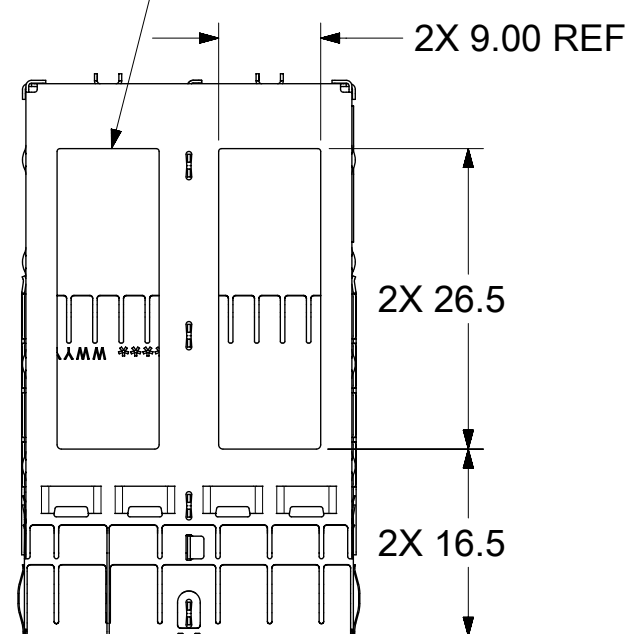


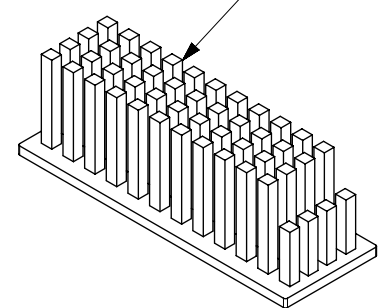


# CAGE ASSEMBLY OPTIONS

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



HEATSINK OPTIONS  
(2 PLC)  
CUSTOM

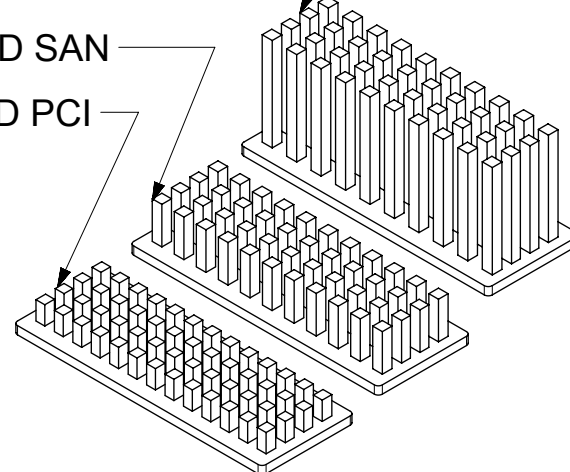


OVERALL HEATSINK HEIGHT

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

HEATSINK OPTIONS  
(2 PLC)

PIN FIELD NETWORKING  
PIN FIELD SAN  
PIN FIELD PCI



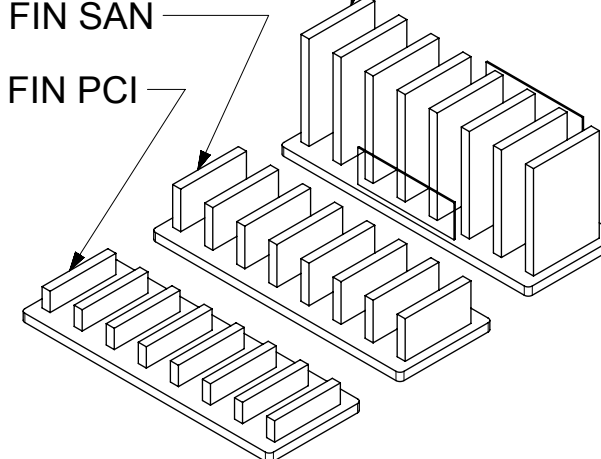
OVERALL HEATSINK HEIGHT

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

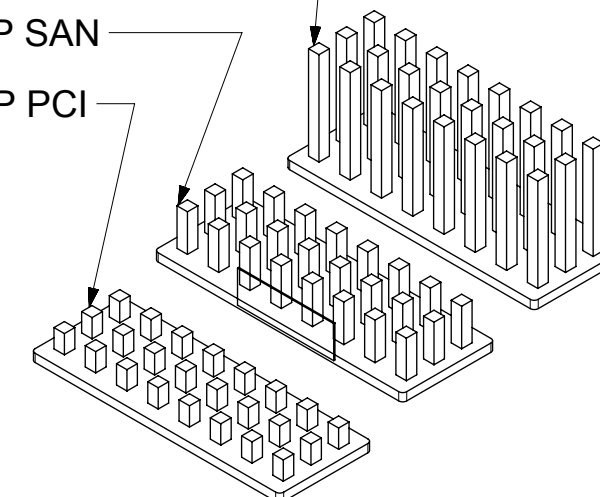


OVERALL HEATSINK HEIGHT

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

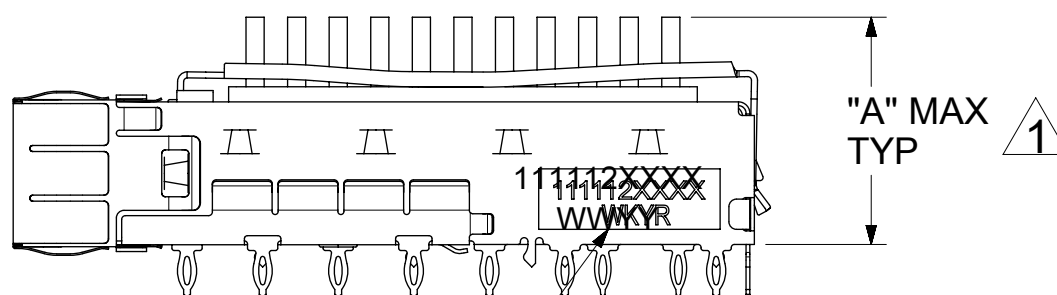
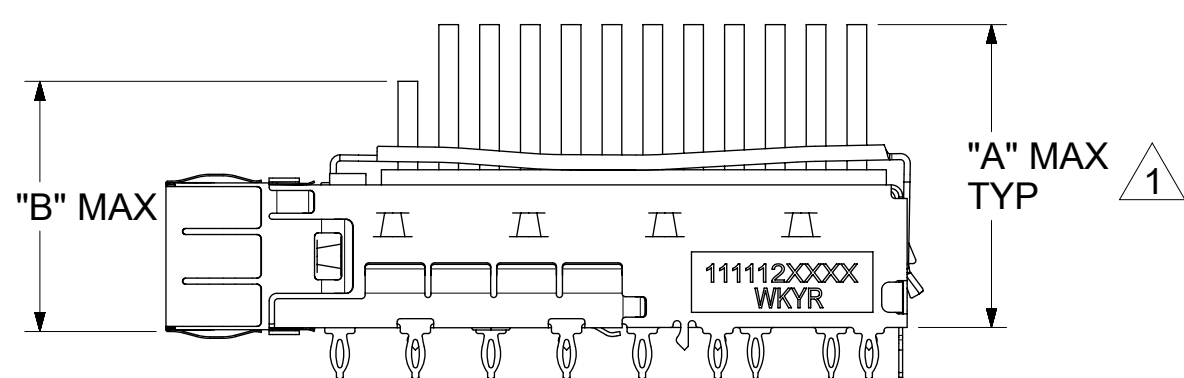
HEATSINK OPTIONS  
(2 PLC)

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

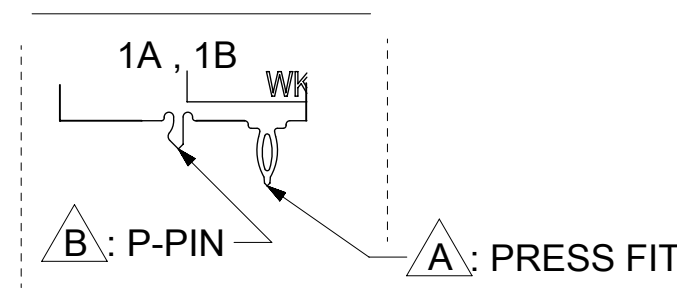


PN/DATE CODE TO BE PRINTED ON THE SIDE OF  
COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.  
FOR 11112 SERIES CAGES

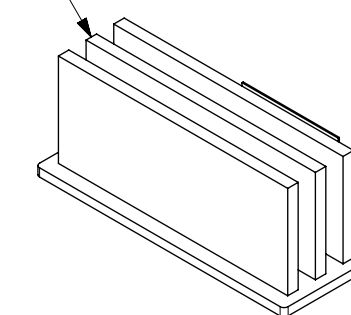
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	16, 17, 18 ETC. EXAMPLE: YEAR 2016 = 16

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

REAR LEG OPTIONS  
(PER PORT)



HEATSINK OPTIONS  
CUSTOM FIN

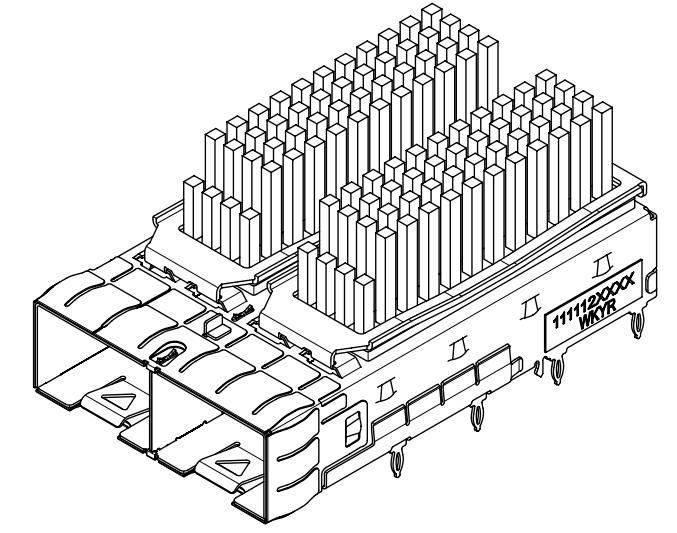
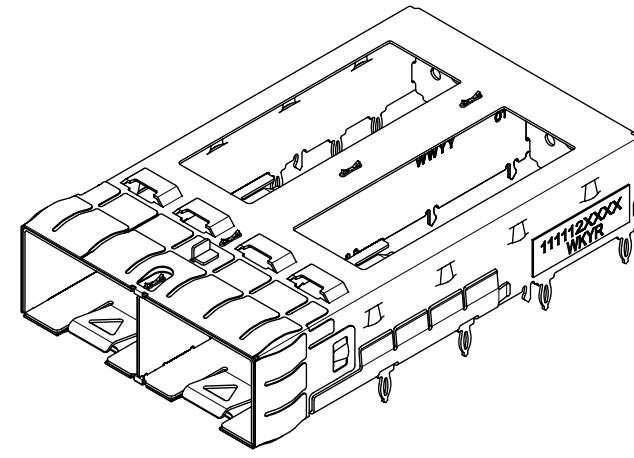
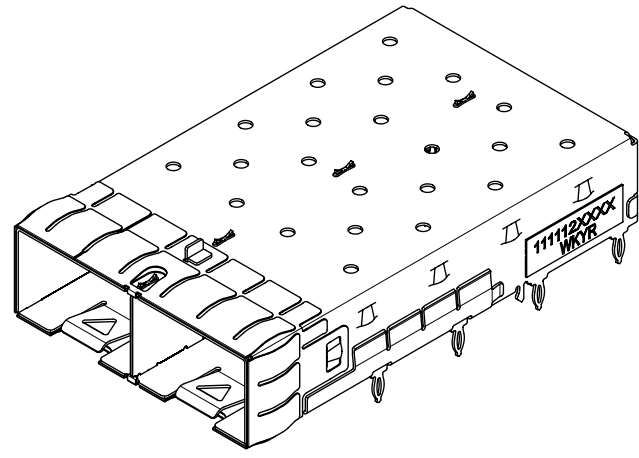


OVERALL HEATSINK HEIGHT

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 MM	SCALE 1.5:1	molex®	
	GENERAL TOLERANCES (UNLESS SPECIFIED)	DRWN BY MKEMPEGOWDA				DATE 2016/04/13
▽ = 0	SEE REVISION TABLE EC NO: 109019 DRWN: HICHANG04 CHKD: RCHEN08 REV / APPR: RCHEN08	ANGULAR TOL ± 1.0 °	CHKD BY DSUN15	DATE 2016/07/31	PRODUCT CUSTOMER DRAWING	
▽ = 0		4 PLACES ±	APPR BY RCHEN08	DATE 2016/08/04		
▽ = 0		3 PLACES ±	DRAWING SIZE C	THIRD ANGLE PROJECTION	SERIES 111112	MATERIAL NUMBER SEE SHEET 3
▽ = 0		2 PLACES ± 0.13	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	C	DOCUMENT NUMBER 1111122220	DOC TYPE PSD
▽ = 0		1 PLACE ± 0.25				
▽ = 0		0 PLACES ±				

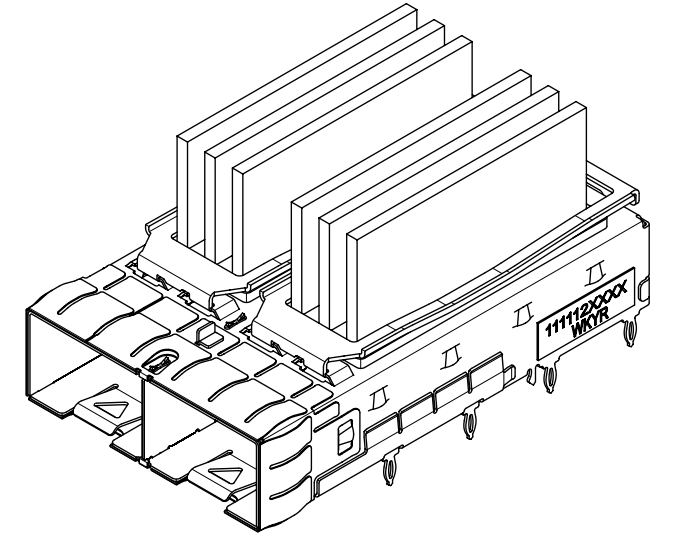
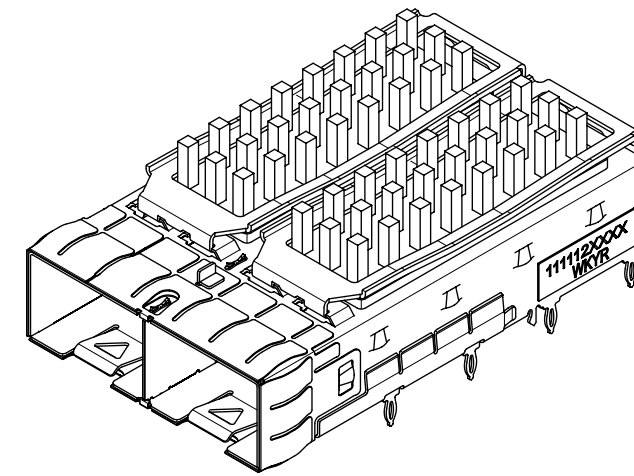
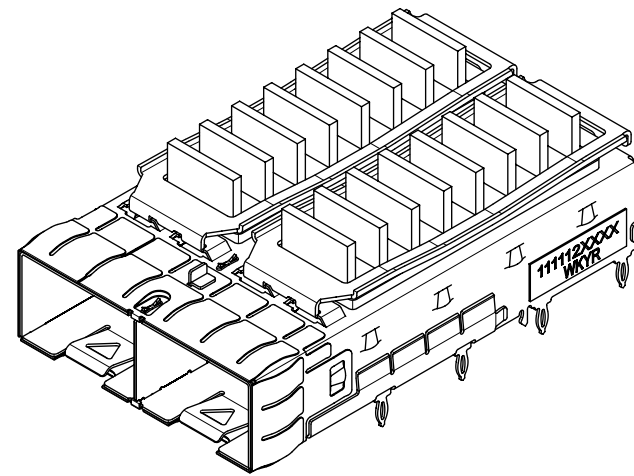
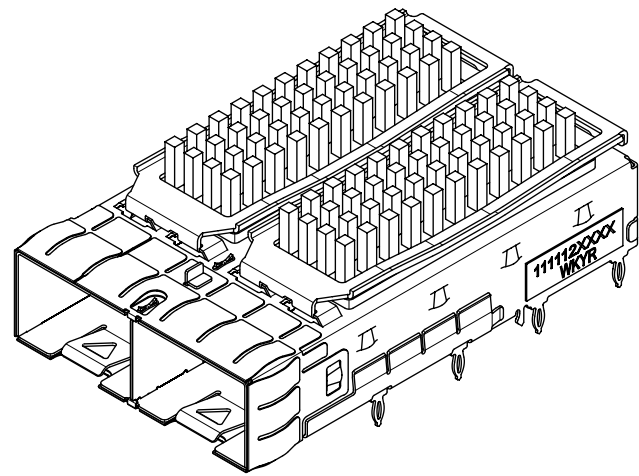
# PART NUMBER SELECTION



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

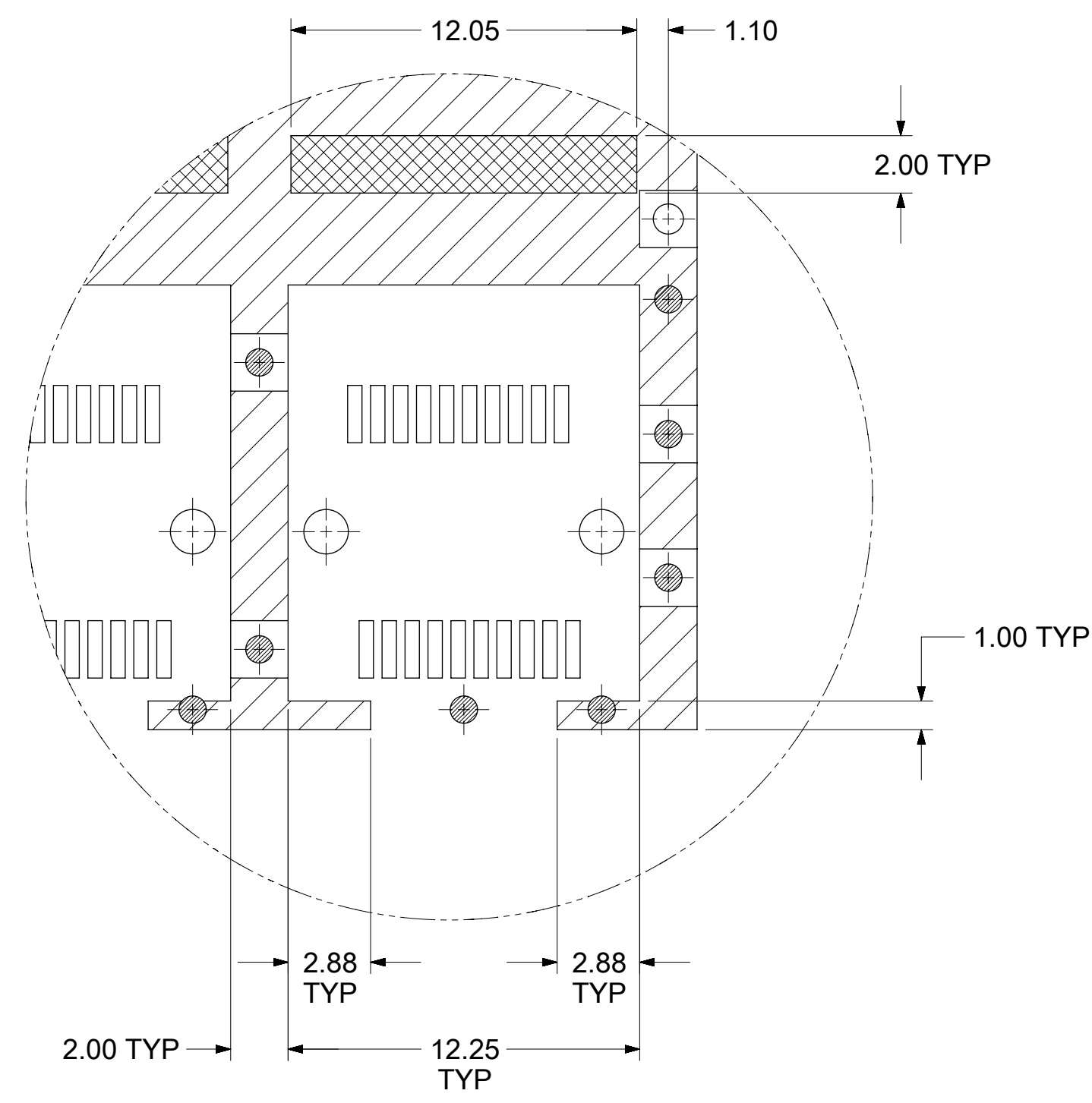
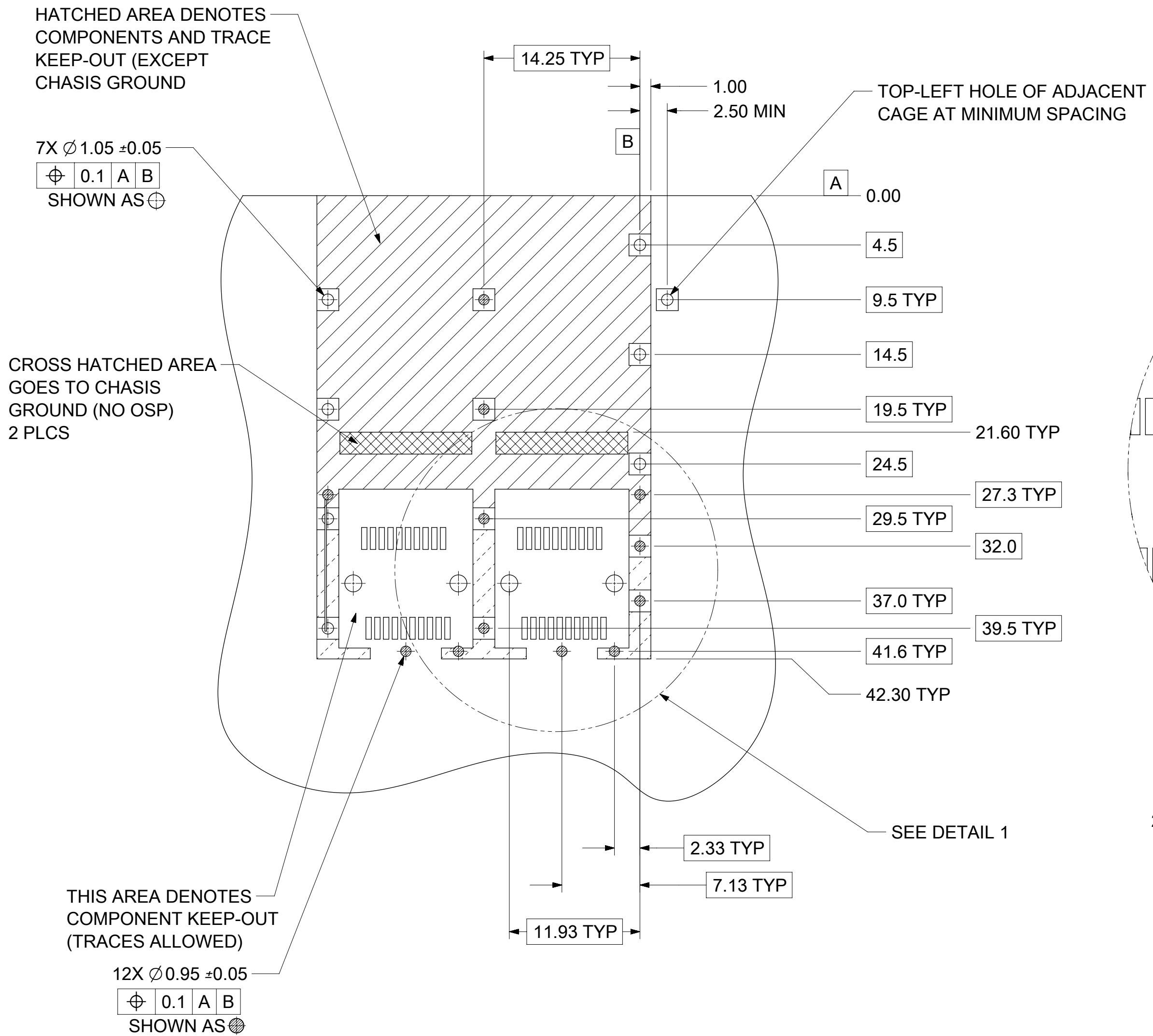
SFP+ LATERAL FIN HEATSINK OPTION	
PART NO.	APPLICATION
1111127220	PCI
1111128220	SAN
1111129220	NETWORKING

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: 109019 DRWN: HICHANG04 CHKD: RCHEN08 REV: APPR: RCHEN08	2016/10/05	2016/10/06	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION UNITS	SCALE				
				ANGULAR TOL ± 1.0 °			MM	1.25:1				
		4 PLACES	±	DRWN BY			DATE	SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS				
		3 PLACES	±	MKEMPEGOWDA			2016/04/13					
		2 PLACES	± 0.13	CHKD BY			DATE					
	1 PLACE	± 0.25	DSUN15			2016/07/31						
	0 PLACES	±	APPR BY			DATE						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE			THIRD ANGLE PROJECTION			PRODUCT CUSTOMER DRAWING SERIES: 111112 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER:		
	J1	C	DOCUMENT NUMBER: 1111122220			DOC TYPE: PSD			DOC PART: ASY SHEET NUMBER: 3 OF 7			

# PCB LAYOUT - SINGLE SIDE ONLY

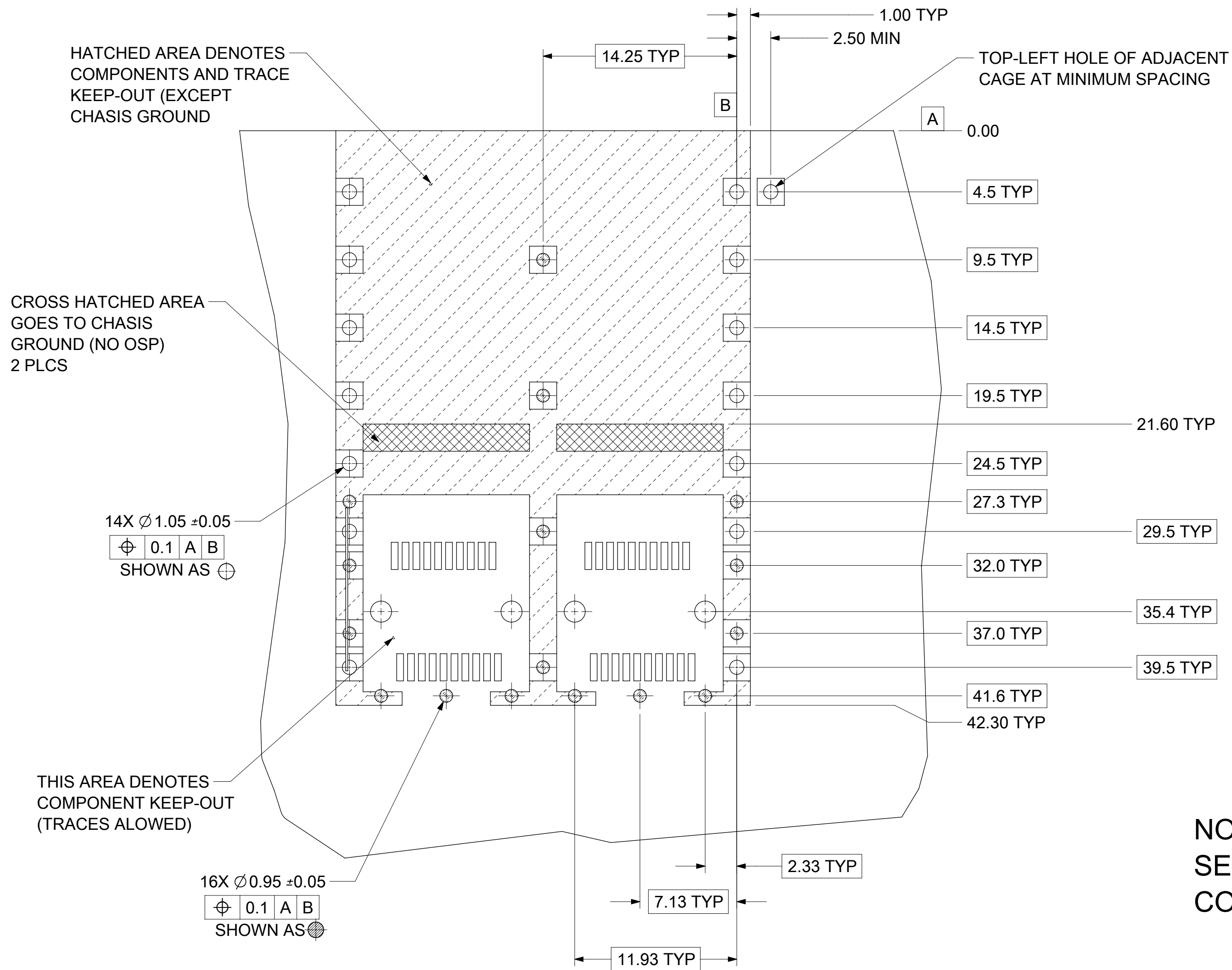


DETAIL 1  
SCALE 5:1

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

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: 109019 DRWN: HICHANG04 CHKD: RCHEN08 REV: APPR:	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE			
▽ = 0	▽ = 0		ANGULAR TOL ± 1.0 °		MM	1:1			
▽ = 0	▽ = 0		4 PLACES ±	DRWN BY		DATE			
▽ = 0	▽ = 0		3 PLACES ±	MKEMPEGOWDA		2016/04/13			
▽ = 0	▽ = 0		2 PLACES ± 0.13	CHKD BY		DATE			
▽ = 0	▽ = 0		1 PLACE ± 0.25	DSUN15		2016/07/31			
▽ = 0	▽ = 0	0 PLACES ±	APPR BY		DATE				
▽ = 0	▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		RCHEN08	2016/08/04	PRODUCT CUSTOMER DRAWING			
▽ = 0	▽ = 0	DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER	CUSTOMER	
		C				111112	SEE SHEET 3		
		J1		DOCUMENT NUMBER		111122220	DOC TYPE	DOC PART	SHEET NUMBER
						PSD	ASY	4 OF 7	

# PCB LAYOUT FOR BELLY TO BELLY MOUNTING



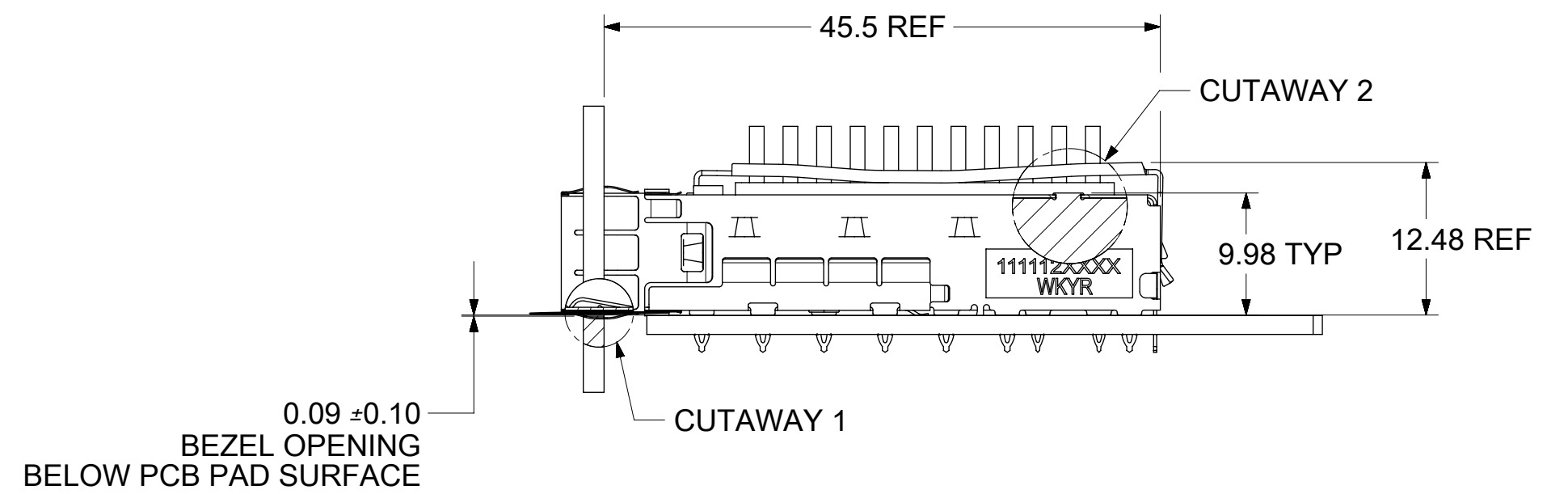
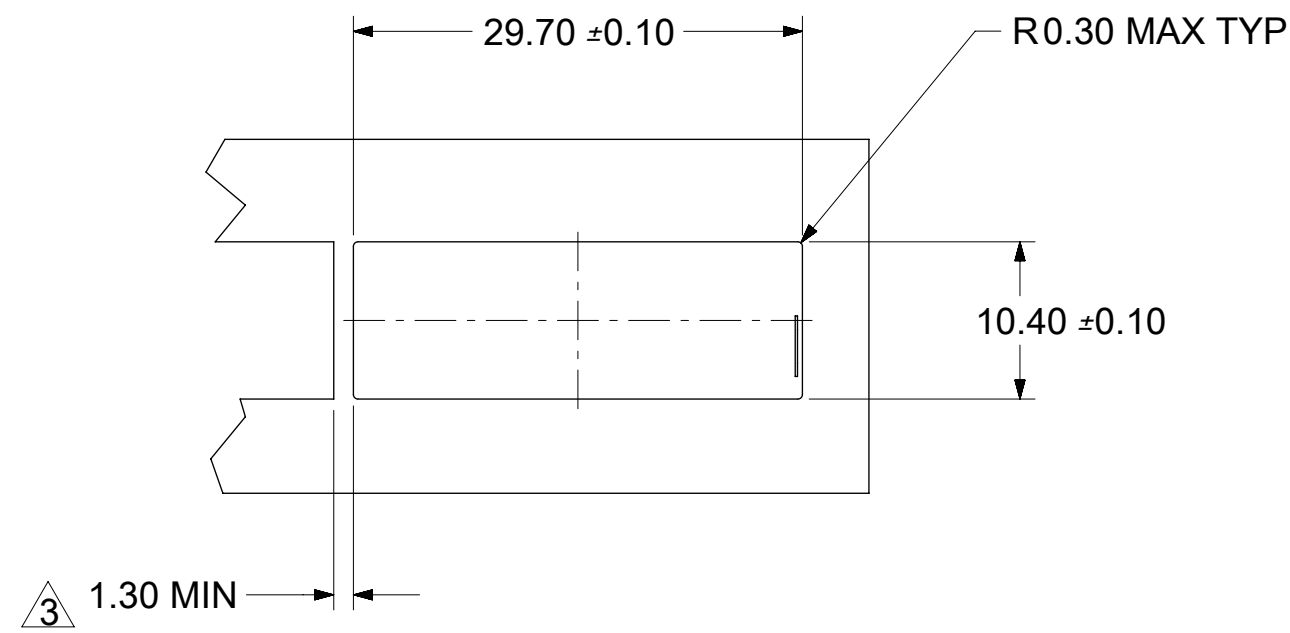
**NOTE:**  
SEE SHEET 5 FOR HOST CONNECTOR DETAIL

**NOTES:**

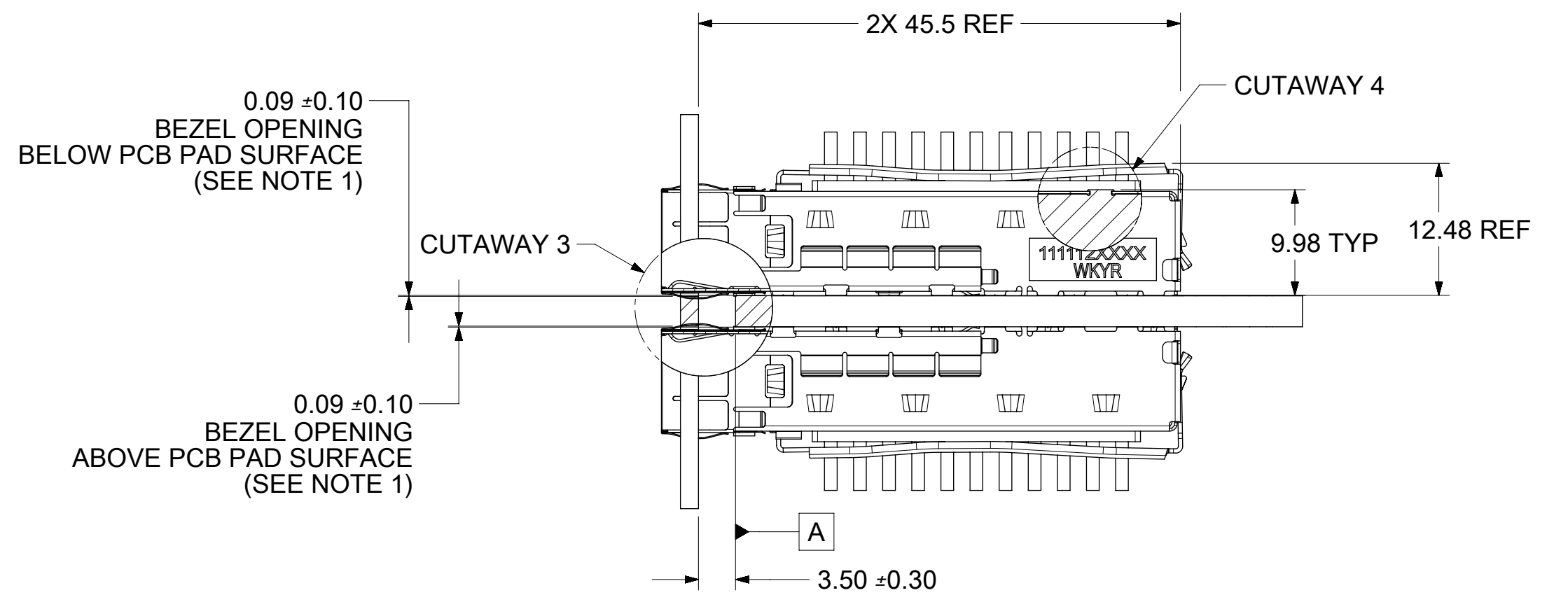
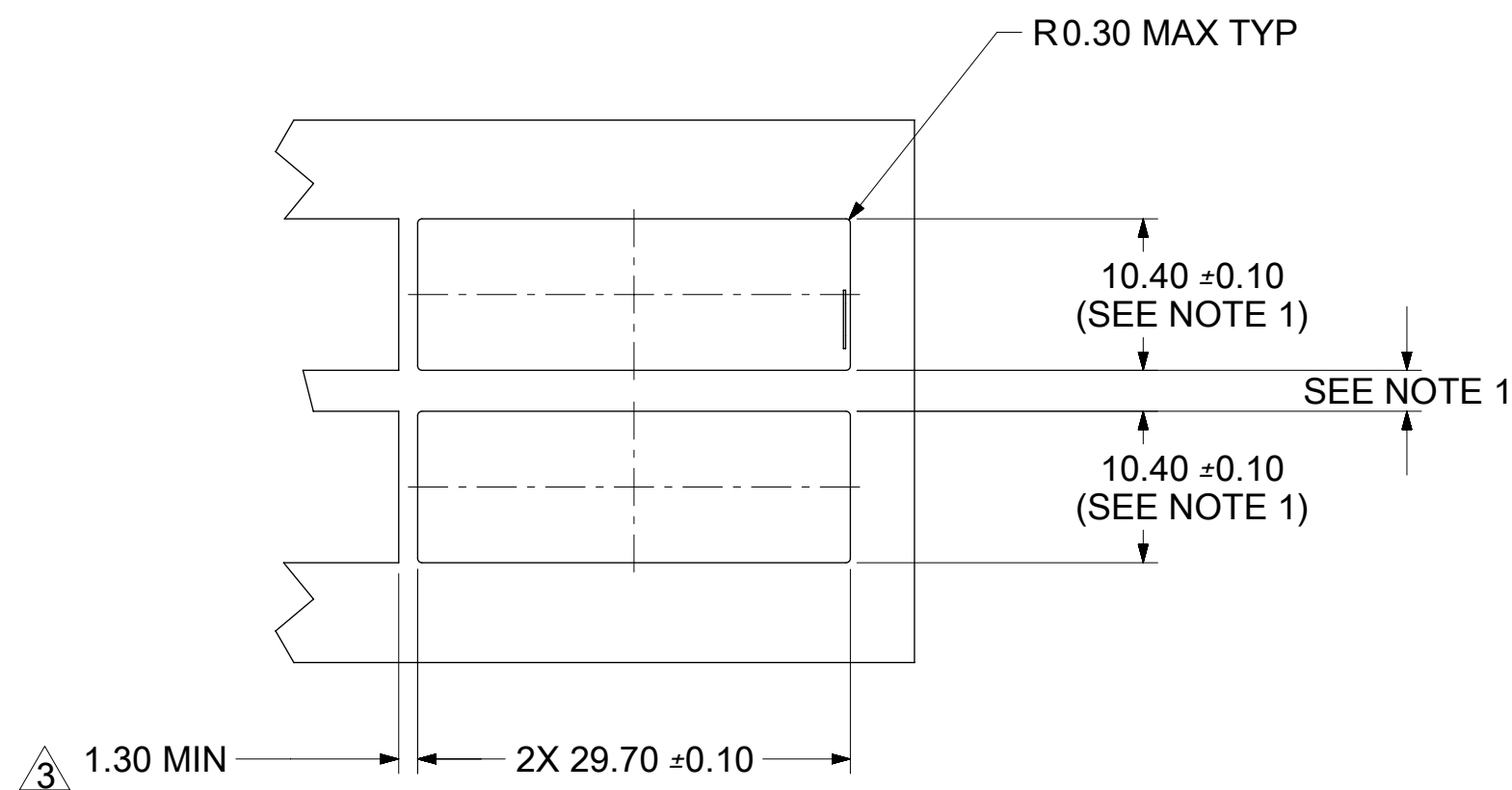
1. PADS AND VIAS CONNECT TO CHASSIS GROUND  
RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS 14.25mm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

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	<b>molex</b>
			MM	4:1		
$\nabla$ = 0	SEE REVISION TABLE EC NO: 109019 DRWN: HICHANG04 CHKD: RCHEN08 REV / APPR: RCHEN08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN BY	DATE	SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS
$\nabla$ = 0		ANGULAR TOL $\pm 1.0^\circ$		MKEMPEGOWDA	2016/04/13	
$\nabla$ = 0		4 PLACES $\pm$		CHKD BY	DATE	PRODUCT CUSTOMER DRAWING
$\nabla$ = 0		3 PLACES $\pm$		DSUN15	2016/07/31	
$\nabla$ = 0		2 PLACES $\pm 0.13$		APPR BY	DATE	SERIES MATERIAL NUMBER CUSTOMER
$\nabla$ = 0		1 PLACE $\pm 0.25$		RCHEN08	2016/08/04	
$\nabla$ = 0	0 PLACES $\pm$		DRAWING SIZE	THIRD ANGLE PROJECTION	111112	SEE SHEET 3
$\boxtimes$ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		C		DOCUMENT NUMBER	1111222220
$\blacksquare$ = 0	J1				DOC TYPE	PSD
$\nabla$ = 0					DOC PART	ASY
					SHEET NUMBER	5 OF 7

## 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.

<p>QUALITY SYMBOLS</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▼ = 0</p> <p>▽ = 0</p> <p>⊠ = 0</p> <p>■ = 0</p> <p>▽ = 0</p>	<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p> <p>EC NO: 109019 DRWN: HCHANG04 CHKD: RCHEN08 REV: APPR: RCHEN08</p> <p>2016/10/05 2016/10/06</p> <p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>4 PLACES</td> <td>±</td> </tr> <tr> <td>3 PLACES</td> <td>±</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> </tr> <tr> <td>0 PLACES</td> <td>±</td> </tr> </table> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>	4 PLACES	±	3 PLACES	±	2 PLACES	± 0.13	1 PLACE	± 0.25	0 PLACES	±	<p>DIMENSION UNITS: MM</p> <p>SCALE: 2:1</p> <p>DRWN BY: MKEMPEGOWDA DATE: 2016/04/13</p> <p>CHKD BY: DSUN15 DATE: 2016/07/31</p> <p>APPR BY: RCHEN08 DATE: 2016/08/04</p> <p>DRAWING SIZE: C</p> <p>THIRD ANGLE PROJECTION</p>	<p><b>molex</b></p> <p>SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>SERIES: 111112 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER:</p> <p>DOCUMENT NUMBER: 1111122220 DOC TYPE: PSD DOC PART: ASY SHEET NUMBER: 6 OF 7</p>
4 PLACES	±												
3 PLACES	±												
2 PLACES	± 0.13												
1 PLACE	± 0.25												
0 PLACES	±												

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

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: 109019 DRWN: HICHANG04 CHKD: RCHEN08 REV APPR: RCHEN08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	<b>molex</b> SFP+ 1X2 CAGE, 3.05 MM PRESS FIT, HEAT SINK, EMI SPRING FINGERS					
▽ = 0	▽ = 0		ANGULAR TOL ± 1.0 °		MM	1:1						
▽ = 0	▽ = 0		4 PLACES ±	DRWN BY	DATE	MKEMPEGOWDA 2016/04/13		PRODUCT CUSTOMER DRAWING				
▽ = 0	▽ = 0		3 PLACES ±	CHKD BY	DATE	DSUN15 2016/07/31						
▽ = 0	▽ = 0		2 PLACES ± 0.13	APPR BY	DATE	RCHEN08 2016/08/04		SERIES	MATERIAL NUMBER	CUSTOMER	111112 SEE SHEET 3	
▽ = 0	▽ = 0		1 PLACE ± 0.25	DRAWING SIZE	THIRD ANGLE PROJECTION	C		DOCUMENT NUMBER	DOC TYPE	DOC PART		
▽ = 0	▽ = 0	0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				1111122220	PSD	ASY	7 OF 7		