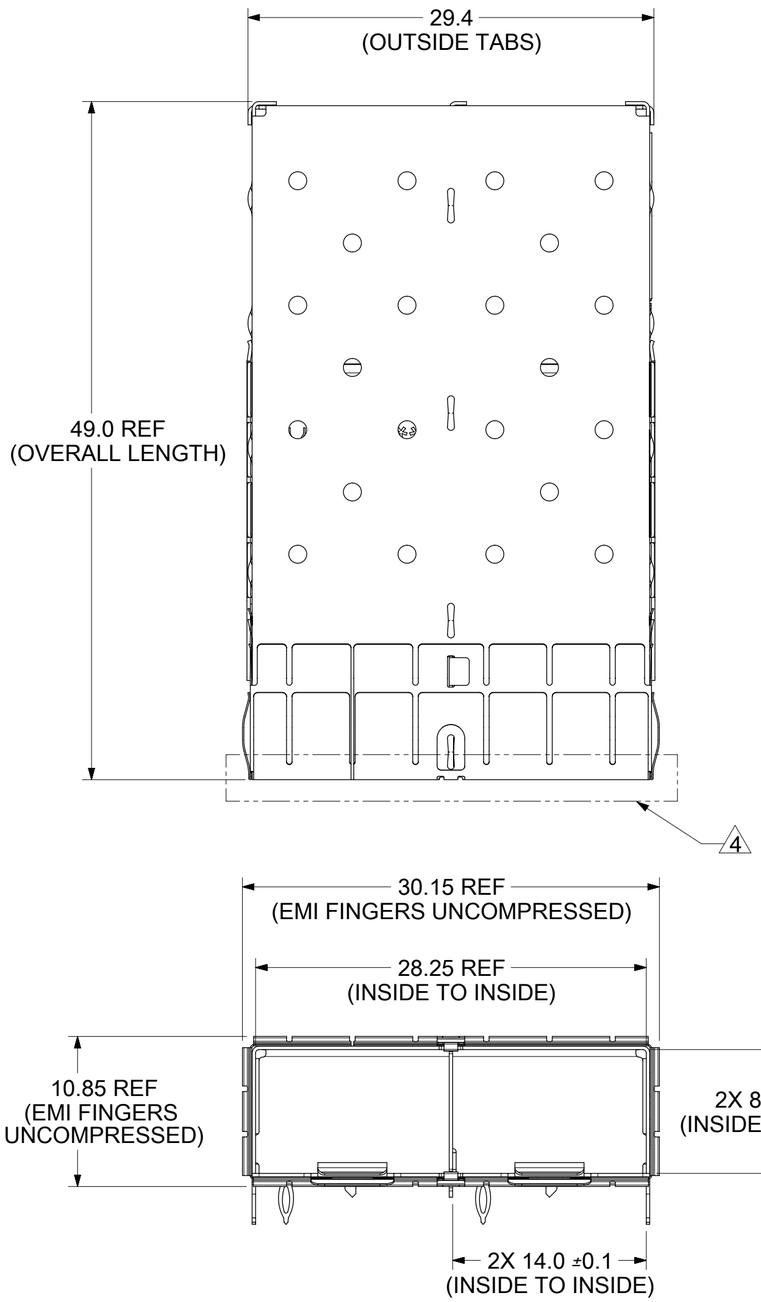
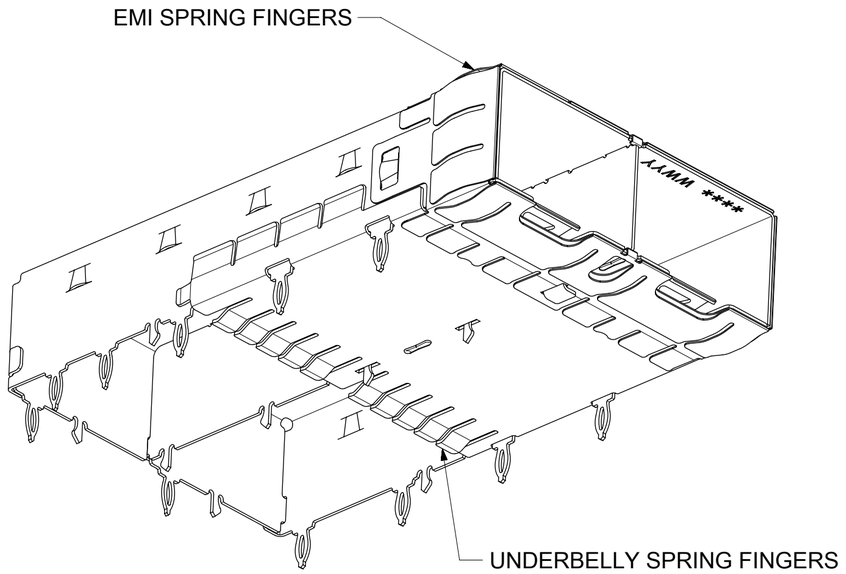
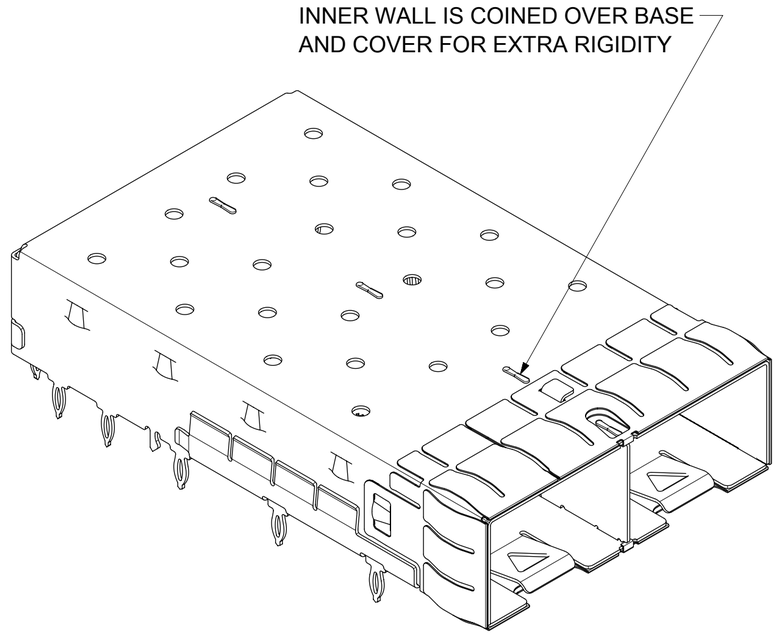
3D MODEL : 1111122220 PSM ASY

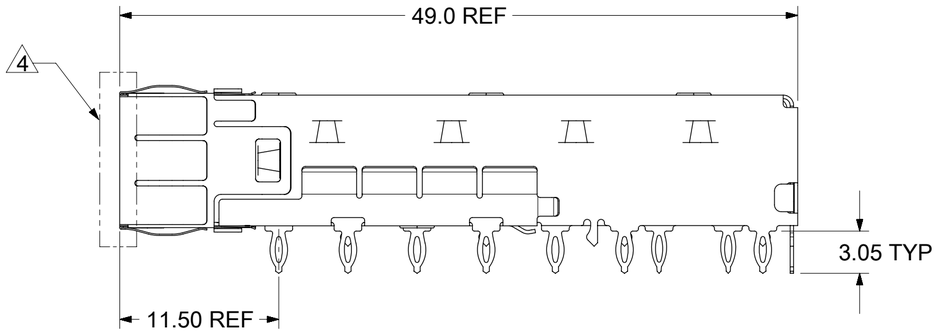
BASE CAGE DETAILS

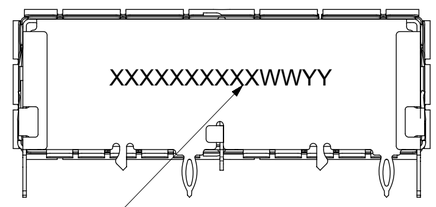
747540220











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

WEEK/YEAR DATE CODE TABLE	
WW	WEEK OF THE YEAR 01 THRU 52 (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.

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

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: 111626
DRWN: SJKG
CHK'D: DSUN15
APPR: RCHEN08
2016/12/15
2016/12/21
2016/12/21
J2
REV

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 3:1
DRWN BY: MKEMPEGOWDA DATE: 2016/04/13
CHK'D BY: DSUN15 DATE: 2016/07/31
APPR BY: RCHEN08 DATE: 2016/08/04
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

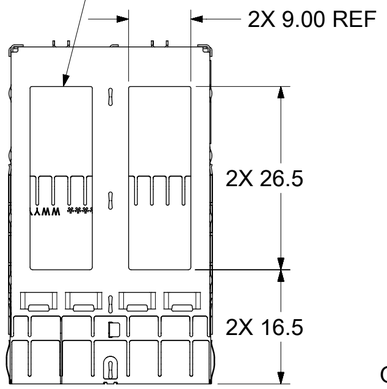
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

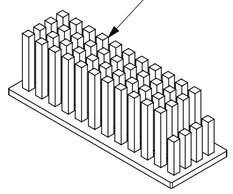
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	1 OF 7

CAGE ASSEMBLY OPTIONS

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



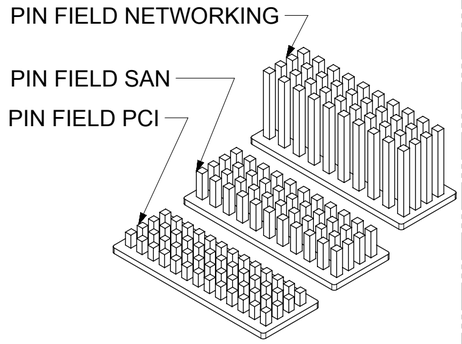
HEATSINK OPTIONS
(2 PLC)
CUSTOM



OVERALL HEATSINK HEIGHT

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

HEATSINK OPTIONS
(2 PLC)

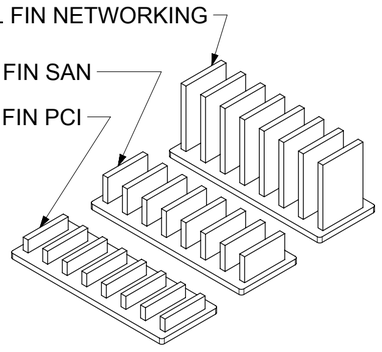


OVERALL HEATSINK HEIGHT

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

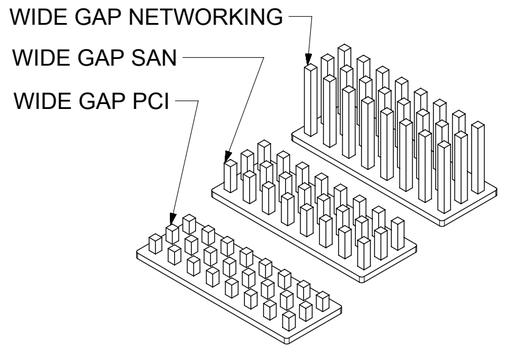
HEATSINK OPTIONS
(2 PLC)



OVERALL HEATSINK HEIGHT

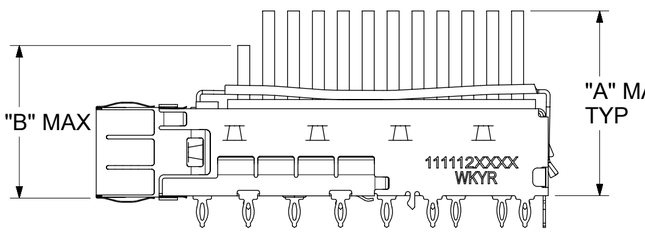
APPLICATION	STYLE	DIM 'A'
PCI	LATERAL FIELD	14.3
SAN	LATERAL FIELD	16.6
NETWORKING	LATERAL FIELD	23.6

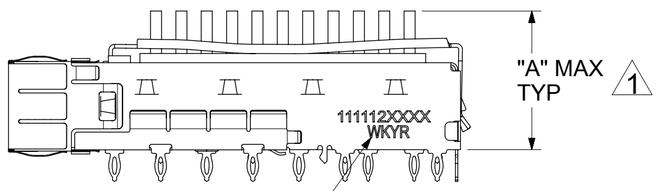
HEATSINK OPTIONS
(2 PLC)



OVERALL HEATSINK HEIGHT

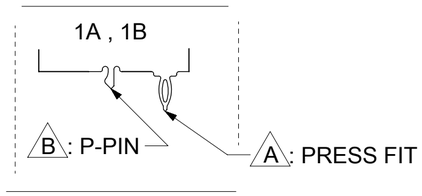
APPLICATION	STYLE	DIM 'A'
PCI	WIDE GAP PIN	14.3
SAN	WIDE GAP PIN	16.6
NETWORKING	WIDE GAP PIN	23.6



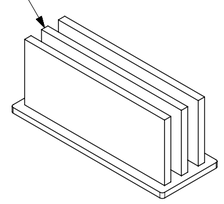


PN/DATE CODE TO BE PRINTED ON THE SIDE OF
COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
FOR 111112 SERIES CAGES

REAR LEG OPTIONS
(PER PORT)



HEATSINK OPTIONS
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

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

QUALITY SYMBOLS
A = 0
E = 0
B = 0
▼ = 0
C = 0
☒ = 0
■ = 0
D = 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 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08 2016/12/21
REV J2

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 1.5:1
DRWN BY: MKEMPEGOWDA DATE: 2016/04/13
CHK'D BY: DSUN15 DATE: 2016/07/31
APPR BY: RCHEN08 DATE: 2016/08/04
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

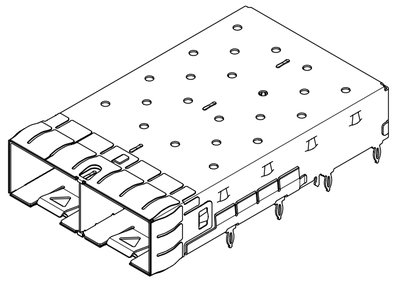
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	2 OF 7

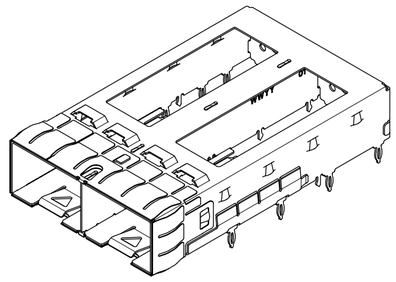
RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

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

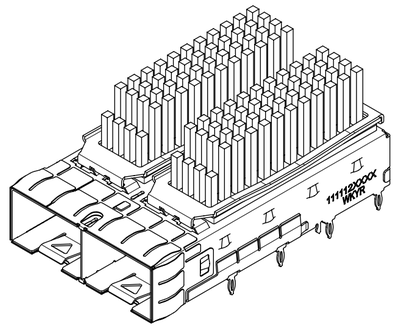
PART NUMBER SELECTION



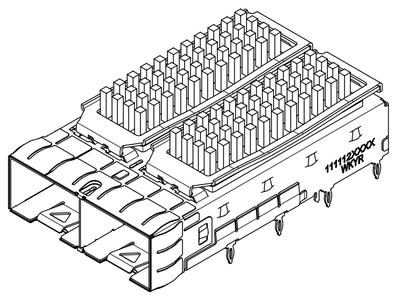
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



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

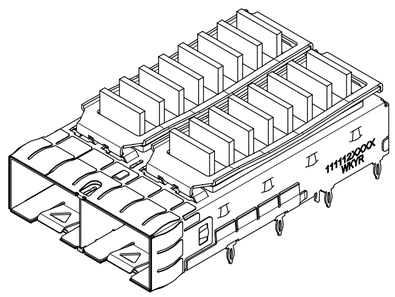


SFP+ CUSTOM HEATSINK OPTION	
PART NO.	1111120226

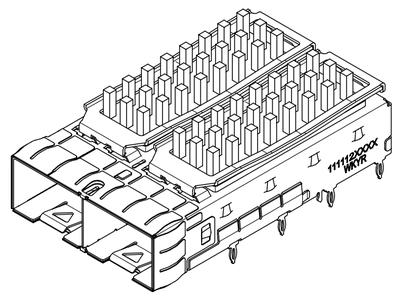


SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

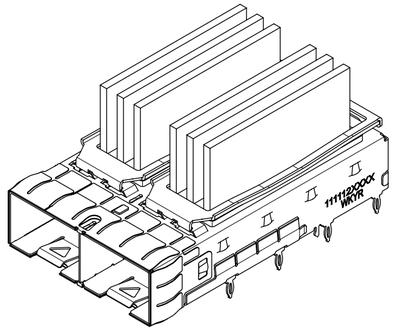
NOTE: PCI - 13 ROWS
SAN - 11 ROWS
NETWORKING - 10 ROWS



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.	1111126221

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

SEE REVISION TABLE
EC NO: 111626 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08

J2 REV

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °

4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS: MM
SCALE: 1.25:1
DRWN BY: MKEMPEGOWDA DATE: 2016/04/13
CHK'D BY: DSUN15 DATE: 2016/07/31
APPR BY: RCHEN08 DATE: 2016/08/04
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

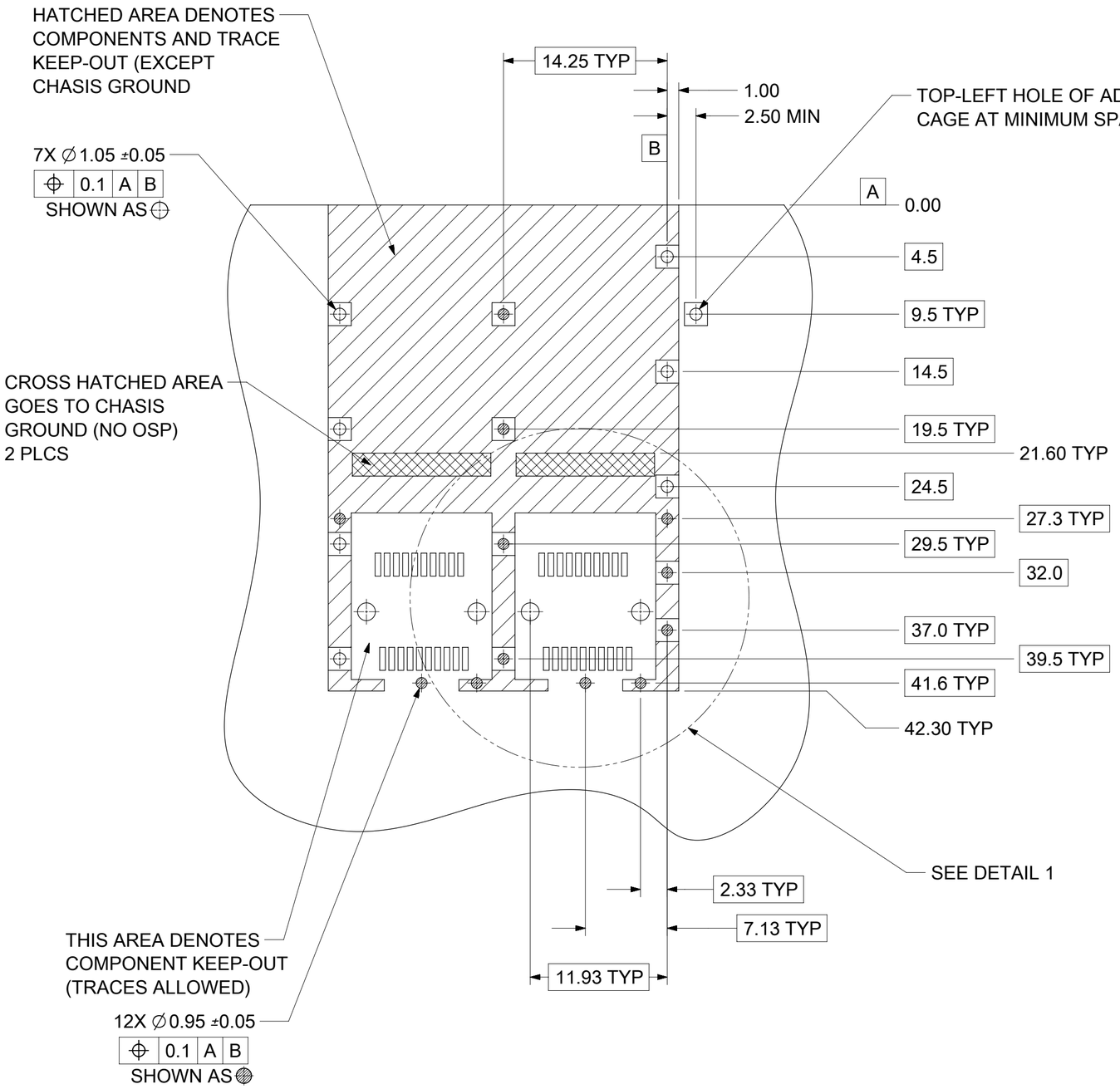
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

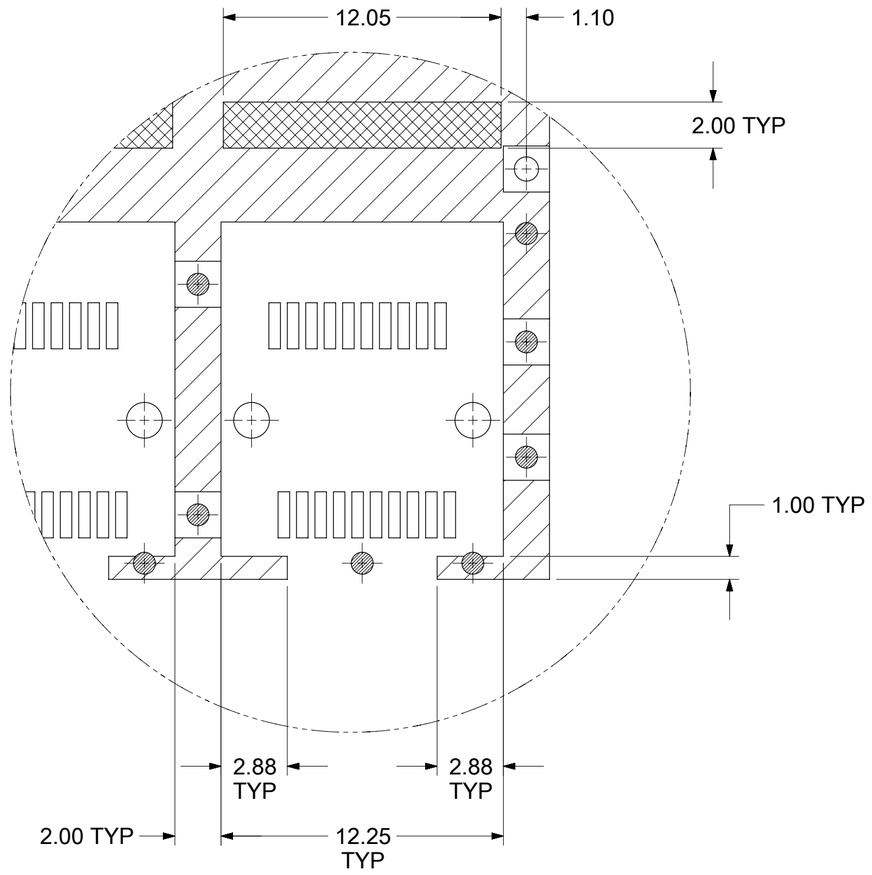
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	3 OF 7

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

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

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.

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

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

QUALITY SYMBOLS	
A =	0
E =	0
F =	0
▼ =	0
C =	0
☒ =	0
■ =	0
D =	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 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08 2016/12/21

J2 REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	MM
SCALE	1:1
DRWN BY	MKEMPEGOWDA
DATE	2016/04/13
CHK'D BY	DSUN15
DATE	2016/07/31
APP'R BY	RCHEN08
DATE	2016/08/04
DRAWING SIZE	C
THIRD ANGLE PROJECTION	

molex®

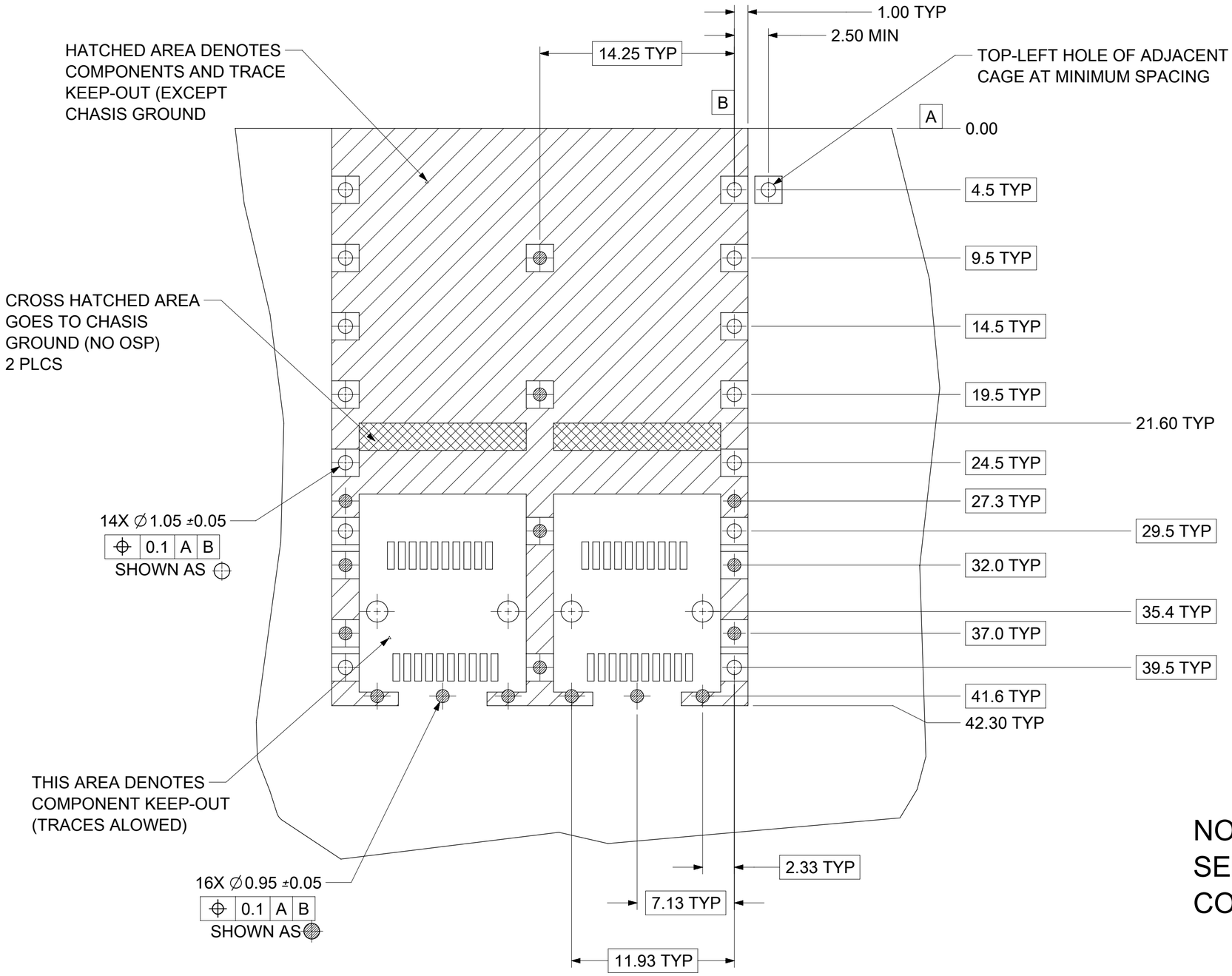
SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	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	
AQL	= 0
CAT	= 0
CAT	= 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 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08 2016/12/21

J2 REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	MM
SCALE	4:1
DRWN BY	MKEMPEGOWDA
DATE	2016/04/13
CHK'D BY	DSUN15
DATE	2016/07/31
APPR BY	RCHEN08
DATE	2016/08/04
DRAWING SIZE	C
THIRD ANGLE PROJECTION	

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

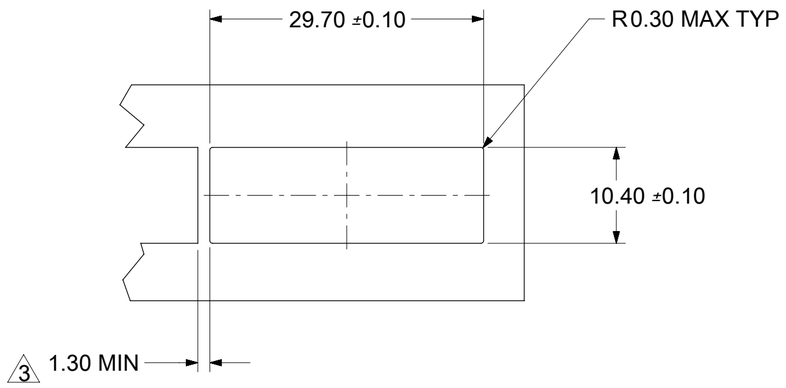
SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

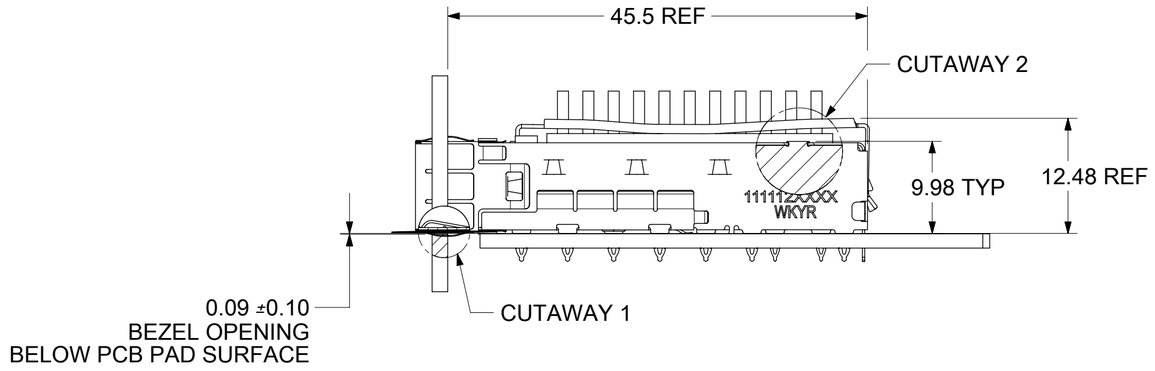
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	5 OF 7

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

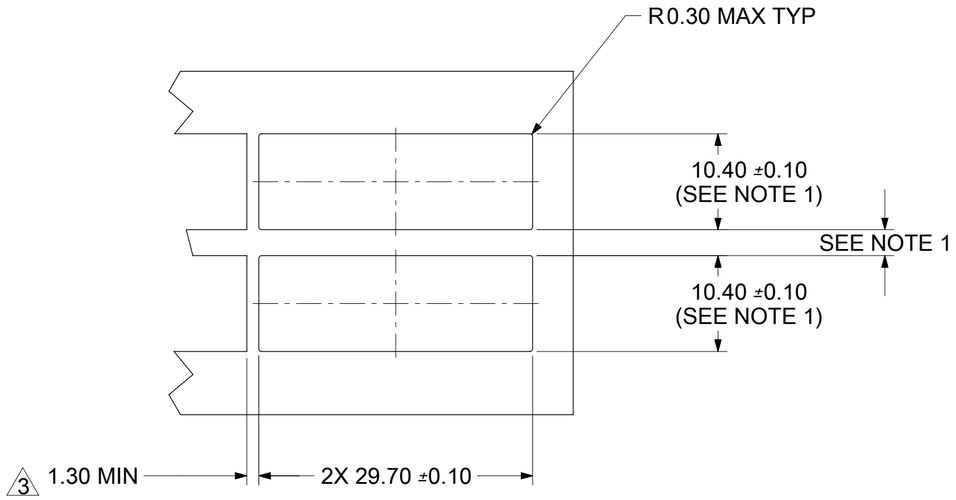
FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

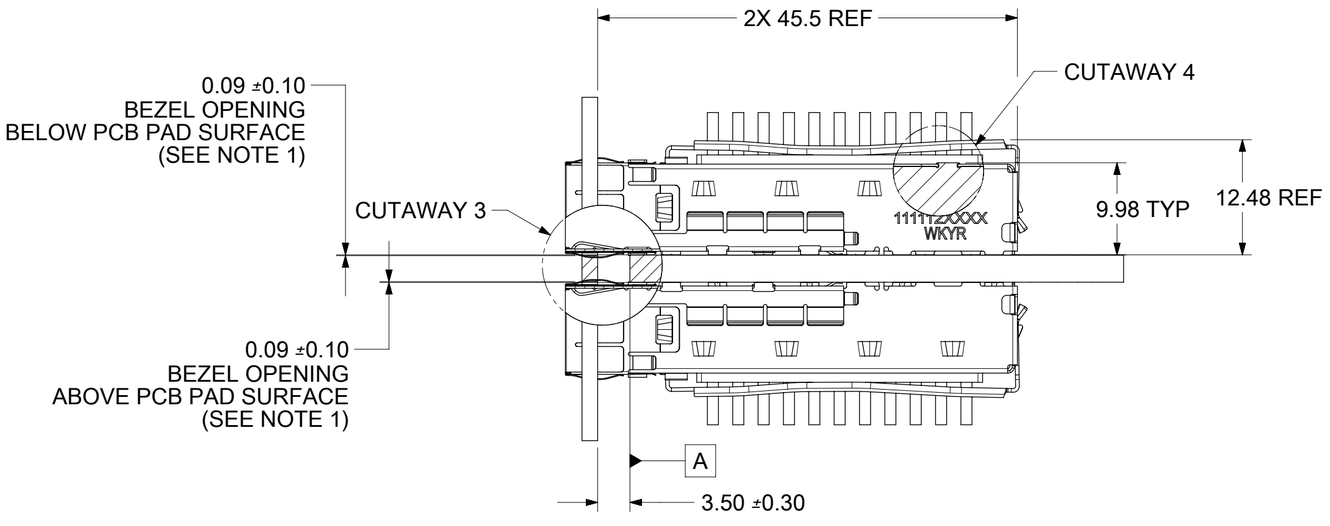
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING (SPRING FINGER)





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





NOTE:
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINIG 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	
A	= 0
E	= 0
F	= 0
▼	= 0
C	= 0
☒	= 0
■	= 0
G	= 0

SEE REVISION TABLE
EC NO: 111626 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08

REV: J2

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
MM	2:1

DRWN BY	DATE
MKEMPEGOWDA	2016/04/13

CHK'D BY	DATE
DSUN15	2016/07/31

APPR BY	DATE
RCHEN08	2016/08/04

DRAWING SIZE: C

THIRD ANGLE PROJECTION

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	6 OF 7

RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

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

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 INDICATIING 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

A = 0
E = 0
F = 0
▼ = 0
C = 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 2016/12/15
DRWN: SJKG 2016/12/21
CHK'D: DSUN15 2016/12/21
APPR: RCHEN08 2016/12/21

REV J2

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 1:1
DRWN BY: MKEMPEGOWDA DATE: 2016/04/13
CHK'D BY: DSUN15 DATE: 2016/07/31
APPR BY: RCHEN08 DATE: 2016/08/04
DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

SFP+ 1X2 CAGE, 3.05 MM
PRESS FIT, HEAT SINK, EMI SPRING FINGERS

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
111112	SEE SHEET 3	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1111122220	PSD	ASY	7 OF 7

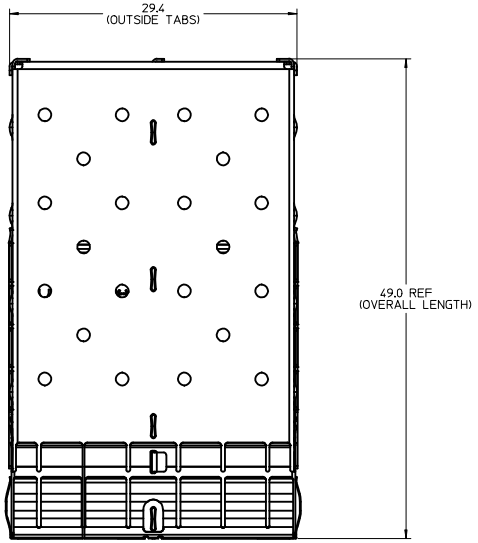
RELEASE STATUS	P1	RELEASE DATE	04.08.2016 03:01:58

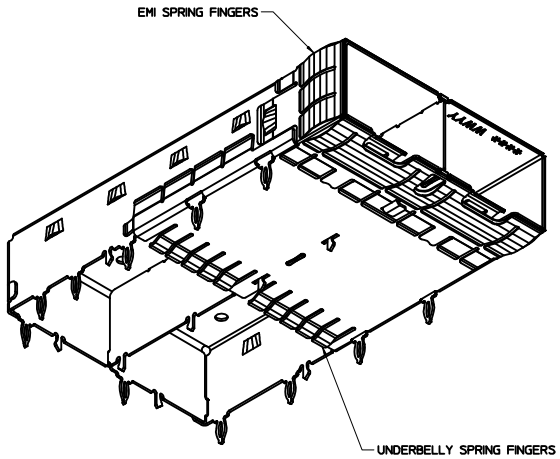
FORMAT: master-tb-prod-C
REVISION: G
DATE: 2015/12/14

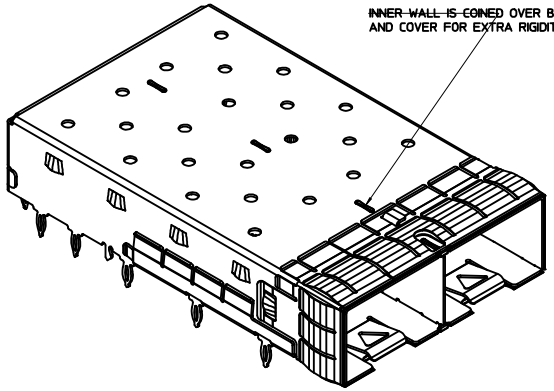
MM 3D-MODEL: TM-111112-2220

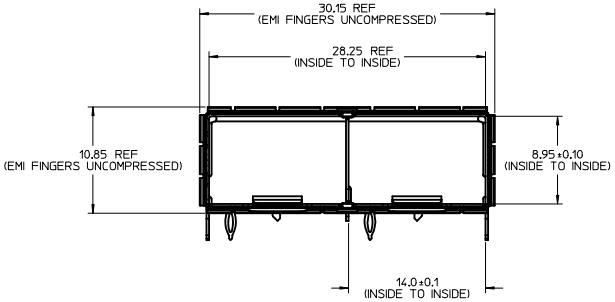
BASE CAGE DETAILS

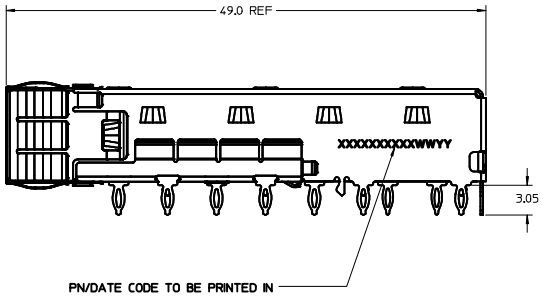
747540220

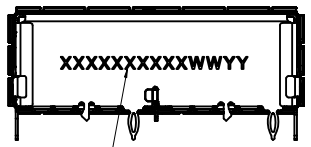












WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

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 SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
DESCRIPTION
REV: H

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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2220
SHEET NO.: 1 OF 8

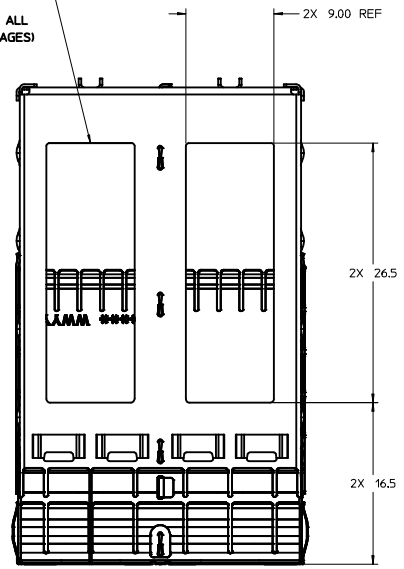
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

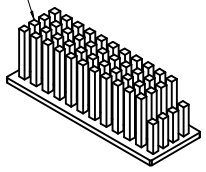
CAGE ASSEMBLY OPTIONS

OPEN TOP
1111120220
SHOWN

(APPLIES TO ALL OPEN TOP CAGES)



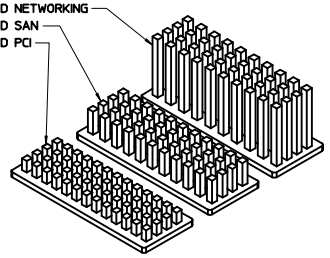
HEATSINK OPTIONS
(2 PLC)
CUSTOM



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

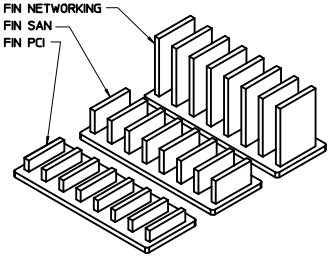


OVERALL HEATSINK HEIGHT

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

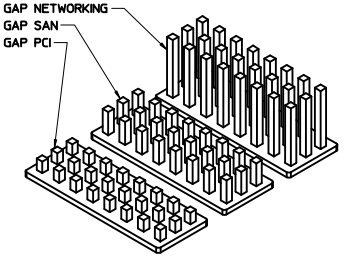
HEATSINK OPTIONS
(2 PLC)
LATERAL FIN NETWORKING
LATERAL FIN SAN
LATERAL FIN PCI



OVERALL HEATSINK HEIGHT

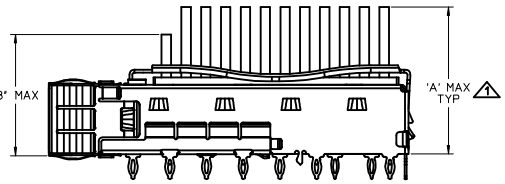
APPLICATION	STYLE	DIM 'A'
PCI	LATERAL FIELD	14.3
SAN	LATERAL FIELD	16.6
NETWORKING	LATERAL FIELD	23.6

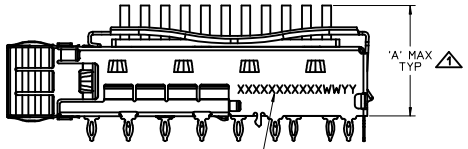
HEATSINK OPTIONS
(2 PLC)
WIDE GAP NETWORKING
WIDE GAP SAN
WIDE GAP PCI



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



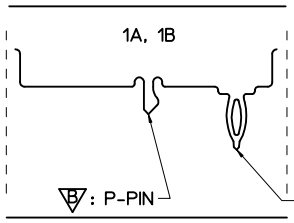


PN/DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
FOR 111112 SERIES CAGES

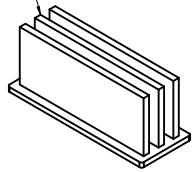
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

REAR LEG OPTIONS

(PER PORT)



HEATSINK OPTIONS
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

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

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
REV H

QUALITY SYMBOLS
A =0
B =0
C =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
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2220
SHEET NO.: 2 OF 8

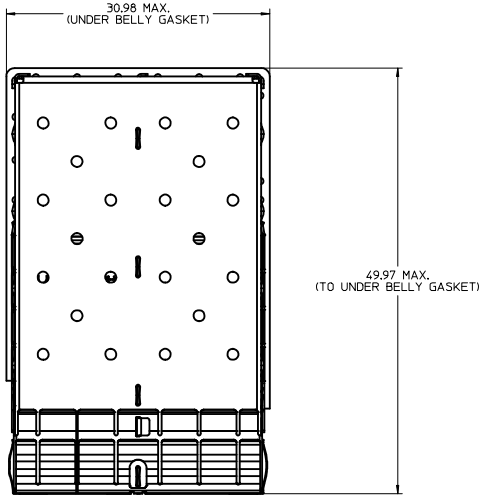
SIZE D

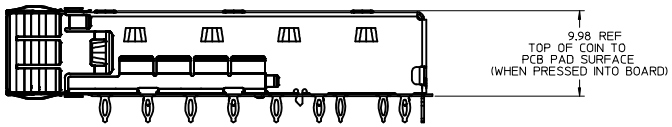
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

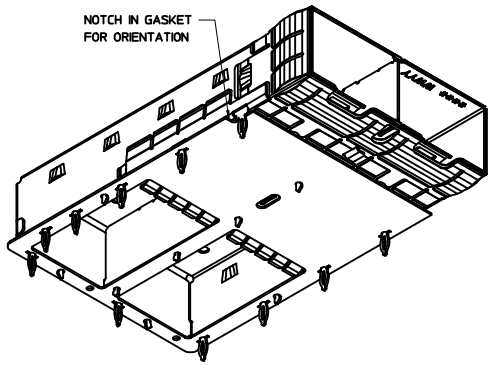
OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

1001130220

SHOWN







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

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
DESCRIPTION
REV
H

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
SCALE: 3.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY DATE

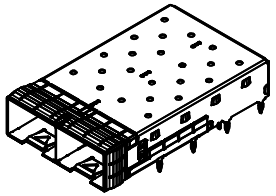
TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

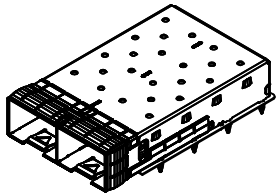
MATERIAL NO.: SEE SHEET 4
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 3 OF 8
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

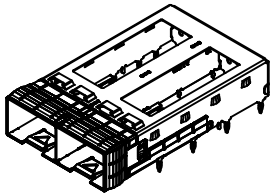
PART NUMBER SELECTION



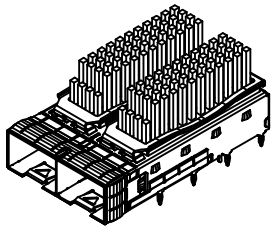
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



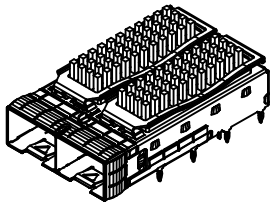
zSFP+ GEN 2 CLOSED TOP	
PART NO.	1001130220



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

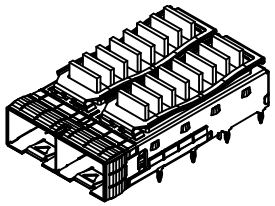


SFP+ CUSTOM HEATSINK OPTION	
PART NO.	1111120226

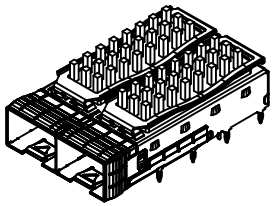


SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

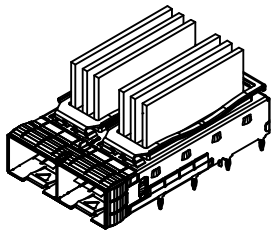
NOTE: PCI - 13 ROWS
SAN - 11 ROWS
NETWORKING - 10 ROWS



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.	1111126221

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CHK'D:
APPR:RICHEN08 2015/08/26
REV: H
DESCRIPTION

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:

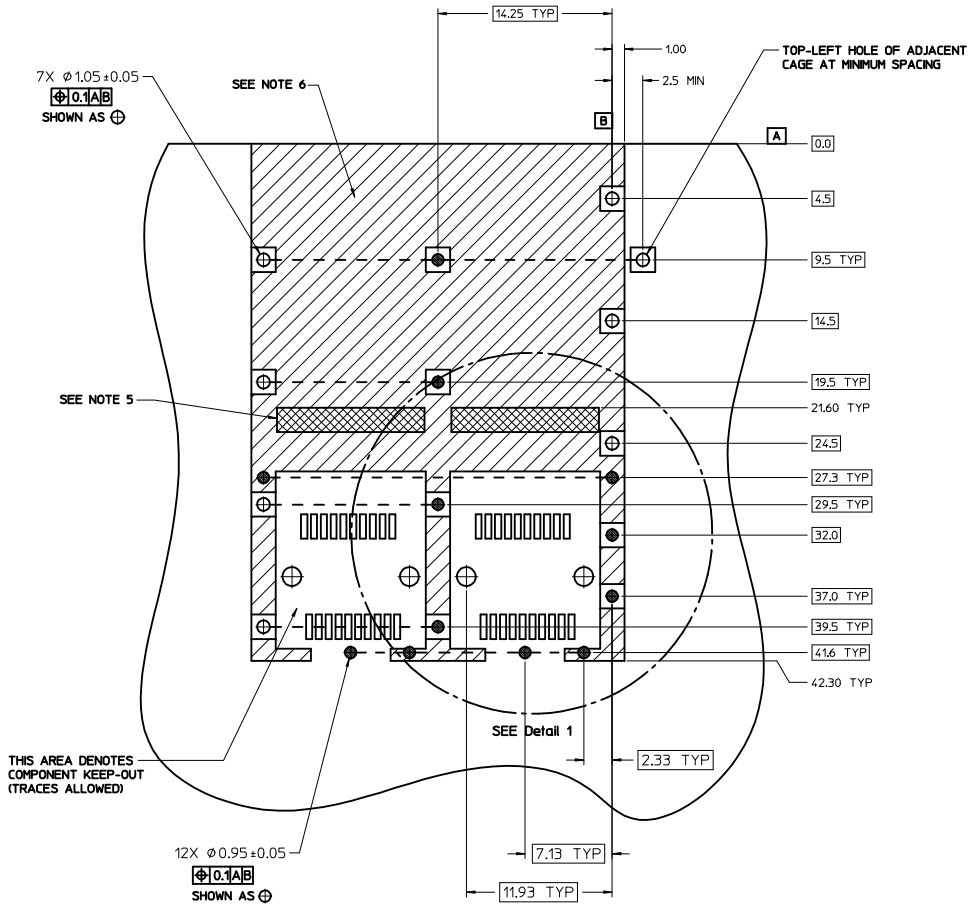
TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

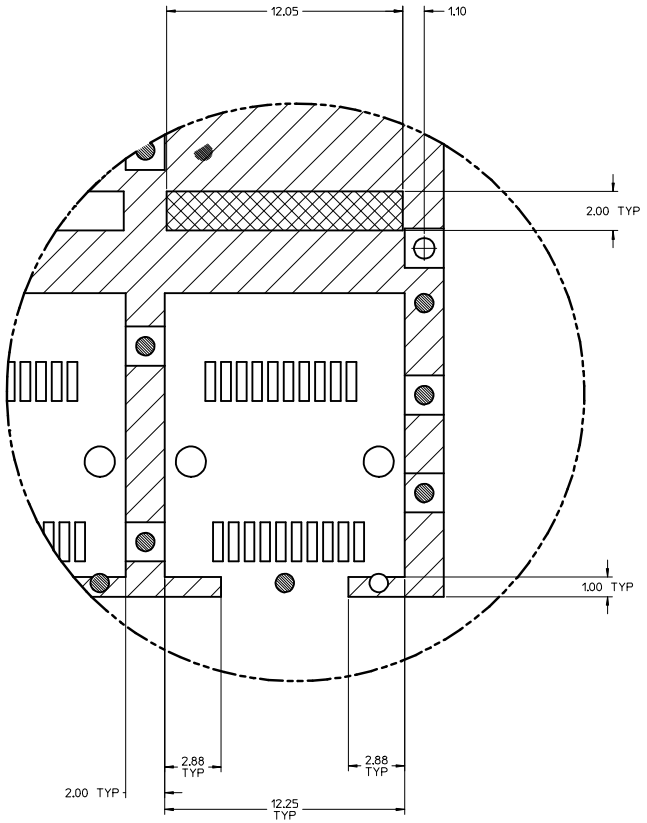
molex

MATERIAL NO.: SEE TABLES
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 4 OF 8
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PCB LAYOUT - SINGLE SIDE ONLY



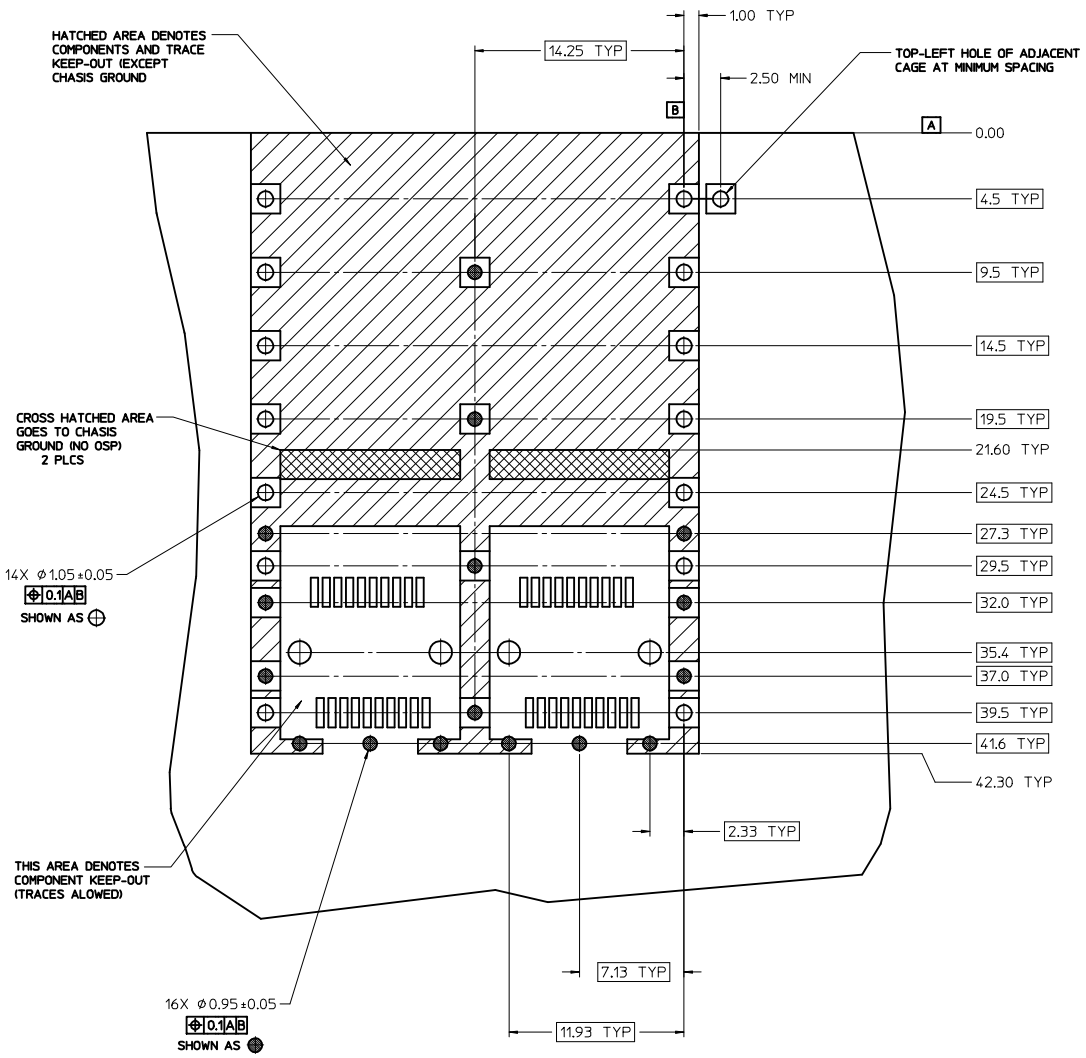


Detail 1
Scale 8:1

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. CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
6. HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
7. 1.57mm [.062 INCH] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

SEE REVISION SHEET	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO: CPG2015-5742 2015/05/04		mm	INCH	MM ONLY	5:1	METRIC	
DRWN:THSU	=0	4 PLACES ± ---	± ---	DRAWN BY JERWIN DATE 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS		
CHKD:	=0	3 PLACES ± ---	± ---	CHECKED BY GBARDELLA DATE 2013/11/21			
APPR:RCHEN08 2015/08/26	=0	2 PLACES ± 0.13	± ---	APPROVED BY DATE	molex		
DESCRIPTION		1 PLACE ± 0.25	± ---	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-111112-2220		SHEET NO. 5 OF 8
REV H		0 PLACE ± ---	± ---				
		ANGULAR ± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	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

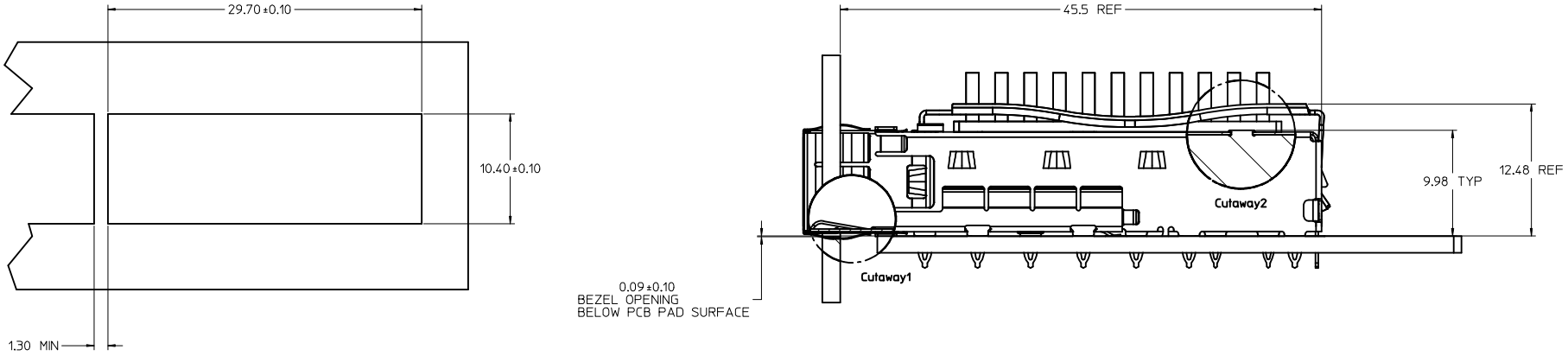


NOTE:
SEE SHEET 5 FOR HOST CONNECTOR DETAIL

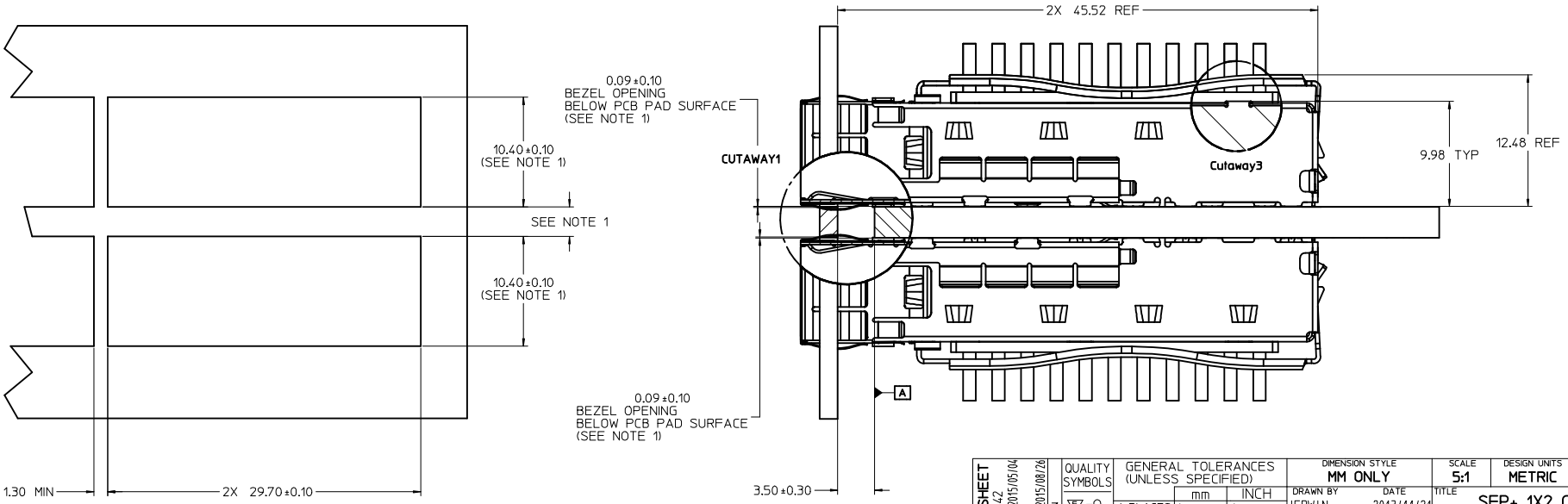
NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
   RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS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

SEE REVISION SHEET EC NO: CPG2015-5742 2015/05/04 DRWN:THSU CHKD: APPR:RCHEN08 2015/08/26 DESCRIPTION REV H	QUALITY SYMBOLS =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) 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: MATERIAL NO.: SEE SHEET 4 SIZE: D	SCALE: 6:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS molex DOCUMENT NO.: SD-111112-2220 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)



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



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

SEE REVISION SHEET	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE: MM ONLY
EC NO: CPG2015-5742 2015/05/04		mm / INCH	SCALE: 5:1
DRWN:THSU CH'KD: APPR:RCHEN08 2015/08/26		4 PLACES ± --- / ± ---	DESIGN UNITS: METRIC
DESCRIPTION		3 PLACES ± --- / ± ---	THIRD ANGLE PROJECTION
REV		2 PLACES ± 0.13 / ± ---	DRAWN BY: JERWIN DATE: 2013/11/21
H		1 PLACE ± 0.25 / ± ---	CHECKED BY: GBARDELLA DATE: 2013/11/21
		0 PLACE ± --- / ± ---	APPROVED BY DATE
		ANGULAR ±---°	MATERIAL NO.: SEE SHEET 4
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE: D

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2220 SHEET NO.: 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 INDICATIING 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
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
REV H

DESCRIPTION

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY DATE

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

MATERIAL NO.: SEE SHEET 4
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 8 OF 8

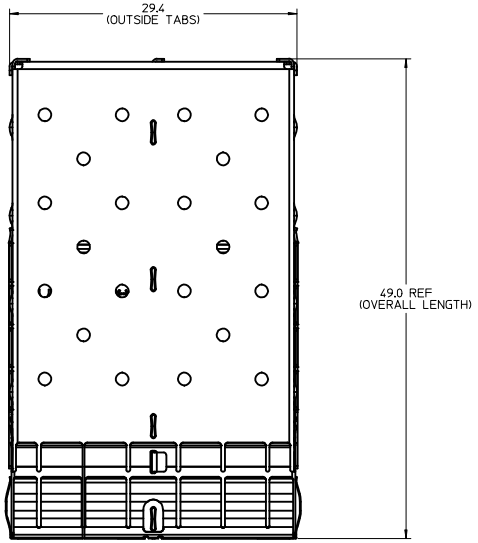
SIZE: D

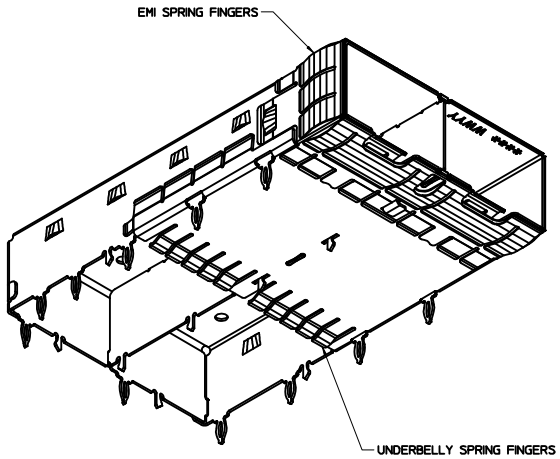
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

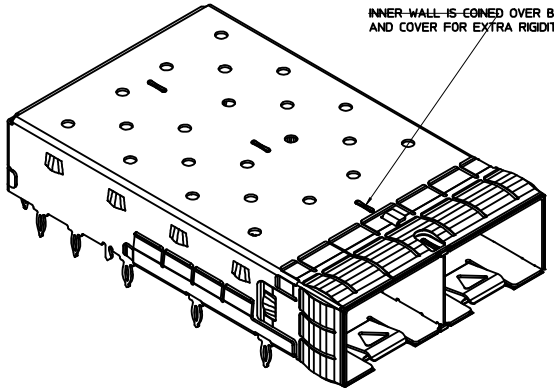
MM 3D-MODEL: TM-111112-2220

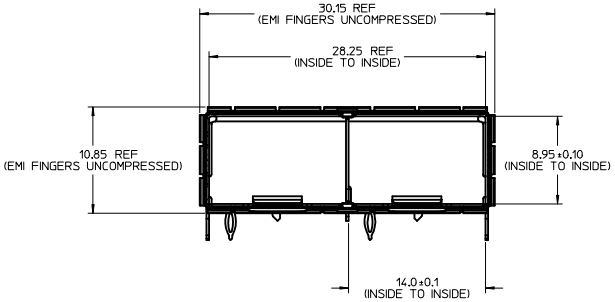
BASE CAGE DETAILS

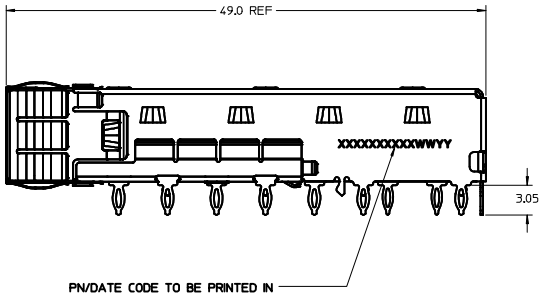
747540220

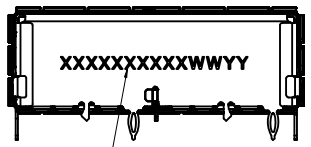












WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

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 SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
DESCRIPTION
REV: H

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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2220
SHEET NO.: 1 OF 8

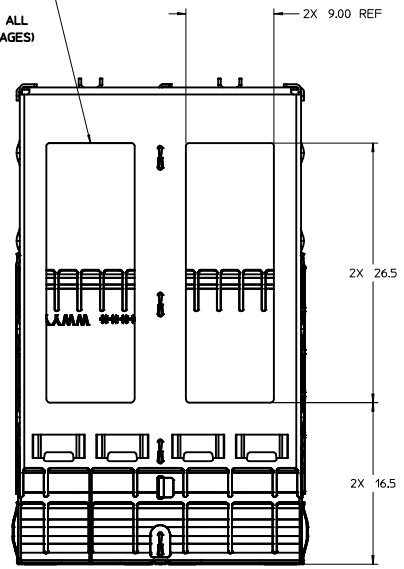
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

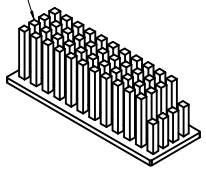
CAGE ASSEMBLY OPTIONS

OPEN TOP
1111120220
SHOWN

(APPLIES TO ALL OPEN TOP CAGES)



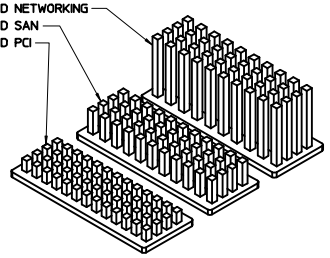
HEATSINK OPTIONS
(2 PLC)
CUSTOM



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

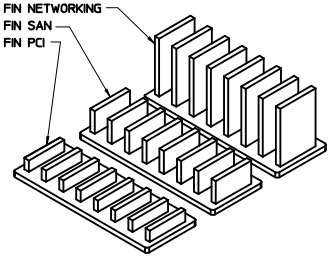


OVERALL HEATSINK HEIGHT

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

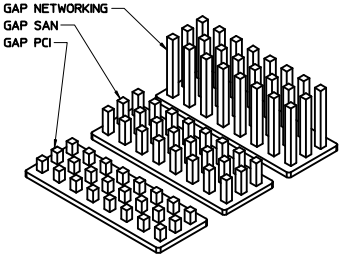
HEATSINK OPTIONS
(2 PLC)
LATERAL FIN NETWORKING
LATERAL FIN SAN
LATERAL FIN PCI



OVERALL HEATSINK HEIGHT

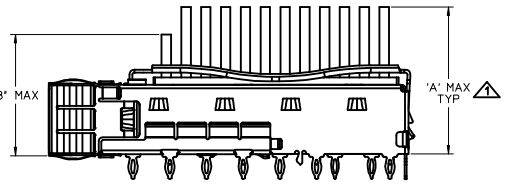
APPLICATION	STYLE	DIM 'A'
PCI	LATERAL FIELD	14.3
SAN	LATERAL FIELD	16.6
NETWORKING	LATERAL FIELD	23.6

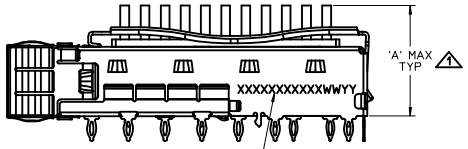
HEATSINK OPTIONS
(2 PLC)
WIDE GAP NETWORKING
WIDE GAP SAN
WIDE GAP PCI



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



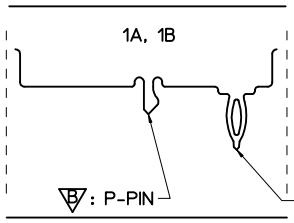


PN/DATE CODE TO BE PRINTED ON THE SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN.
FOR 111112 SERIES CAGES

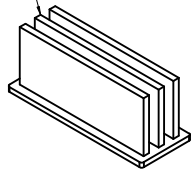
WEEK/YEAR DATE CODE TABLE	
WW	01 THRU 52 OR 53 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YY	11, 12, 13 ETC. EXAMPLE: YEAR 2013 = 13

REAR LEG OPTIONS

(PER PORT)



HEATSINK OPTIONS
CUSTOM FIN



OVERALL HEATSINK HEIGHT

APPLICATION	DIM 'A'
CUSTOM	23.6

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

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
REV H

QUALITY SYMBOLS
A =0
B =0
C =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
SCALE: 3:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:
MATERIAL NO.: SEE SHEET 4

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

DOCUMENT NO.: SD-111112-2220
SHEET NO.: 2 OF 8

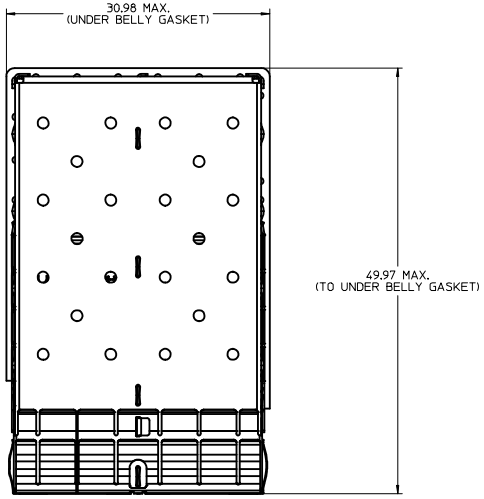
SIZE D

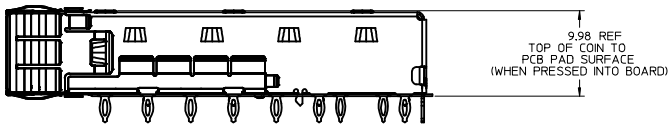
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

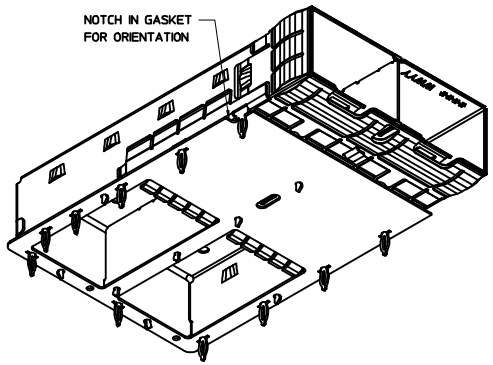
OPTIONAL GEN 2 zSFP+ UNDER BELLY GASKET

1001130220

SHOWN







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

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
DESCRIPTION
REV
H

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
SCALE: 3.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY DATE

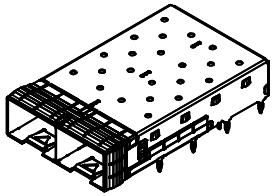
TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

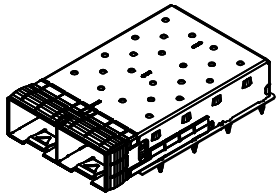
MATERIAL NO.: SEE SHEET 4
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 3 OF 8
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

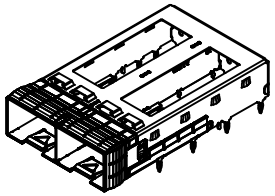
PART NUMBER SELECTION



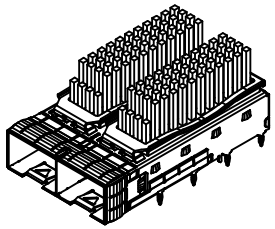
SFP+ CLOSED TOP BASE CAGE	
PART NO.	DESCRIPTION
747540220	SFP FOOTPRINT (STD B TO B), 5 WELD POINTS
747540222	SFP FOOTPRINT (STD B TO B), 16 WELD POINTS
747540247	SAME AS ABOVE BUT NO PN/DATE CODE PRINTED



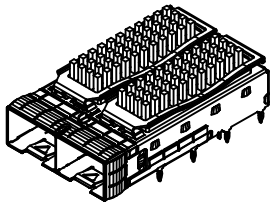
zSFP+ GEN 2 CLOSED TOP	
PART NO.	1001130220



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

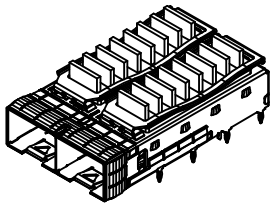


SFP+ CUSTOM HEATSINK OPTION	
PART NO.	1111120226

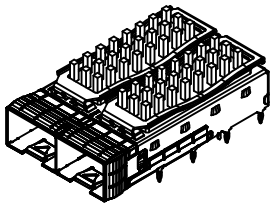


SFP+ PIN FIELD HEATSINK OPTION	
PART NO.	APPLICATION
1111121220	PCI
1111122220	SAN
1111123220	NETWORKING

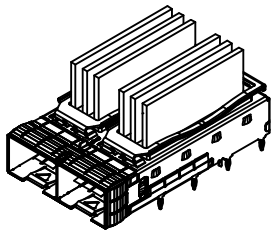
NOTE: PCI - 13 ROWS
SAN - 11 ROWS
NETWORKING - 10 ROWS



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.	1111126221

SEE REVISION SHEET
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CHK'D:
APPR:RICHEN08 2015/08/26
REV: H
DESCRIPTION

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY: DATE:

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

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MATERIAL NO.: SEE TABLES
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 4 OF 8
SIZE: D

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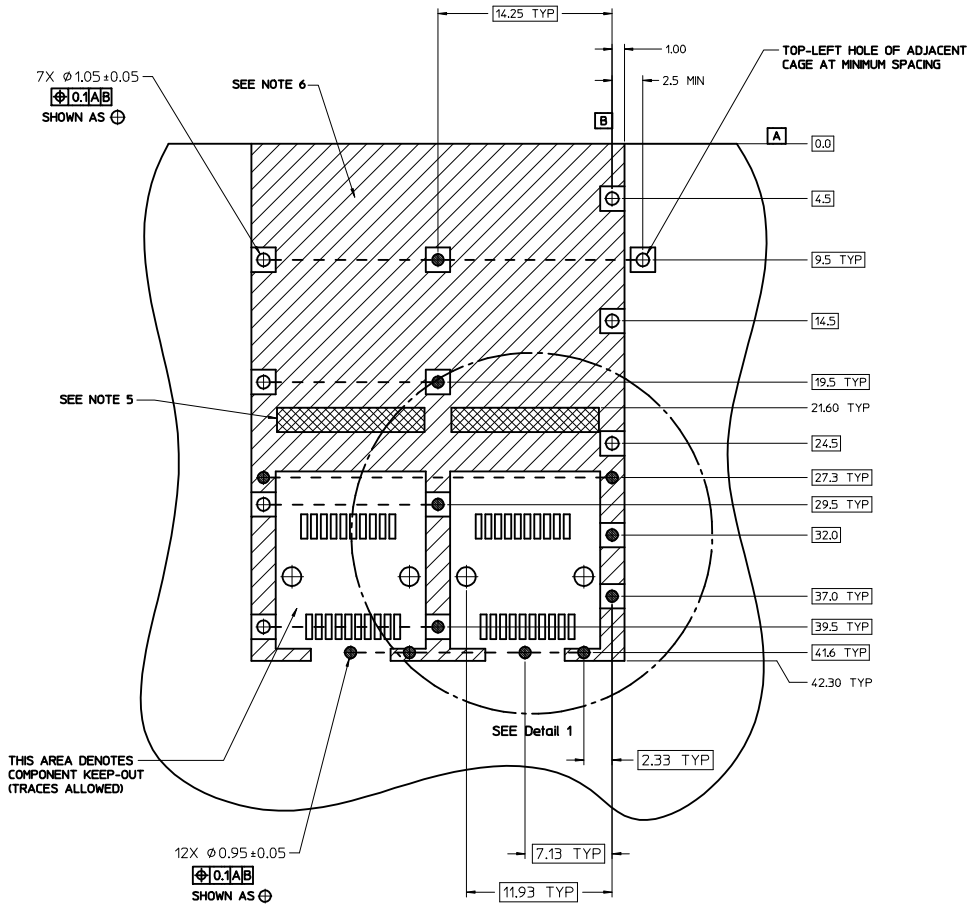
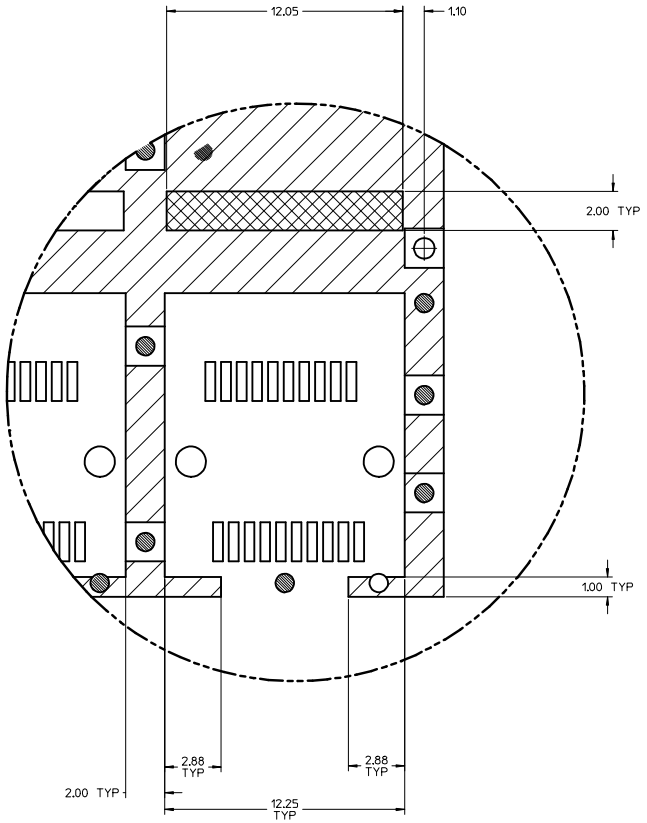
PCB LAYOUT - SINGLE SIDE ONLY



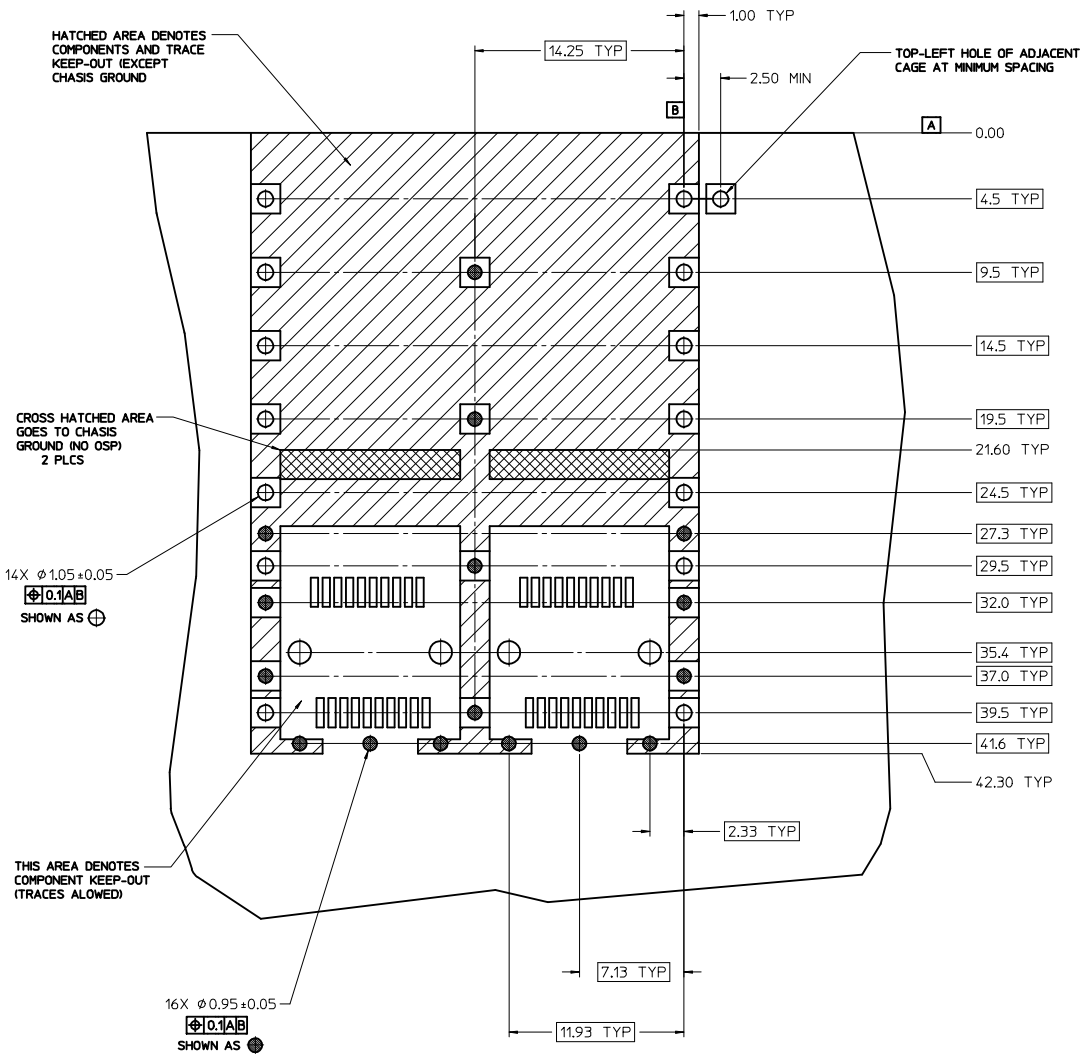


Detail 1
Scale 8:1

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. CROSS-HATCHED AREA IS EXPOSED CHASSIS GROUND (NO OSP)
6. HATCHED AREA IS COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)
7. 1.57mm [.062 INCH] MINIMUM PCB THICKNESS FOR SINGLE SIDED USE.

SEE REVISION SHEET	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO: CPG2015-5742 2015/05/04		mm	INCH	MM ONLY	5:1	METRIC	
DRWN:THSU	=0	4 PLACES ± ---	± ---	DRAWN BY JERWIN DATE 2013/11/21	TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS		
CHKD:	=0	3 PLACES ± ---	± ---	CHECKED BY GBARDELLA DATE 2013/11/21			
APPR:RCHEN08 2015/08/26	=0	2 PLACES ± 0.13	± ---	APPROVED BY DATE	molex		
DESCRIPTION		1 PLACE ± 0.25	± ---	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-111112-2220		SHEET NO. 5 OF 8
REV H		0 PLACE ± ---	± ---				
		ANGULAR ± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	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

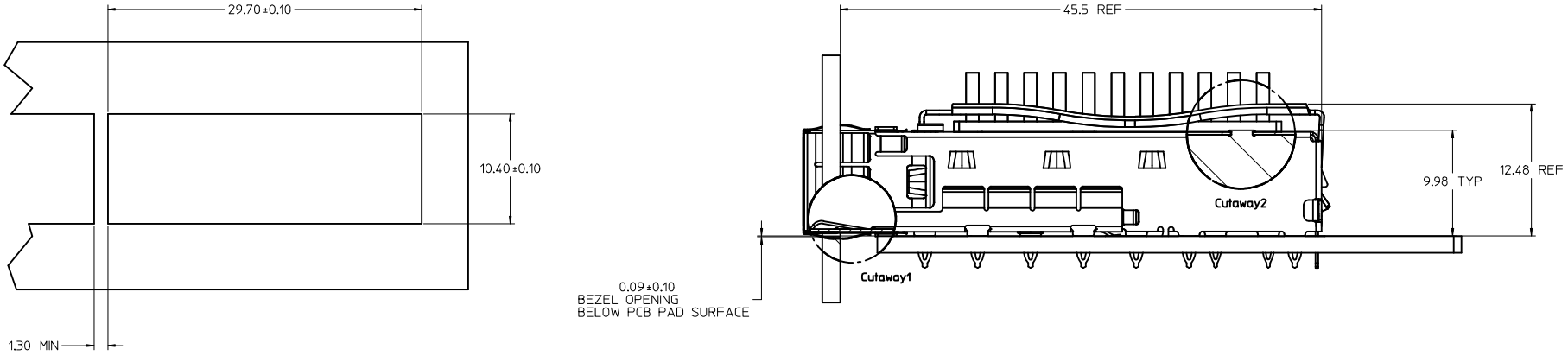


NOTE:
SEE SHEET 5 FOR HOST CONNECTOR DETAIL

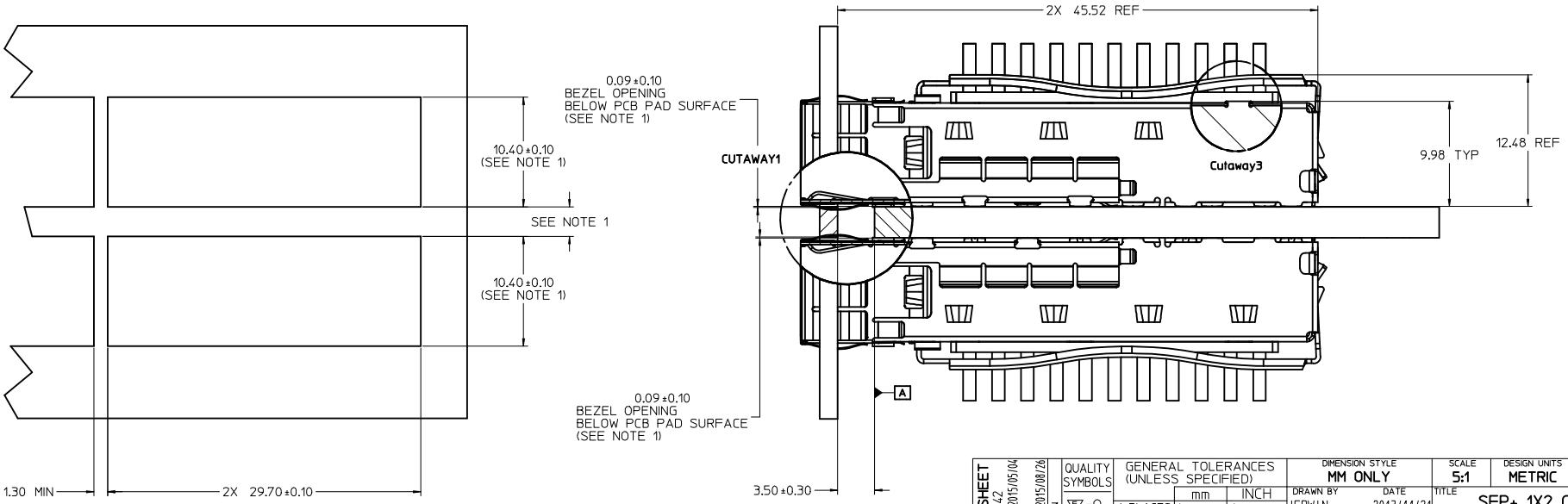
NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND
   RECOMMEND PADS TO BE 2.00mm SQUARE
2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN)
3. CONNECTOR PAD LAYOUT PER SFP+ MSA WILL ACCOMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.
4. SPACING BETWEEN PORTS IS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

SEE REVISION SHEET EC NO: CPG2015-5742 2015/05/04 DRWN:THSU CHKD: APPR:RCHEN08 2015/08/26 DESCRIPTION REV H	QUALITY SYMBOLS =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) 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: MATERIAL NO.: SEE SHEET 4 SIZE: D	SCALE: 6:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS molex DOCUMENT NO.: SD-111112-2220 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)



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



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

SEE REVISION SHEET	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE: MM ONLY
EC NO: CPG2015-5742 2015/05/04		mm / INCH	SCALE: 5:1
DRWN:THSU CH'KD: APPR:RCHEN08 2015/08/26		4 PLACES ± --- / ± ---	DESIGN UNITS: METRIC
DESCRIPTION		3 PLACES ± --- / ± ---	THIRD ANGLE PROJECTION
REV		2 PLACES ± 0.13 / ± ---	DRAWN BY: JERWIN DATE: 2013/11/21
H		1 PLACE ± 0.25 / ± ---	CHECKED BY: GBARDELLA DATE: 2013/11/21
		0 PLACE ± --- / ± ---	APPROVED BY DATE
		ANGULAR ±---°	MATERIAL NO.: SEE SHEET 4
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE: D

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

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DOCUMENT NO.: SD-111112-2220 SHEET NO.: 7 OF 8

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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 INDICATIING 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
EC NO: CPG2015-5742 2015/05/04
DRWN:THSU
CH'KD:
APPR:RCHEN08 2015/08/26
REV H

DESCRIPTION

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JERWIN DATE: 2013/11/21
CHECKED BY: GBARDELLA DATE: 2013/11/21
APPROVED BY DATE

TITLE: SFP+ 1X2 CAGE, .120 INCH PRESS FIT, HEAT SINK, EMI SPRING FINGERS

molex

MATERIAL NO.: SEE SHEET 4
DOCUMENT NO.: SD-111112-2220
SHEET NO.: 8 OF 8

SIZE: D

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