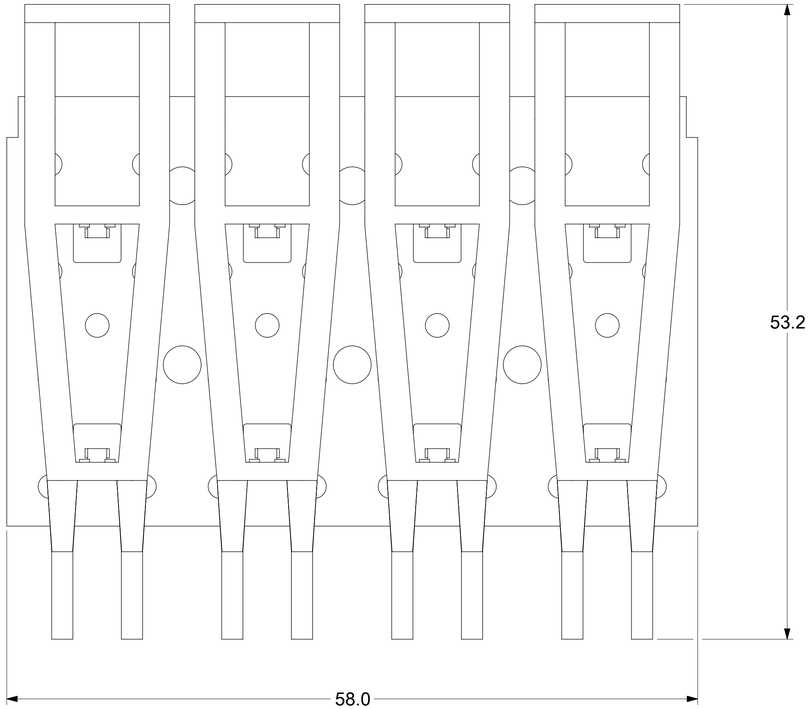
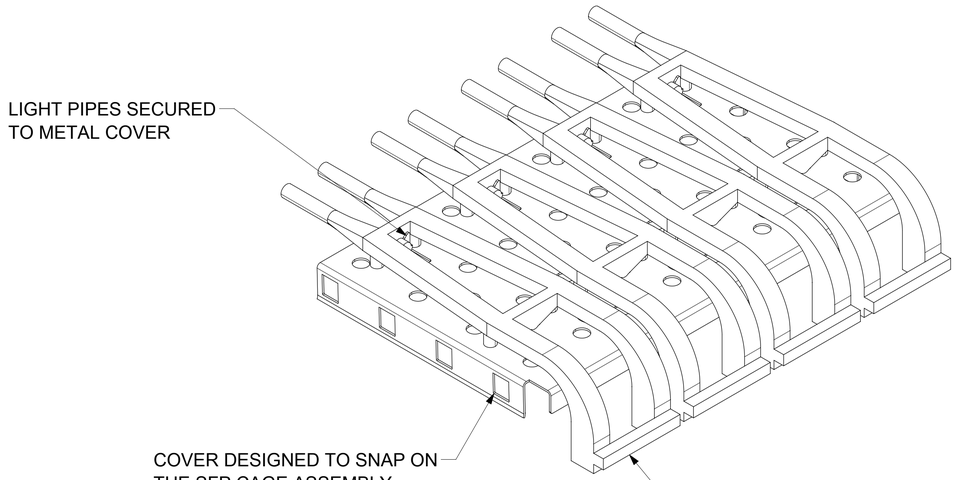
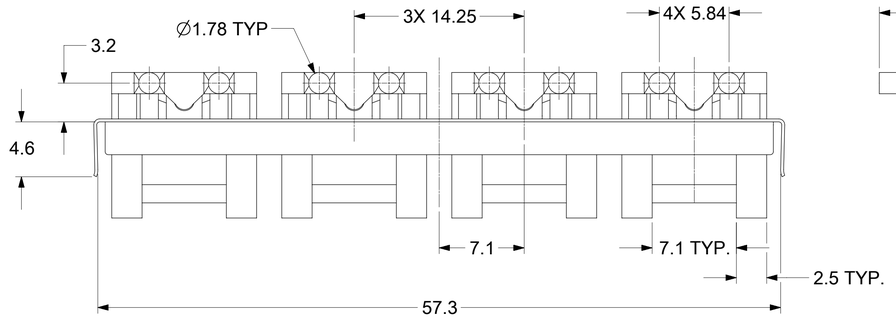
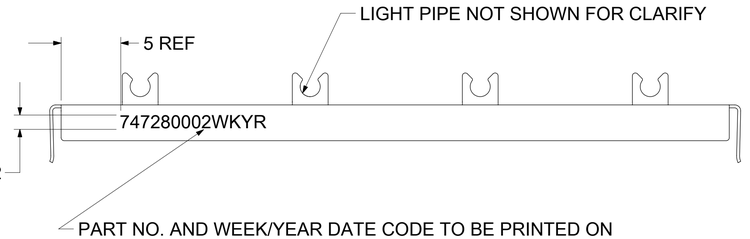
MM 3D MODEL:747280002 PSM ASY











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

WEEK/YEAR DATE CODE TABLE	
WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	19,20,21,,ETC (EXAMPLE: YEAR 2019= 19)

NOTES:
1. THIS LIGHT PIPE ASSEMBLY TO BE USED WITH SERIES 74728, 1X4 CAGES.
2. IT IS RECOMMENDED THAT THE CAGE ASSEMBLY BE PRESSED INTO OR SOLDERED TO THE PCB PRIOR TO ASSEMBLING THE LIGHT PIPE ASSEMBLY.
3. LED'S TO HAVE A MAXIMUM HEIGHT OF 1.4mm AND A MINIMUM HEIGHT OF 0.7mm
4. RECOMMENDED LED'S INCLUDE THE FOLLOWING MANUFACTURES:
   DIALIGHT: 597-77x1-5xx SERIES
   CHICAGO MINIATURE: 7016 SERIES
   KINGBRIGHT: APBL3025 SERIES (BICOLOR)
   APL3015 SERIES (SINGLE COLOR)
5. NO RoHS EXEMPTIONS.
6. DISCOLORATION IS NOT ALLOWED.

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/06 08:41:03

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

SYMBOLS: A = 0, C = 0, B = 0, S = 0, ▼ = 0, C = 0, ☒ = 0, ■ = 0, ▽ = 0

DIMENSION UNITS: mm
SCALE: 4:1
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

CURRENT REV DESC: SEE REVISION TABLE

EC NO: 618645
DRWN: JYEN01 2019/06/06
CHK'D: JCHIANG 2019/06/06
APPR: JCHIANG 2019/06/06
INITIAL REVISION:
DRWN: PMAHADEVAPPA 2018/12/18
APPR: RCHEN08 2019/01/15

THIRD ANGLE PROJECTION
DRAWING: D-SIZE
SERIES: 74728
MATERIAL NUMBER: 747280002
CUSTOMER:
SHEET NUMBER: 1 OF 5

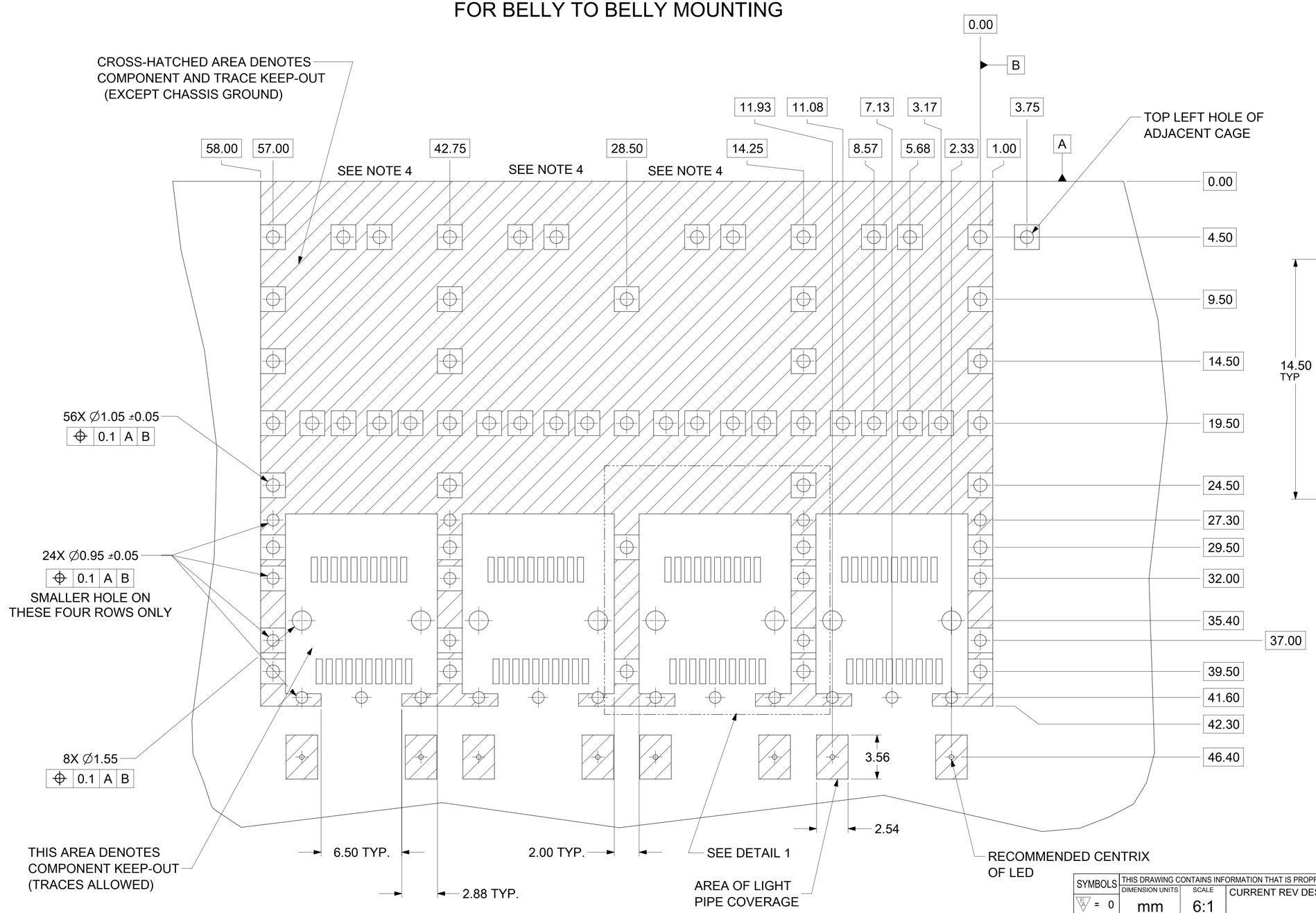
molex

1X4 SFP LIGHT PIPE
COVER ASSEMBLY, LOW PROFILE

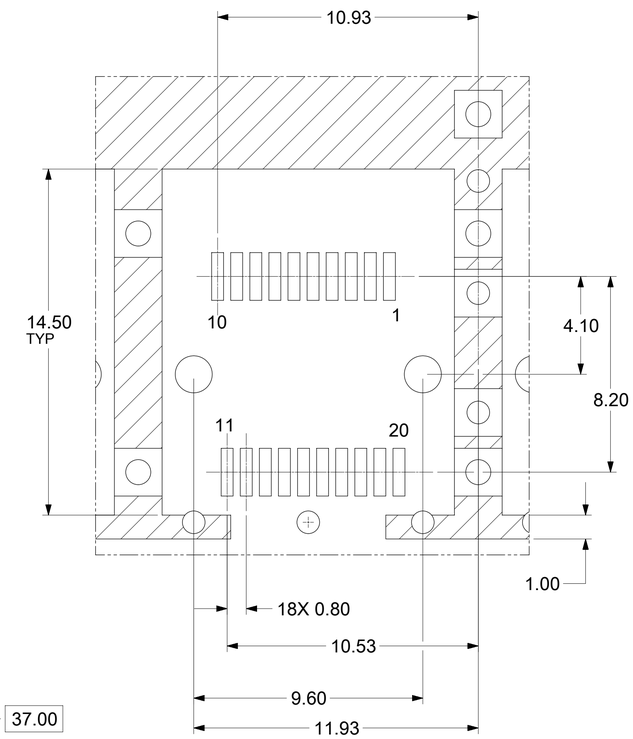
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
747280002	PSD	ASY	B1

PCB LAYOUT
FOR BELLY TO BELLY MOUNTING



HOST CONNECTOR DETAIL



DETAIL 1
SCALE 8:1

NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND, (64 PLACES). RECOMMENDED PADS TO BE 2mm SQUARE.
2. PLATING OPTIONAL FOR THROUGH HOLES, (16 PLACES).
3. RECOMMENDED PLATING INCLUDES HASL, IMMERSION (GOLD OR SILVER), AND OSP.
4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25.

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/06 08:41:03

SYMBOLS	
A = 0	
E = 0	
B = 0	
S = 0	
= 0	
C = 0	
= 0	
= 0	

DIMENSION UNITS	SCALE
mm	6:1
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

CURRENT REV DESC: SEE REVISION TABLE

EC NO: 618645
DRWN: JYEN01 2019/06/06
CHK'D: JCHIANG 2019/06/06
APPR: JCHIANG 2019/06/06

INITIAL REVISION:
DRWN: PMAHADEVAPPA 2018/12/18
APPR: RCHEN08 2019/01/15

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74728 | MATERIAL NUMBER: 747280002 | CUSTOMER | SHEET NUMBER: 2 OF 5

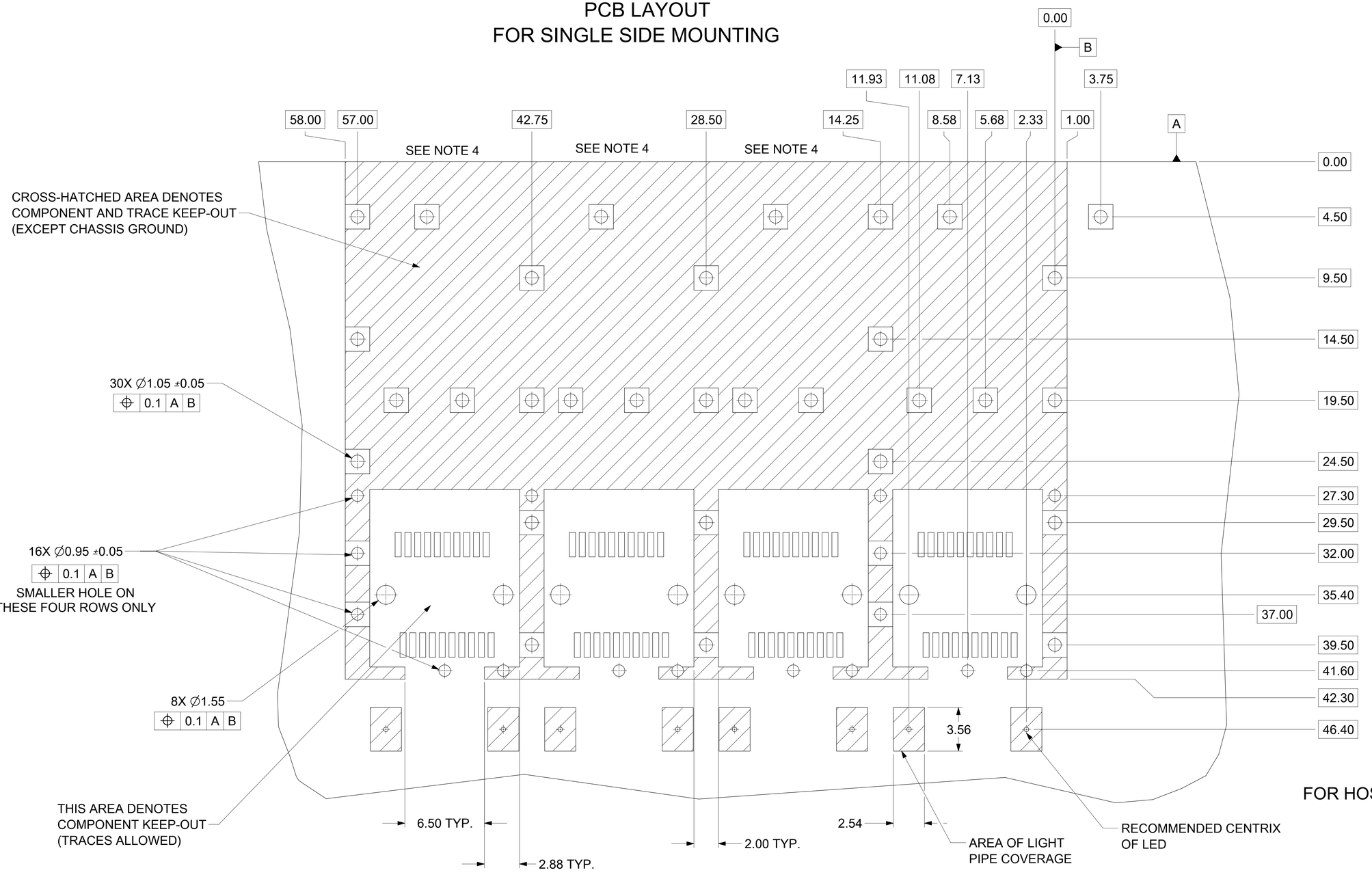
molex

1X4 SFP LIGHT PIPE
COVER ASSEMBLY, LOW PROFILE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
747280002	PSD	ASY	B1

PCB LAYOUT
FOR SINGLE SIDE MOUNTING



SEE SHEET 2
FOR HOST CONNECTOR DETAIL

NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND, (34 PLACES). RECOMMENDED PADS TO BE 2mm SQUARE.
2. PLATING OPTIONAL FOR THROUGH HOLES, (12 PLACES).
3. RECOMMENDED PLATING INCLUDES HASL, IMMERSION (GOLD OR SILVER), AND OSP.
4. HOLE PATTERN REPEATS FOR EACH PORT, SPACING BETWEEN PORTS IS 14.25.

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/06 08:41:03

SYMBOLS	
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FC	= 0
FD	= 0
S	= 0
	= 0
C	= 0
	= 0
	= 0
V	= 0

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

DIMENSION UNITS	SCALE
mm	6:1

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

CURRENT REV DESC: SEE REVISION TABLE

EC NO: 618645
DRWN: JYEN01 2019/06/06
CHK'D: JCHIANG 2019/06/06
APPR: JCHIANG 2019/06/06

INITIAL REVISION:
DRWN: PMAHADEVAPPA 2018/12/18
APPR: RCHEN08 2019/01/15

molex

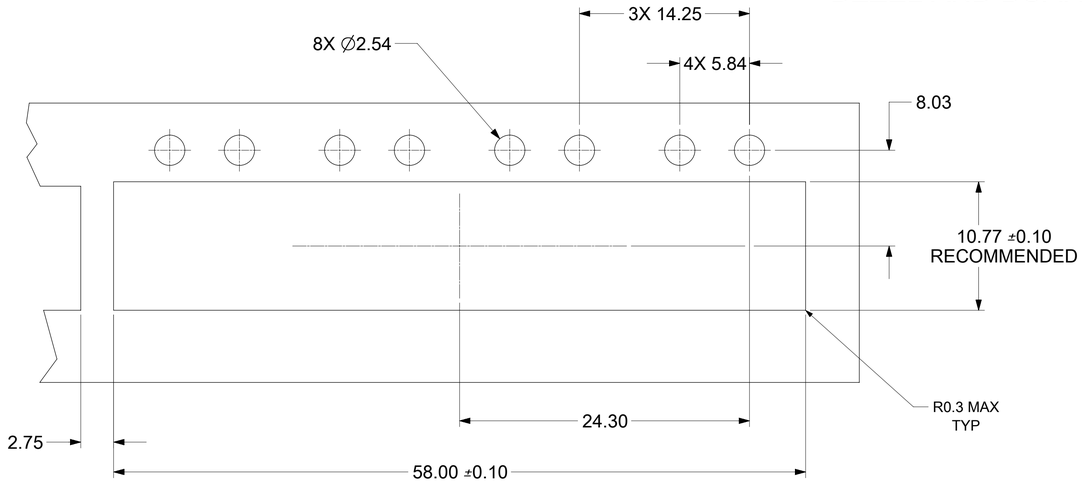
1X4 SFP LIGHT PIPE
COVER ASSEMBLY, LOW PROFILE

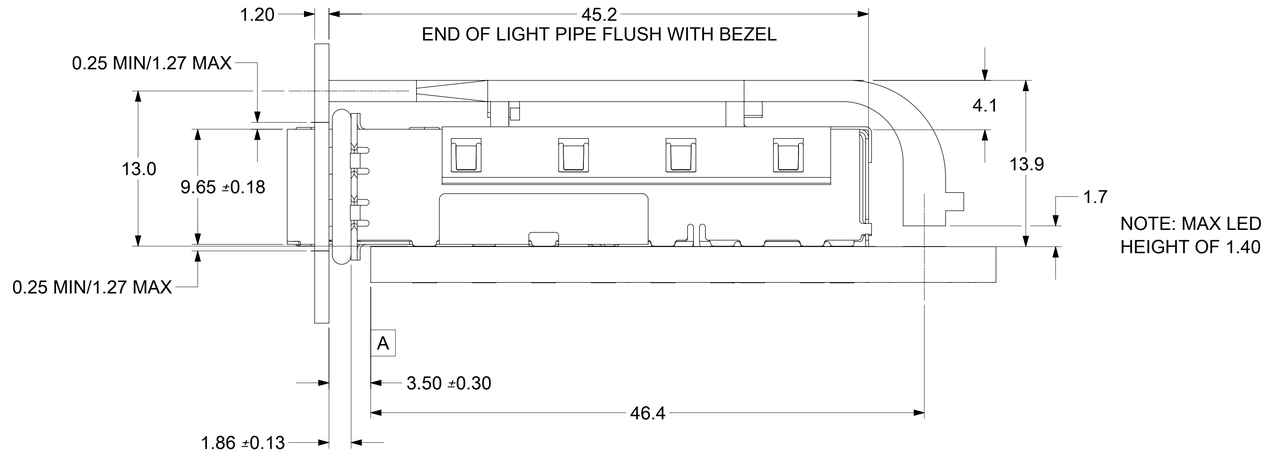
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
747280002	PSD	ASY	B1

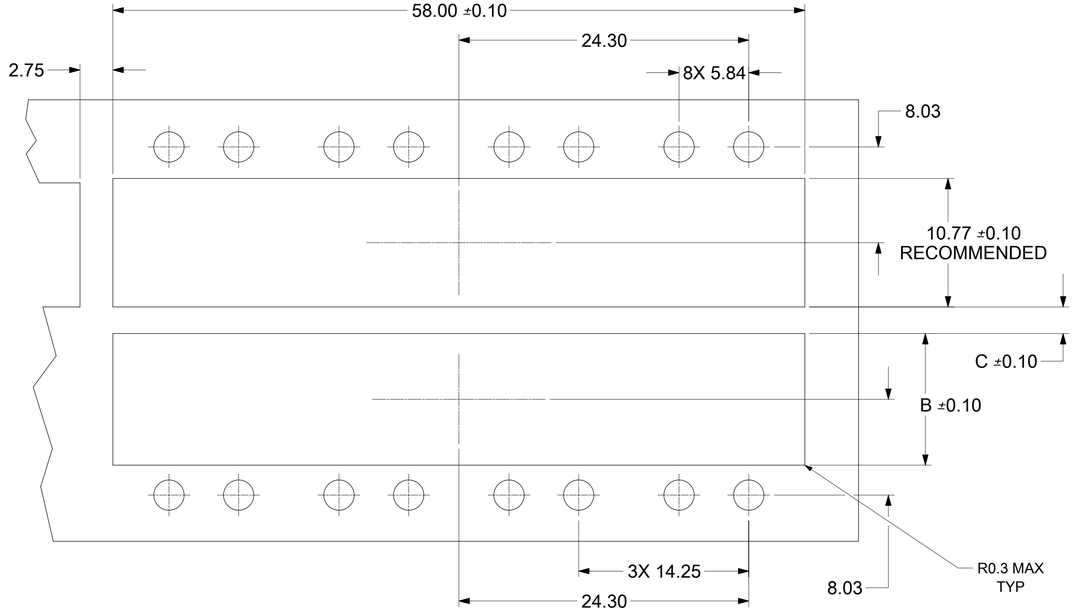
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	74728	747280002		3 OF 5

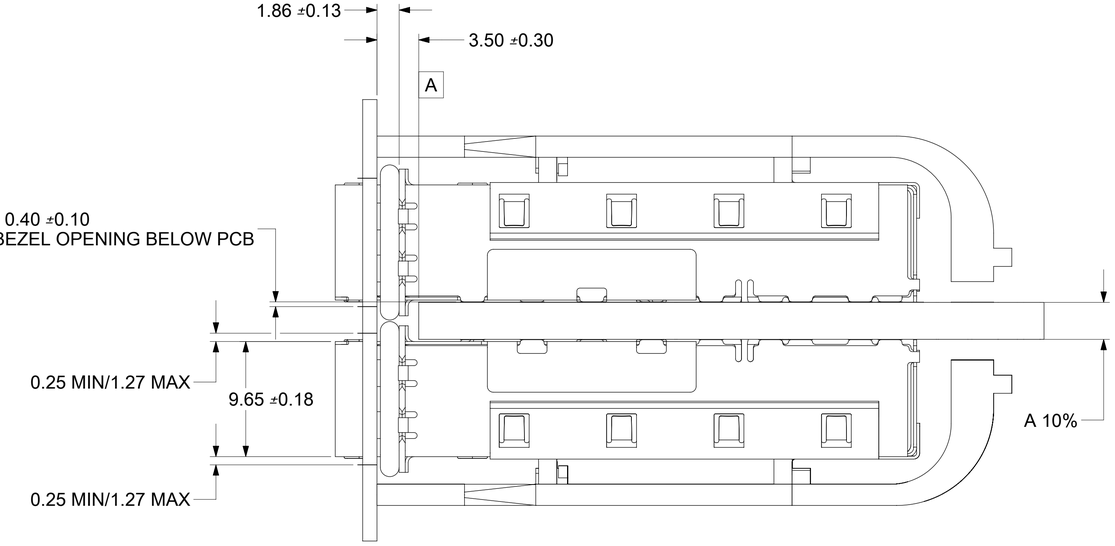
BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING





BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING





NOTE: FOR A GIVEN BOARD THICKNESS (A), DIMENSIONS (B)
AND (C) ARE DIRECTLY AFFECTED.
USE RECOMMENDED DIMENSIONS AND TOLERANCES TO AID IN
DEVELOPING BEZEL OPENING.
FOR EXAMPLE USING A BOARD THICKNESS OF 3.18mm
THE RECOMMENDED VALUES WOULD BE:
A= 3.18 ±10%
B= 11.03 ±.10
C= 2.23 ±.10

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/06 08:41:03

SYMBOLS	
FA = 0	
FB = 0	
FD = 0	
S = 0	
= 0	
C = 0	
= 0	
= 0	
V = 0	

DIMENSION UNITS	SCALE
mm	4:1

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

CURRENT REV DESC: SEE REVISION TABLE

EC NO: 618645
DRWN: JYEN01 2019/06/06
CHK'D: JCHIANG 2019/06/06
APPR: JCHIANG 2019/06/06

INITIAL REVISION:
DRWN: PMAHADEVAPPA 2018/12/18
APPR: RCHEN08 2019/01/15

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74728

molex

1X4 SFP LIGHT PIPE
COVER ASSEMBLY, LOW PROFILE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
747280002	PSD	ASY	B1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
747280002		4 OF 5

DATE	REV	DESCRIPTION
2005/11/05	A	INITIAL RELEASE
2018/12/18	B	1. REMASTERED FROM SD-74728-002 REV_A TO 747280002 PSD ASY REV_B IN NX/ECTR. 2. REMOVED INCH DIMENSIONS IN ALL SHEETS. 3. SHEET 1: E4: VIEW ADDED FOR DATE CODE REPRESENTATION.
2019/06/06	B1	SHEET 1: ADDED "DISCOLORATION IS NOT ALLOWED" TO NOTE 6.

SYMBOLS
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0
= 0

DIMENSION UNITS	SCALE
mm	1:1

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

CURRENT REV DESC: SEE REVISION TABLE

EC NO: 618645
DRWN: JYEN01 2019/06/06
CHK'D: JCHIANG 2019/06/06
APPR: JCHIANG 2019/06/06

INITIAL REVISION:
DRWN: PMAHADEVAPPA 2018/12/18
APPR: RCHEN08 2019/01/15

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74728

molex

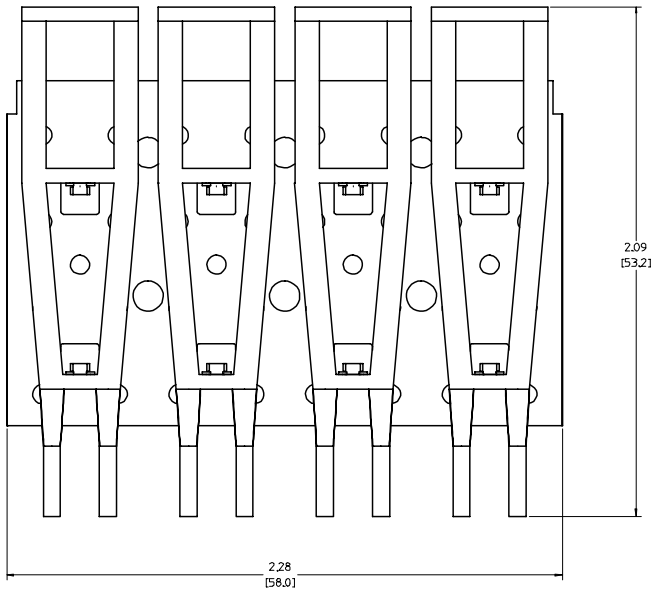
1X4 SFP LIGHT PIPE
COVER ASSEMBLY, LOW PROFILE

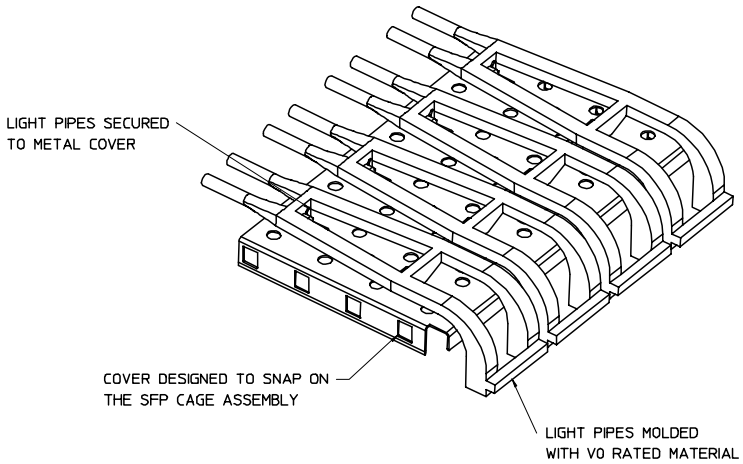
PRODUCT CUSTOMER DRAWING

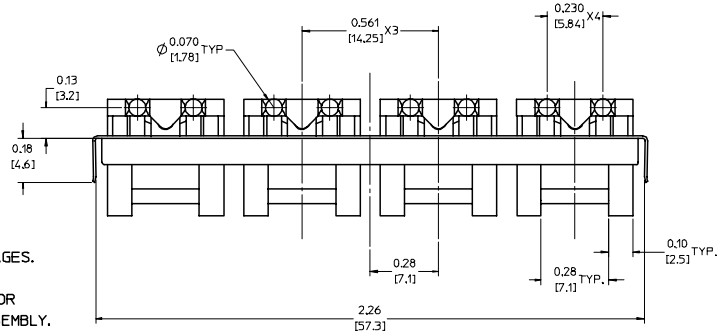
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
747280002	PSD	ASY	B1

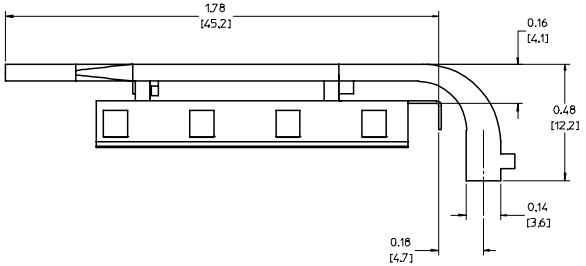
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
747280002		5 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2019/06/06 08:41:03









NOTES:

1. THIS LIGHT PIPE ASSEMBLY TO BE USED WITH SERIES 74728, 1X4 CAGES.

2. IT IS RECOMMENDED THAT THE CAGE ASSEMBLY BE PRESSED INTO OR SOLDERED TO THE PCB PRIOR TO ASSEMBLING THE LIGHT PIPE ASSEMBLY.

3. LED'S TO HAVE A MAXIMUM HEIGHT OF 1.4mm AND A MINIMUM HEIGHT OF 0.7mm

4. RECOMMENDED LED'S INCLUDE THE FOLLOWING MANUFACTURES:

   DIALIGHT: 597-77x1-5xx SERIES

   CHICAGO MINIATURE: 7016 SERIES

   KINGBRIGHT: APBL3025 SERIES (BICOLOR)
   APL3015 SERIES (SINGLE COLOR)

5. THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC).

ENTER DESCRIPTION	2005/11/05	DRWN: KSIMONSON	2005/11/05
EC NO: USY2006-0124	2005/11/09	CHKD: BRUSSELL	2005/11/16
REV: A	DESCRIPTION	APPR: BRUSSELL	

QUALITY SYMBOLS: ▼=0, Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

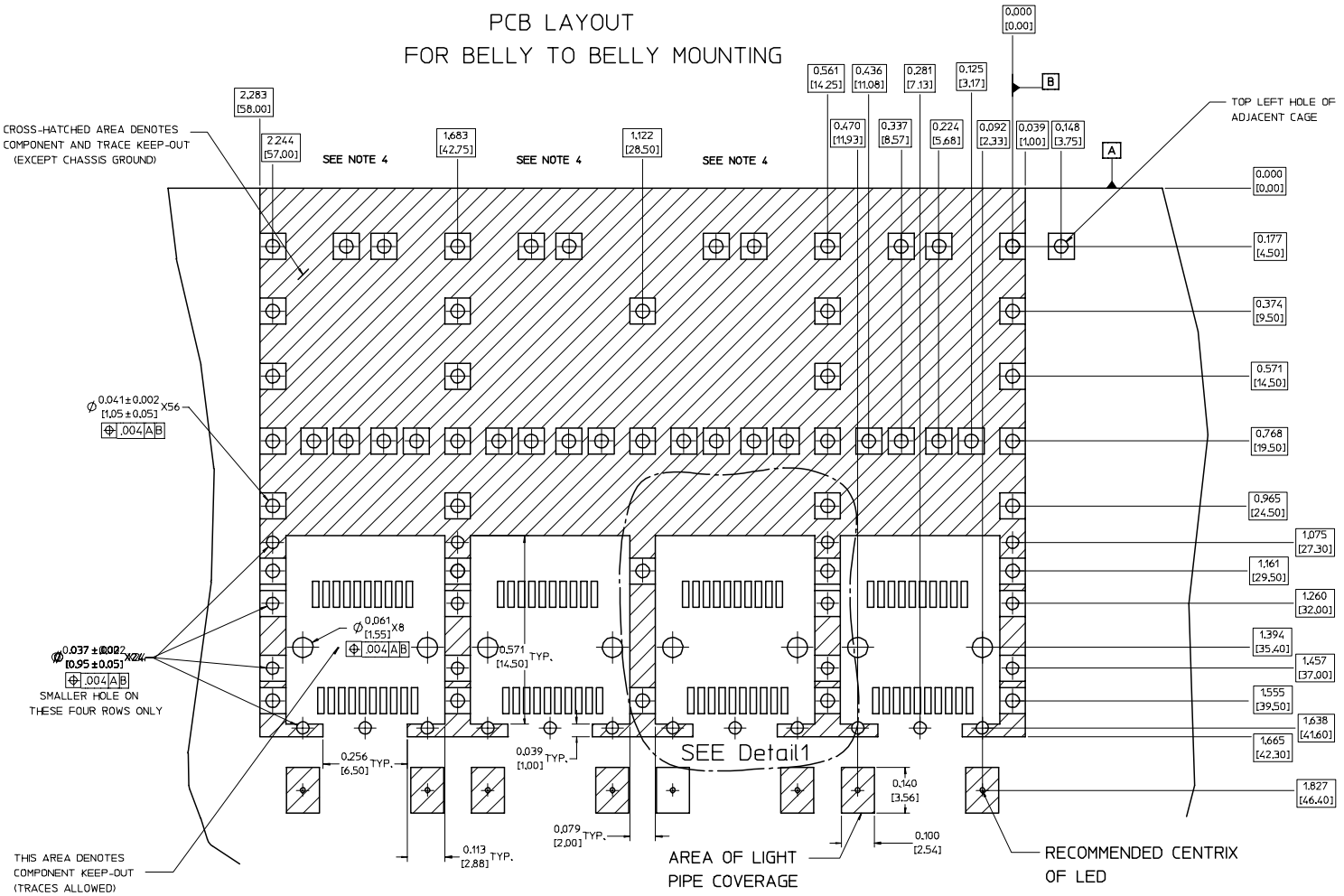
DIMENSION STYLE	IN/MM	SCALE	4:1
DESIGN UNITS	METRIC		THIRD ANGLE PROJECTION
DRAWN BY	KSIMONSO	DATE	2005/11/05
CHECKED BY	BRUSSELL	DATE	2005/11/05
APPROVED BY	BRUSSELL	DATE	2005/11/05
MATERIAL NO.	747280002		
DOCUMENT NO.	SD-74728-002		
SHEET NO.	1 OF 5		
SIZE	D		

TITLE: 1X4 SFP LIGHT PIPE COVER ASSEMBLY, LOW PROFILE

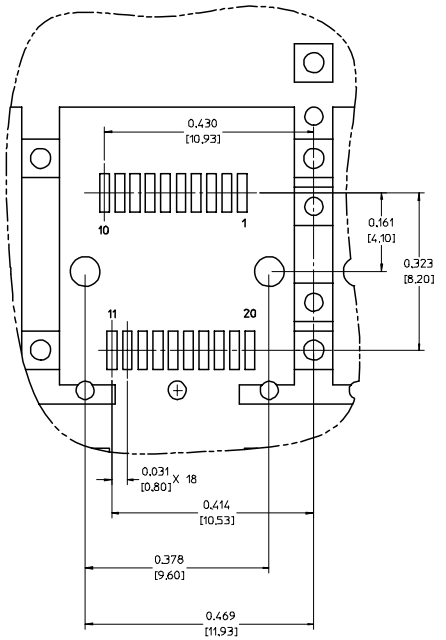
MOLEX INCORPORATED

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



HOST CONNECTOR DETAIL



NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (64 PLACES). RECOMMENDED PADS TO BE 2mm SQUARE.
2. PLATING OPTIONAL FOR THROUGH HOLES, (16 PLACES).
3. RECOMMENDED PLATING INCLUDES HASL, IMMERSION (GOLD OR SILVER), AND OSP.
4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 5.61 [14.25].

ENTER DESCRIPTION
EC NO: USY2006-0124
REV: A
DESCRIPTION: DRWN:KSIMONSON 2005/11/05; CHKD:BRUSSELL 2005/11/09; APPR:BRUSSELL 2005/11/16

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM | SCALE: 6:1 | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION

DRAWN BY: KS IMONSO 2005/11/05
CHECKED BY: BRUSSELL 2005/11/05
APPROVED BY: BRUSSELL 2005/11/05

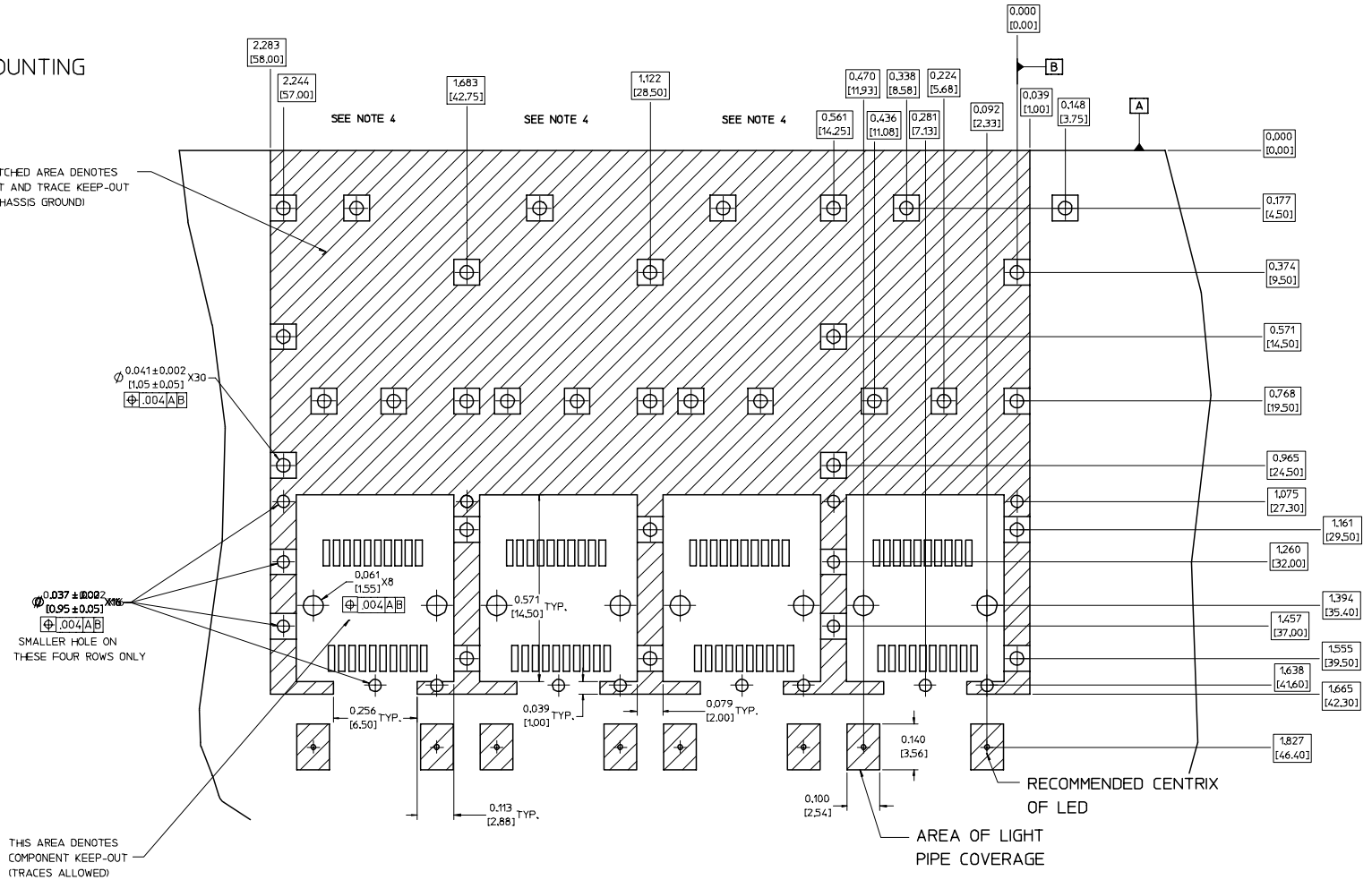
TITLE: 1X4 SFP LIGHT PIPE COVER ASSEMBLY, LOW PROFILE

MOLEX INCORPORATED

MATERIAL NO.: 747280002
DOCUMENT NO.: SD-74728-002
SHEET NO.: 2 OF 5
SIZE: D

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

PCB LAYOUT
FOR SINGLE SIDE MOUNTING



NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND. (34 PLACES). RECOMMENDED PADS TO BE 2mm SQUARE.
2. PLATING OPTIONAL FOR THROUGH HOLES. (12 PLACES).
3. RECOMMENDED PLATING INCLUDES HASL, IMMERSION (GOLD OR SILVER), AND OSP.
4. HOLE PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 5.61 [14.25].

ENTER DESCRIPTION			
ECC NO: USY2006-0124	DRWN:KSIMONSON	2005/11/05	
	CHKD:BRUSSELL	2005/11/09	
	APPR:BRUSSELL	2005/11/16	
REV	A	DESCRIPTION	

QUALITY SYMBOLS: ▼=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	±---
3 PLACES	± ---	±.005
2 PLACES	± 0.13	±.01
1 PLACE	± 0.25	±---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	IN/MM	SCALE	6:1
DESIGN UNITS	METRIC		THIRD ANGLE PROJECTION
DRAWN BY	KSIMONSO	DATE	2005/11/05
CHECKED BY	BRUSSELL	DATE	2005/11/05
APPROVED BY	BRUSSELL	DATE	2005/11/05
MATERIAL NO.	747280002		
SIZE	D		

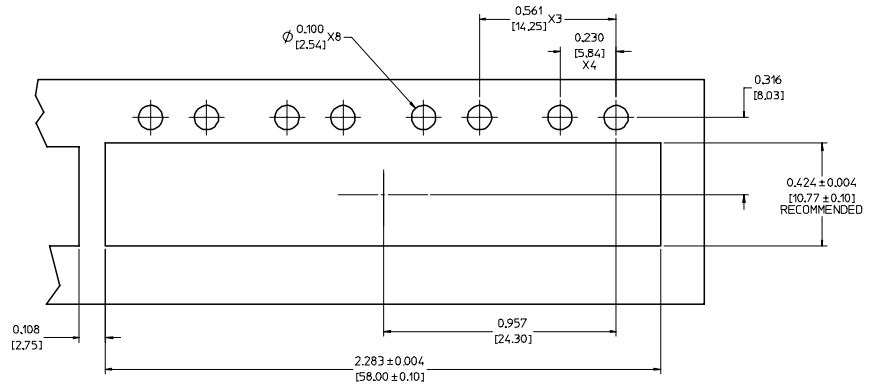
TITLE: 1X4 SFP LIGHT PIPE COVER ASSEMBLY, LOW PROFILE

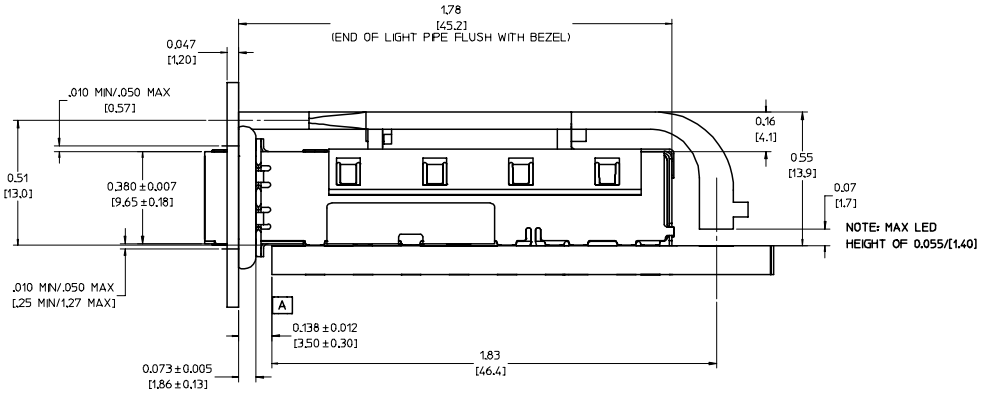
MOLEX INCORPORATED

DOCUMENT NO. SD-74728-002

SHEET NO. 3 OF 5

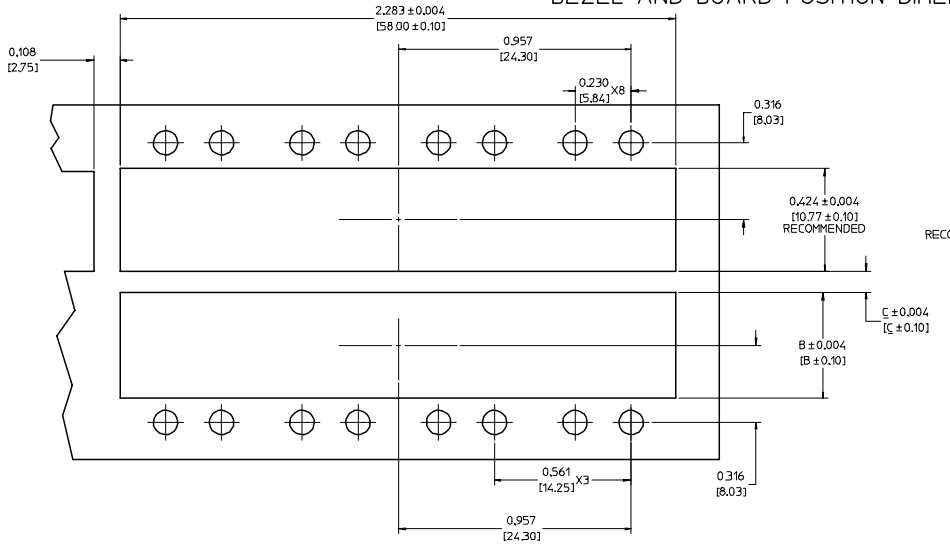
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

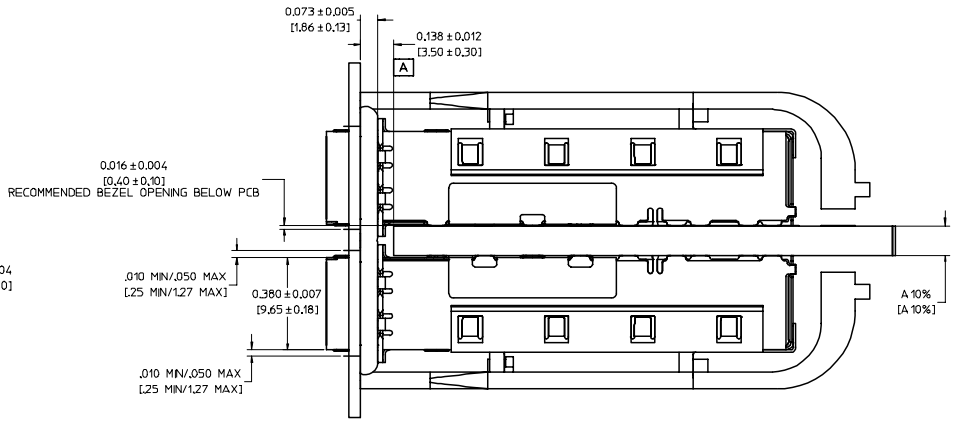




BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING

BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING





NOTE: FOR A GIVEN BOARD THICKNESS (A), DIMENSIONS (B) AND (C) ARE DIRECTLY AFFECTED.

USE RECOMMENDED DIMENSIONS AND TOLERANCES TO AID IN DEVELOPING BEZEL OPENING.

FOR EXAMPLE USING A BOARD THICKNESS OF .125" THE RECOMMENDED VALUES WOULD BE:

A= .125/3.18 ±10%
B= .434/11.03 ±.004
C= .088/2.23 ±.004

ENTER DESCRIPTION	2005/11/05	DRWN: KSIMONSON	2005/11/09
ECC NO: USY2006-0124		CHKD: BRUSSELL	
		APPR: BRUSSELL	2005/11/16
A	REV	DESCRIPTION	

QUALITY SYMBOLS: ▼=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	IN/MM	SCALE	4:1
DESIGN UNITS	METRIC		THIRD ANGLE PROJECTION
DRAWN BY	KS IMONSO	DATE	2005/11/05
CHECKED BY	BRUSSELL	DATE	2005/11/05
APPROVED BY	BRUSSELL	DATE	2005/11/05
MATERIAL NO.	747280002		
SIZE	D		

TITLE: 1X4 SFP LIGHT PIPE COVER ASSEMBLY, LOW PROFILE

MOLEX INCORPORATED

DOCUMENT NO. SD-74728-002

SHEET NO. 4 OF 5

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DATE	REV	CHANGES	COMMENTS
2005/11/05	A	INITIAL RELEASE	N/A

ENTER DESCRIPTION
ECC NO: USY2006-0124
DRWN:KSIMONSON 2005/11/05
CHKD:BRUSSELL 2005/11/09
APPR:BRUSSELL 2005/11/16
DESCRIPTION
REV
A

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: KS IMONSO DATE: 2005/11/05
CHECKED BY: BRUSSELL DATE: 2005/11/05
APPROVED BY: BRUSSELL DATE: 2005/11/05

TITLE: 1X4 SFP LIGHT PIPE COVER ASSEMBLY, LOW PROFILE

MOLEX INCORPORATED

MATERIAL NO.: 747280002
DOCUMENT NO.: SD-74728-002
SHEET NO.: 5 OF 5
SIZE: D

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