

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0472721004

Status:

Active

Overview:

displayport

Description:

0.50mm (.020") Pitch DisplayPort* Male Receptacle, Right Angle, SMT, 0.76µm (30µ") Gold (Au) Plating, 20 Circuits, without Cover or Mylar; with Flange, Latch Holes, Peg and Solder Tab of Shell, Leadfree

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family	I/O Connectors
Series	47272
Application	Wire-to-Board
Comments	Through Hole Peg of Shell
Component Type	Receptacle
Overview	displayport
Product Name	DisplayPort*
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
Gender	Male
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Bismuth
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Panel Mount	With Flange
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	0.50 mm
Pitch - Term. Interface (in)	0.039 In
Pitch - Term. Interface (mm)	0.50 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	40
Plating min: Termination (µm)	1
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

Electrical

Current - Maximum per Contact	0.5A
Grounding to Panel	Yes



image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
47272Series

Mates With
47271 Plug Sub-Assemblies, 68783 Cable Series

Shielded
Voltage - Maximum

Yes
40V AC

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-47272-003

* DisplayPort is a Trademark of VESA

This document was generated on 05/19/2010

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NOTES:

1. MATERIAL:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK, 30% GLASS FILLED, UL94V-0.
TERMINAL: COPPER ALLOY.
SHELL: COPPER ALLOY.

2. PLATING:

TERMINAL: CONTACT AREA(1)0.76 MICROMETER GOLD PLATING
(2)0.38MICROMETER GOLD PLATING
(3)GOLD FLASH PLATING

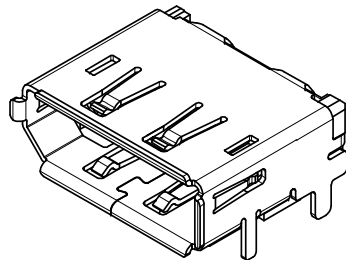
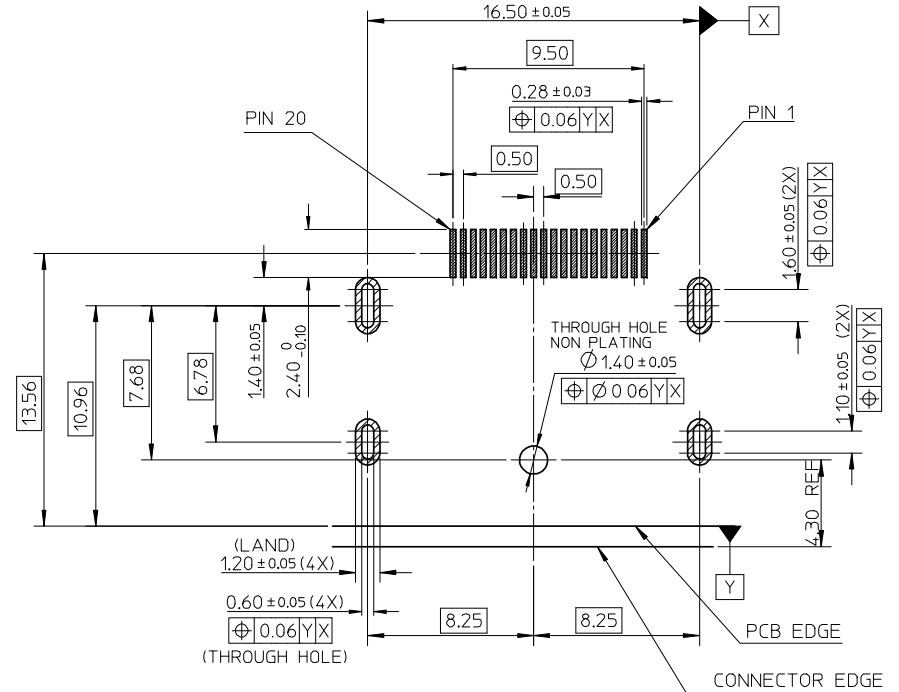
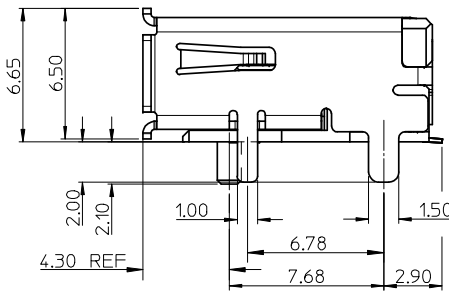
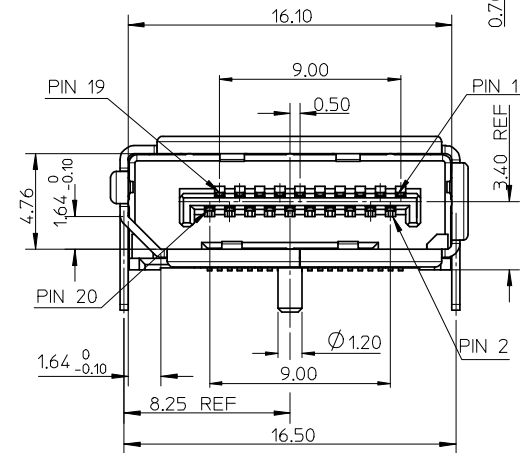
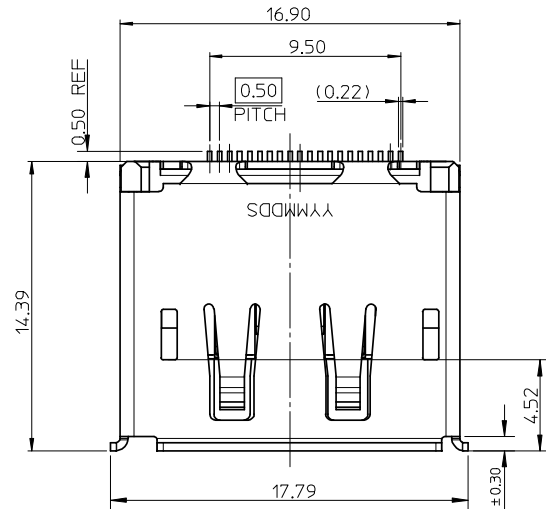
AND SOLDER TAIL 1~3 MICROMETER TIN BISMUTH UNDER PLATE1~3 MICROMETER NICKEL PLATING OVERALL.
SHELL:(a)1.27~2.54 MICROETER SOLDERABLE NICKEL PLATING OVERALL.

(b)SHELL PEG SOLDERING SURFACE PLATE GOLD FLASH UNDER PLATE1~3 MICROMETER NICKEL PLATING OVERALL.

(c) SHELL PLATE 2.1~3.0 MICROMETER TIN UNDER PLATE1.27~2.25 MICROERER NICKEL OVERALL

3. SOLDER TAIL COPLANARITY 0.10 MAX.

4. PS REFER TO PS-47272-001



NEW RELEASE EC NO: SH2009-0038 DRWN:HE CHKD:RZHANG APPR:HWANG REV A4.4	DESCRIPTION	QUALITY SYMBOLS ▽=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY	MOLEX MOLEX INCORPORATED	SHEET NO. 1 OF 7
			4 PLACES	± ---	± ---	CHECKED BY IWANG	DATE 2005/07/01			
			3 PLACES	± ---	± ---	APPROVED BY JNCHEN	DATE 2005/07/01			
			2 PLACES	± 0.25	± ---	MATERIAL NO. SEE SHEETS5		DOCUMENT NO. SD-47272-001		
			1 PLACE	± 0.25	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					

10

9

8

7

6

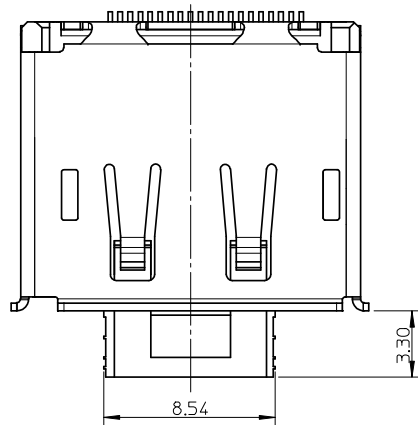
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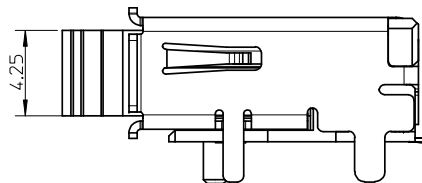
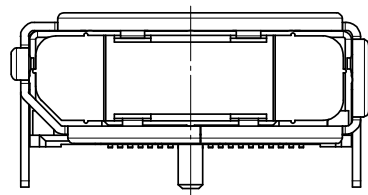
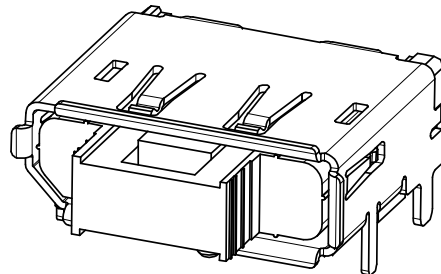
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2

1



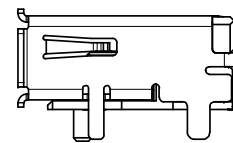
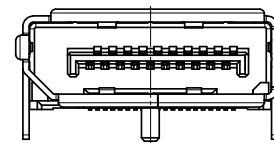
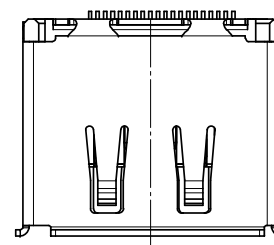
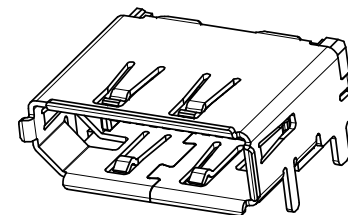
WITH COVER



NOTES:

- 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1
- 2.CONNECTOR WITH COVER IS USED FOR WARE SOLDERING PEG

WITHOUT LATCH HOLE

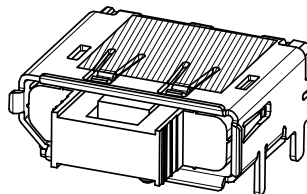


NOTES:

- 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1

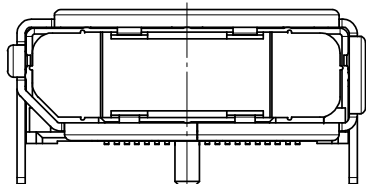
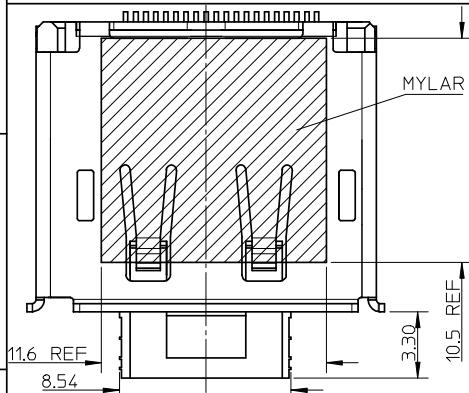
WITH COVER AND MYLAR

MYLAR



NOTES:

- 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1
- 2.CONNECTOR WITH COVER IS USED FOR WARE SOLDERING PEG



9

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NEW RELEASE
EC NO: SH2009-0038
DRWN:HE 2008/08/05
CHKD:RZHANG 2008/08/06
APPR:HWANG 2008/08/21

QUALITY SYMBOLS
DESCRIPTION
REV

▽=0
C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
RZHANG	2005/07/01
CHECKED BY	DATE
IWANG	2005/07/01
APPROVED BY	DATE
JNCHEN	2005/07/01
MATERIAL NO.	

SEE SHEETS

SIZE
A3

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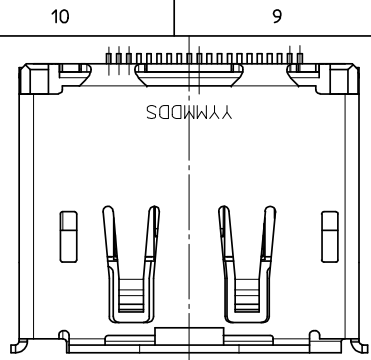
SCALE
1:1DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

TITLE
1.0MM PITCH DISPLAY PORT
RECEPTACLE ASSEMBLY

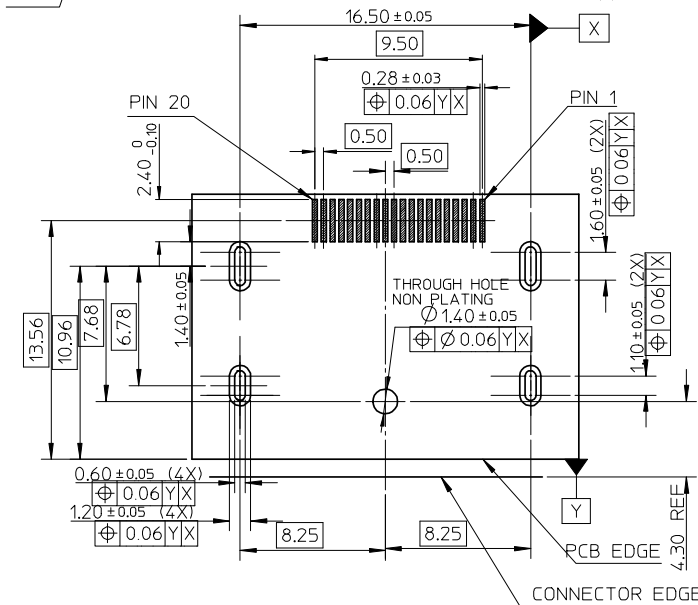
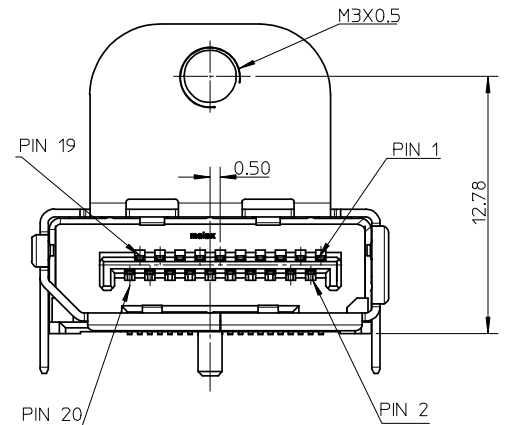
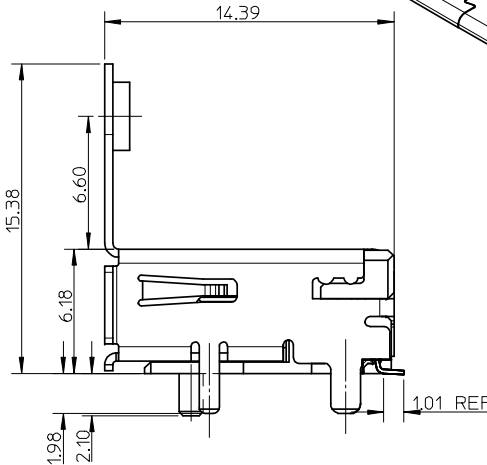
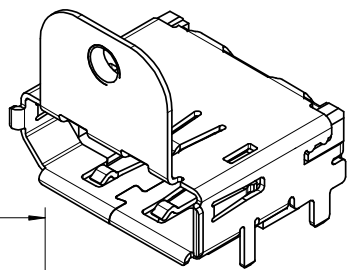
MOLEX MOLEX INCORPORATED

DOCUMENT NO.
SD-47272-001

SHEET NO.
2 OF 7

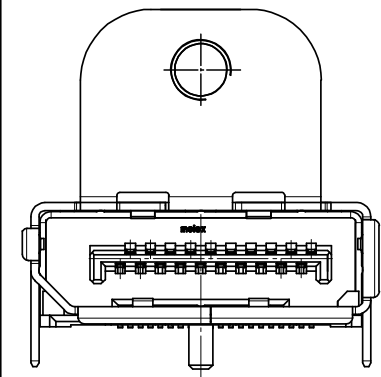
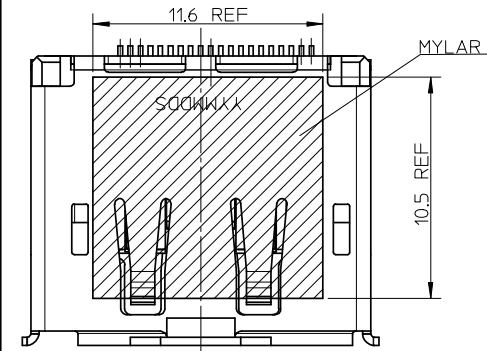


WITH FLANGE AND THROUGH HOLE PEG



NOTES:
UNSPECIFIED DIMENSION ARE SAME AS SHEET1

WITH MYLAR



NOTES:
UNSPECIFIED DIMENSION ARE SAME AS SHEET1

NEW RELEASE EC NO: SH2009-0038 DRWN:HE CHKD:RZHANG APPR:HWANG 2008/08/05 2008/08/06 2008/08/21	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY RZHANG		DATE 2005/07/01	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY			
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			3 PLACES	± ---	± ---	APPROVED BY JNCHEN		DATE 2005/07/01	MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.				SHEET NO.
			1 PLACE	± 0.25	± ---	SEE SHEETS		SD-47272-001				3 OF 7
			ANGULAR ± 3 °		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					

RECOMMENDED PCB LAYOUT (THICKNESS=1.6±0.15)

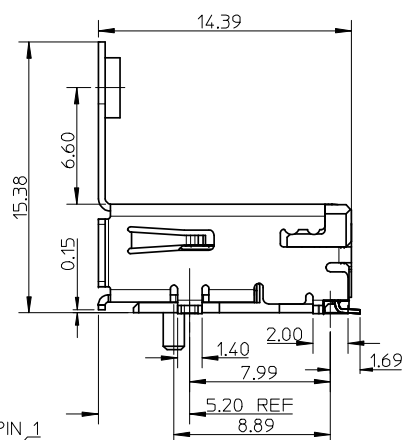
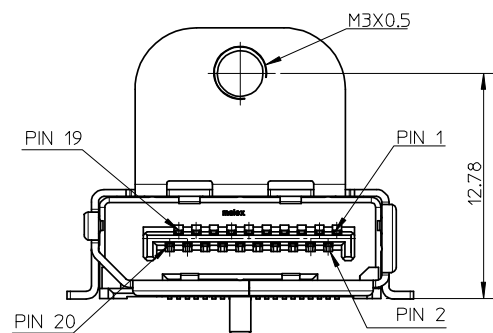
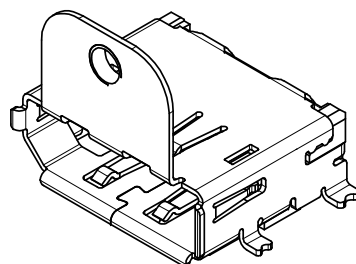
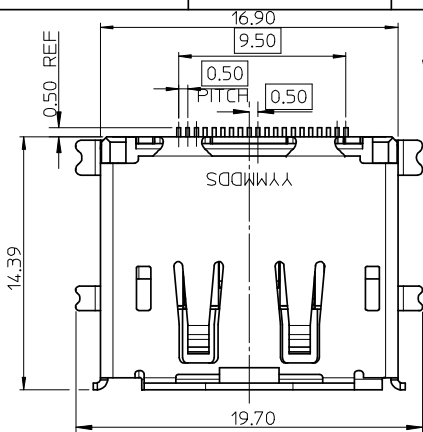
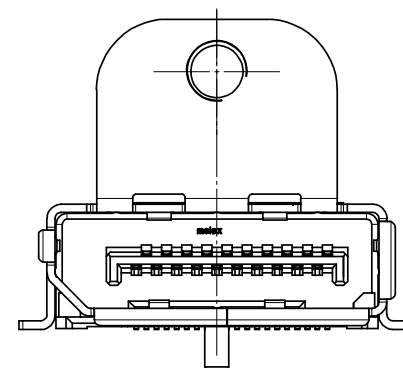
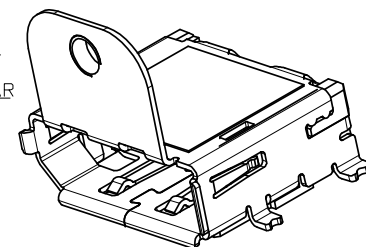


Figure 1: Recommended PCB layout (thickness=1.6±0.15) for the 10-pin connector. The diagram shows a top-down view of the connector footprint on a PCB. Key dimensions include a total width of 18.35±0.05, a central pin pitch of 0.28±0.03, and a through-hole diameter of 1.40±0.05. Pin 1 is located at the top right, and Pin 20 is at the top left. The layout includes mounting holes with a diameter of 0.06 and a distance of 0.50 from the pin center. The PCB edge is indicated at the bottom right, and the connector edge is at the bottom left. The layout is symmetrical about a central vertical axis.

RECOMMENDED PCB LAYOUT(THICKNESS=1.6±0.15)

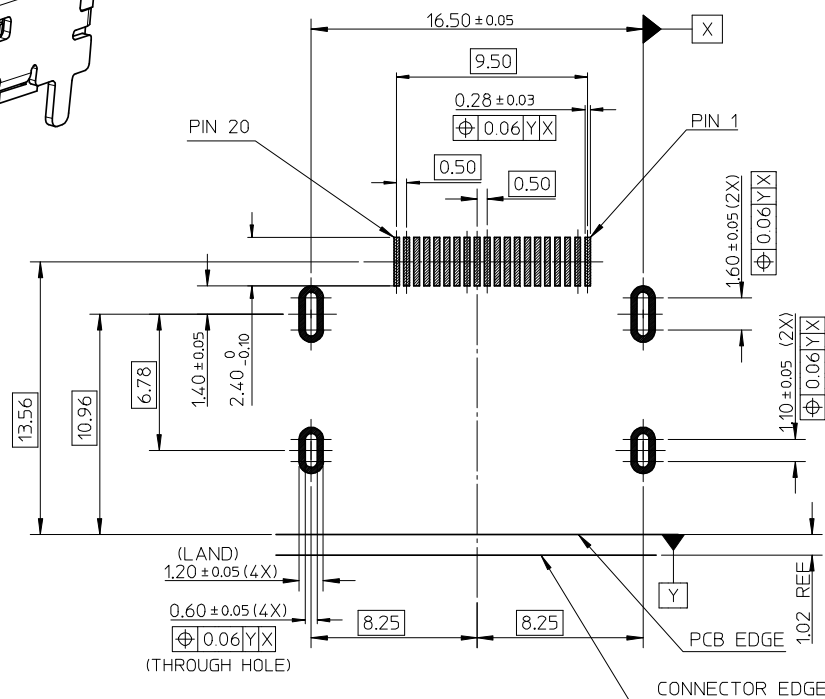
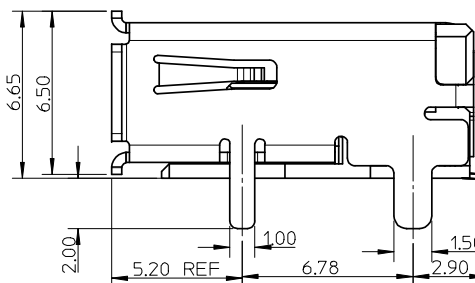
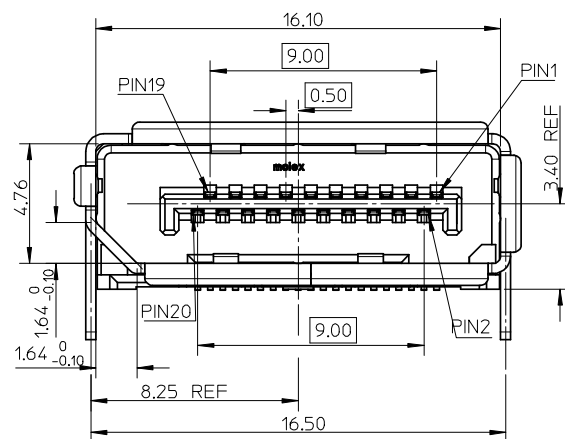
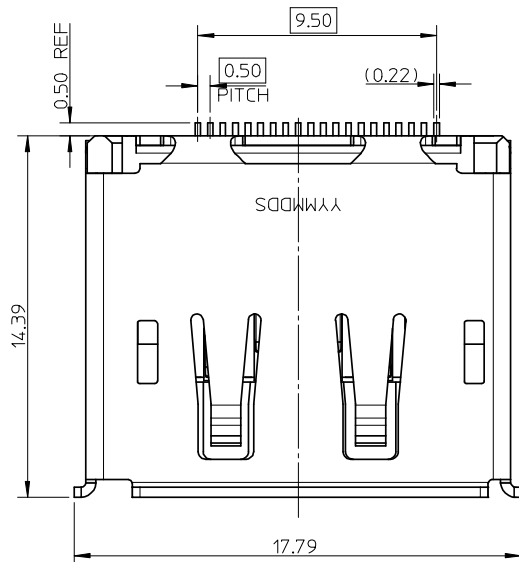
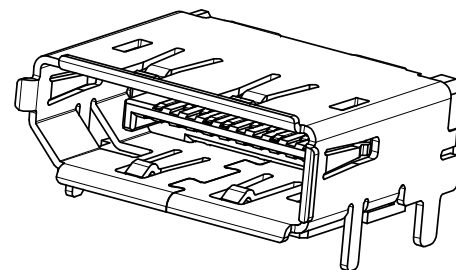
Technical drawing of a square MYLAR capacitor. The drawing shows a top-down view of the component. The central area is a square filled with diagonal hatching, labeled "MYLAR". The overall width is dimensioned as "11.60 REF". The overall height is dimensioned as "10.50 REF". The drawing includes various mounting features, such as a row of small circular holes along the top edge and larger rectangular features on the sides and bottom.



NEW RELEASE EC NO: SH2009-0038 DRW:WHE CHK:RZHANG APPR:HWANG A4.4	DESCRIPTION 2008/08/05 2008/08/06 2008/08/21	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			▼=0 ▽=0	mm	INCH	DRAWN BY	DATE	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-47272-001	SHEET NO. 4 OF 7	
				4 PLACES	±---	±---	RZHANG					2005/07/01
				3 PLACES	±---	±---	CHECKED BY					DATE
				2 PLACES	±0.25	±---	IWANG					2005/07/01
1 PLACE	±0.25	±---	APPROVED BY	DATE								
			ANGULAR ± 3 °		MATERIAL NO.							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 5							
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

	10	9	8	7	6	5	4	3	2	1																																											
	ASSEMBLY NO.	WITH COVER	WITH FLANGE	SMT PEG OF SHELL	THROUGH HOLE PEG OF SHELL	GOLD PLATING IN CONTACT AREA	SHELL PLATING	WITH LATCH HOLE	MYLAR	POST	PACKAGE METHOD	REMARK																																									
F	47272-0001	WITHOUT	WITHOUT		WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITHOUT	WITH		WITH EMI SHIELD FOR SHEET 1																																									
	47272-0002	WITHOUT	WITHOUT		WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
	47272-0011	WITHOUT	WITHOUT		WITH	SEE NOTE2(2)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
	47272-0021	WITHOUT	WITHOUT		WITH	SEE NOTE2(3)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
E	47272-0003	WITHOUT	WITHOUT		WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITHOUT	WITHOUT	WITH		FOR SHEET 2																																									
	47272-1002	WITH	WITHOUT		WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
	47272-0012	WITH	WITHOUT		WITH	SEE NOTE2(2)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
	47272-0022	WITH	WITHOUT		WITH	SEE NOTE2(3)	SEE NOTE2(a)	WITH	WITHOUT	WITH																																											
D	47272-0024	WITH	WITHOUT		WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITH	WITH		FOR SHEET 3																																									
	47272-0004	WITH	WITH		WITH	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITHOUT	WITH																																											
	47272-1004	WITHOUT	WITH		WITH	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITHOUT	WITH																																											
	47272-0025	WITHOUT	WITH		WITH	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITH	WITH																																											
E	47272-0028	WITHOUT	WITH		WITH	SEE NOTE2(3)	SEE NOTE2(c)	WITH	WITH	WITH																																											
C	47272-1005	WITHOUT	WITH	SMT PEG		SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITHOUT	WITH		FOR SHEET 4																																									
	47272-0023	WITHOUT	WITH	SMT PEG		SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITH	WITH																																											
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	47272-0027	WITH	WITH		WITH	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITH	WITH		FOR SHEET 7																																									
B																																																					
A																																																					
<table><tr><td rowspan="5">NEW RELEASE EC NO: SH2009-0038 DRWN:HHE 2008/08/05 CHKD:RZHANG 2008/08/06 APPR:HWWANG 2008/08/21</td><td rowspan="5">DESCRIPTION REV</td><td rowspan="5">QUALITY SYMBOLS ▽=0 ◻=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE 1:1</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4">4 PLACES 3 PLACES 2 PLACES 1 PLACE</td><td>mm</td><td>INCH</td><td>DRAWN BY RZHANG</td><td>DATE 2005/07/01</td><td rowspan="4">TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY</td><td rowspan="4">MOLEX INCORPORATED</td><td rowspan="4">SHEET NO. 5 OF 7</td></tr><tr><td>± ---</td><td>± ---</td><td>CHECKED BY IWANG</td><td>DATE 2005/07/01</td></tr><tr><td>± 0.25</td><td>± ---</td><td>APPROVED BY JNCHEN</td><td>DATE 2005/07/01</td></tr><tr><td>± 0.25</td><td>± ---</td><td>MATERIAL NO.</td><td>DOCUMENT NO.</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SEE CHART</td><td colspan="3">SD-47272-001</td><td colspan="3"></td></tr></table>												NEW RELEASE EC NO: SH2009-0038 DRWN:HHE 2008/08/05 CHKD:RZHANG 2008/08/06 APPR:HWWANG 2008/08/21	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY	MOLEX INCORPORATED	SHEET NO. 5 OF 7	± ---	± ---	CHECKED BY IWANG	DATE 2005/07/01	± 0.25	± ---	APPROVED BY JNCHEN	DATE 2005/07/01	± 0.25	± ---	MATERIAL NO.	DOCUMENT NO.	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SD-47272-001					
NEW RELEASE EC NO: SH2009-0038 DRWN:HHE 2008/08/05 CHKD:RZHANG 2008/08/06 APPR:HWWANG 2008/08/21	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																																												
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tb_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1																																												

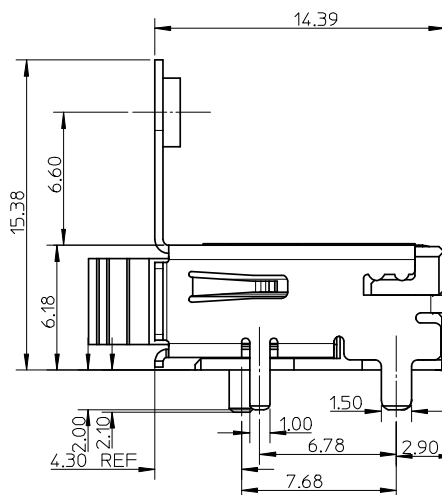
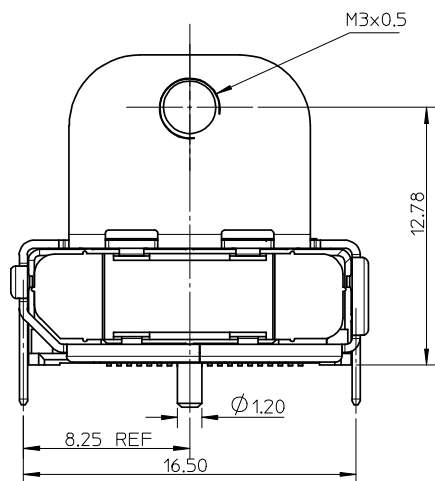
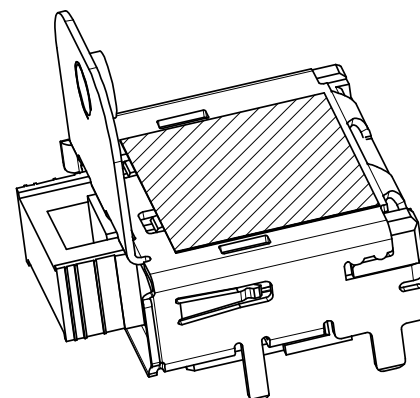
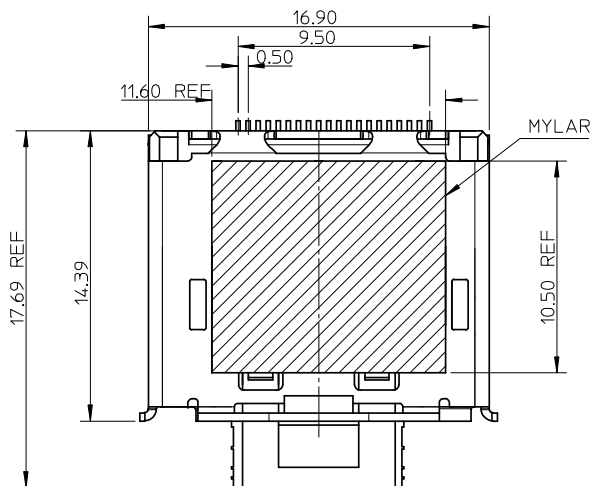
WITHOUT POST



RECOMMENDED PCB LAYOUT (THICKNESS=1.6±0.15)

NOTES:
UNSPECIFIED DIMENSION ARE SAME AS SHEET1

NEW RELEASE EC NO: SH2009-0038 DRW:NHE CHKD:RZHANG APPR:HWANG	2008/08/05 2008/08/06 2008/08/21	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
										TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY MOLEX INCORPORATED	
				mm		INCH		DRAWN BY RZHANG	DATE 2005/07/01		
				4 PLACES ± --- ± ---		3 PLACES ± --- ± ---		CHECKED BY IWANG	DATE 2005/07/01		
				2 PLACES ± 0.25 ± ---		1 PLACE ± 0.25 ± ---		APPROVED BY JNCHEN	DATE 2005/07/01		
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO. 6 OF 7
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE SHEETS A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



NOTES:

1. UNSPECIFIC DIMENSION ARE SAME AS SHEET1
2. THE RECOMMENDER PCB ARE SAME AS SHEET1

NEW RELEASE EC NO: SH2009-0038 DRWN:HHE CHKD:RZHANG APPR:HWANG A.4.4	2008/08/05 2008/08/06 2008/08/21	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-47272-001	SHEET NO. 7 OF 7
					±---	±---	CHECKED BY IWANG	DATE 2005/07/01				
					±---	±---	APPROVED BY JNCHEN	DATE 2005/07/01				
					±0.25	±---	MATERIAL NO. SEE SHEET 5					
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										