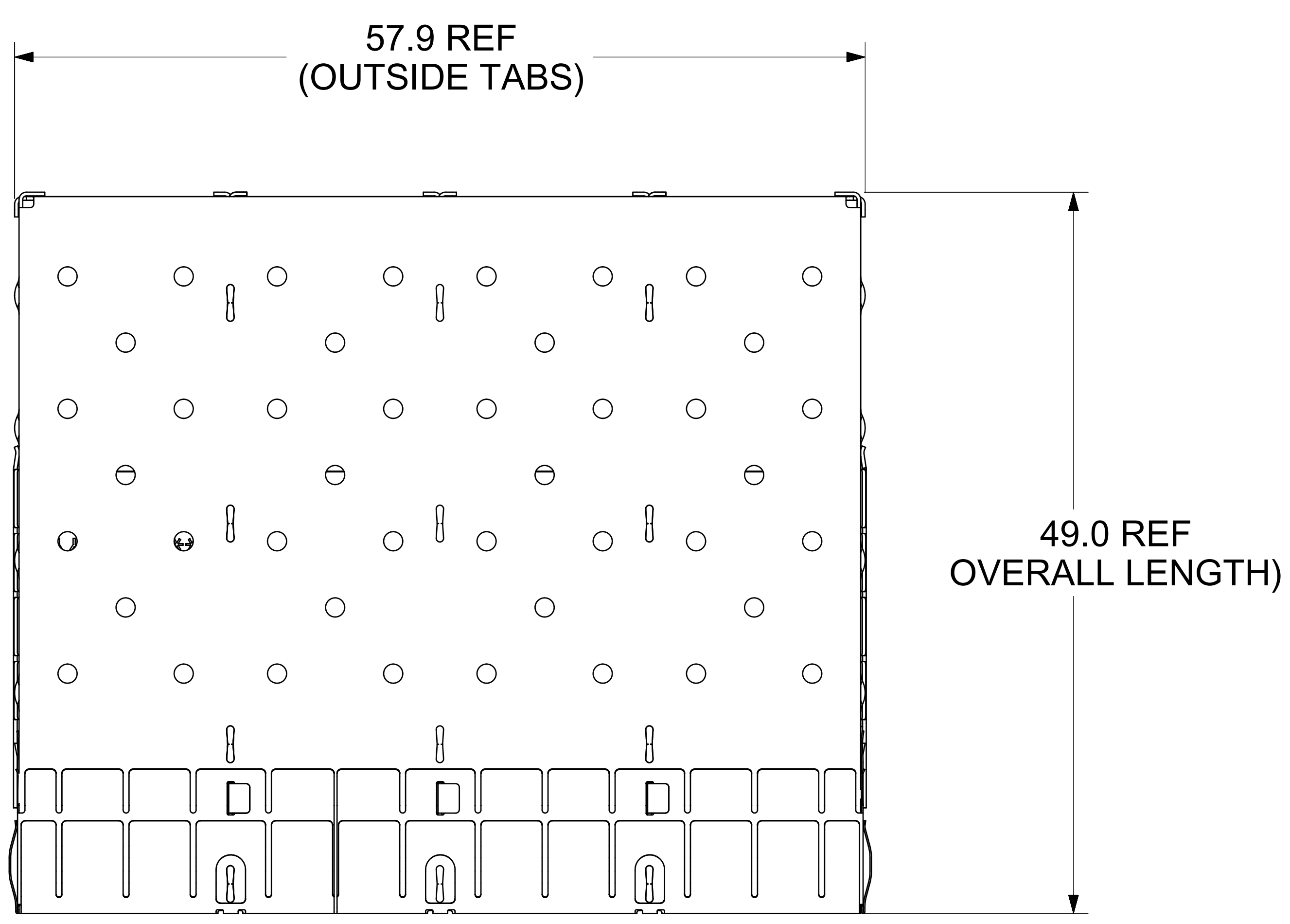
3D-MODEL:1111122420 PSM ASY

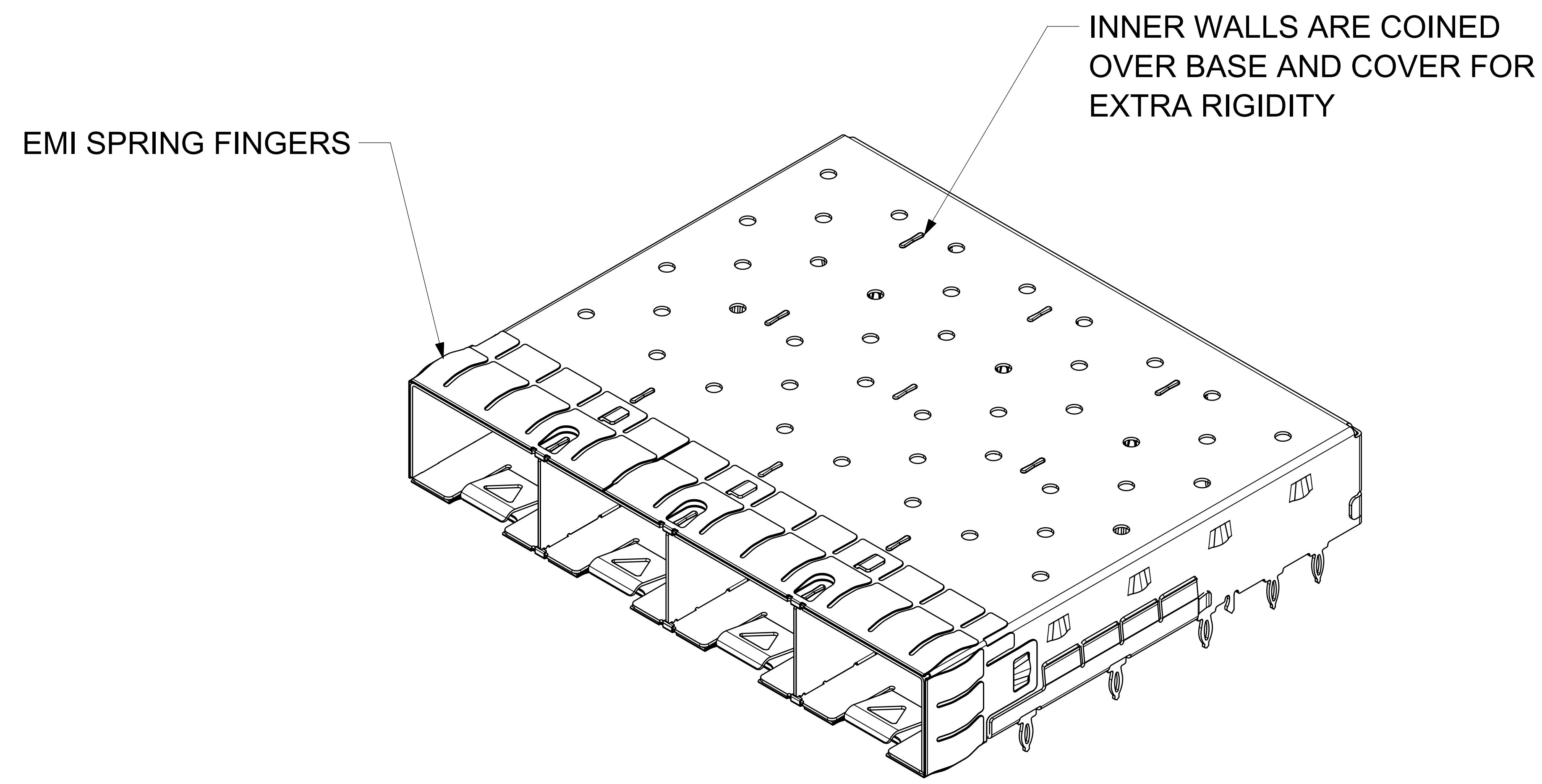
BASE CAGE DETAILS

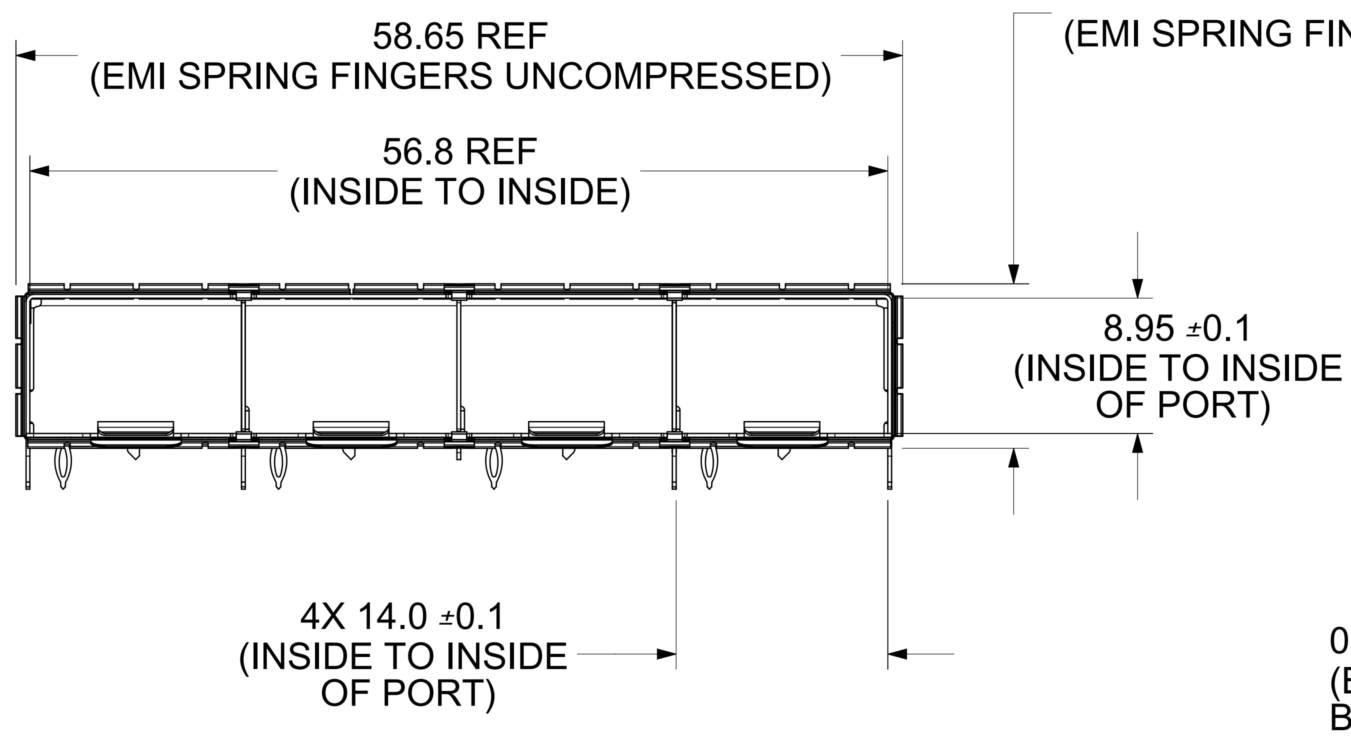
(APPLIES TO ALL CAGES IN THIS DRAWING)

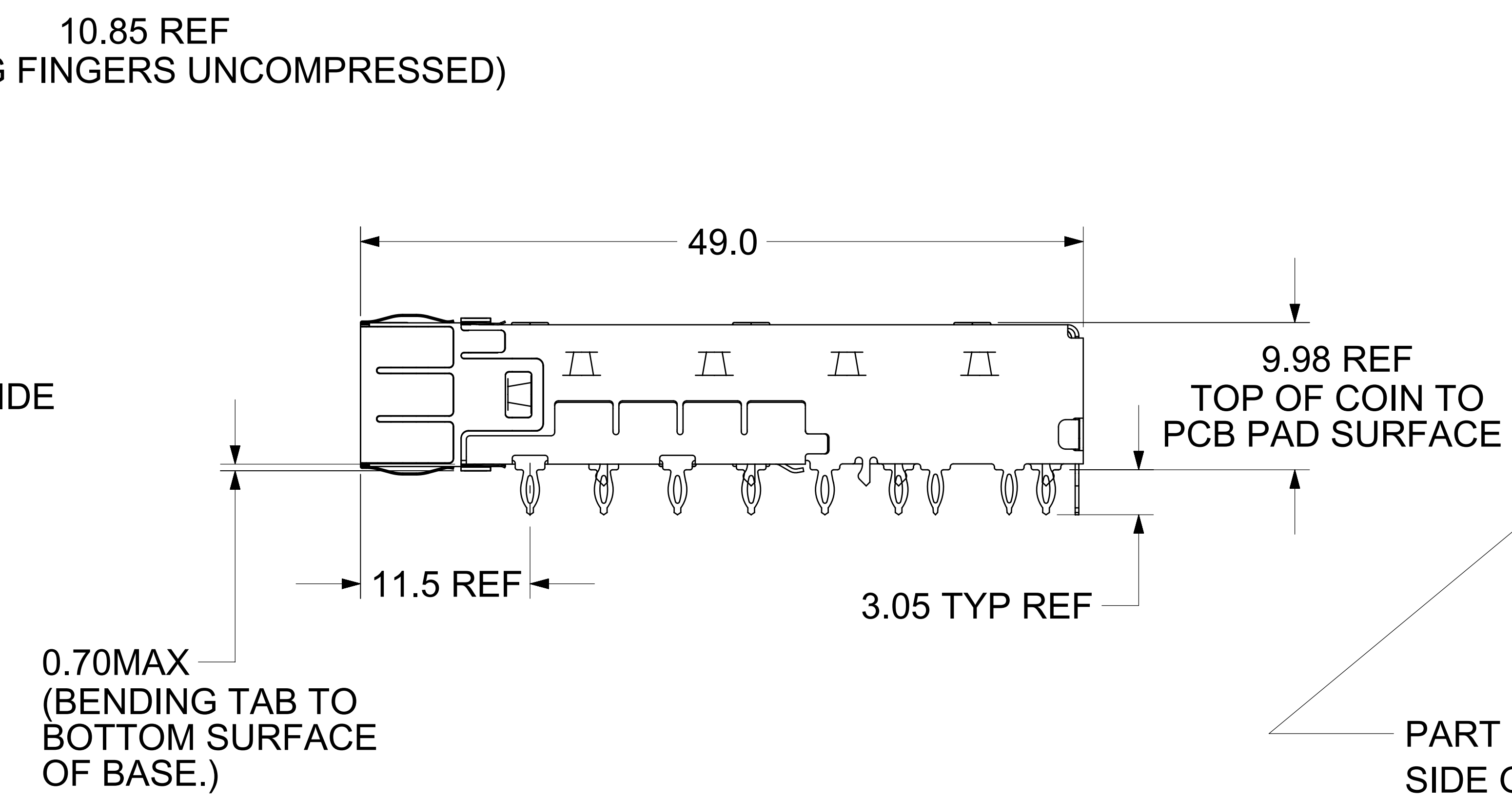
747540420

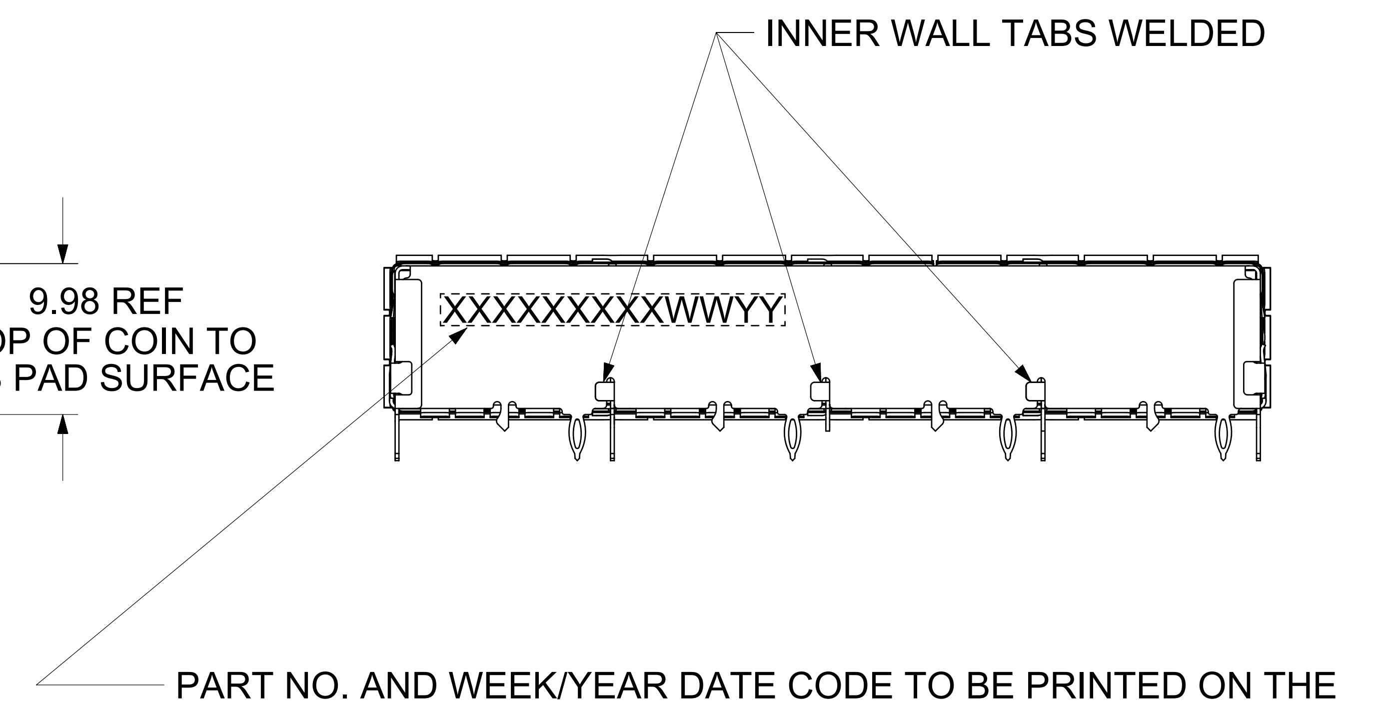
SHOWN











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

	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

NOTES:
1. 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.
2. PRESS FIT LEGS 3.05mm LONG:
3. 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.
4. WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION.
5. NO RoHS EXEMPTIONS.
6. CUSTOM HEATSINKS AVAILABLE UPON REQUEST.

QUALITY SYMBOLS	SEE REVISION TABLE	GENERAL TOLERANCES (UNLESS SPECIFIED)		
= 0	EC NO: 107116	ANGULAR TOL ± 1.0 °	DIMENSION UNITS: MM	SCALE: 2:1
= 0	DRWN: VK10 2016/06/02	4 PLACES ±	DRWN BY: VK10	DATE: 2016/06/02
= 0	CHK'D: DSUN15 2016/07/30	3 PLACES ±	CHK'D BY: DSUN15	DATE: 2016/07/30
▼ = 0	APPR: RCHEN08 2016/08/03	2 PLACES ± 0.15	APPR BY: RCHEN08	DATE: 2016/08/03
= 0		1 PLACE ± 0.25	DRAWING SIZE: C	THIRD ANGLE PROJECTION
= 0		0 PLACES ±		
■ = 0	REV: L	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		
= 0				

molex

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

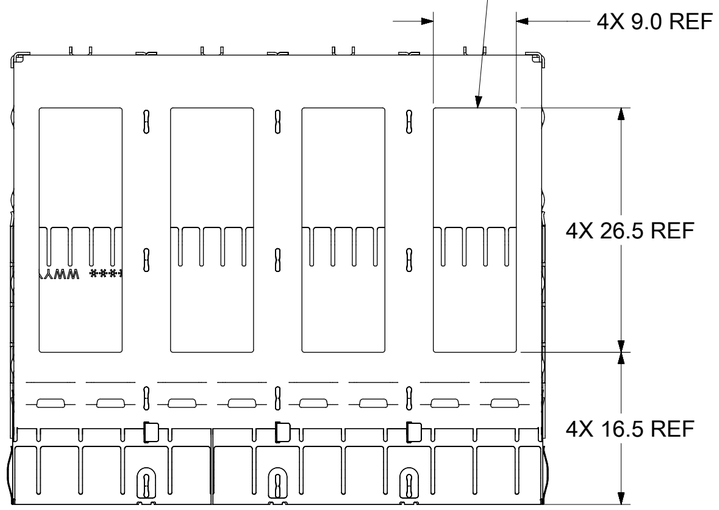
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	1 OF 8

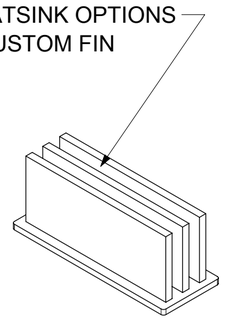
RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

CAGE ASSEMBLY OPTIONS

OPEN TOP
1111120420
SHOWN
(APPLIES TO ALL
OPEN TOP CAGES)



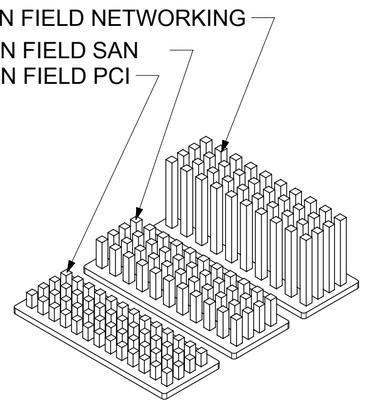
HEATSINK OPTIONS
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

HEATSINK OPTIONS

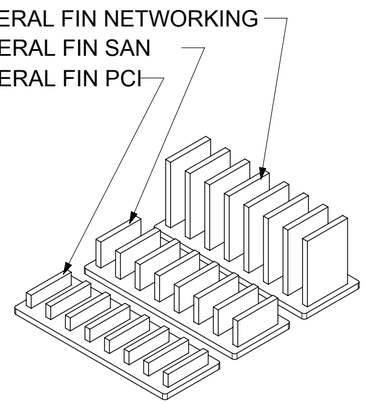


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

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

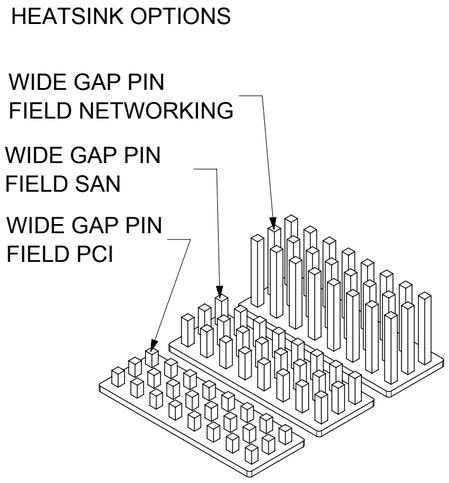
HEATSINK OPTIONS



OVERALL HEATSINK HEIGHT

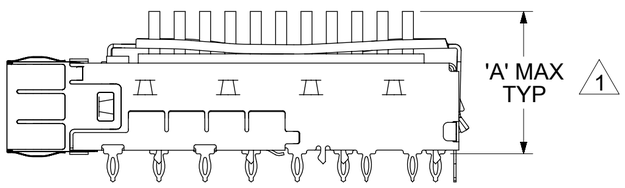
APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORK I NG	23.6

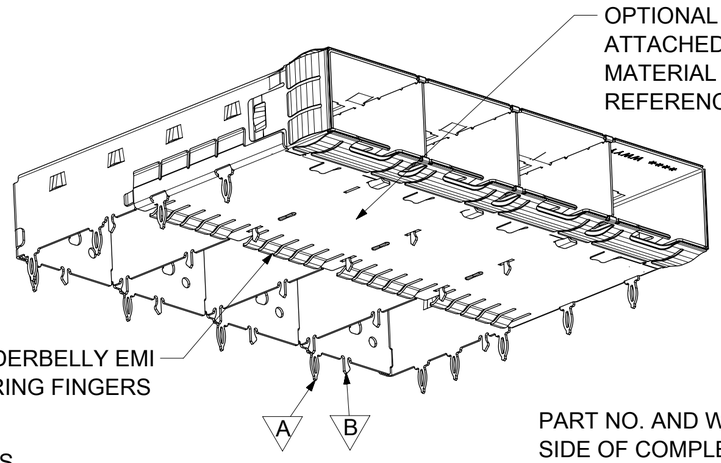
HEATSINK OPTIONS

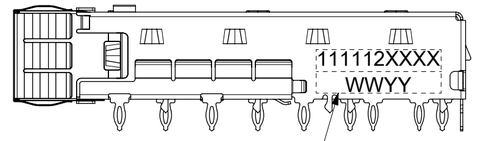


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORK I NG	23.6





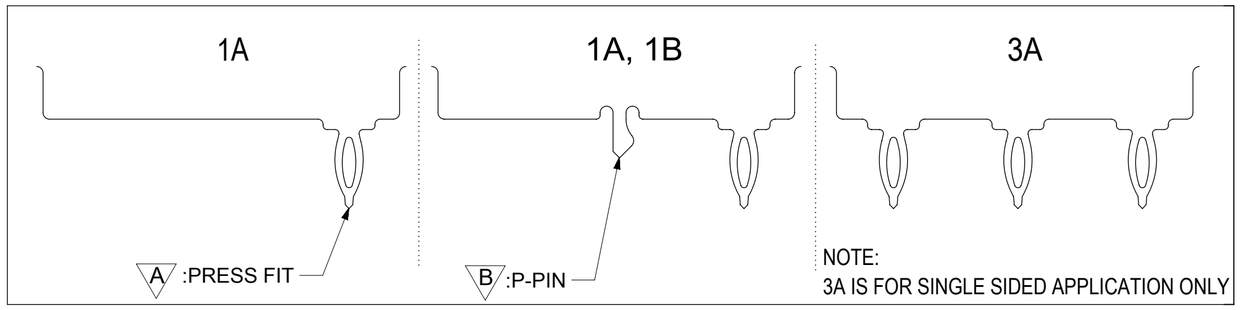


PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 111112 SERIES CAGE ASSEMBLIES.

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

	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

REAR LEG OPTIONS
(PER PORT)



RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

QUALITY SYMBOLS
F = 0
E = 0
D = 0
▼ = 0
C = 0
☒ = 0
■ = 0
▽ = 0

SEE REVISION TABLE
EC NO: 107116 2016/06/02
DRWN: VK10 2016/07/30
CHK'D: DSUN15 2016/08/03
APPR: RCHEN08
REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.15
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 2:1
DRWN BY: VK10 DATE: 2016/06/02
CHK'D BY: DSUN15 DATE: 2016/07/30
APPR BY: RCHEN08 DATE: 2016/08/03
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

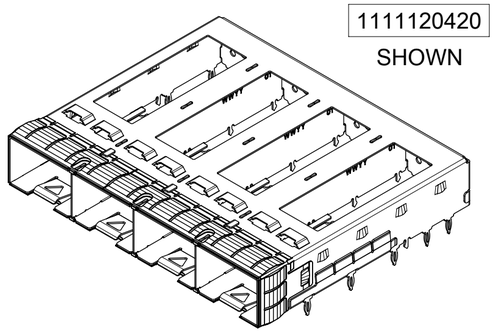
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	2 OF 8

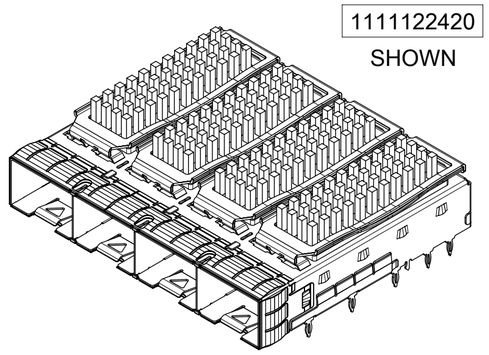
PART NUMBER SELECTION

1111120420
SHOWN



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

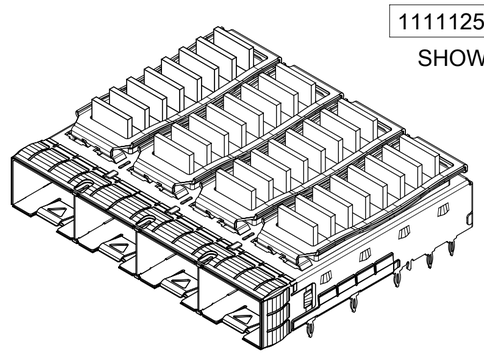
1111122420
SHOWN



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

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

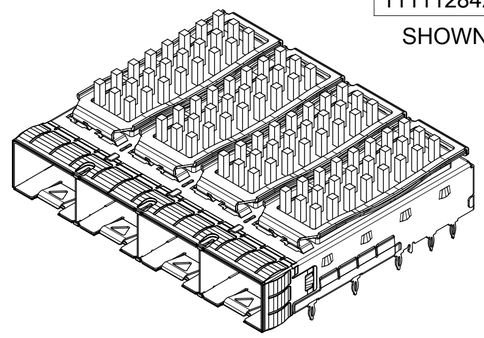
1111125420
SHOWN



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

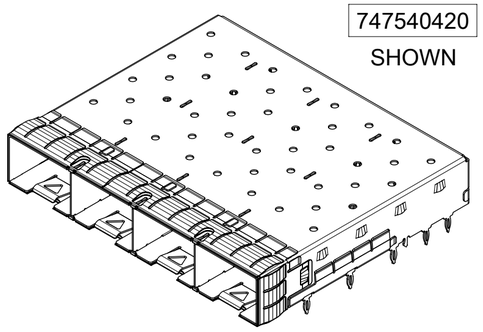
NOTE: (*)FAR LOW CAST

1111128420
SHOWN



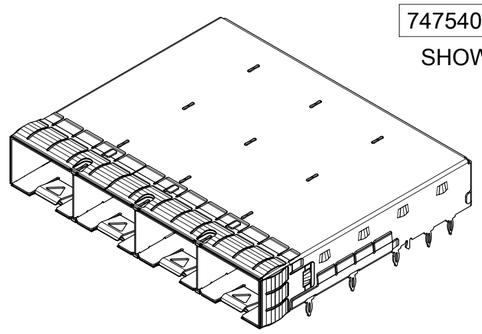
SFP+ WIDE GAP PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEAT SINK	# OF REAR LEGS PER PORT
1111127420	---	PCI	1A, 1B
1111127460	YES	PCI	1A, 1B
1111128420	---	SAN	1A, 1B
1111128460	YES	SAN	1A, 1B
1111129420	---	NET	1A, 1B
1111129460	YES	NET	1A, 1B

747540420
SHOWN



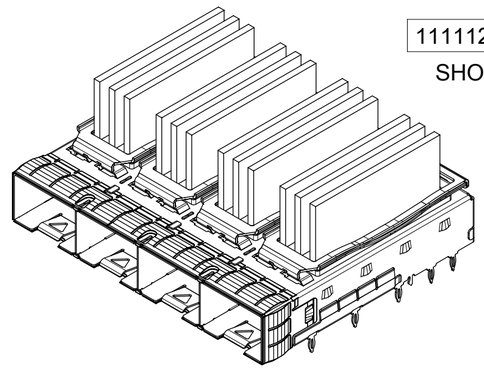
SFP+ OPEN TOP BASE CAGE FOR HEATSINK				
PART NO.	POLYIMIDE INSULATOR	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540420	---	6	1A, 1B	-----
747540422	---	6	3A	-----
747540423	---	19	1A, 1B	-----
747540427	YES	6 (15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)	1A, 1B	-----
747540464	---	6	1A, 1B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

1111126421
SHOWN



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

QUALITY SYMBOLS	
▽ =	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: 107116 2016/06/02
DRWN: VK10 2016/07/30
CHK'D: DSUN15 2016/08/03
APPR: RCHEN08
REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
MM	4:3
DRWN BY	DATE
VK10	2016/06/02
CHK'D BY	DATE
DSUN15	2016/07/30
APPR BY	DATE
RCHEN08	2016/08/03
DRAWING SIZE	THIRD ANGLE PROJECTION
C	

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

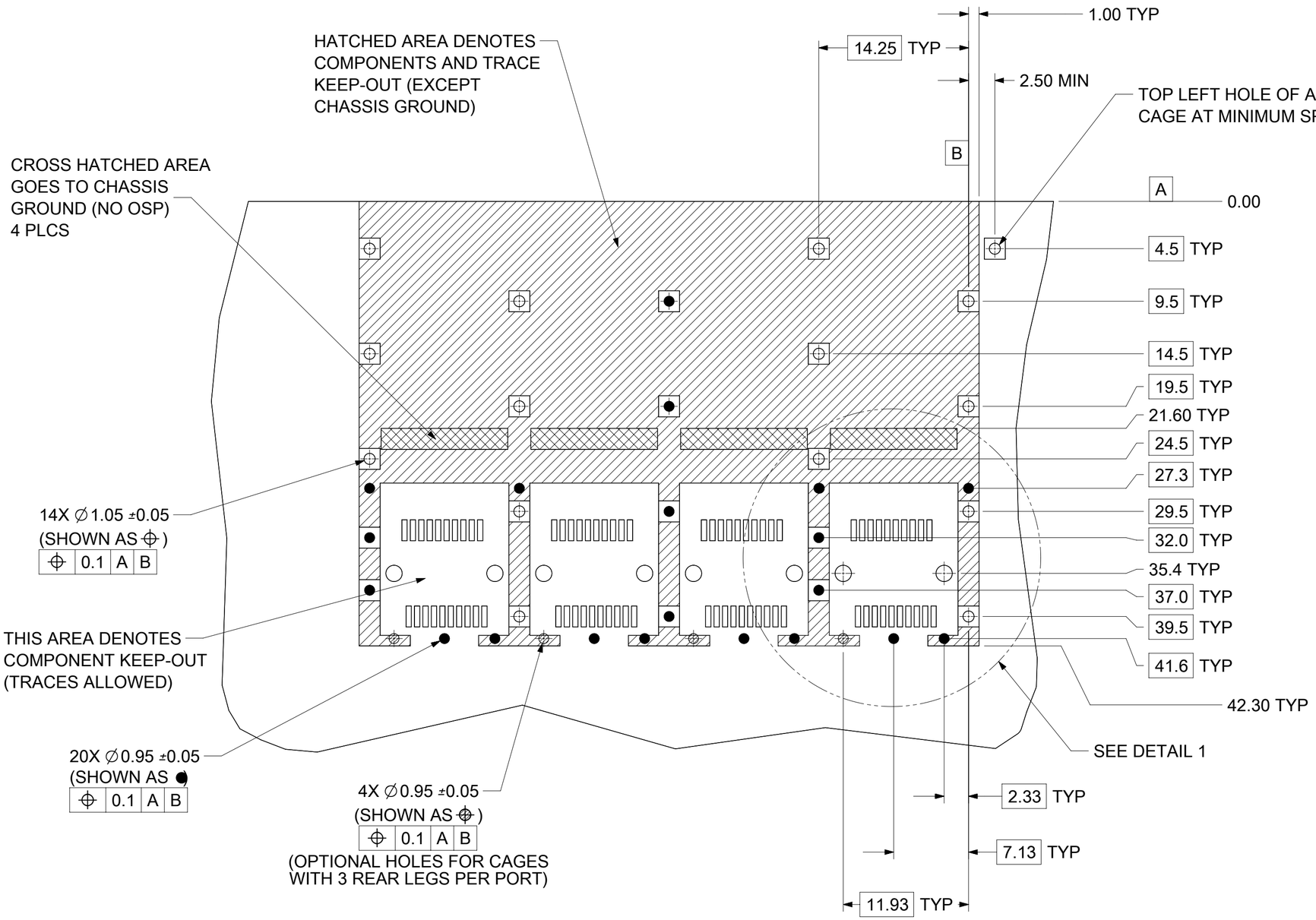
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE TABLE	GENERAL MARKET

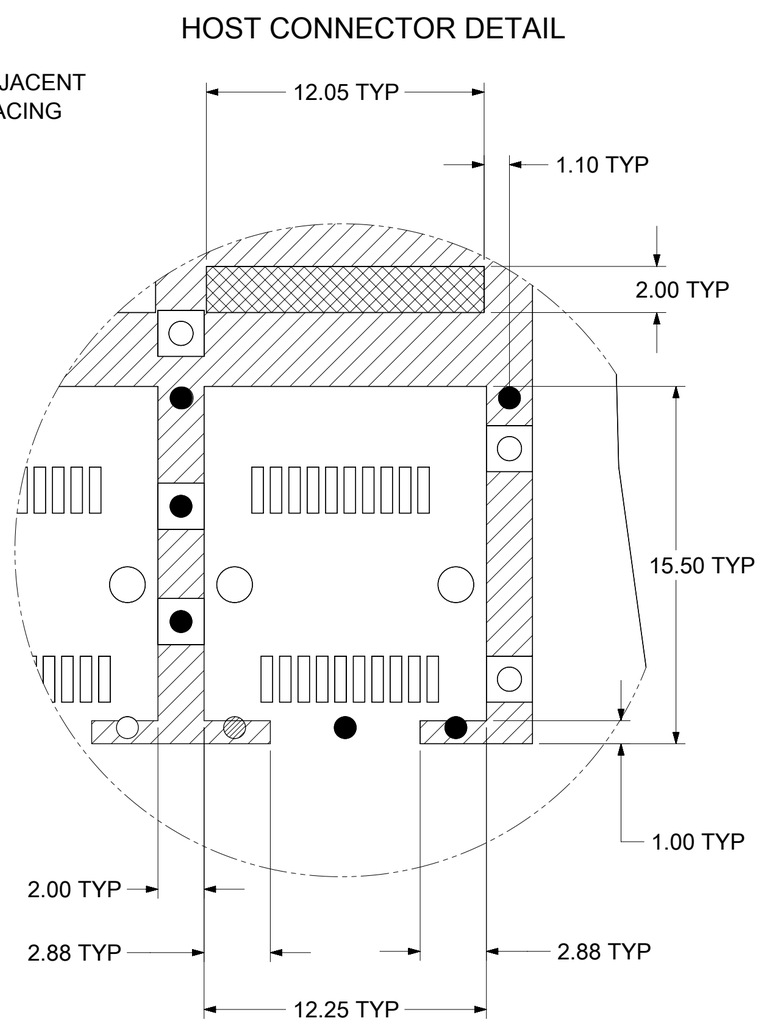
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	3 OF 8

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

PCB LAYOUT FOR SINGLE SIDE MOUNT





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 1.57mm [0.062"].

QUALITY SYMBOLS	
▽ = 0	
▽ = 0	
▽ = 0	
▼ = 0	
▽ = 0	
☒ = 0	
■ = 0	
▽ = 0	

SEE REVISION TABLE
EC NO: 107116
DRWN: VK10
CHK'D: DSUN15
APPR: RCHEN08
2016/06/02
2016/07/30
2016/08/03
REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	MM
SCALE	3:1
DRWN BY	VK10
DATE	2016/06/02
CHK'D BY	DSUN15
DATE	2016/07/30
APPR BY	RCHEN08
DATE	2016/08/03
DRAWING SIZE	C
	THIRD ANGLE PROJECTION

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

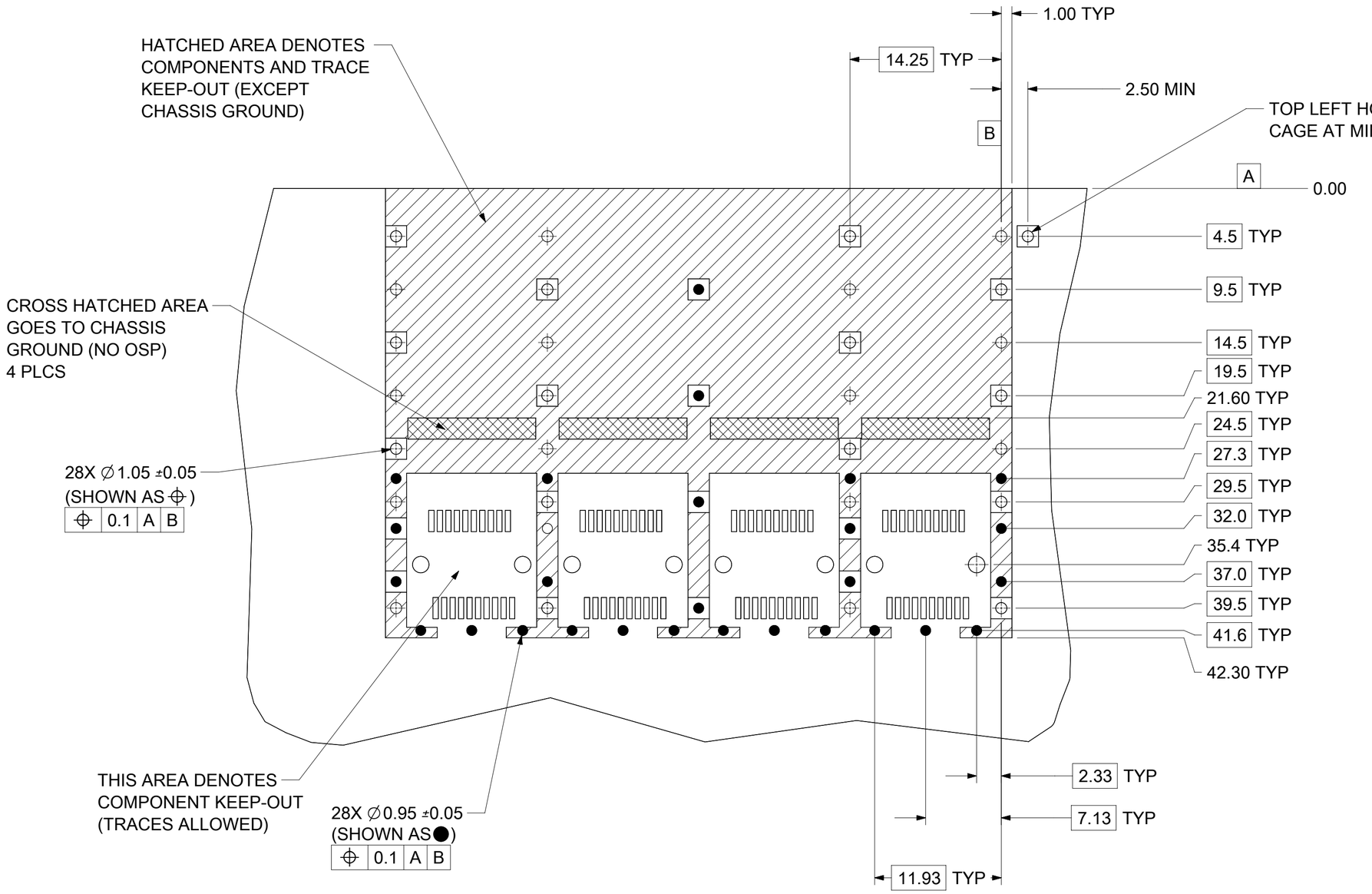
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	4 OF 8

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

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.

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

FORMAT: master-tb-prod-C
REVISION: G
DATE: 2010/12/14

QUALITY SYMBOLS: = 0

SEE REVISION TABLE
EC NO: 107116 2016/06/02
DRWN: VK10 2016/07/30
CHK'D: DSUN15 2016/08/03
APPR: RCHEN08

REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 3:1
DRWN BY: VK10 DATE: 2016/06/02
CHK'D BY: DSUN15 DATE: 2016/07/30
APPR BY: RCHEN08 DATE: 2016/08/03
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

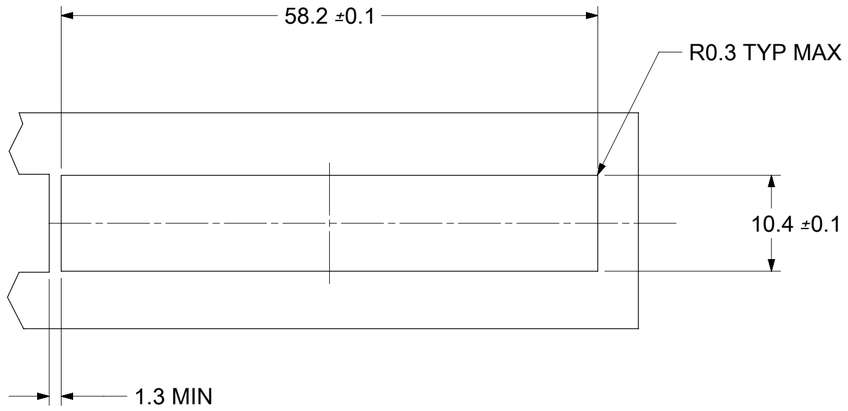
SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

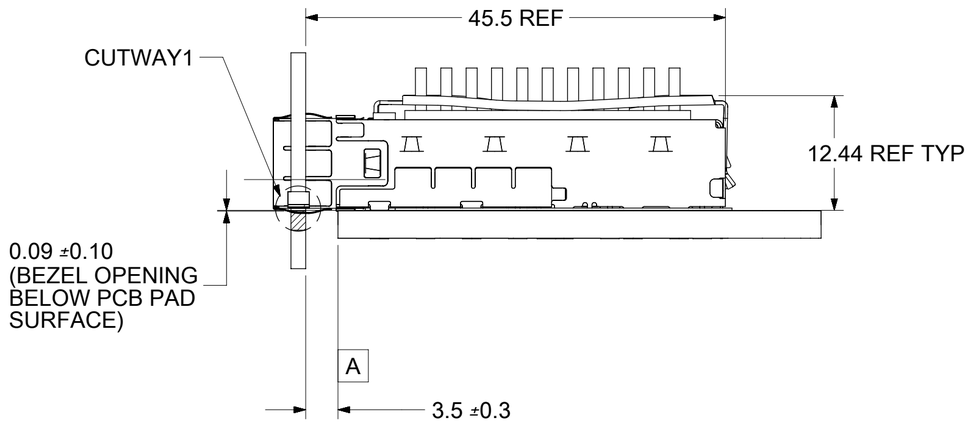
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

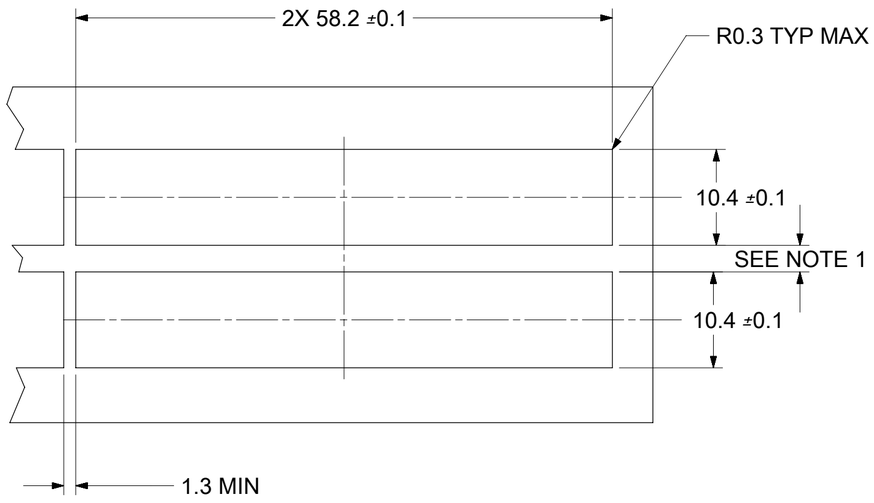
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	5 OF 8

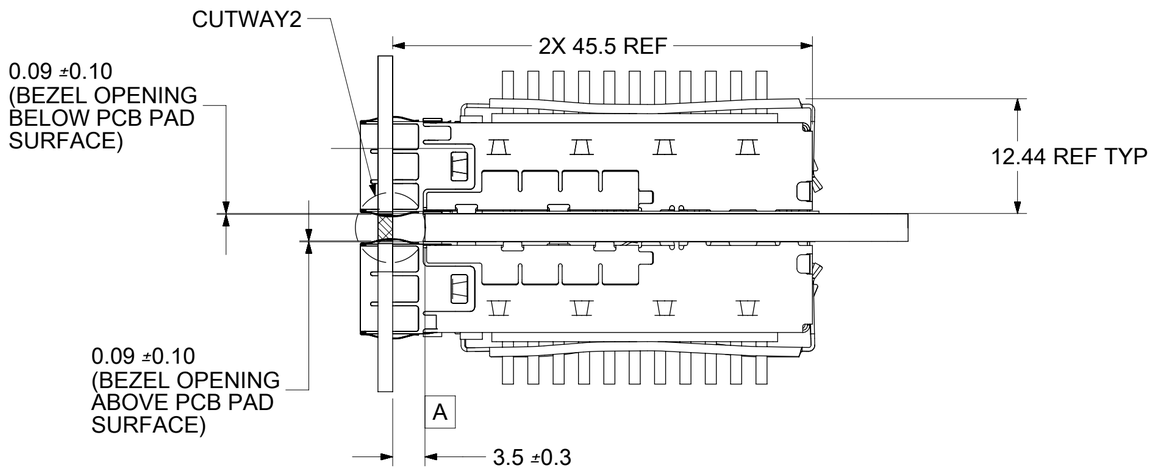
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING (SPRING FINGER)





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





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

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

QUALITY SYMBOLS	
▽ =	0
▽ =	0
▽ =	0
▼ =	0
▽ =	0
☒ =	0
■ =	0
▽ =	0

SEE REVISION TABLE
EC NO: 107116 2016/06/02
DRWN: VK10 2016/07/30
CHK'D: DSUN15 2016/08/03
APPR: RCHEN08

REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM	SCALE: 2:1		
DRWN BY: VK10	DATE: 2016/06/02		
CHK'D BY: DSUN15	DATE: 2016/07/30		
APPR BY: RCHEN08	DATE: 2016/08/03		
DRAWING SIZE: C	THIRD ANGLE PROJECTION		

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	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 POLYMIDE INSULATOR & # OF REAR LEGS PER PORT COLUMNS TO TABLES. (SHEET 2) 3. ADDED PN'S 747500420, -0422, -0423 & 1111110420 AND UPDATED TABLES, ADDING ISO VIEWS @F18 & F13. ADDED P/N NOTE FOR EACH CAGE SHOWN. (SHEET 3 4. ADDED NOTE 5, (SHEET 4 & 5). REMOVED UNNECESSARY CAGE TO PCB CONTACT PADS FROM BELLY TO BELLY LAYOUT. ADDED TYP TO ALL DIMENSIONS (SHEET 4 & 5). ADDED DIAMETER DIMENSION 0.95±0.05 X4 WITH NOTES "SHOWN AS..." (SHEET 4). FIXED BOX TO NOT INCLUDE TYP. ADDED HOLES @E17, @E15, @E13, & E11 (SHEET 4). REMOVED PAD @F13 (SHEET 5). 5. REMOVED BELLY TO BELLY VIEW AND CENTERED & INCREASED SCALE OF SINGLE SIDED VIEW. (SHEET 6) 6. REMOVED "SEE NOTE 1" FROM DIMENSION "10.4 ±0.1", @E12 & D12. ADDED "SEE NOTE 1" BEZEL OPENING PITCH, @E12. ADDED CENTER LINES TO BEZEL OPENINGS. REMOVED CUTAWAY 7 & 8 FROM SIDE VIEWS. RENAMED CUTAWAY2 TO 1 AND 4 TO 2. REMOVED "SIZE, AND" FROM NOTE 1. ADDED DIMENSION 12.44 REF TYP TO BOTH SIDE VIEWS. REMOVED DIMENSION 9.98 TYP @E4 & J4. (SHEET 7)
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: FA = 0, FC = 0, FP = 0, ▼ = 0, C = 0, ⊠ = 0, ■ = 0, C = 0

SEE REVISION TABLE
EC NO: 107116 2016/06/02
DRWN: VK10 2016/07/30
CHK'D: DSUN15 2016/08/03
APPR: RCHEN08
REV: L

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
MM	1:1

	BY	DATE
DRWN BY	VK10	2016/06/02
CHK'D BY	DSUN15	2016/07/30
APPR BY	RCHEN08	2016/08/03

DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	7 OF 8

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

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 ∅1.05+/-0.05 X14 TO ∅14X 1.05+/-0.05 7. SHEET 6: D19 : CHANGED ∅0.95+/-0.05 X20 TO ∅20X 0.95+/-0.05 8. SHEET 6: D14 : CHANGED ∅0.95+/-0.05 X4 TO ∅4X 0.95+/-0.05 9 SHEET 7: G18 : CHANGED ∅1.05+/-0.05 X28 TO ∅28X 1.05+/-0.05 10.SHEET 7: C16 : CHANGED ∅0.95+/-0.05 X28 TO ∅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
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

QUALITY SYMBOLS

A = 0
E = 0
F = 0
▼ = 0
C = 0
☒ = 0
■ = 0
▽ = 0

SEE REVISION TABLE
EC NO: 107116
DRWN: VK10
CHK'D: DSUN15
APPR: RCHEN08

2016/06/02
2016/07/30
2016/08/03

REV L

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.15
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 1:1
DRWN BY: VK10 DATE: 2016/06/02
CHK'D BY: DSUN15 DATE: 2016/07/30
APPR BY: RCHEN08 DATE: 2016/08/03
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X4 SF CAGE 3.05 MM
PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122420	PSD	ASY	8 OF 8

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:02:00

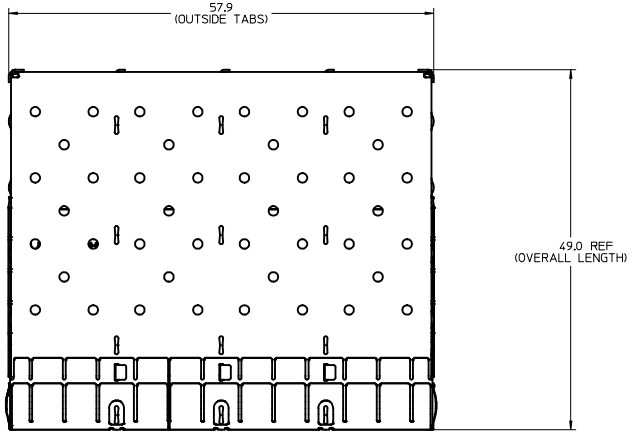
FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

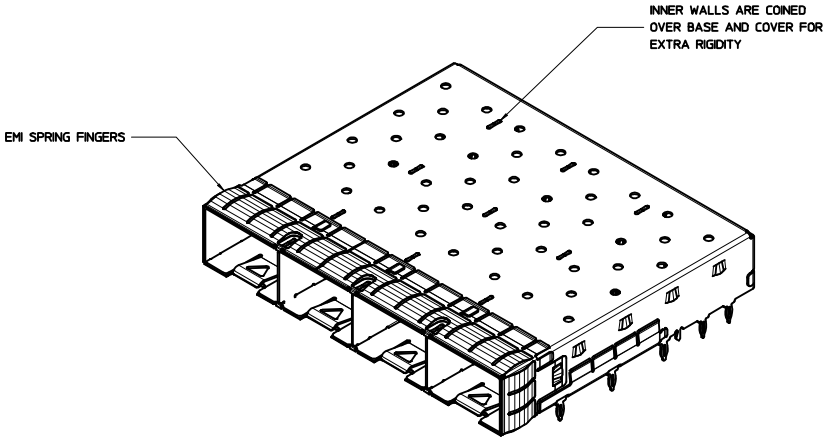
3D MODEL: TM-111112-2420

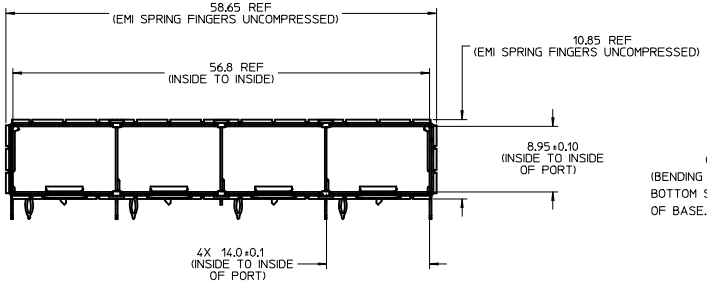
BASE CAGE DETAILS

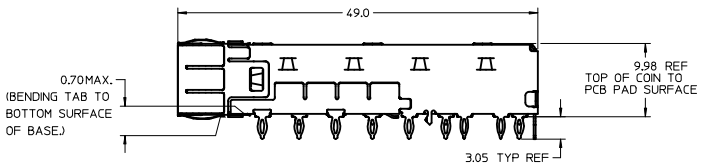
(APPLIES TO ALL CAGES IN THIS DRAWING)

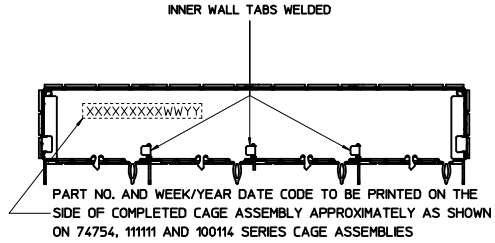
747540420
SHOWN











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:
1. 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.
2. PRESS FIT LEGS 3.05mm [.120 INCH] LONG:
3. 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.
4. WELD SPOT MAY SHOW SLIGHT MATERIAL DISCOLORATION.
5. NO ROHS EXEMPTIONS.
6. CUSTOM HEATSINKS AVAILABLE UPON REQUEST.

SEE REVISION TABLE			
EC NO: CPG2016-2974	DRWN:ACHEN03	CHKD:	APPR:RCHEN08
2016/02/02	2016/02/04		
DESCRIPTION			
REV			
J			

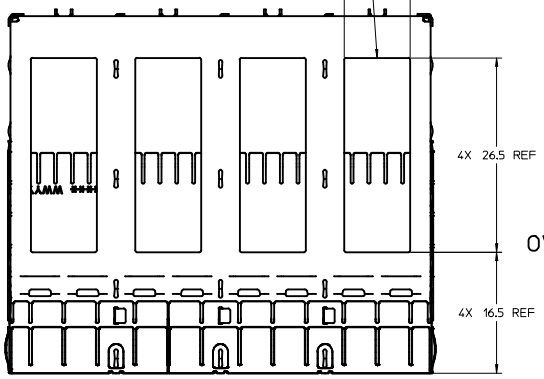
QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
▽=0	4 PLACES	± ---	± ---
▽=0	3 PLACES	± ---	± ---
▽=0	2 PLACES	± 0.15	± ---
	1 PLACE	± 0.25	± ---
	0 PLACE	±	±
	ANGULAR ± 1 °		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	MM ONLY	
SCALE	3:1	
DESIGN UNITS	METRIC	
	THIRD ANGLE PROJECTION	
DRAWN BY	RMIKLINSKI	DATE 2011/06/20
CHECKED BY	MMCKERVEY	DATE 2011/08/26
APPROVED BY	KLLOYD	DATE 2012/08/14
MATERIAL NO.	SEE SHEET 4	
TITLE	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS	
DOCUMENT NO.	SD-111112-2420	SHEET NO. 1 OF 10
SIZE	D	

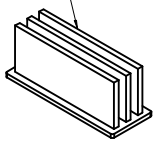
molex

CAGE ASSEMBLY OPTIONS

OPEN TOP
1111120420
SHOWN
(APPLIES TO ALL OPEN TOP CAGES)



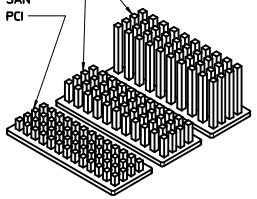
HEATSINK OPTIONS
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

HEATSINK OPTIONS
PIN FIELD NETWORKING
PIN FIELD SAN
PIN FIELD PCI

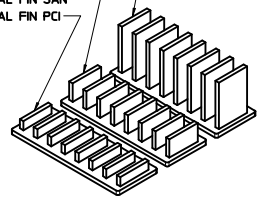


OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

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

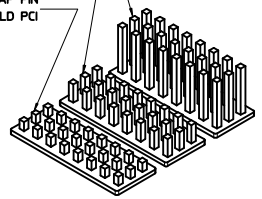
HEATSINK OPTIONS
LATERAL FIN NETWORKING
LATERAL FIN SAN
LATERAL FIN PCI



OVERALL HEATSINK HEIGHT

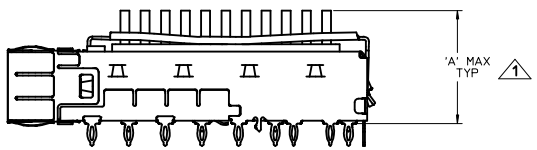
APPLICATION	DIM 'A'
PCI	14.3
SAN	16.6
NETWORKING	23.6

HEATSINK OPTIONS
WIDE GAP PIN
FIELD NETWORKING
WIDE GAP PIN
FIELD SAN
WIDE GAP PIN
FIELD PCI

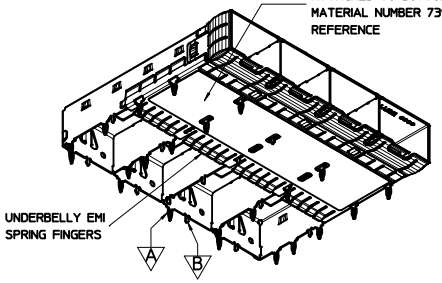


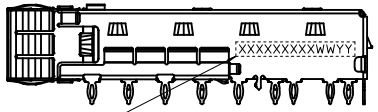
OVERALL HEATSINK HEIGHT

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.



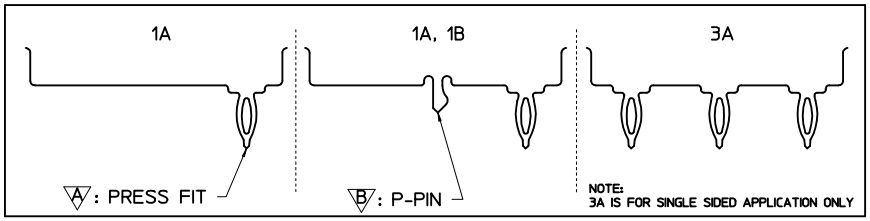


PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN FOR 111112 SERIES CAGE ASSEMBLIES.

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 2016/02/02
DRWN:ACHEN603 2016/02/04
CHKD:
APPR:RCHEN08
DESCRIPTION
REV
J

QUALITY SYMBOLS
A =0
B =0
C =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
0 PLACE	±	±

ANGULAR ± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

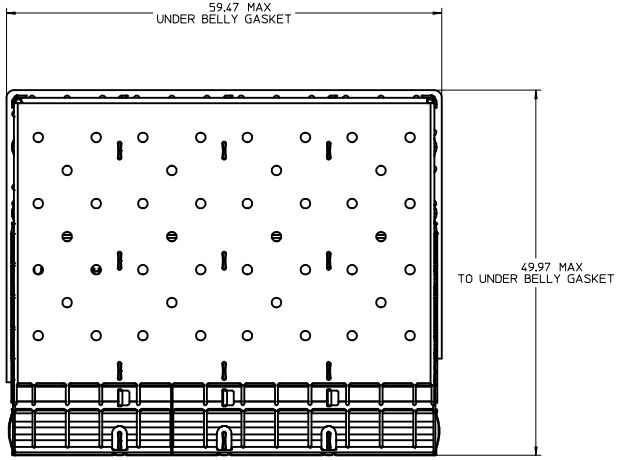
DIMENSION STYLE: MM ONLY
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

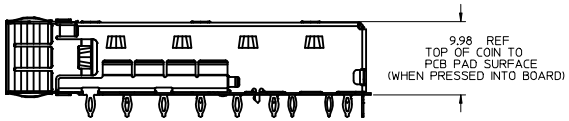
DRAWN BY: RMIKLINSKI DATE: 2011/06/20
CHECKED BY: MMCKERVEY DATE: 2011/08/26
APPROVED BY: KLLOYD DATE: 2012/08/14
MATERIAL NO.: SEE SHEET 4

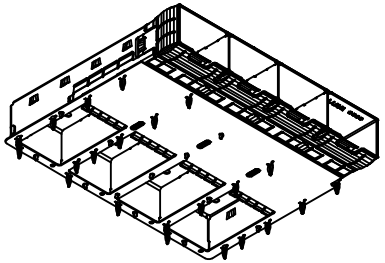
TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS
molex
DOCUMENT NO.: SD-111112-2420
SHEET NO.: 2 OF 10
SIZE: D

OPTIONAL GEN 2 UNDER BELLY GASKET

1001140420
SHOWN





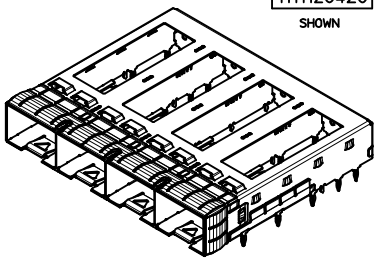


NOTES:
1. OPTIONAL UNDER BELLY GASKET ATTACHED TO BOTTOM OF CAGE (SEE P/N TABLES FOR AVAILABLE ASSEMBLIES).
2. GEN 2 UNDER BELLY GASKET IS UL94 V-0 RATED.

SEE REVISION TABLE	
EC NO: CPG2016-2974	2016/02/02
DRWN:KACHENG03	2016/02/04
CHKD:	
APPR:RCHEN08	
DESCRIPTION	
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 ± / ±; ANGULAR ± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
DIMENSION STYLE	MM ONLY
SCALE	3:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	RMIKLINSKI 2011/06/20
CHECKED BY / DATE	MMCKERVEY 2011/08/26
APPROVED BY / DATE	KLLOYD 2012/08/14
MATERIAL NO.	SEE SHEET 4
TITLE	SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS
	molex
DOCUMENT NO.	SD-111112-2420
SHEET NO.	3 OF 10
SIZE	D

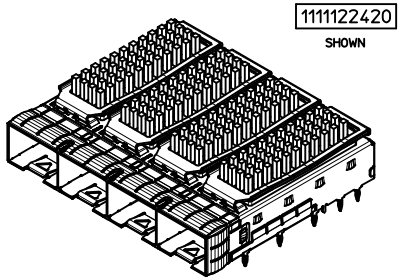
PART NUMBER SELECTION

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

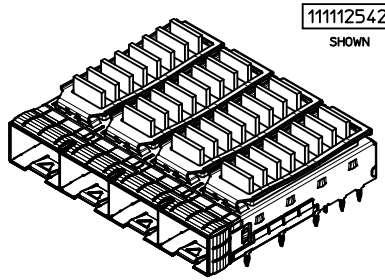
1111122420
SHOWN



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

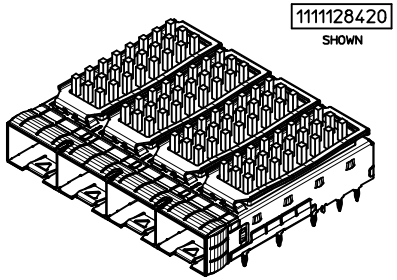
1111125420
SHOWN



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

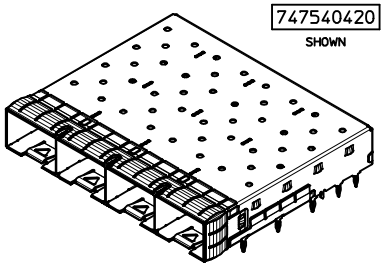
NOTE: (*) FOR LOW COST

1111128420
SHOWN



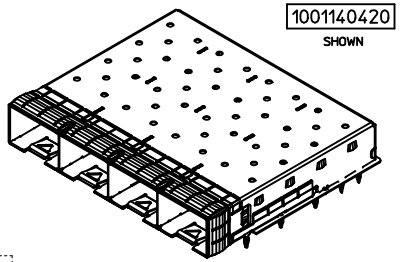
SFP+ WIDE GAP PIN FIELD HEATSINK OPTION			
PART NO.	POLYIMIDE INSULATOR	HEATSINK	# OF REAR LEGS PER PORT
1111127420	---	PCI	1A, 1B
1111127460	YES	PCI	1A, 1B
1111128420	---	SAN	1A, 1B
1111128460	YES	SAN	1A, 1B
1111129420	---	NET	1A, 1B
1111129460	YES	NET	1A, 1B

747540420
SHOWN



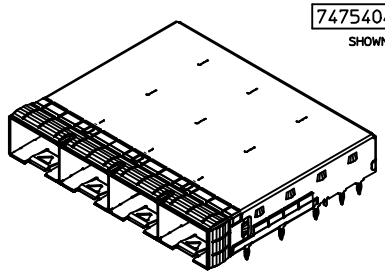
SFP+ CLOSED TOP BASE CAGE				
PART NO.	POLYIMIDE INSULATOR	WELD POINT QUANTITY	# OF REAR LEGS PER PORT	PLATING
747540420	---	6	1A, 1B	-----
747540422	---	6	3A	-----
747540423	---	19	1A, 1B	-----
747540427	YES	6 (15mm MAX PITCH BETWEEN ANY 2 WELD POINTS)	1A, 1B	-----
747540464	---	6	1A, 1B	OVER ALL: MAT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

1001140420
SHOWN



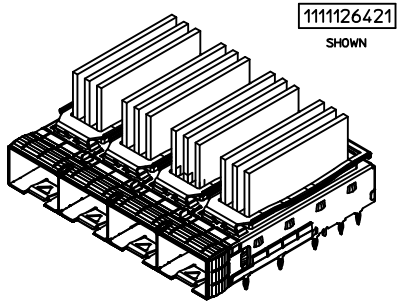
zSFP+ CLOSED TOP BASE CAGE W/ GEN 2 BELLY GASKET	
PART NO.	# OF REAR LEGS PER PORT
1001140420	1A, 1B

747540426
SHOWN



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

1111126421
SHOWN



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

SEE REVISION TABLE
EC NO: CPG2016-2974 2016/02/02
DRWN:ACHEN03 2016/02/04
CHKD:
APPR:RCHEN08
DESCRIPTION
REV
J

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	±	±
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

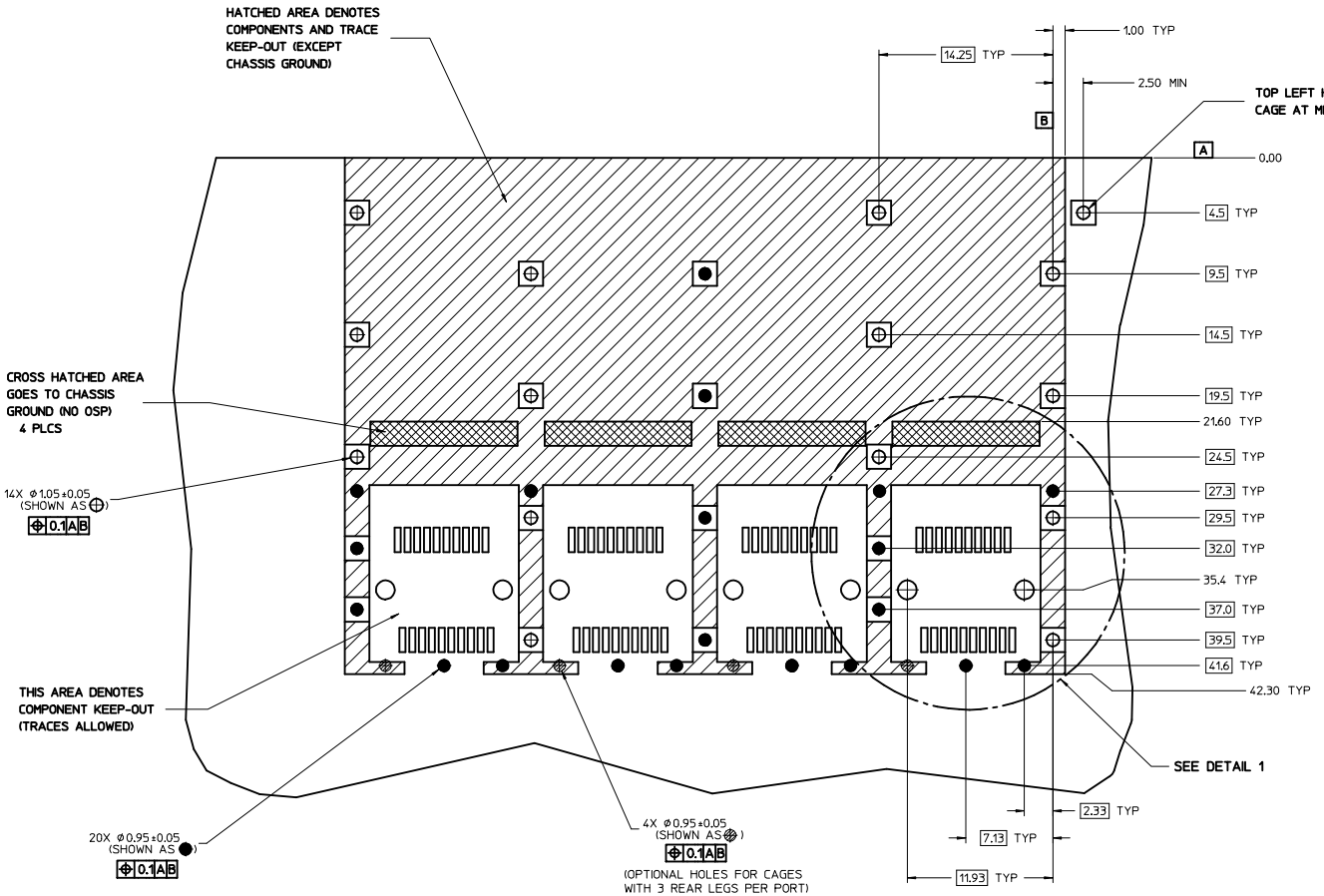
DRAWN BY: RMIKLINSKI DATE: 2011/06/20
CHECKED BY: MMCKERVEY DATE: 2011/08/26
APPROVED BY: KLLOYD DATE: 2012/08/14
MATERIAL NO.: SEE TABLE

TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

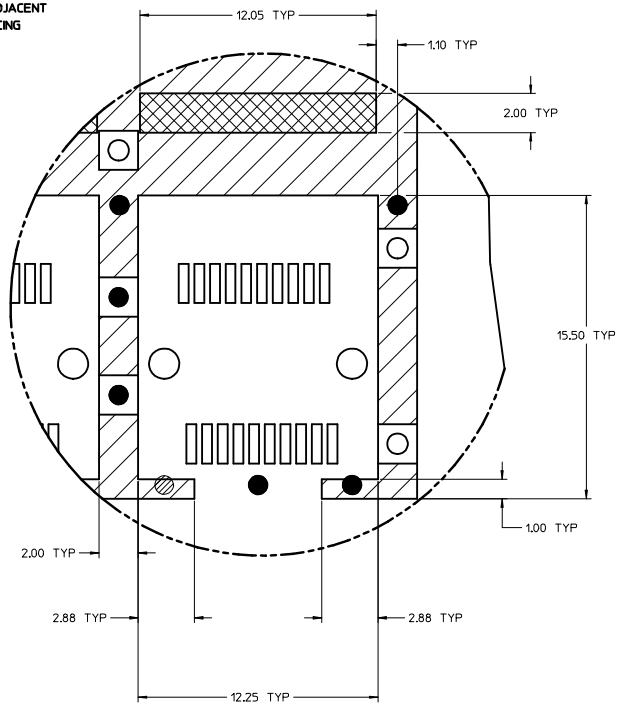
molex

DOCUMENT NO.: SD-111112-2420
SHEET NO.: 4 OF 10
SIZE: D

PCB LAYOUT FOR SINGLE SIDE MOUNT



HOST CONNECTOR DETAIL



DETAIL 1
SCALE 8:1

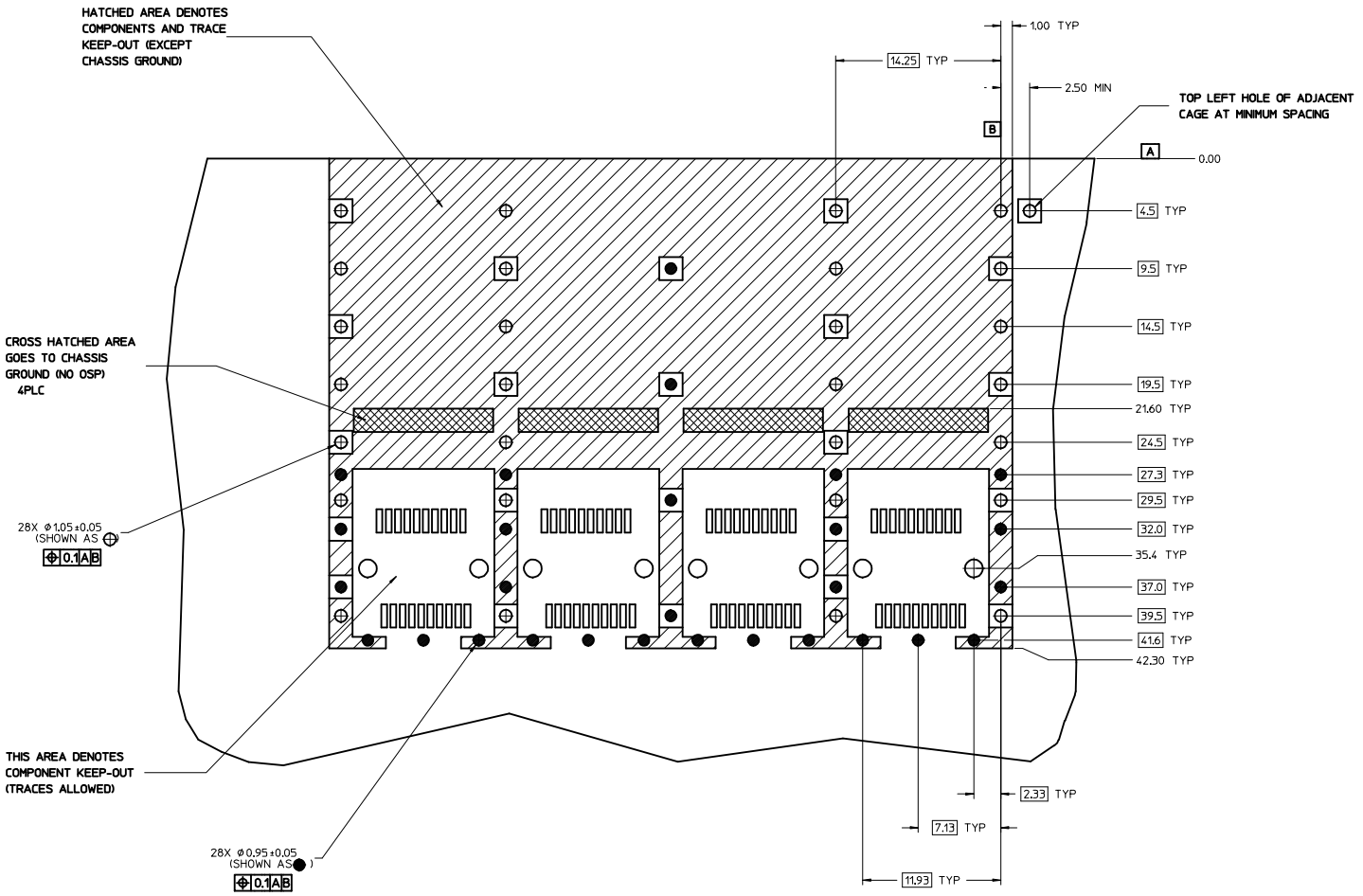
NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED PADS TO BE 2.00mm SQUARE)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
5. MINIMUM PCB THICKNESS FOR SINGLE SIDED USE 1.57mm [0.062"].

SEE REVISION TABLE			
EC NO: CPG2016-2974	DRWN:ACHEN603	CHKD:	APPR:RCHEN08
2016/02/02	2016/02/04		
DESCRIPTION			
REV	J		

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
=0	4 PLACES	± ---	± ---
=0	3 PLACES	± ---	± ---
=0	2 PLACES	± 0.15	± ---
	1 PLACE	± 0.25	± ---
=0	0 PLACE	±	±
	ANGULAR ± 1 °		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE: MM ONLY	SCALE: 5:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: RMIKLINSKI 2011/06/20	TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS		
CHECKED BY: MMCKERVEY 2011/08/26			
APPROVED BY: KLLOYD 2012/08/14	molex		
MATERIAL NO.: SEE SHEET 4	DOCUMENT NO.: SD-111112-2420	SHEET NO.: 5 OF 10	
SIZE: D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

PCB LAYOUT FOR BELLY TO BELLY MOUNTING



NOTE:
SEE SHEET 5 FOR HOST CONNECTOR DETAIL

NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMENDED PADS TO BE 2.00mm SQUARE)
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT
4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25mm
5. MINIMUM PCB THICKNESS FOR BELLY TO BELLY USE 3.00mm [0.118"].

SEE REVISION TABLE			
EC NO: CPG2016-2974	DRWN:KACHENG03	CHKD:	APPR:RCHEN08
2016/02/02	2016/02/04		
DESCRIPTION			
REV			
J			

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
▽=0	4 PLACES	± ---	± ---
▽=0	3 PLACES	± ---	± ---
▽=0	2 PLACES	± 0.15	± ---
	1 PLACE	± 0.25	± ---
▽=0	0 PLACE	±	±
	ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	
MM ONLY	5:1	METRIC	THIRD ANGLE PROJECTION

DRAWN BY	RMIKLINSKI	2011/06/20
CHECKED BY	MMCKERVEY	2011/08/26
APPROVED BY	KLLOYD	2012/08/14
MATERIAL NO.	SEE SHEET 4	

TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

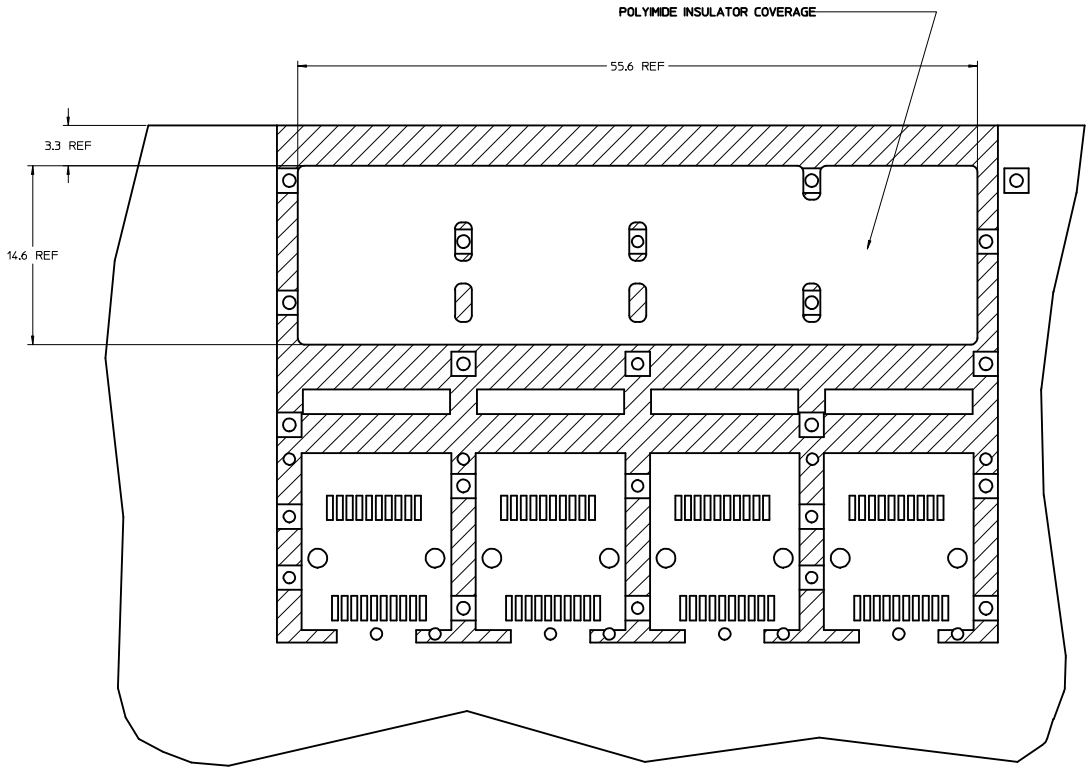
molex

DOCUMENT NO.: SD-111112-2420

SHEET NO.: 6 OF 10

SIZE: D

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



SEE REVISION TABLE
EC NO: CPG2016-2974 2016/02/02
DRWN:ACHENG03 2016/02/04
CHKD:
APPR:RCHEN08
DESCRIPTION
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	±	±

ANGULAR ± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: RMIKLINSKI DATE: 2011/06/20
CHECKED BY: MMCKERVEY DATE: 2011/08/26
APPROVED BY: KLLOYD DATE: 2012/08/14
MATERIAL NO.: SEE SHEET 4

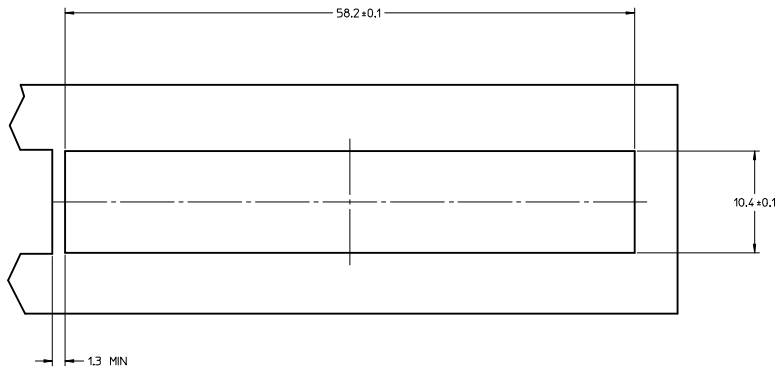
TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

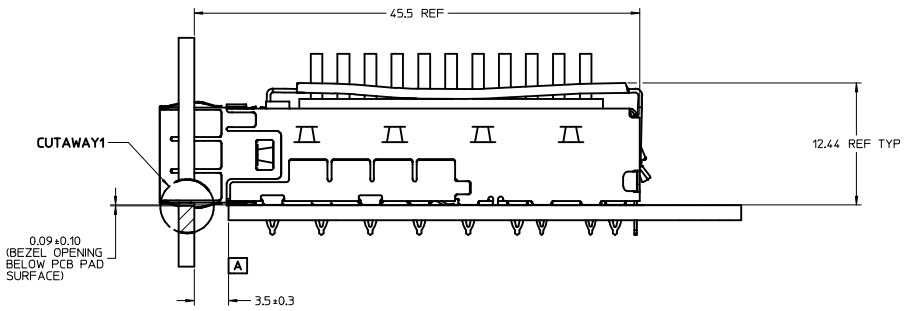
molex

DOCUMENT NO.: SD-111112-2420
SHEET NO.: 7 OF 10

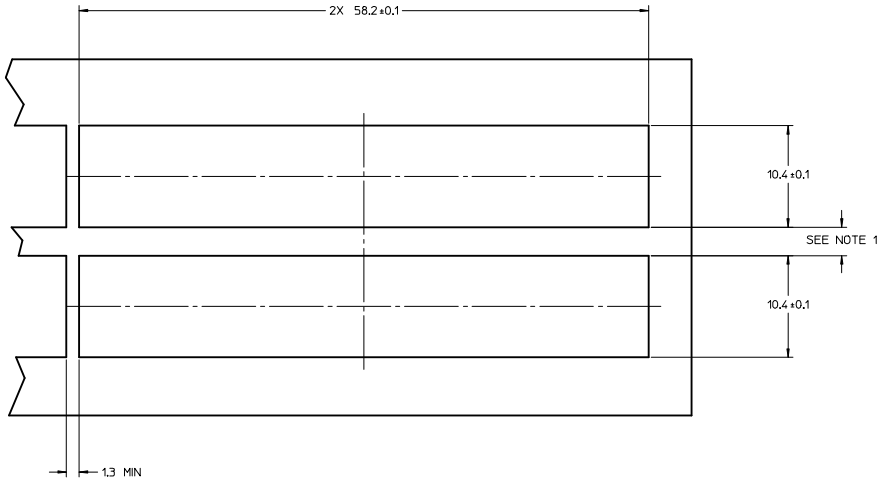
SIZE: D

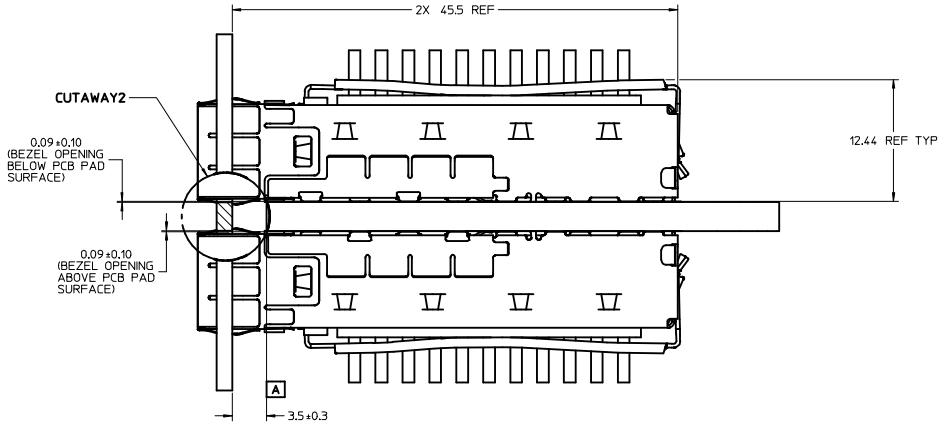
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING (SPRING FINGER)





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.

SEE REVISION TABLE			
EC NO: CPG2016-2974	DRWN:ACHEN03	CHKD:	APPR:RCHEN08
2016/02/02	2016/02/04		
REV	DESCRIPTION		
J			

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
▽=0	4 PLACES	± ---	± ---
▽=0	3 PLACES	± ---	± ---
▽=0	2 PLACES	± 0.15	± ---
▽=0	1 PLACE	± 0.25	± ---
▽=0	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 2011/06/20
CHECKED BY	MMCKERVEY 2011/08/26
APPROVED BY	KLLOYD 2012/08/14
MATERIAL NO.	SEE SHEET 4
SIZE	D

TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

molex

DOCUMENT NO. SD-111112-2420

SHEET NO. 8 OF 10

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	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 POLYMIDE INSULATOR & # OF REAR LEGS PER PORT COLUMNS TO TABLES. (SHEET 2) 3. ADDED PN'S 747500420, -0422, -0423 & 1111110420 AND UPDATED TABLES, ADDING ISO VIEWS @F18 & F13. ADDED P/N NOTE FOR EACH CAGE SHOWN. (SHEET 3) 4. ADDED NOTE 5, (SHEET 4 & 5). REMOVED UNNECESSARY CAGE TO PCB CONTACT PADS FROM BELLY TO BELLY LAYOUT. ADDED TYP TO ALL DIMENSIONS (SHEET 4 & 5). ADDED DIAMETER DIMENSION 0.95±0.05 X4 WITH NOTES "SHOWN AS..." (SHEET 4). FIXED BOX TO NOT INCLUDE TYP. ADDED HOLES @E17, @E15, @E13, & E11 (SHEET 4). REMOVED PAD @F13 (SHEET 5). 5. REMOVED BELLY TO BELLY VIEW AND CENTERED & INCREASED SCALE OF SINGLE SIDED VIEW. (SHEET 6) 6. REMOVED "SEE NOTE 1" FROM DIMENSION "10.4 ±0.1", @E12 & D12. ADDED "SEE NOTE 1" BEZEL OPENING PITCH, @E12. ADDED CENTER LINES TO BEZEL OPENINGS. REMOVED CUTAWAY 7 & 8 FROM SIDE VIEWS. RENAMED CUTAWAY2 TO 1 AND 4 TO 2. REMOVED "SIZE, AND" FROM NOTE 1. ADDED DIMENSION 12.44 REF TYP TO BOTH SIDE VIEWS. REMOVED DIMENSION 9.98 TYP @E4 & J4. (SHEET 7)
2013/09/06	F	ADDED PN'S 747540426. (SHEET 3)
2013/10/14	G	1. CHANGED THE WORD "WILL" TO "MAY" ON NOTE 4. MOVED DATE CODE FROM SIDE OF CAGE TO BACK OF CAGE, ADDED NOTE AT E5 TO LIST THE SERIES NUMBERS THAT WILL HAVE THE DATE CODE INTHIS LOCATION. ADDED 0.70 MAX(BENDING TAB TO BOTTOM SURFACE OF BASE) AT E13. (SHEET 1) 2. REMOVED zSFP+ CAGE VIEW FROM SHEET AT E5, ADDED SIDE VIEW OF CAGE TO SHOW WHERE THE DATE CODE WILL BE ON ALL 111112 SERIES CAGES. (SHEET 2) 3. ADDED NEW SHEET 3 WITH GEN 1 AND GEN 2 zSFP+ OPTIONS. THE PREVIOUS SHEETS FROM SHEET 3 TO SHEET 8 ALL INCREASE BY 1 NUMBER. 4. ADDED P/N 747540427 TO TABLE AT D20 AND ADDED ISO VIEW AND TABLE FOR 1001140420 AT E3 ON SHEET 4.

SEE REVISION TABLE
EC NO: CPG2016-2974 2016/02/02
DRWN:ACHEN603 2016/02/04
CHKD:
APPR:RCHEN08
DESCRIPTION
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	±	±

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: RMIKLINSKI DATE: 2011/06/20
CHECKED BY: MMCKERVEY DATE: 2011/08/26
APPROVED BY: KLLOYD DATE: 2012/08/14
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2420
SHEET NO.: 9 OF 10
SIZE: D

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 ø1.05+/-0.05 X14 TO ø 14X 1.05+/-0.05 7. SHEET 6: D19 : CHANGED ø0.95+/-0.05 X20 TO ø 20X 0.95+/-0.05 8. SHEET 6: D14 : CHANGED ø0.95+/-0.05 X4 TO ø 4X 0.95+/-0.05 9 SHEET 7: G18 : CHANGED ø1.05+/-0.05 X28 TO ø 28X 1.05+/-0.05 10.SHEET 7: C16 : CHANGED ø0.95+/-0.05 X28 TO ø 28X 0.95+/-0.05 11.SHEET 9: ADDED NOTE 2 MODIFIED PCB LAYOUT PER SFF-8433 12.SHEET 6: G20 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C19 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C14 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 13.SHEET 7 :F18 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1 C16 : CHANGED TURE POSITION OF PCB HOLES FORM 0.05 TO 0.1
2016/02/02	J	1. SHEET 3 & 4: REMOVE 1111110420

SEE REVISION TABLE
EC NO: CPG2016-2974 2016/02/02
DRWN:ACHEN603 2016/02/04
CHKD:
APPR:RCHEN08
DESCRIPTION
REV
J

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	±	±

ANGULAR ± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: RMIKLINSKI DATE: 2011/06/20
CHECKED BY: MMCKERVEY DATE: 2011/08/26
APPROVED BY: KLLOYD DATE: 2012/08/14
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X4 CAGE, .120 INCH PRESS FIT, HEAT SINKS, WITH EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2420
SHEET NO.: 10 OF 10
SIZE: D