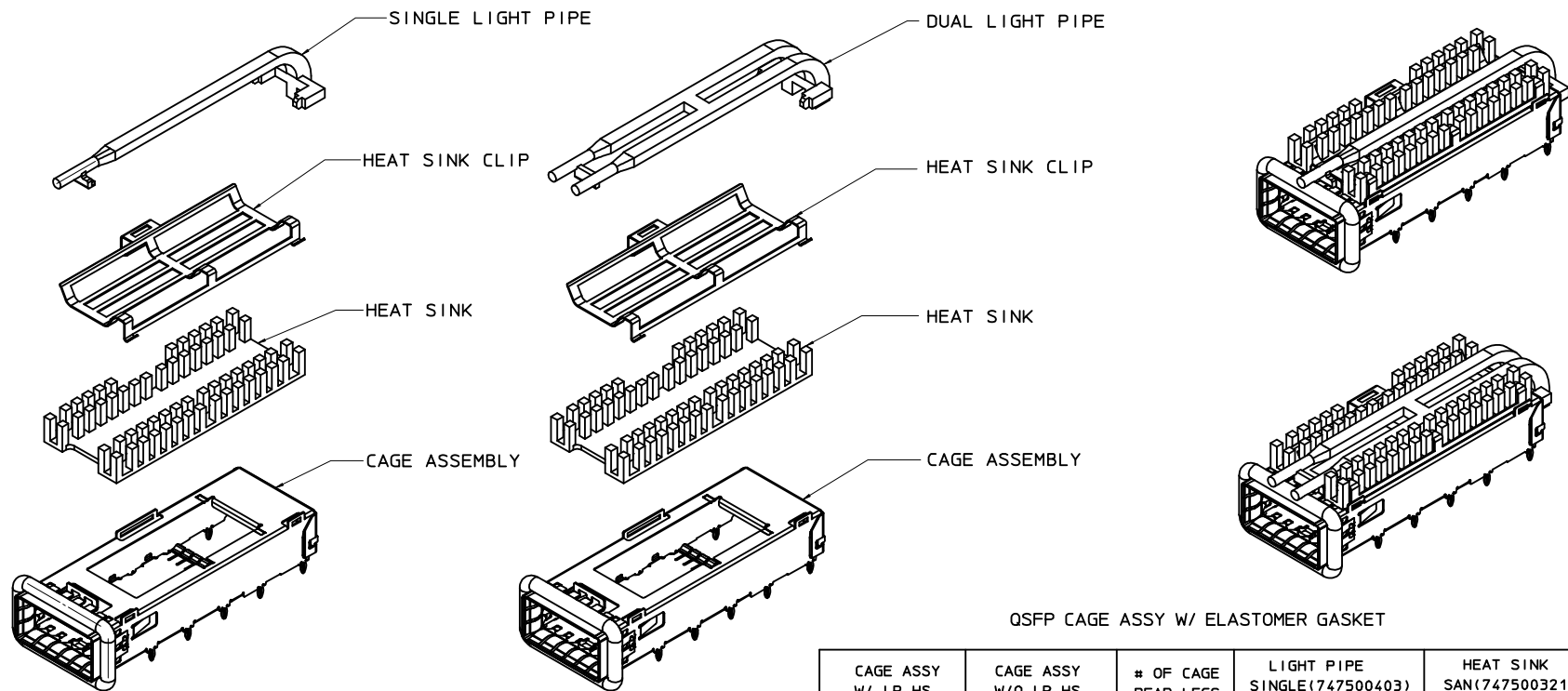
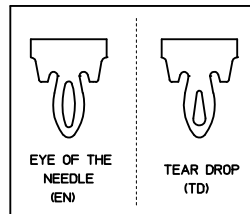




QSFP CAGE ASSY W/ ELASTOMER GASKET

LEG OPTIONS



CAGE ASSY W/ LP-HS INSTALLED	CAGE ASSY W/O LP-HS INSTALLED	# OF CAGE REAR LEGS	LIGHT PIPE SINGLE(747500403) DUAL(747500404)	HEAT SINK SAN(747500321) NET(747500322)	LEG TYPE
747500070	747500094	2	SINGLE	SAN	EN
747500071	747500094	2	SINGLE	NET	
747500072	747500094	2	DUAL	SAN	
747500073	747500094	2	DUAL	NET	
747500074	747500095	0	SINGLE	SAN	
747500075	747500095	0	SINGLE	NET	
747500076	747500095	0	DUAL	SAN	
747500077	747500095	0	DUAL	NET	
747501577	---	2	DUAL	SAN	TD
747501578	---	2	DUAL	NET	

NOTES:

1. MATERIAL:

HEATSINK CLIP: STAINLESS STEEL

LIGHT PIPES: POLYCARBONATE (94-V0 RATED)

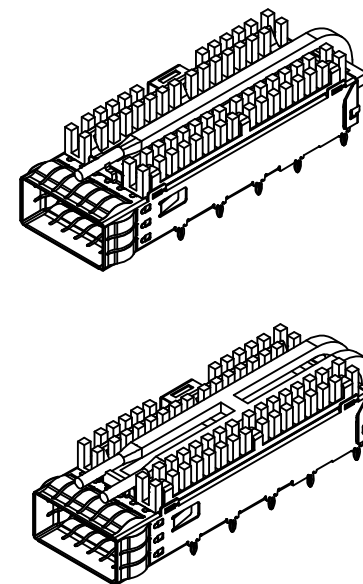
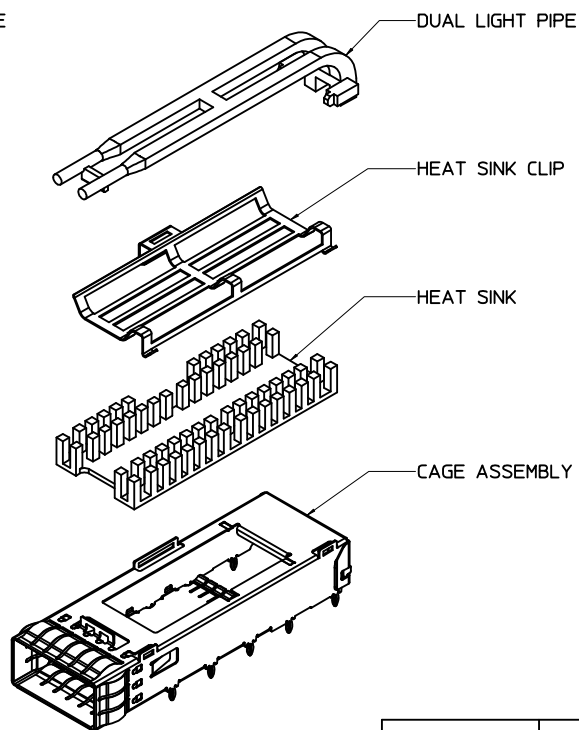
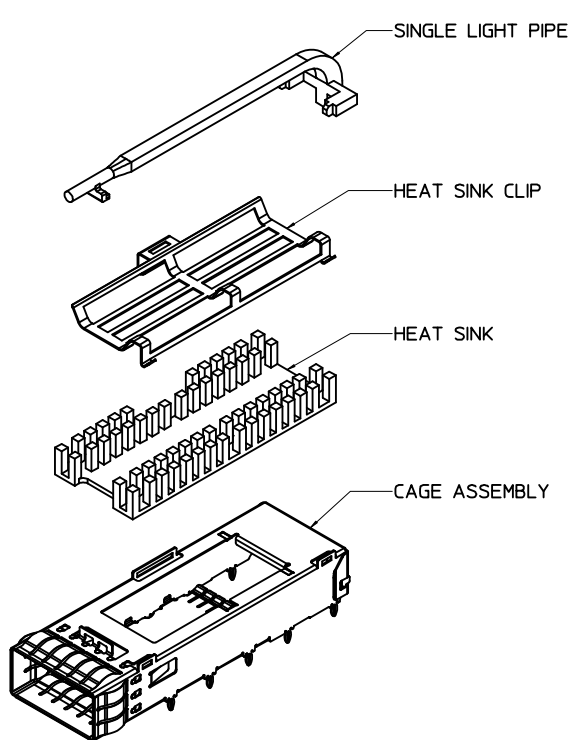
HEAT SINKS: ALUMINUM

CAGE: COPPER ALLOY

2. FOR CAGE DETAIL, SEE MOLEX DRAWING SD-74750-0094

3. NO RoHS EXEMPTIONS

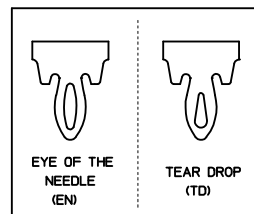
SEE REVISION TABLE EC NO: CP62016-2778 DRAWN: CHENG03 CHKD: APPR: RCHEN08 DATE: 2016/01/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2.5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			mm	INCH	DRAWN BY JERWIN	DATE 2009/11/30	TITLE QSFP 1X1 GANGED CAGE FULLY ASSEMBLED	
		4 PLACES	±.005	±.0005	CHECKED BY CHIRSCHY	DATE 2009/12/22		
		3 PLACES	±.015	±.0025	APPROVED BY RMAHMOOD	DATE 2009/11/30		
		2 PLACES	±.025					
		1 PLACE	±.025					
		ANGULAR ± 1 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74750-0070		SHEET NO. 1 OF 5
		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		



QSFP CAGE ASSY W/ SPRING FINGER

CAGE ASSY W/ LP-HS INSTALLED	CAGE ASSY W/O LP-HS INSTALLED	# OF CAGE REAR LEGS	LIGHT PIPE SINGLE (747500403) DUAL (747500404)	HEAT SINK SAN (747500321) NET (747500322)	LEG TYPE
747500080	747500092	2	SINGLE	SAN	EN
747500081	747500092	2	SINGLE	NET	
747500082	747500092	2	DUAL	SAN	
747500083	747500092	2	DUAL	NET	
747500084	747500093	0	SINGLE	SAN	
747500085	747500093	0	SINGLE	NET	
747500086	747500093	0	DUAL	SAN	TD
747500087	747500093	0	DUAL	NET	
747500088	---	2	DUAL	NET	

LEG OPTIONS

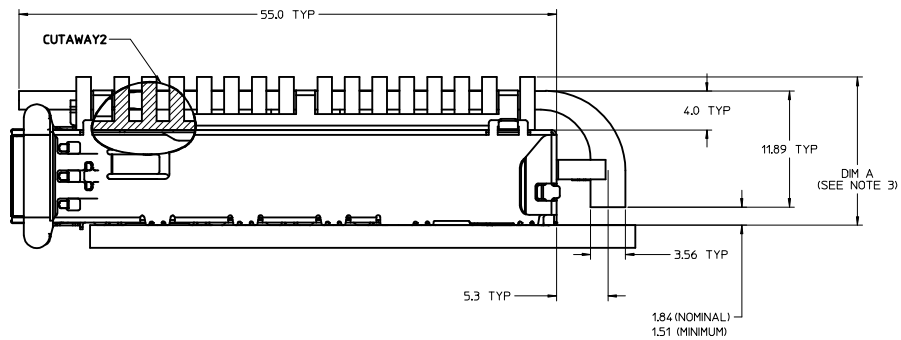


NOTES:

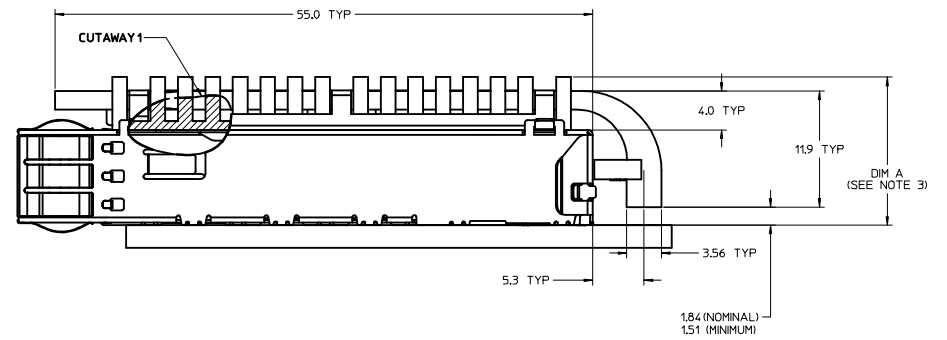
- MATERIAL:
HEATSINK CLIP: STAINLESS STEEL
LIGHT PIPES: POLYCARBONATE (94-V0 RATED)
HEAT SINKS: ALUMINUM
CAGE: COPPER ALLOY
- FOR CAGE DETAIL, SEE MOLEX DRAWING SD-74750-0092
- NO RoHS EXEMPTIONS

SEE REVISION TABLE EC No: CPG2016-Z778 CHKD: CHYD APPR: RCHEN08 REV: 2016/01/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1°	DIMENSION STYLE MM ONLY	SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			DRAWN BY JERWIN DATE 2009/11/30	CHECKED BY CHIRSCY DATE 2009/12/22	APPROVED BY RMAHMOOD DATE 2009/11/30	MATERIAL NO. SEE TABLE
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	TITLE QSFP 1X1 GANGED CAGE FULLY ASSEMBLED	MOLEX INCORPORATED	DOCUMENT NO. SD-74750-0070	SHEET NO. 2 OF 5
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

QSFP CAGE W/ ELASTOMER GASKET



QSFP CAGE W/ SPRING FINGERS



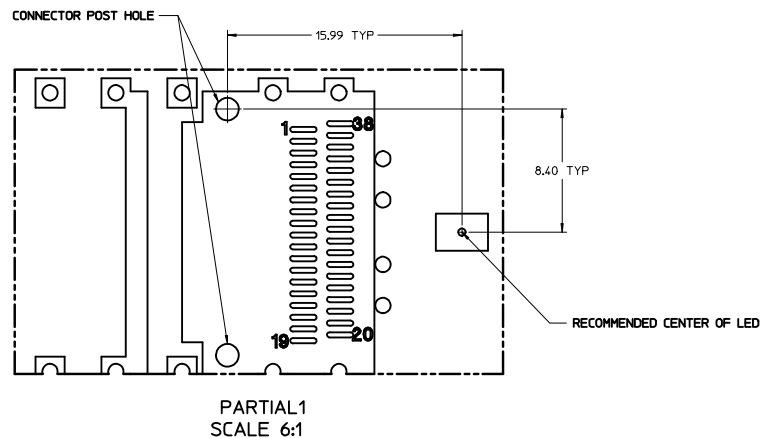
MOLEX P/N	OVERALL HEATSINK HEIGHT	DIM "A"
747500321	SAN	16.0
747500322	NET	23.0

NOTES:

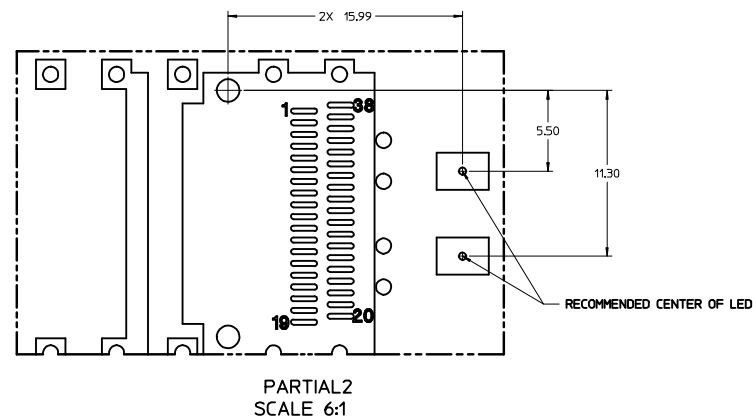
1. LED SHOULD BE PLACED RELATIVE TO THE QSFP CONNECTOR POST HOLES
2. CUSTOM HEATSINKS AVAILABLE UPON REQUEST
3. HEIGHT OF HEATSINK WITH MODULE INSERTED. DIMENSION MAY BE LESS DUE TO MODULE AND HEAT SINK VARIATIONS.

SEE REVISION TABLE EC NO: CPG2016-2778 DRAWN BY: TDRWNAHENG03 CHKD: APPRCHEN08 DATE: 2016/01/15 DATE: 2016/01/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE QSFP 1X1 GANGED CAGE FULLY ASSEMBLED	
		mm	INCH	DRAWN BY	DATE	TITLE				
	4 PLACES	±	---	JERWIN	2009/11/30	MOLEX INCORPORATED				
	3 PLACES	±	---	CHECKED BY	DATE	DOCUMENT NO.				
	2 PLACES	±	---	CHIRSCY	2009/12/22	SD-74750-0070				
1 PLACE	±	0.15	APPROVED BY	DATE	SHEET NO.					
		± 0.25	RMAHMOOD	2009/11/30	3 OF 5					
		ANGULAR ± 1 °	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										

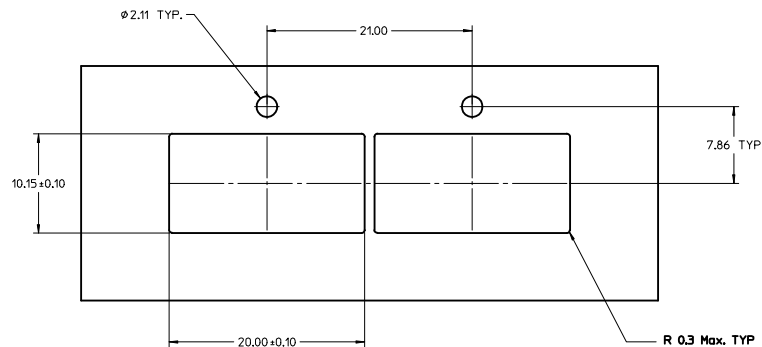
SINGLE LIGHT PIPE LED LAYOUT



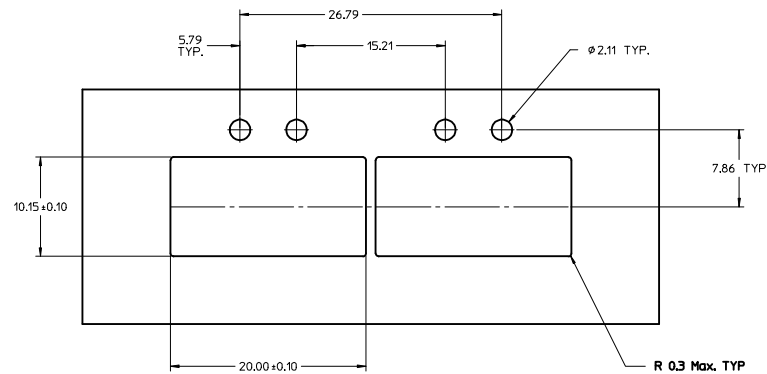
DUAL LIGHT PIPE LED LAYOUT



SINGLE LIGHT PIPE BEZEL LAYOUT



DUAL LIGHT PIPE BEZEL LAYOUT



MOLEX P/N	LIGHT PIPE
747500403	SINGLE
747500404	DUAL

SEE REVISION TABLE IEC NO: CPG2016-Z778 T: DRAWMACHENG03 CHYK: APPR:CHEN08 2016/01/15 2016/01/22	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) DIMENSION STYLE MM ONLY SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	DRAWN BY JERWIN DATE 2009/11/30 CHECKED BY CHIRSCY DATE 2009/12/22 APPROVED BY MAHMOOD DATE 2009/11/30	TITLE QSFP 1X1 GANGED CAGE FULLY ASSEMBLED MOLEX INCORPORATED DOCUMENT NO. SD-74750-0070 SHEET NO. 4 OF 5
	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

M

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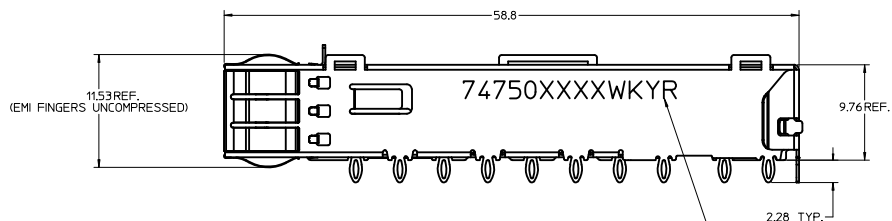
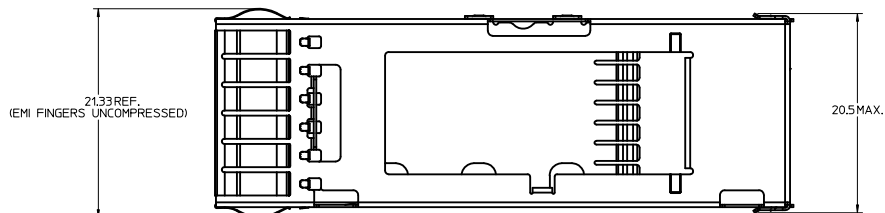
E

D

C

B

A

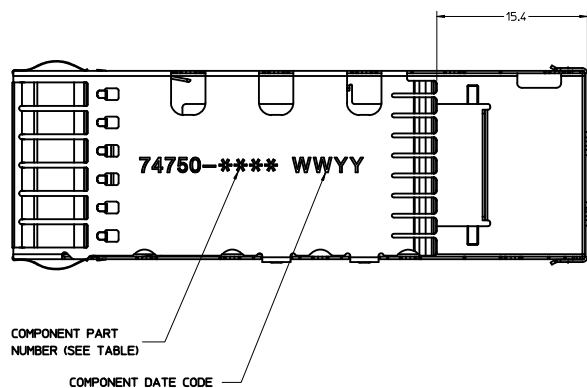


PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON SIDE OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

WEEK/YEAR DATE CODE TABLE

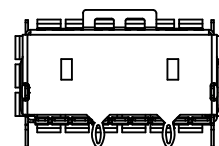
WEEK - 01 THRU 52 EXAMPLE: 01 - FIRST WEEK OF YEAR 52 - LAST WEEK OF YEAR

YEAR - 10, 11, 12 ETC. EXAMPLE: YEAR 2010 - 10

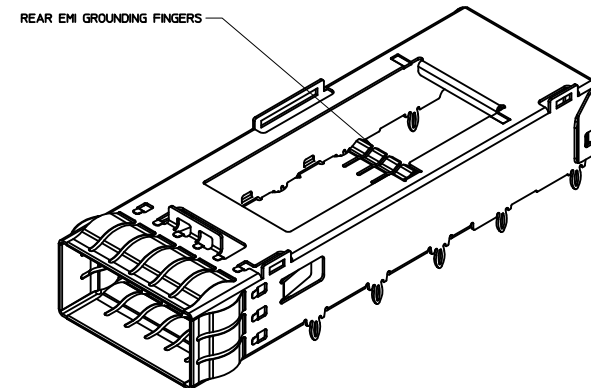


COMPONENT PART NUMBER (SEE TABLE)

COMPONENT DATE CODE



REAR PINS ARE OPTIONAL (SEE CHART)



REAR EMI GROUNDING FINGERS

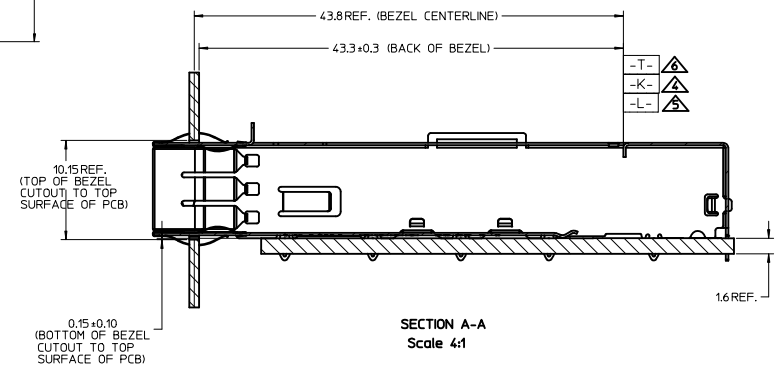
FINISHED ASSEMBLY P/N	COMPONENT P/N (CAGE)	# OF REAR LEGS	COMMENTS
747500092	747500112	2	OPEN TOP FOR HEAT SINK
747500093	747500113	0	OPEN TOP FOR HEAT SINK

NOTES:

- PRESS FIT LEGS 2.28mm [0.090"] LONG
- SINGLE SIDED BOARD THICKNESS
NOMINAL: 1.60 [0.062"]
MINIMUM: 1.44 [0.057"]
BELLY TO BELLY BOARD THICKNESS
NOMINAL: 2.30 [0.090"]
MINIMUM: 2.07 [0.081"]
- MATERIAL: COPPER ALLOY (PLATED PRIOR TO CUTTING AND FORMING)
PLATING: NICKEL
- REFERENCE DOCUMENTS:
PRODUCT SPECIFICATION: QSFP MSA
- THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC).

INITIAL RELEASE EC NO: USY2011-0437 DRAWN: JERWIN 2010/09/20 CHECKED: CHIRSCHY 2010/09/20 APPROVED: RMAHMOOD 2010/12/20	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY JERWIN	DATE 2010/09/20	TITLE QSFP CAGE ASSEMBLY W/ SPRING FINGERS			
		4 PLACES ± .005	± .005	CHECKED BY CHIRSCHY	DATE 2010/09/20	MOLEX INCORPORATED			
		3 PLACES ± .010	± .010	APPROVED BY RMAHMOOD	DATE 2010/12/20				
		ANGULAR ± 1°		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74750-0092		SHEET NO. 1 OF 4	
A	REVISION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							

THIS AREA DENOTES
COMPONENT KEEP-OUT
(TRACES ALLOWED)

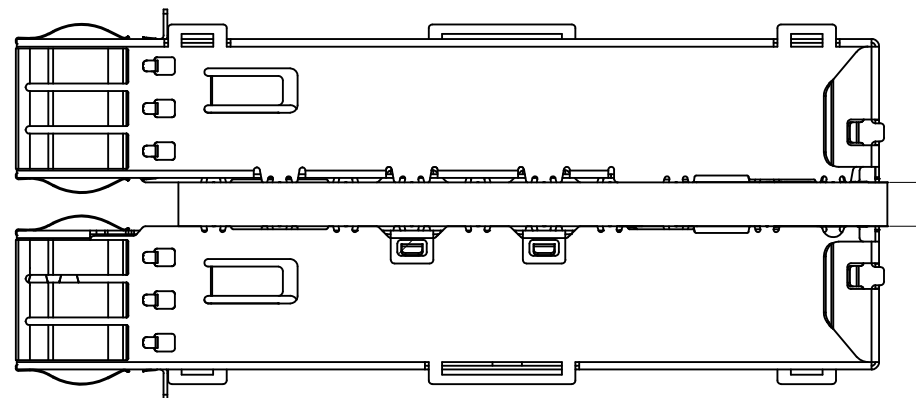
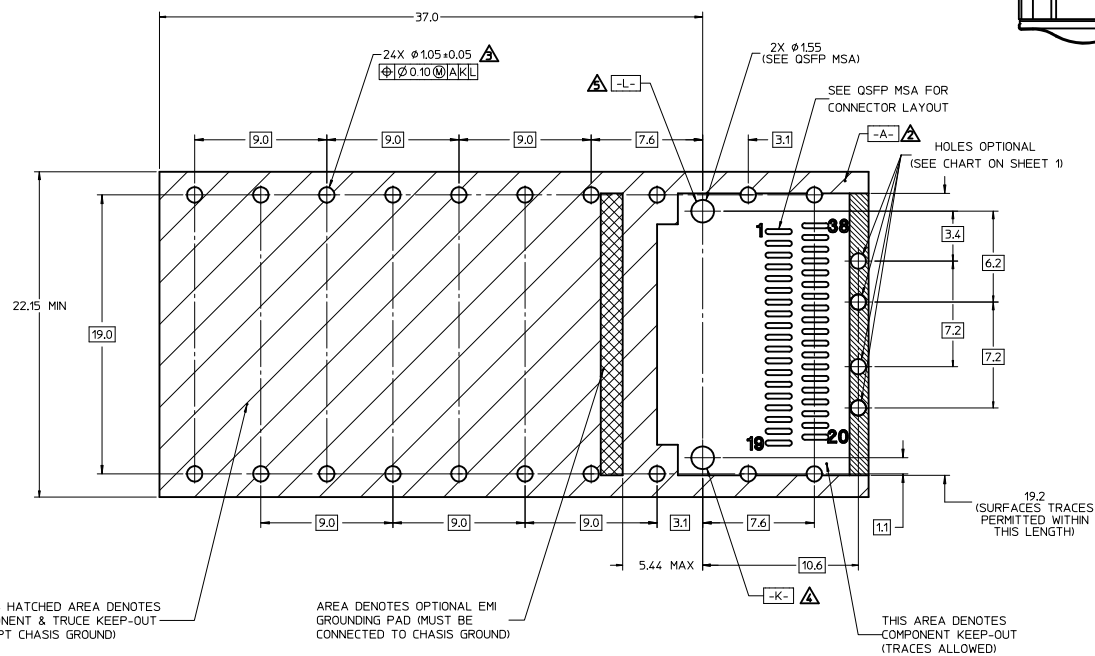


- | INITIAL RELEASE
EC NO: UST-2011-0437
DRAWN: JERWIN 2010/09/20
CHECKED: CHRISCHY 2010/09/20
APPR: RMAHMOOD 2010/12/20 | | QUALITY SYMBOLS
▴=0
▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)
<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.13</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±0.25</td> <td>±---</td> </tr> </tbody> </table> | | mm | INCH | 4 PLACES | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.13 | ±--- | 1 PLACE | ±0.25 | ±--- | DIMENSION STYLE
MM DATE
DRAWN BY JERWIN 2010/09/20
CHECKED BY CHRISCHY 2010/09/20
APPROVED BY RMAHMOOD 2010/12/20 | SCALE
1:1 | DESIGN UNITS
METRIC |  THIRD ANGLE PROJECTION | QSPF CAGE ASSEMBLY W/ SPRING FINGERS |
|---|-------|--------------------------------------|---|---|--------------------------------------|--|----------|----------------------------|------|----------|------|------|----------|-------|------|---------|-------|------|--|---------------------|-------------------------------|---|---|
| | mm | INCH | | | | | | | | | | | | | | | | | | | | | |
| 4 PLACES | ±--- | ±--- | | | | | | | | | | | | | | | | | | | | | |
| 3 PLACES | ±--- | ±--- | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ±0.13 | ±--- | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ±0.25 | ±--- | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION
A | | | ANGULAR $\pm 1^\circ$ | MOLEX INCORPORATED | MOLEX INCORPORATED | | | SHEET NO.
2 OF 4 | | | | | | | | | | | | | | | |
| REV | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO.
SEE TABLE | DOCUMENT NO.
SD-74750-0092 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | | | | | | | |

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

M L K J I H G F E D C B A

PCB LAYOUT FOR BELLY TO BELLY APPLICATIONS



NOTE:
BEZEL CUTOUT LOCATIONS FOR BELLY TO BELLY APPLICATIONS
ARE DEPENDENT ON PCB THICKNESS

2.3 REF.

NOTES:

1. SEE QSFP MSA SPECIFICATION FOR BEZEL LOCATION TOLERANCE
2. DATUM -A- IS TOP SURFACE OF HOST BOARD PER MSA
3. FINISHED HOLE SIZE (AFTER PLATING)
4. DATUM -K- IS HOST BOARD THRU HOLE #1 TO ACCEPT CONNECTOR GUIDE POST PER MSA
5. DATUM -L- IS HOST BOARD THRU HOLE #2 TO ACCEPT CONNECTOR GUIDE POST PER MSA

INITIAL RELEASE EC NO: USY2011-0437 DRAWN BY: JERWIN CHECKED BY: CHIRSCY APPROVED BY: RMAHMOOD	2010/09/20 2010/09/20 2010/12/20	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
						MM ONLY		1:1	METRIC			
						DRAWN BY		DATE	TITLE			
				4 PLACES ±		JERWIN		2010/09/20	QSPF CAGE ASSEMBLY W/ SPRING FINGERS			
				3 PLACES ±		CHECKED BY		DATE				
				2 PLACES ±		CHIRSCY		2010/09/20				
				1 PLACE ±		APPROVED BY		DATE				
				0.25 ±		RMAHMOOD		2010/12/20				
				ANGULAR ± 1°								
						MATERIAL NO.		DOCUMENT NO.				
		SEE TABLE		SD-74750-0092		SHEET NO.						
		SIZE		D		3 OF 4						
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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

[illegible]

PROPOSED EC NO.: USJ2011-0437 DRAWN: JERWIN 2010/09/20 CHK'D: CHIRSCHY 2010/09/20 APPR: RMAHOOD 2010/12/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	DESCRIPTION	$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES $\pm$ $\pm$ --- 3 PLACES $\pm$ $\pm$ --- 2 PLACES $\pm$ 0.13 $\pm$ --- 1 PLACE $\pm$ 0.25 $\pm$ --- ANGULAR $\pm$ 1°	DRAWN BY DATE JERWIN 2010/09/20 CHECKED BY DATE CHIRSCHY 2010/09/20 APPROVED BY DATE RMAHOOD 2010/12/20	TITLE QSFF CAGE ASSEMBLY W/ SPRING FINGERS			
	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74750-0092	
	A				SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 4 OF 4	
MOLEX INCORPORATED								