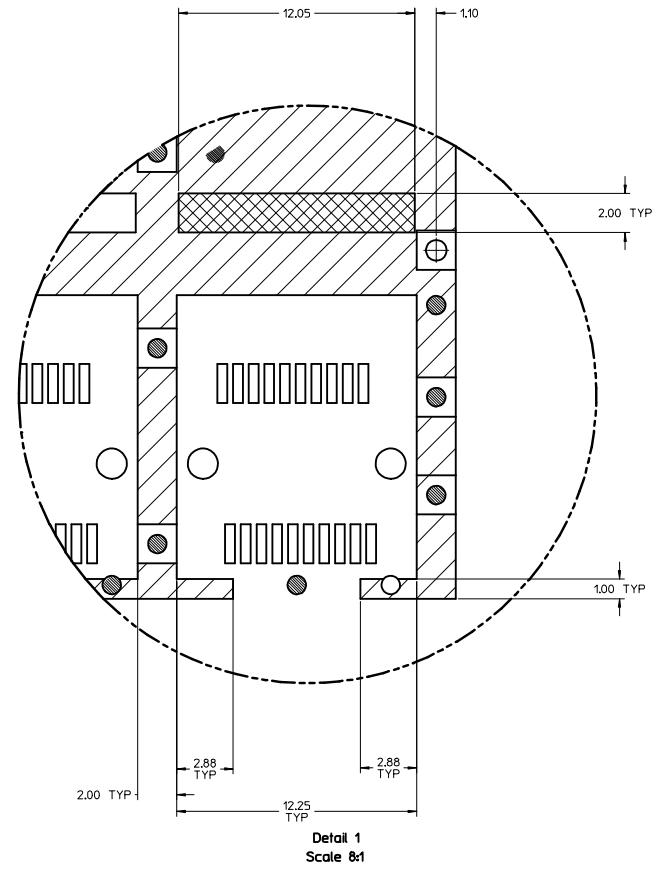
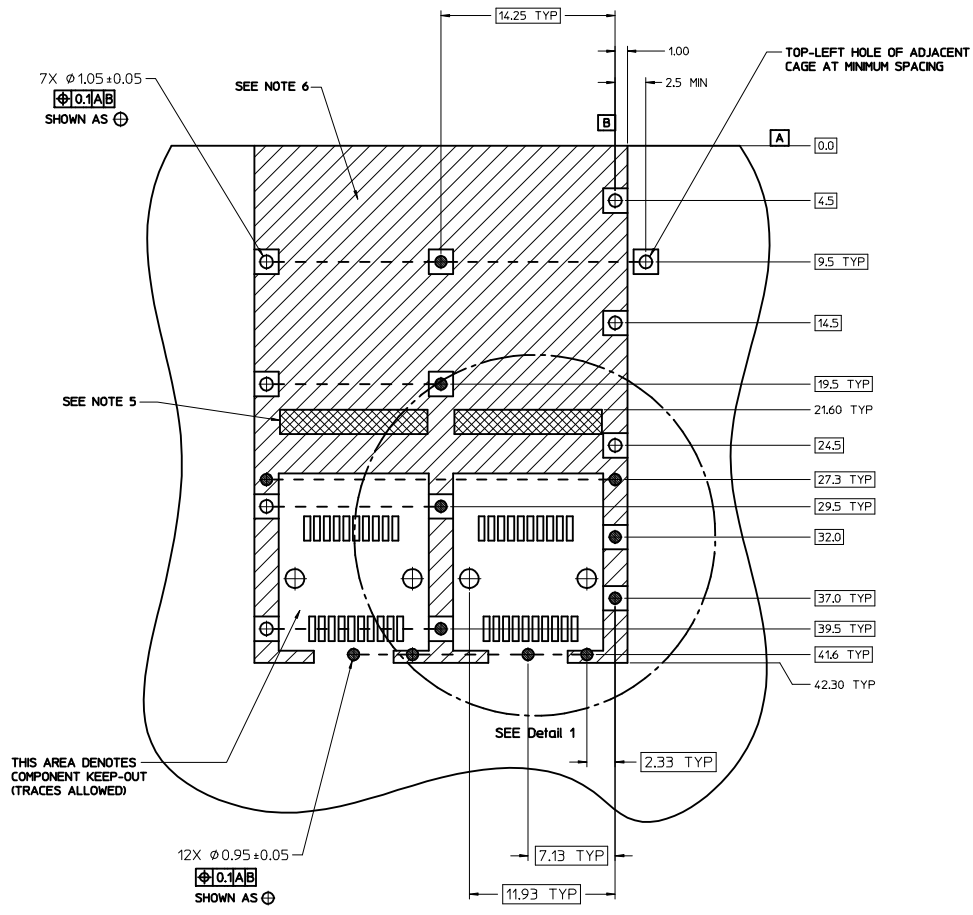
SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111127220	PCI
1111128220	SAN
1111129220	NETWORKING



SFP+ CUSTOM FIN HEATSINK OPTION	
PART NO.	DESCRIPTION
1111126221	

SEE REVISION SHEET EC NO. CPC2015-5742 DRAWN:THSU CHKD: APPR:RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2:1	METRIC	
	▽=0	4 PLACES ±--- ±---	DRAWN BY	DATE	TITLE	
	▽=0	3 PLACES ±--- ±---	JERWIN	2013/11/21	SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
▽=0	2 PLACES ±0.13 ±---	CHECKED BY	DATE			
	1 PLACE ±0.25 ±---	GBARDELLA	2013/11/21			
	0 PLACE ±--- ±---	APPROVED BY	DATE			
	ANGULAR ±--- ±---	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLES	SD-111112-2220	4 OF 8		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

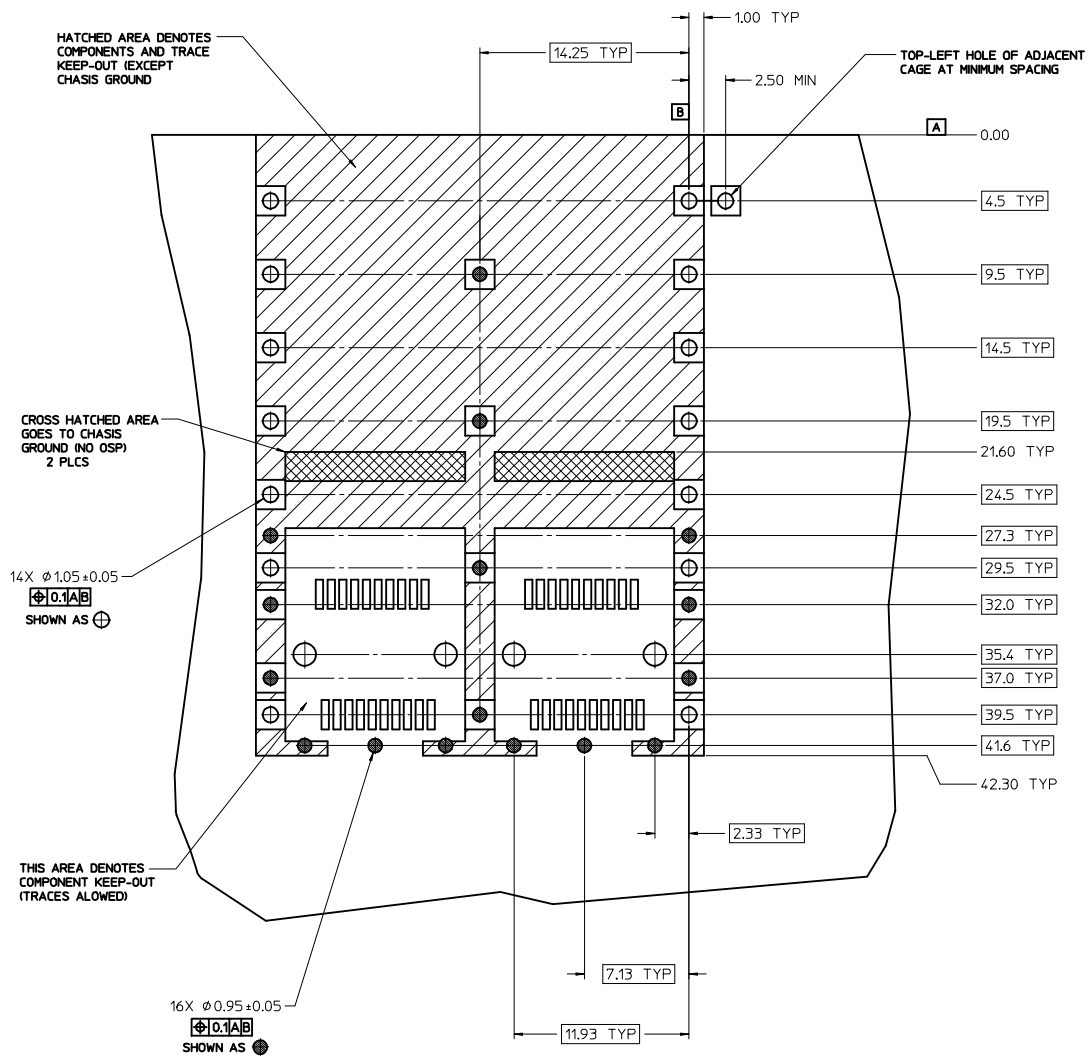
PCB LAYOUT - SINGLE SIDE ONLY



- NOTES:**
- PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 - CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 - SPACING BETWEEN PORTS IS 14.25mm
 - CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
 - HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
 - 1.57mm (.062 INCH) MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: H CHYK: APPR: RCHEN08 DESCRIPTION: 2015/05/04 2015/08/26	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: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21	APPROVED BY: DATE	
	ANGULAR ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-11112-2220	SHEET NO. 5 OF 8	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
RECOMMEND PADS TO BE 2.00mm SQUARE
 2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
 3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
 4. SPACING BETWEEN PORTS IS 14.25mm
 5. 3.00mm [1.18 INCH] MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE.

NOTE:
SEE SHEET 5 FOR HOST
CONNECTOR DETAIL

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: JERWIN CHYK: GBARDELLA APPR: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	6:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY: JERWIN	DATE: 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: GBARDELLA	DATE: 2013/11/21	APPROVED BY: DATE	
		ANGULAR ± ---	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 4	SD-11112-2220	6 OF 8	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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

SEE REVISION SHEET IEC NO: CPG2015-5742 DRAWN BY: H CHYK: H APPR: RCHEN08 2015/05/04 2015/08/26	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---	mm INCH	DRAWN BY: JERWIN DATE: 2013/11/21	CHECKED BY: GBARDELLA DATE: 2013/11/21	TITLE SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS			
		ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.: SEE SHEET 4	APPROVED BY:	DOCUMENT NO. SD-111112-2220			
				SIZE: D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				