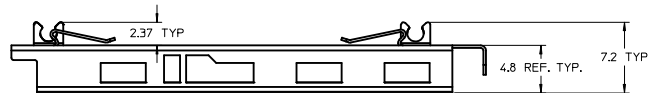
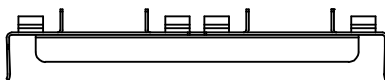
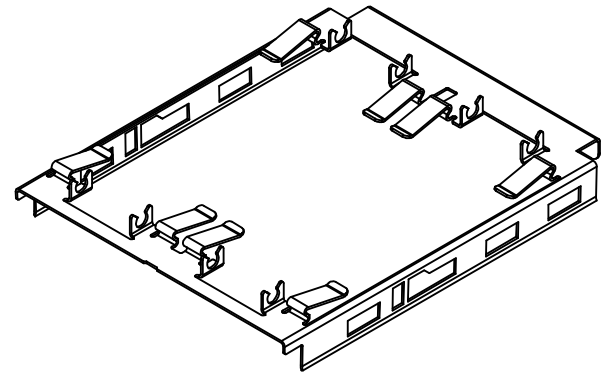
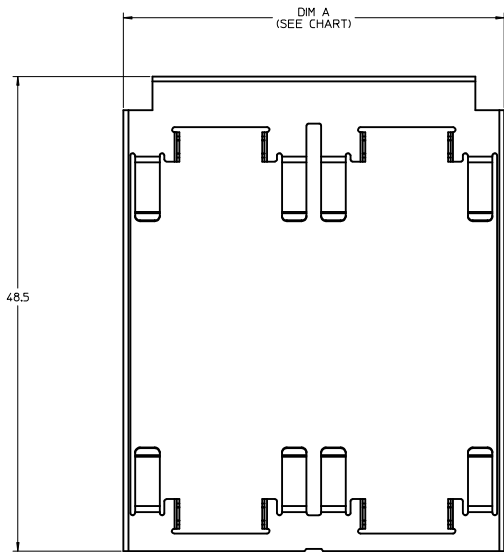


HEAT SINK CLIP W/OUT LIGHT PIPE(1X2 SHOWN)



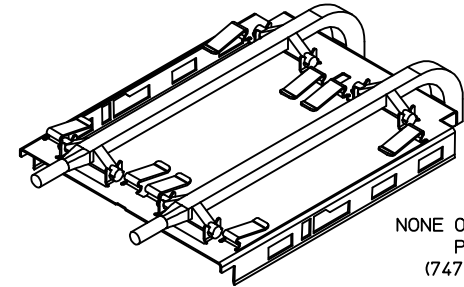
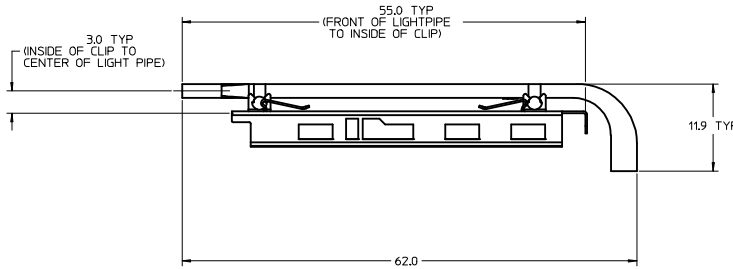
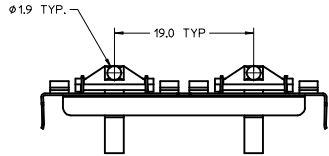
MOLEX P/N	PORT SIZE	DIM A
747830262	1x2	38.9
747830363	1x3	57.9
747830462	1x4	76.9
747830562	1x5	95.9
747830662	1x6	114.9

NOTES:

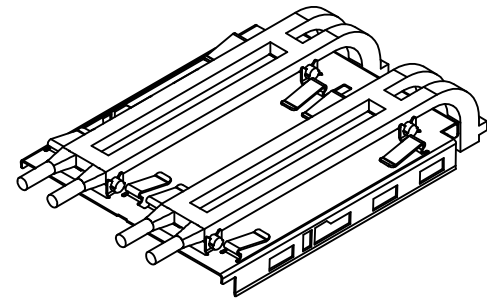
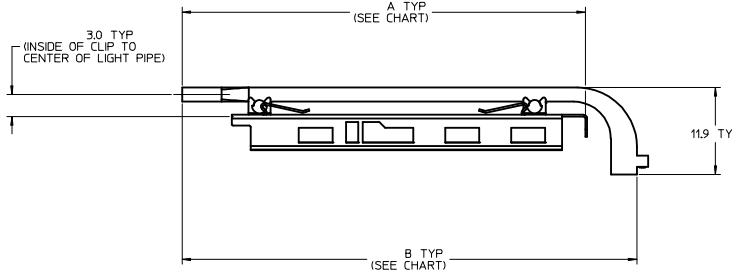
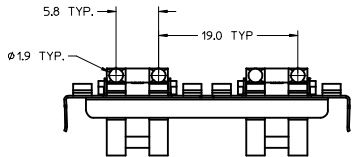
1. MATERIAL: STAINLESS STEEL
2. PACKAGING: TRAY
3. LEAD FREE, NO RoHS EXEMPTIONS.

ADDED 1X5 ASSY IEC NO: CPG2013-0096 D DRAWN/LSKANNER 2012/07/11 CHK/DAR/INE 2012/07/11 APPR:KLLOYD 2012/07/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.15 ±--- 1 PLACE ±0.25 ±--- ANGULAR ±1/2°	DRAWN BY DATE BSWA JA 2012/02/09 CHECKED BY DATE KLLOYD 2012/07/11 APPROVED BY DATE KLLOYD 2012/02/16	TITLE 1X2, 1X3, 1X4, 1X5, 1X6 QSFP+ HEAT SINKS AND CLIP ASSEMBLIES		MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74767-0400
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

# HEAT SINK CLIP W/ LIGHT PIPE (1X2 SHOWN)



NONE OR SINGLE LIGHT PIPE  
PER PORT  
(747670403 SHOWN)



DUAL LIGHT PIPES  
PER PORT  
(747670404 SHOWN)

**NOTES:**

1. MATERIALS:  
LIGHT PIPE CLIP: STAINLESS STEEL  
LIGHT PIPE: POLYCARBONATE (94-V0 RATED)
2. PACKAGE: TRAY
3. RECOMMENDED LED'S INCLUDE THE FOLLOWING MANUFACTURES:  
DIALIGHT: 597-77X1-5XX SERIES  
CHICAGO MINIATURE: 7016 SERIES  
KINGBRIGHT: APBL3025 SERIES (BICOLOR)  
APL3015 SERIES (SINGLE COLOR)
4. LEAD FREE, NO RoHS EXEMPTIONS.

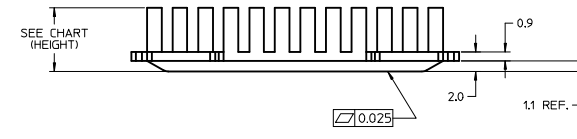
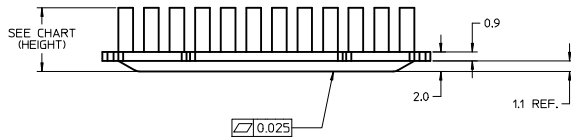
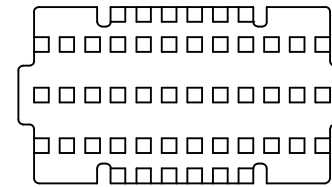
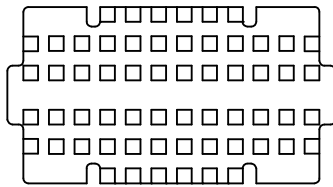
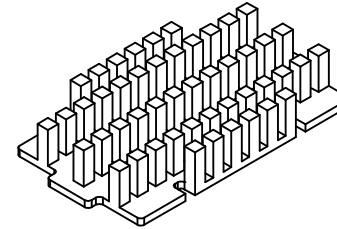
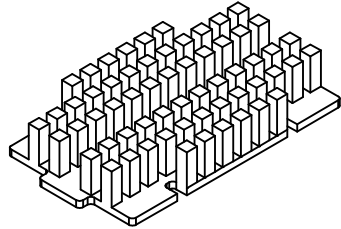
MOLEX PN (CLIP & LP ASSEMBLY)					DIM A	DIM B	LIGHT PIPES PER PORT
1x2	1x3	1x4	1x5	1x6			
747670403	747680403	747690403	747700403	747710403	55.0	62.0	NONE OR SINGLE
747670404	747680404	747690404	747700404	747710404	55.0	62.0	DUAL
747670405	N/A	N/A	N/A	N/A	53.2	63.0	

ADDED 1X5 ASSY EEC NO: CPG2013-0096 DRAWN BY: BSWAJA CHECKED BY: KLOYD APPROVED BY: KLOYD	2012/07/11 2012/07/11 2012/07/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
					MM ONLY	3:1	METRIC	
					mm	INCH		
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE	
			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
					SD-74767-0400		2 OF 4	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

NONE OR SINGLE LIGHT PIPE  
PER PORT  
(SAN HEIGHT - 747500307 SHOWN)

**HEAT SINK**

DUAL LIGHT PIPES  
PER PORT  
(SAN HEIGHT - 747500308 SHOWN)



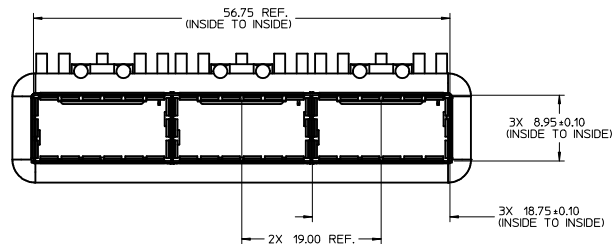
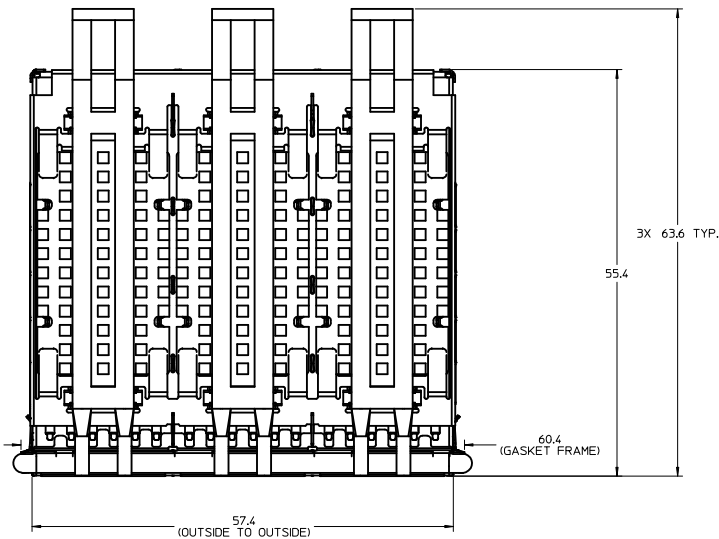
MOLEX P/N			
NONE OR SINGLE LIGHT PIPE PER PORT	DUAL LIGHT PIPES PER PORT	SYSTEM TYPE	HEIGHT (mm)
747500314	747500315	PCI	4.2
747500307	747500308	SAN	6.5
747500317	747500318	NET	13.5

NOTES:

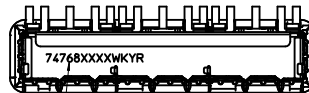
- MATERIAL:  
HEAT SINKS: BLACK ANNOXIDIZED ALUMINUM
- PACKAGE: TRAY
- CUSTOM HEATSINKS AVAILABLE UPON REQUEST.
- LEAD FREE, NO RoHS EXEMPTIONS.

ADDED 1X5 ASSY EC NO: CPG2013-0096 DRAWN BY SKINNER 2012/07/11 CHECKED BY CHYKORAIKE 2012/07/11 APPR: KLOYD 2012/07/17	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH	DRAWN BY DATE BSWA JA 2012/02/09	TITLE <b>1X2, 1X3, 1X4, 1X5, 1X6 QSFP+ HEAT SINKS AND CLIP ASSEMBLIES</b>		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHECKED BY DATE KLOYD 2012/07/11	MOLEX INCORPORATED		
		ANGULAR ±1/2°		APPROVED BY DATE KLOYD 2012/02/16	MATERIAL NO. SEE TABLE DOCUMENT NO. SD-74767-0400		
				SIZE D	SHEET NO. 3 OF 4		



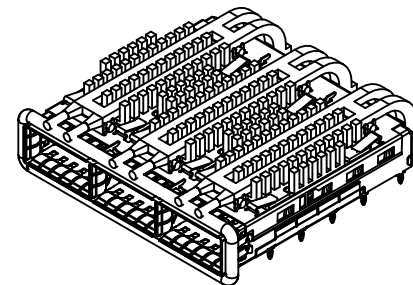


LIGHT PIPE IS REMOVED FOR CLARITY

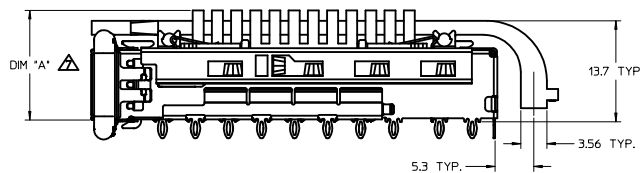


PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

WEEK/YEAR DATE CODE TABLE	
WEEK	01 THRU 52 EXAPLES: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR
YEAR	10, 11, 12 ETC. EXAMPLE: YEAR 2010 = 10



CAGE ASSEMBLY WITH SAN HEATSINK AND DUAL LIGHT PIPE



OVERALL HEATSINK HEIGHT	DIM 'A'
PCI	13.7
SAN	16.0
NET	23.0

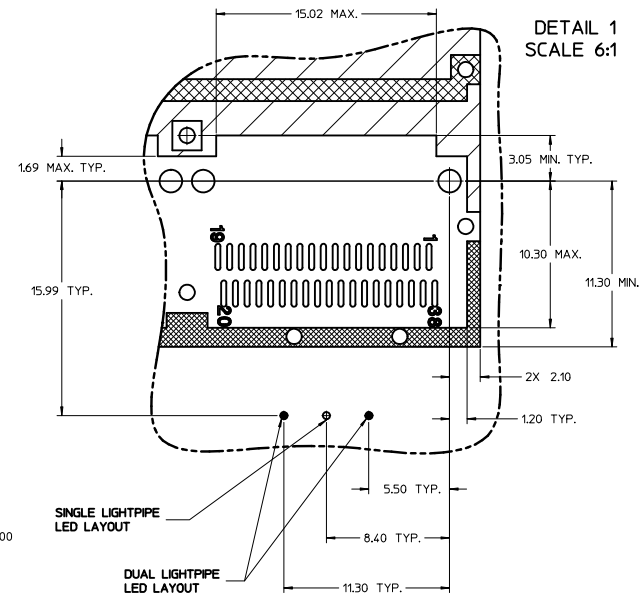
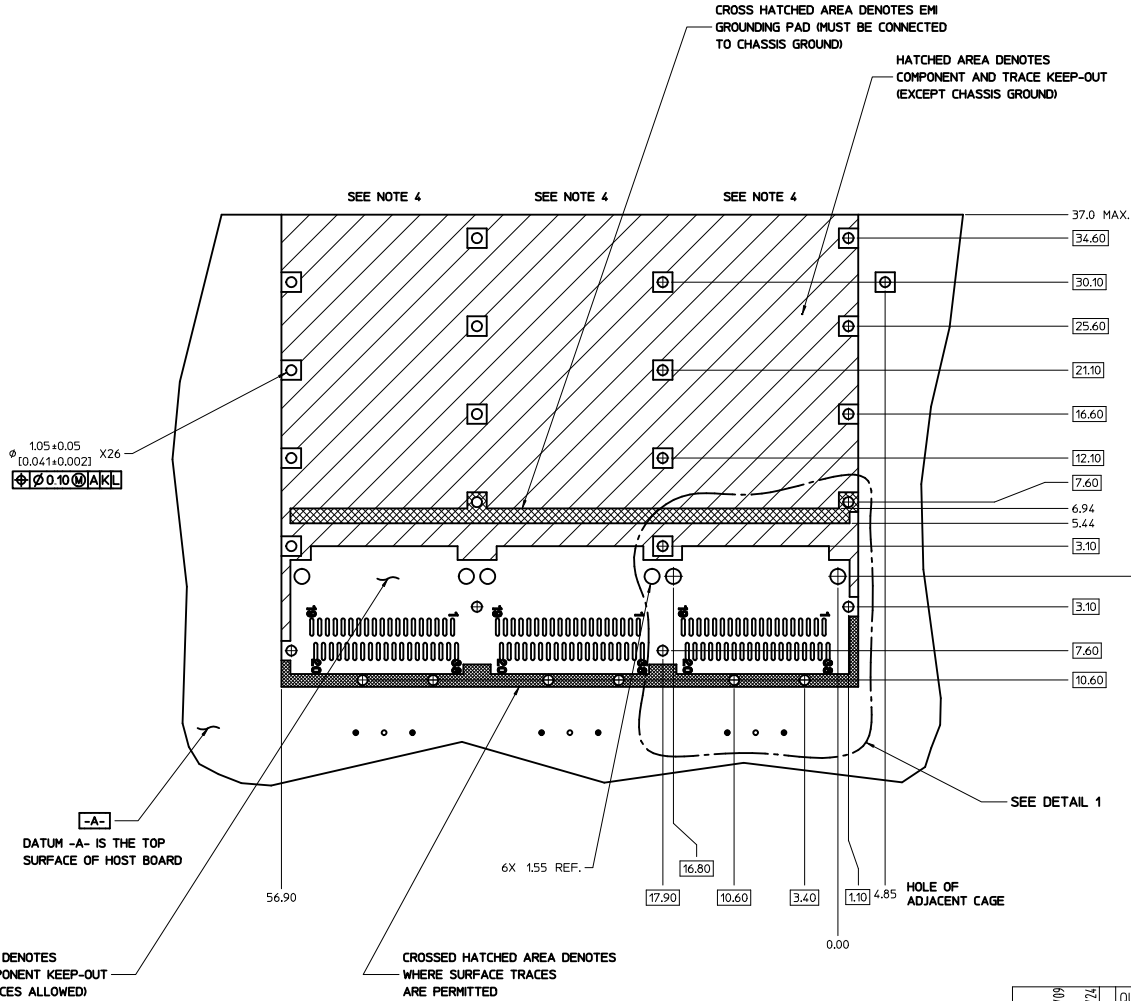
MOLEX P/N	DESCRIPTION	LP	HS	# OF REAR LEGS PER PORT
747680501	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	SAN	2
747680502	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	NET	2
747680503	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	SAN	2
747680504	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	NET	2
747680505	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	PCI	2
747680506	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	SAN	2
747680507	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	NET	2
747680511	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	PCI	2
747680601	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	SAN	0
747680602	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	NET	0
747680603	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	SAN	0
747680604	1X3 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	NET	0
747680605	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	PCI	0
747680606	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	SAN	0
747680607	1X3 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	NET	0

NOTES:

1. QSFP+ ASSEMBLES ALSO AVAILABLE AND 1X2 (74767 SERIES) AND 1X4 (74769 SERIES) CONFIGURATIONS.
  2. MATERIAL:  
COVER/CLIP: STAINLESS STEEL  
LIGHT PIPES: POLYCARBONATE (94-V0 RATED)  
HEAT SINKS: ALUMINUM  
CAGE: COPPER ALLOY
  3. FOR CAGE DETAIL, SEE MOLEX DRAWINGS SD-74768-0212
  4. PCI OPTION - NOT AVAILABLE WITH LIGHTPIPES AND HEATSINKS INSTALLED. LIGHTPIPE CLIP AND HEATSINKS MUST BE INSTALLED AFTER CAGE INSTALLATION.
  5. THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)
  6. CUSTOM HEATSINKS AVAILABLE UPON REQUEST
- ▲ HEIGHT OF HEATSINK WITH MODULE INSERTED. DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

FIX DIM PLACEMENT EC NO: CPG2012-0669 DRAWN BY: PRATT CHKD: APPR: KLOYD DATE: 2012/05/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± --- ± ---	MM ONLY	2:1	METRIC	QSF+ 1X3 GANGED CAGE FULLY ASSEMBLED  MOLEX INCORPORATED MATERIAL NO. SD-74768-0501 SHEET NO. 1 OF 4
	▽=0	3 PLACES ± --- ± ---				
	▽=0	2 PLACES ± 0.15 ± ---				
▽=0	1 PLACE ± 0.25 ± ---					
		ANGULAR ± 1°				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			

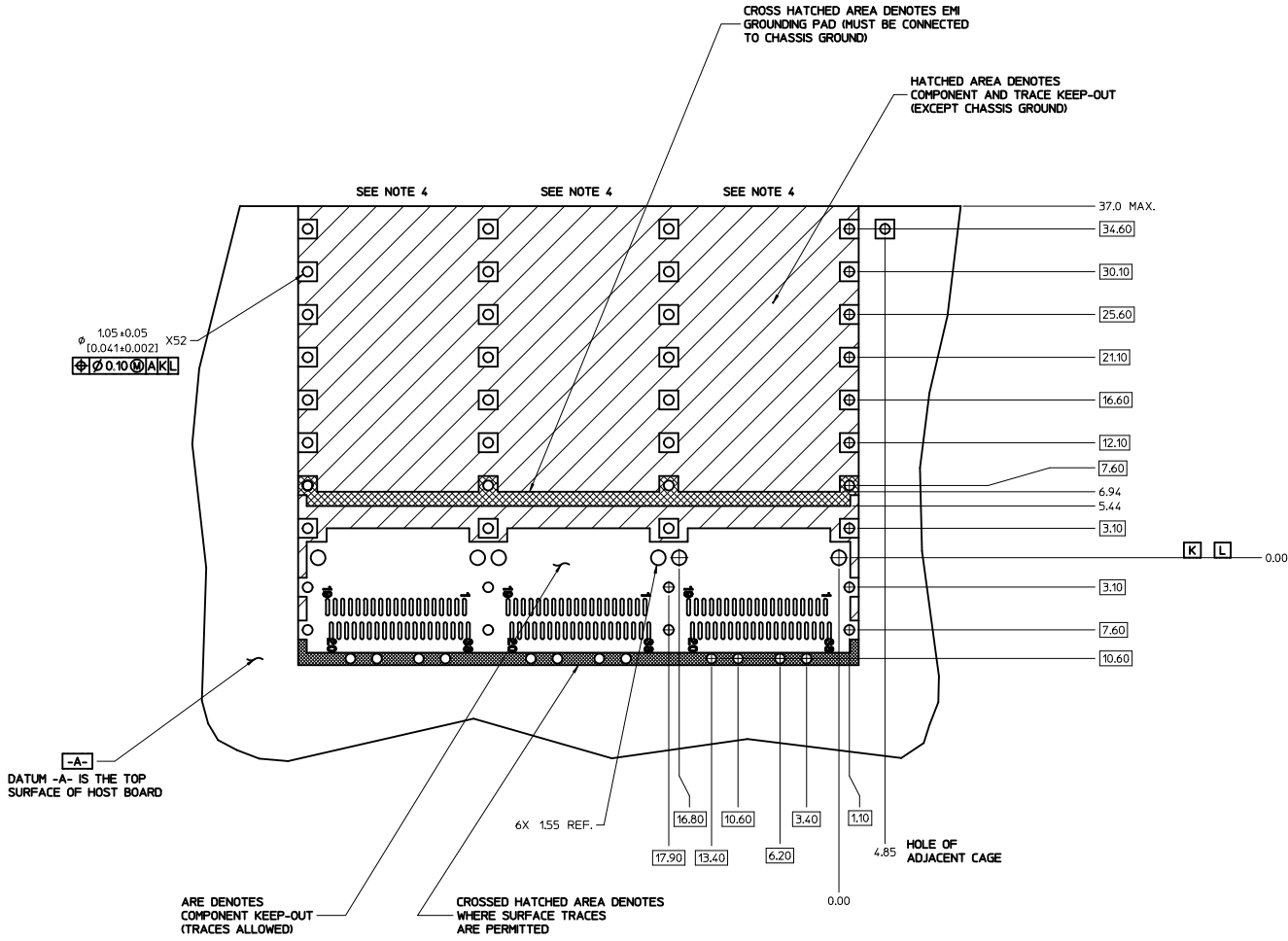
# PCB LAYOUT FOR SINGLE SIDED MOUNTING



- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
  2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
  3. CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
  4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00 [0.748].
  5. LED SHOULD BE PLACED RELATIVE TO THE QSFP CONNECTOR POST HOLES

<b>IFX DIM PLACEMENT</b> IEC NO: CPG2012-0669 DRAWN: PRATT CHKD: APPR: KLOVD DESCRIPTION: 2012/05/24	<b>QUALITY SYMBOLS</b> ∇=0 ∇=0 ∇=0		<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> <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>±0.15</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±0.25</td> <td>±---</td> </tr> </tbody> </table> ANGULAR ± 1°			mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.15	±---	1 PLACE	±0.25	±---	<b>DIMENSION STYLE</b> MM ONLY		<b>SCALE</b> 4:1		<b>DESIGN UNITS</b> METRIC		THIRD ANGLE PROJECTION	
		mm	INCH																								
	4 PLACES	±---	±---																								
	3 PLACES	±---	±---																								
2 PLACES	±0.15	±---																									
1 PLACE	±0.25	±---																									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE		DATE 2011/05/11		DATE 2011/05/11		TITLE QSFP+ 1X3 GANGED CAGE FULLY ASSEMBLED																		
APPROVED BY			DATE			MOLEX INCORPORATED			SHEET NO. 2 OF 4																		
DOCUMENT NO. SD-74768-0501			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

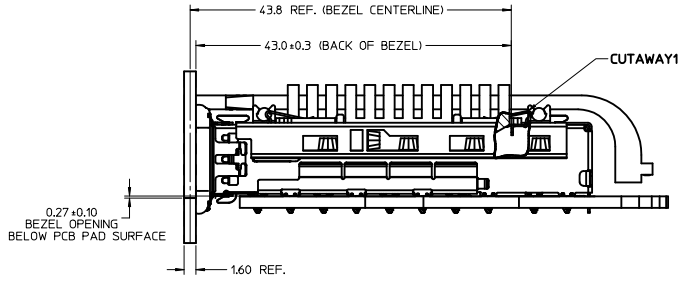


NOTE:  
SEE SHEET 2 FOR  
HOST CONNECTOR AND  
LED LOCATION DETAILS

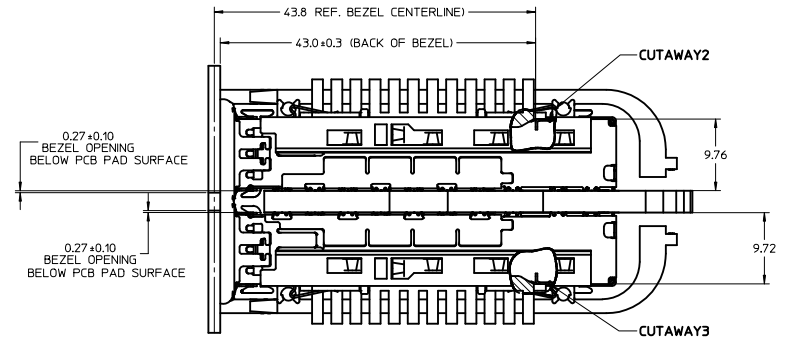
- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
  2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
  3. CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
  4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00 [0.748].

<b>IFX DIM PLACEMENT</b> EC NO: CPG2012-0669 DRAWN: PRATT CHYK: APPR: K LLOYD 2012/02/09 2012/05/24	QUALITY SYMBOLS ∇=0 ∇=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>±0.15</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±0.25</td> <td>±---</td> </tr> </tbody> </table> ANGULAR ± 1°		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.15	±---	1 PLACE	±0.25	±---	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH																		
	4 PLACES	±---	±---																		
	3 PLACES	±---	±---																		
2 PLACES	±0.15	±---																			
1 PLACE	±0.25	±---																			
DRAWN BY JERWIN	DATE 2011/05/11	CHECKED BY CHIRSCHY	DATE 2011/05/11	APPROVED BY DATE	TITLE <b>QSFP+ 1X3 GANGED CAGE FULLY ASSEMBLED</b>	MOLEX INCORPORATED															
MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SD-74768-0501</b>	SHEET NO. <b>3 OF 4</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		

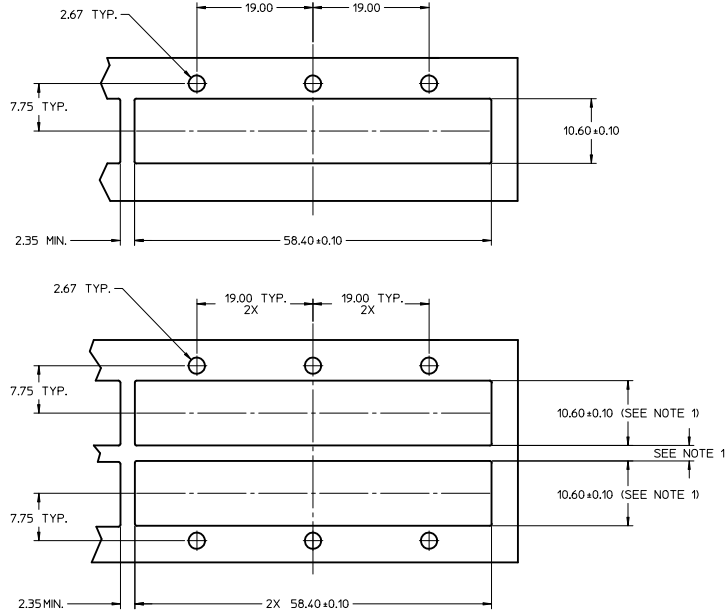
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



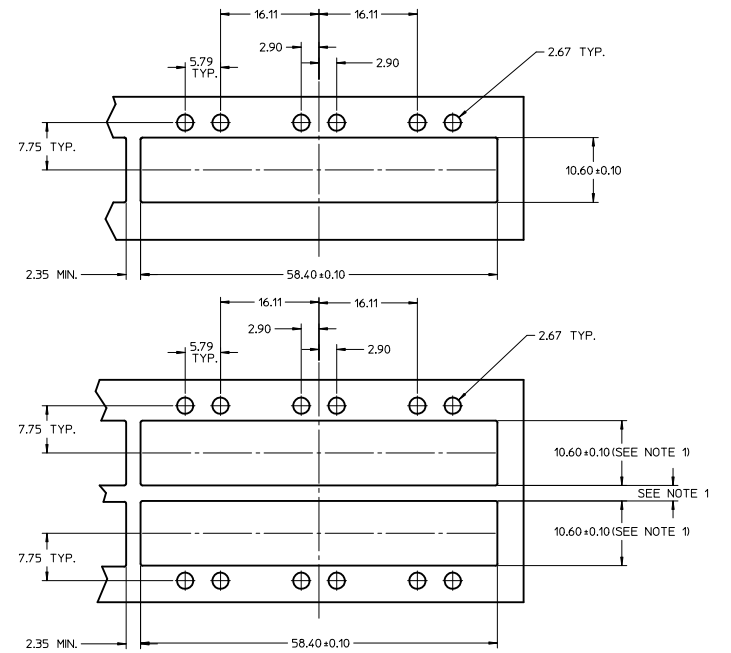
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



SINGLE LIGHT PIPE



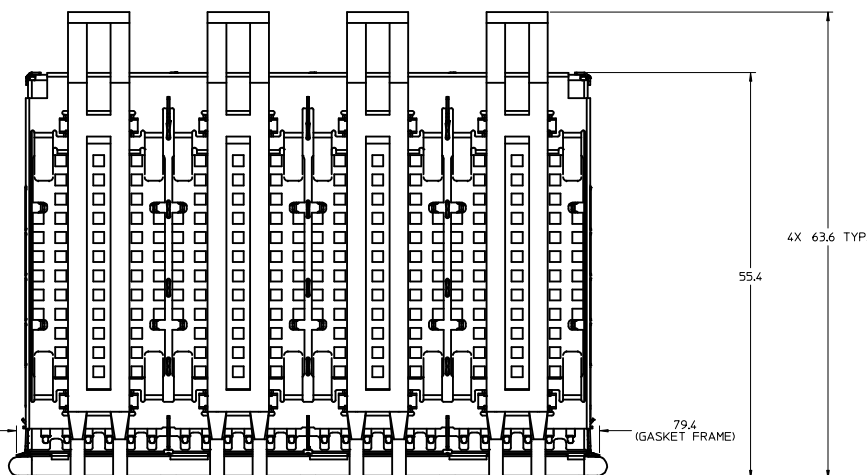
DUAL LIGHT PIPE



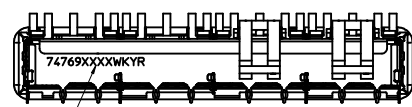
NOTES:  
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE, AND LOCATION

<b>FIX DIM PLACEMENT</b> EC NO: CPG2012-0669 DRWN: PRATT CHKD: APPR: LLOYD	2012/02/09 2012/05/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ±--- mm 3 PLACES ±--- INCH 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 2011/05/11	CHECKED BY CHIRSCHY	DATE 2011/05/11	APPROVED BY DATE	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74768-0501	TITLE QSFP+ 1X3 GANGED CAGE FULLY ASSEMBLED
	MOLEX INCORPORATED		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		
	SHEET NO. 4 OF 4							



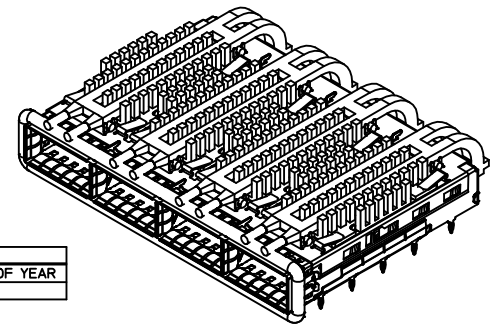


LIGHT PIPE IS REMOVED FOR CLARITY

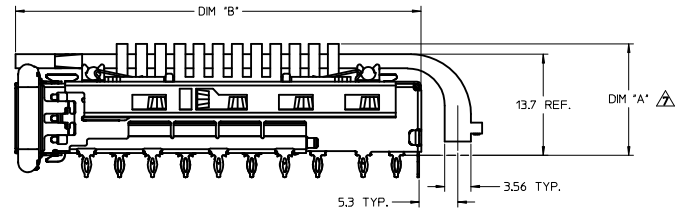
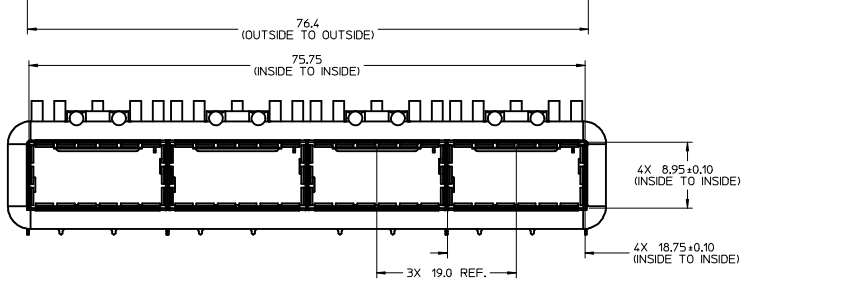


PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

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



CAGE ASSEMBLY WITH SAN HEATSINK AND DUAL LIGHT PIPE



OVERALL HEATSINK HEIGHT	DIM "A"
PCI	13.7
SAN	16.0
NET	23.0

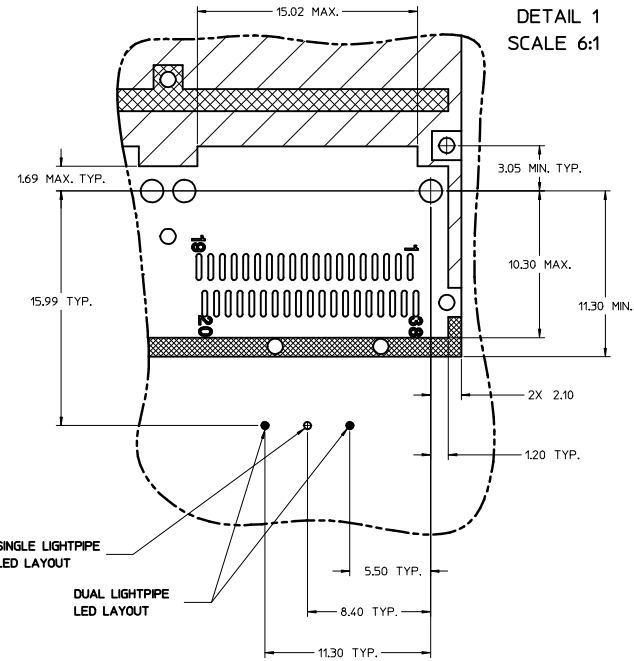
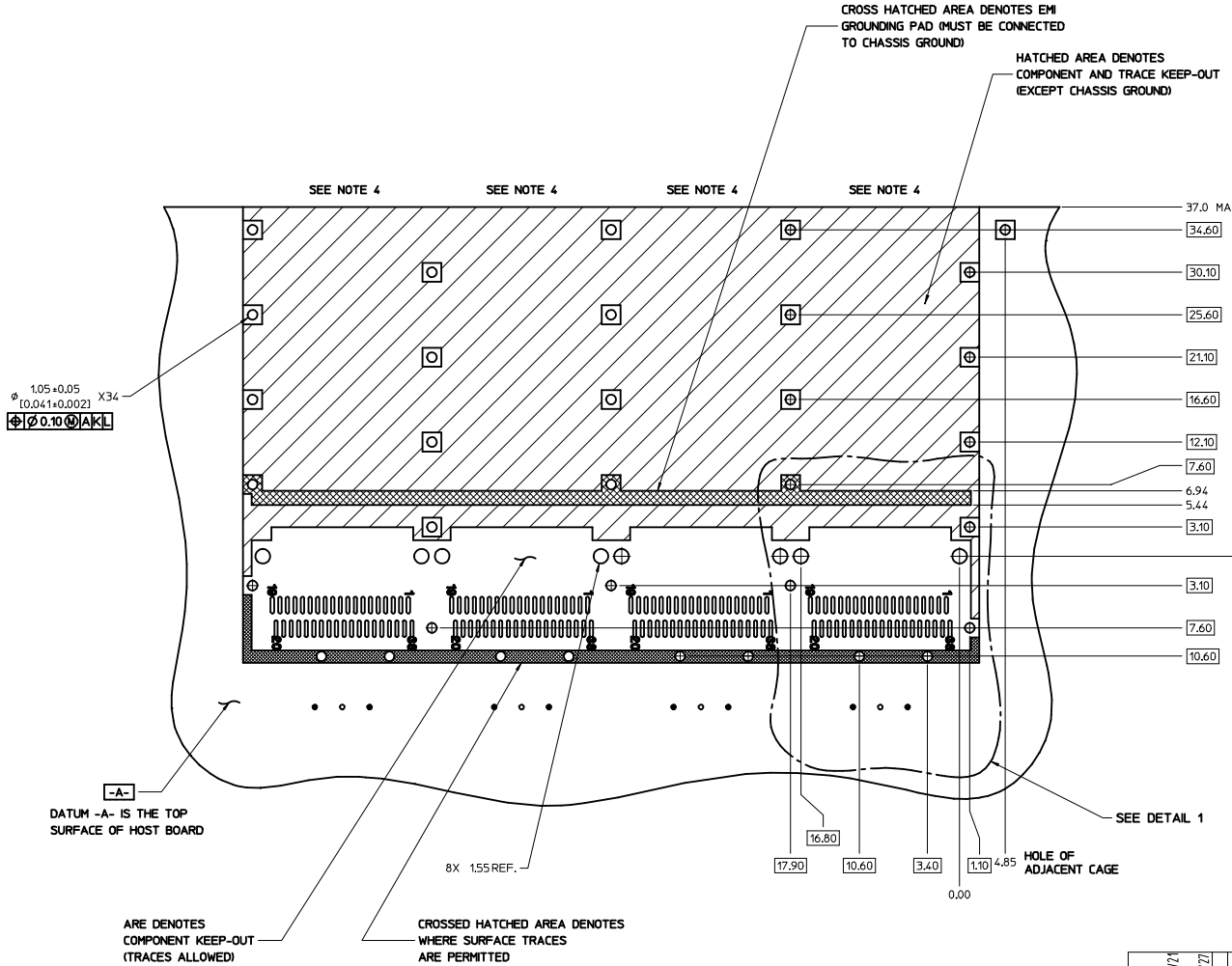
NOTES:

- QSFP+ ASSEMBLES ALSO AVAILABLE AND 1X3 (74768 SERIES) AND 1X2 (74767 SERIES) CONFIGURATIONS.
- MATERIAL:  
COVER/CLIP: STAINLESS STEEL  
LIGHT PIPES: POLYCARBONATE (94-V0 RATED)  
HEAT SINKS: ALUMINUM  
CAGE: COPPER ALLOY
- FOR CAGE DETAIL, SEE MOLEX DRAWINGS SD-74769-0212
- PCI OPTION - NOT AVAILABLE WITH LIGHTPIPES AND HEATSINKS INSTALLED. LIGHTPIPE CLIP AND HEATSINKS MUST BE INSTALLED AFTER CAGE INSTALLATION.
- THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC)
- CUSTOM HEATSINKS AVAILABLE UPON REQUEST
- HEIGHT OF HEATSINK WITH MODULE INSERTED. DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

MOLEX P/N	DESCRIPTION	LP	HS	# OF REAR LEGS PER PORT	DIM 'B'
747690501	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	SAN	2	55.2
747690502	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	NET	2	
747690503	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	SAN	2	
747690504	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	NET	2	
747690505	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	PCI	2	
747690506	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	SAN	2	
747690507	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	NET	2	
747690511	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	PCI	2	
747690514	1X4 QSFP+ CAGE W/ HEATSINK FOR DUAL LIGHTPIPE	N/A	PCI	2	
747690515	1X4 QSFP+ CAGE W/ HEATSINK & SHORT LIGHTPIPE ASSEMBLY	DUAL	SAN	2	
747690601	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	SAN	0	55.2
747690602	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	SINGLE	NET	0	
747690603	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	SAN	0	
747690604	1X4 QSFP+ CAGE W/ HEATSINK & LIGHTPIPE ASSEMBLY	DUAL	NET	0	
747690605	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	PCI	0	
747690606	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	SAN	0	
747690607	1X4 QSFP+ CAGE W/ HEATSINK ASSEMBLY	N/A	NET	0	

SEE REVISION TABLE EC NO: CPG2013-1335 DRAWN: WANG67 CHKD: APPR: KLOYD 2012/11/27	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		4 PLACES ± ---	MM ONLY	2:1	METRIC	☉
		3 PLACES ± ---				
		2 PLACES ± 0.15				
		1 PLACE ± 0.25				
		ANGULAR ± 1°				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: JERWIN DATE: 2011/05/03 CHECKED BY: CHIRSCHY DATE: 2011/05/03 APPROVED BY: RMAHOOD DATE: 2011/06/10		TITLE: QSFP+ 1X4 GANGED CAGE FULLY ASSEMBLED MATERIAL NO. SEE TABLE DOCUMENT NO. SD-74769-0501	
			MOLEX INCORPORATED MOLEX INCORPORATED		SHEET NO. 1 OF 5	

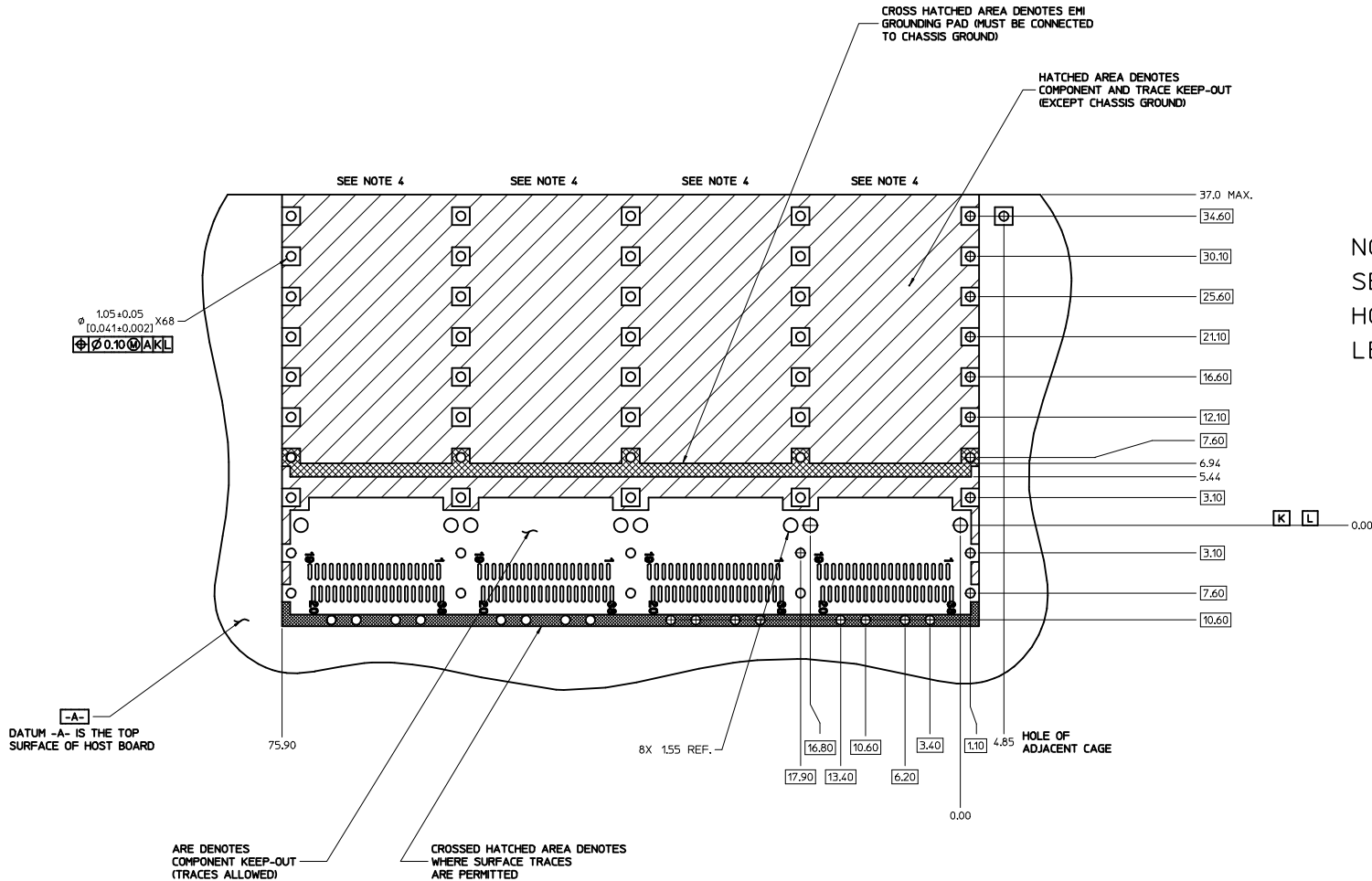
# PCB LAYOUT FOR SINGLE SIDED MOUNTING



- NOTES:**
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
  2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
  3. CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
  4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00 [0.748].
  5. LED SHOULD BE PLACED RELATIVE TO THE QSFP CONNECTOR POST HOLES

<b>SEE REVISION TABLE</b> IEC NO: CPG2013-1335 CHYK: APPR: K LLOYD 2012/11/27 2012/11/27	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE	
	▽=0	3 PLACES ± --- ± ---	JERWIN	2011/05/03	QSFP+ 1X4 GANGED CAGE FULLY ASSEMBLED	
		2 PLACES ± 0.15 ± ---	CHECKED BY	DATE		
		1 PLACE ± 0.25 ± ---	CHIRSCHY	2011/05/03		
		ANGULAR ± 1 °	APPROVED BY	DATE		
			RAHMOOD	2011/06/10		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	WATERL NO.	DOCUMENT NO.		
			SEE TABLE	SD-74769-0501		
			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

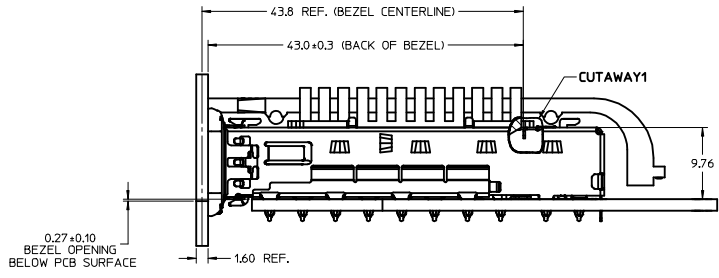


NOTE:  
SEE SHEET 2 FOR  
HOST CONNECTOR AND  
LED LOCATION DETAILS

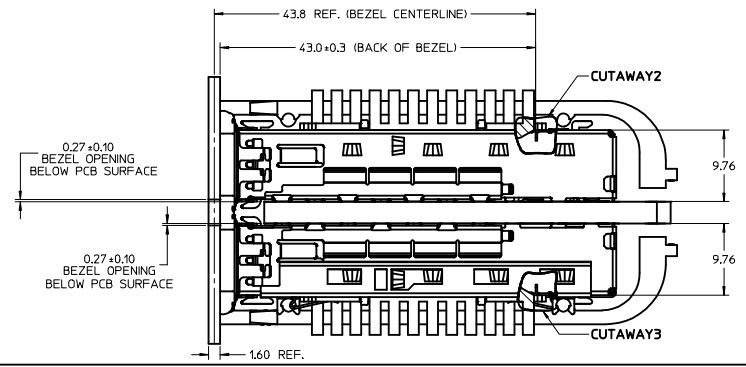
- NOTES:
1. PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
  2. RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
  3. CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
  4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 19.00 [0.748].

<b>SEE REVISION TABLE</b> EIC NO: EPG2013-1335 2012/11/21 CHKD: DRWNS/WANG67 APPR: K.LLOYD	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±0.15</td> <td>±0.005</td> </tr> <tr> <td>3 PLACES</td> <td>±0.25</td> <td>±0.010</td> </tr> <tr> <td>2 PLACES</td> <td>±0.38</td> <td>±0.015</td> </tr> <tr> <td>1 PLACE</td> <td>±0.51</td> <td>±0.020</td> </tr> </table> ANGULAR ± 1°		mm	INCH	4 PLACES	±0.15	±0.005	3 PLACES	±0.25	±0.010	2 PLACES	±0.38	±0.015	1 PLACE	±0.51	±0.020	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH																		
	4 PLACES	±0.15	±0.005																		
	3 PLACES	±0.25	±0.010																		
2 PLACES	±0.38	±0.015																			
1 PLACE	±0.51	±0.020																			
DRAWN BY JERWIN DATE 2011/05/03	CHECKED BY CHIRSCHY DATE 2011/05/03	APPROVED BY RMAHMOOD DATE 2011/06/10	MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SD-74769-0501</b>	TITLE <b>QSFP+ 1X4 GANGED CAGE FULLY ASSEMBLED</b>	SHEET NO. <b>3 OF 5</b>															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																					
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					

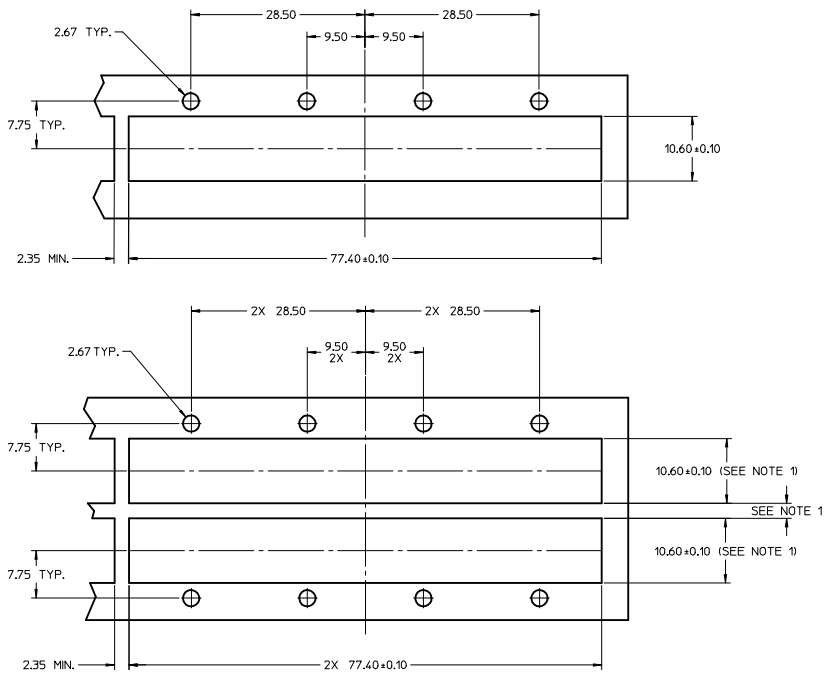
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



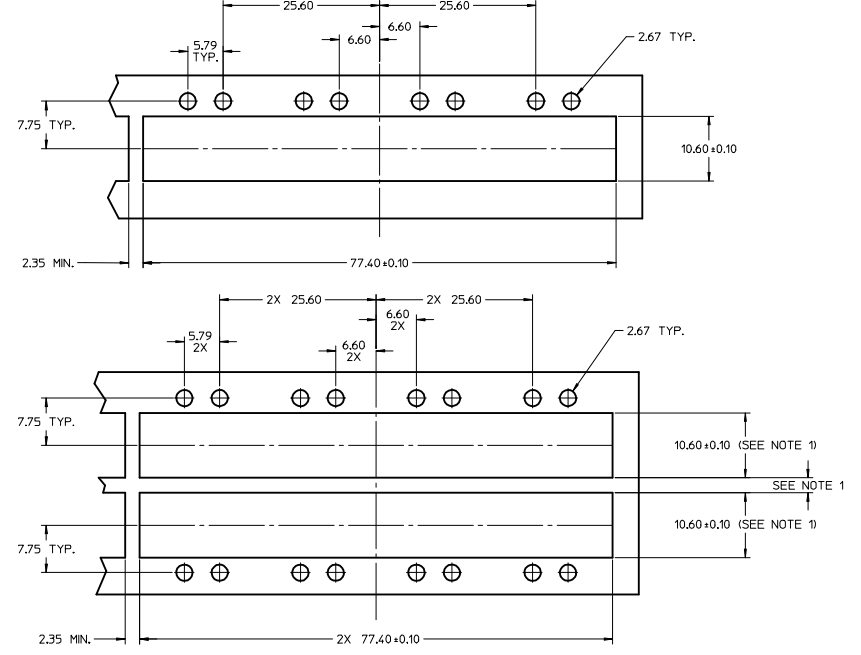
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



SINGLE LIGHT PIPE



DUAL LIGHT PIPE



NOTES:  
1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE, AND LOCATION

SEE REVISION TABLE EIC NO: CPG2013-1335 DRWNG: WANG67 CHKD: APPR: KLOYD 2012/11/21 2012/11/27	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY	2.5:1	METRIC	☉
	▽=0	3 PLACES ± ± ±				
	▽=0	1 PLACE ± 0.25 ±				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1°	DRAWN BY JERWIN DATE 2011/05/03	TITLE QSFP+ 1X4 GANGED CAGE FULLY ASSEMBLED		
			CHECKED BY CHRISCHY DATE 2011/05/03	MATERIAL NO. SD-74769-0501		
			APPROVED BY RAHMOOD DATE 2011/06/10	MOLEX INCORPORATED		
				DOCUMENT NO. SD-74769-0501		
				SHEET NO. 4 OF 5		
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

