

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0472720024](#)  
**Status:** **Active**  
**Overview:** [displayport](#)  
**Description:** 0.50mm (.020") Pitch DisplayPort\* Male Receptacle, Right Angle, SMT, 0.76µm (30µ") Gold (Au) Plating, 20 Circuits, with Cover, Latch Holes, Mylar, Peg, Solder Tab of Shell, without Flange, Leadfree

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

UL E29179

**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  
 Flammability 94V-0  
 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 Without 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



image - Reference only

Series

**EU RoHS**

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

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

Waterproof / Dustproof	No
<b>Electrical</b>	
Current - Maximum per Contact	0.5A
Grounding to Panel	Yes
Shielded	Yes
Voltage - Maximum	40V AC

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	250

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification	PK-47272-001
Sales Drawing	SD-47272-001

\* DisplayPort is a Trademark of VESA

This document was generated on 05/19/2010

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NOTES:

1. MATERIAL:

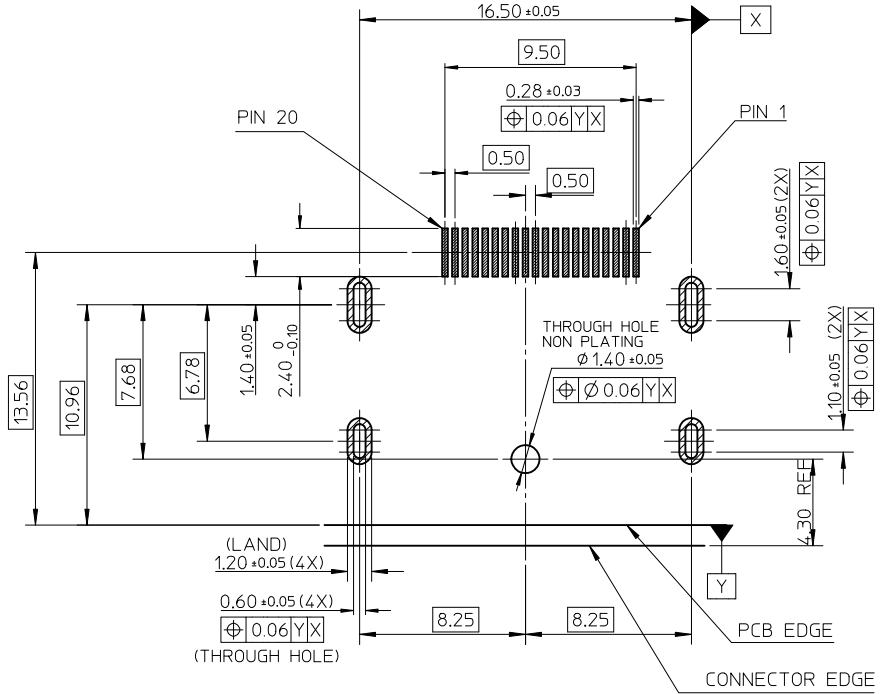
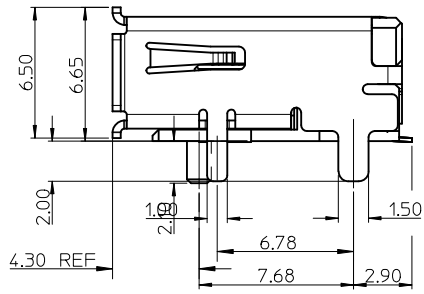
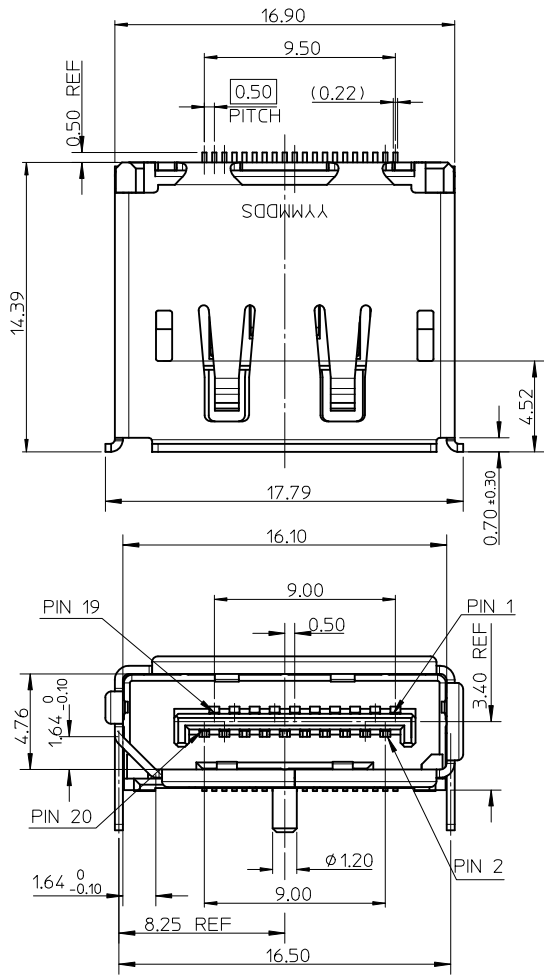
HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK, 30% GLASS FILLED, UL94V-0.  
 TERMINAL: COPPER ALLOY.  
 SHELL: COPPER ALLOY.

2. PLATING:

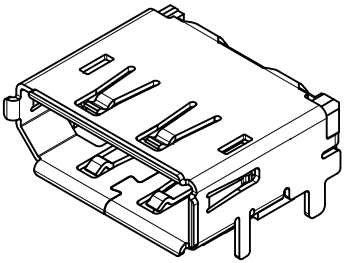
TERMINAL: CONTACT AREA(1)0.76 MICROMETER GOLD PLATING  
 (2)0.38 MICROMETER GOLD PLATING  
 (3)GOLD FLASH PLATING  
 (4)0.64MIN. MICROMETER PALLADIUM/NICKEL AND GOLD FLASH PLATING  
 AND SOLDER TAIL 1-3 MICROMETER TIN BISMUTH UNDER PLATE1-3 MICROMETER NICKEL PLATING OVERALL.  
 SHELL:(a)1.27-2.54 MICROETER 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



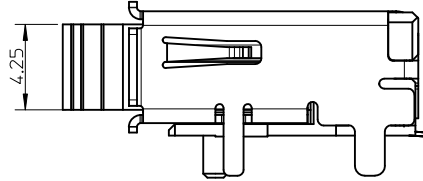
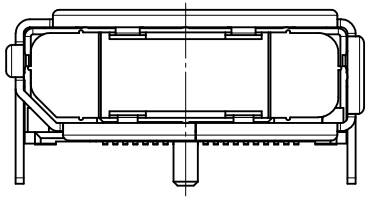
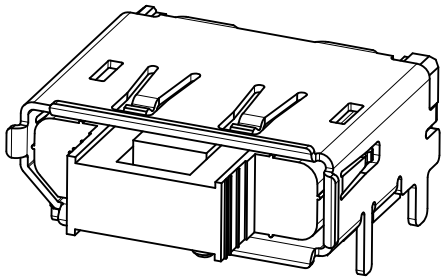
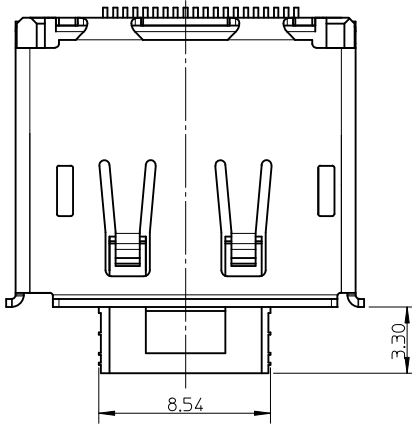
RECOMMENDED PCB LAYOUT (THICKNESS=1.6±0.15)



REVISED EC NO: SH2010-0353 DRWN: HHE CHKD: YANG05 APPR: RZHANG	DESCRIPTION 2010/03/08 2010/03/24 2010/03/29	QUALITY SYMBOLS ▽=0 ▽=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				
			4 PLACES ± ---	± ---	CHECKED BY IWANG	DATE 2005/07/01	MOLEX INCORPORATED				
			3 PLACES ± ---	± ---	APPROVED BY RZHANG	DATE 2010/03/26	DOCUMENT NO. SD-47272-001				
		ANGULAR ± 3 °		MATERIAL NO. SEE SHEETS 5		SHEET NO. 1 OF 8					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

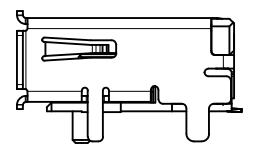
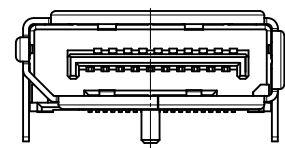
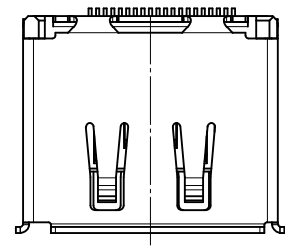
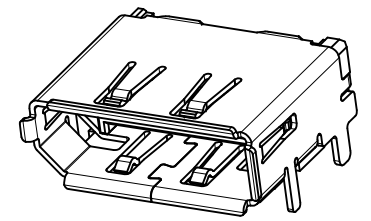
10 9 8 7 6 5 4 3 2 1

WITH COVER



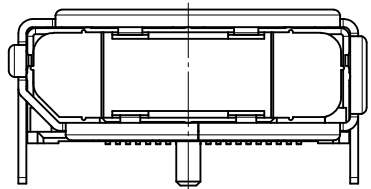
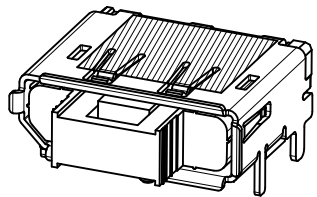
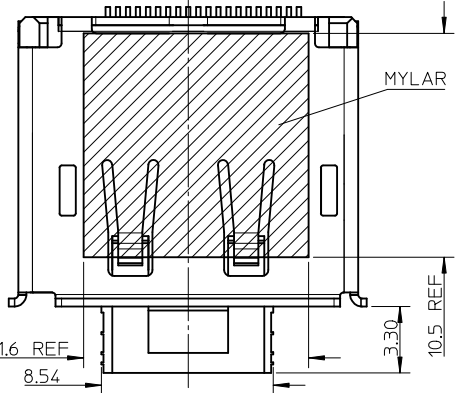
- NOTES:  
 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1  
 2.CONNECTOR WITH COVER IS USED FOR WARE SOLDERING PEG

WITHOUT LATCH HOLE



- NOTES:  
 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1

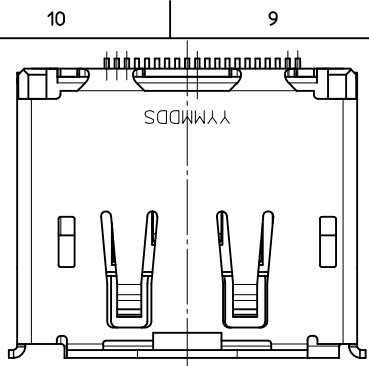
WITH COVER AND MYLAR



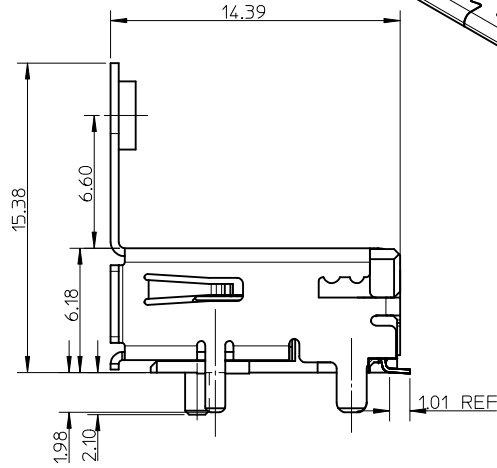
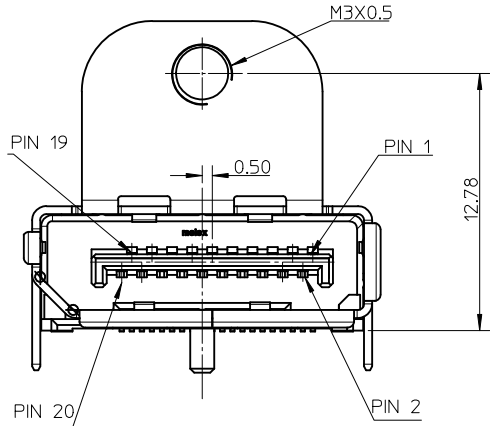
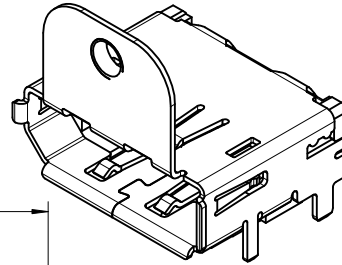
- NOTES:  
 1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1  
 2.CONNECTOR WITH COVER IS USED FOR WARE SOLDERING PEG

REVISED EC NO: SH2010-0353 DRWN:HE 2010/03/08 CHKD:FYANG05 2010/03/24 APPR:RZHANG 2010/03/29 B	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla_F = 0$ $\nabla_F = 0$ $\nabla_F = 0$	mm    INCH	MM ONLY	1:1	METRIC		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.25 ± ---	DRAWN BY: RZHANG CHECKED BY: IWANG APPROVED BY: RZHANG	DATE: 2005/07/01 DATE: 2005/07/01 DATE: 2010/03/26	TITLE: 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY			
		ANGULAR ± 3 °	MATERIAL NO. SEE SHEETS 5 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MOLEX INCORPORATED DOCUMENT NO. SD-47272-001	SHEET NO. 2 OF 8			

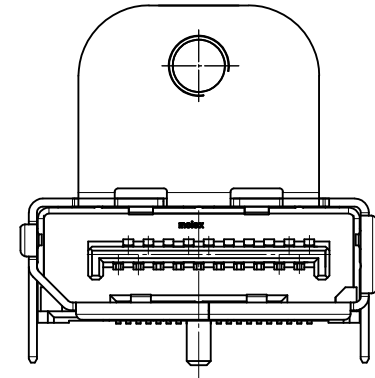
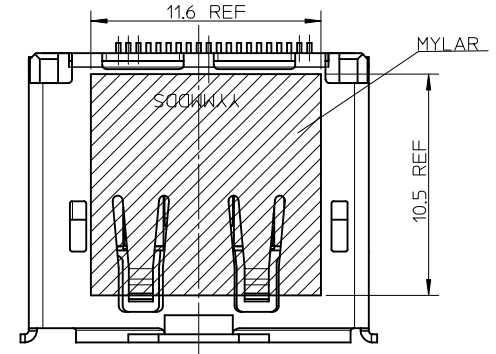
9 8 7 6 5 4 3 2 1



WITH FLANGE AND THROUGH HOLE PEG

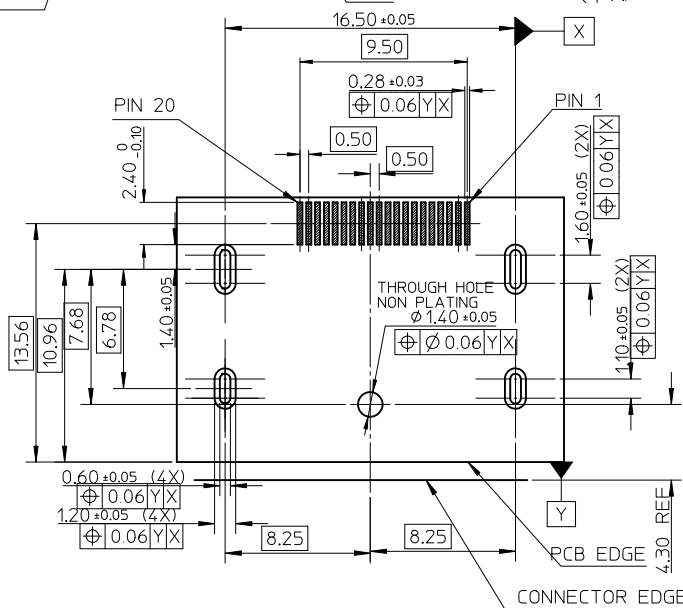


WITH MYLAR



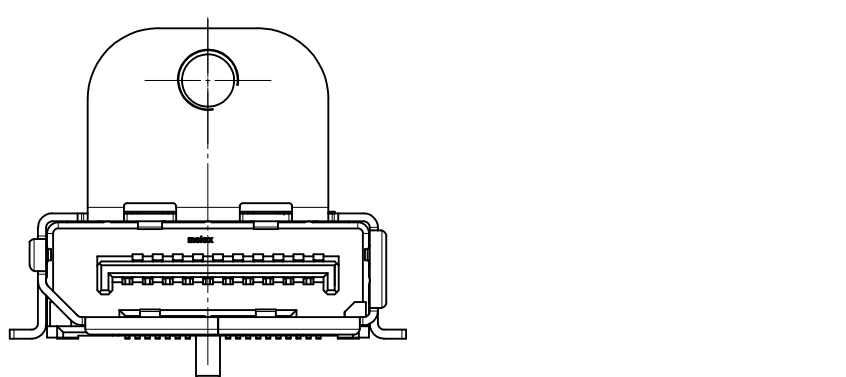
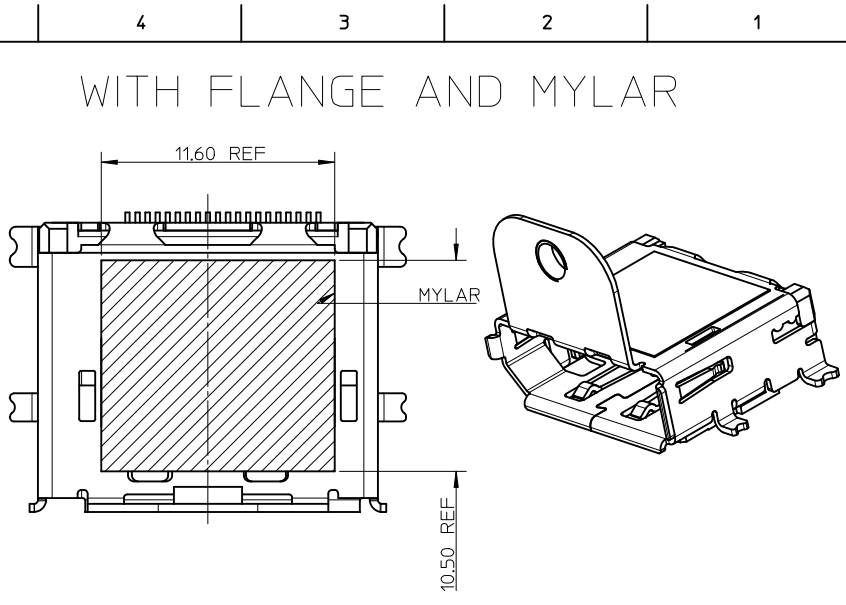
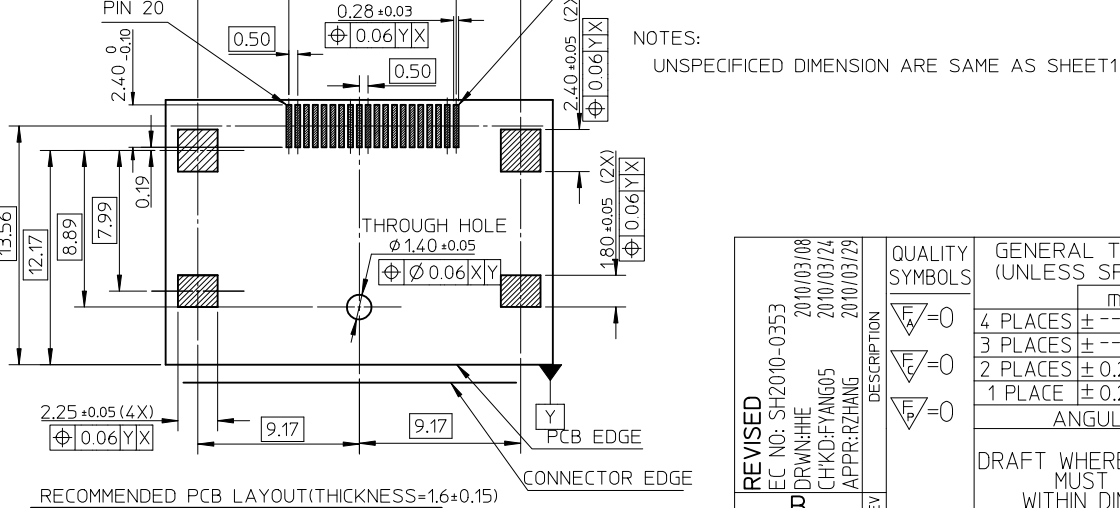
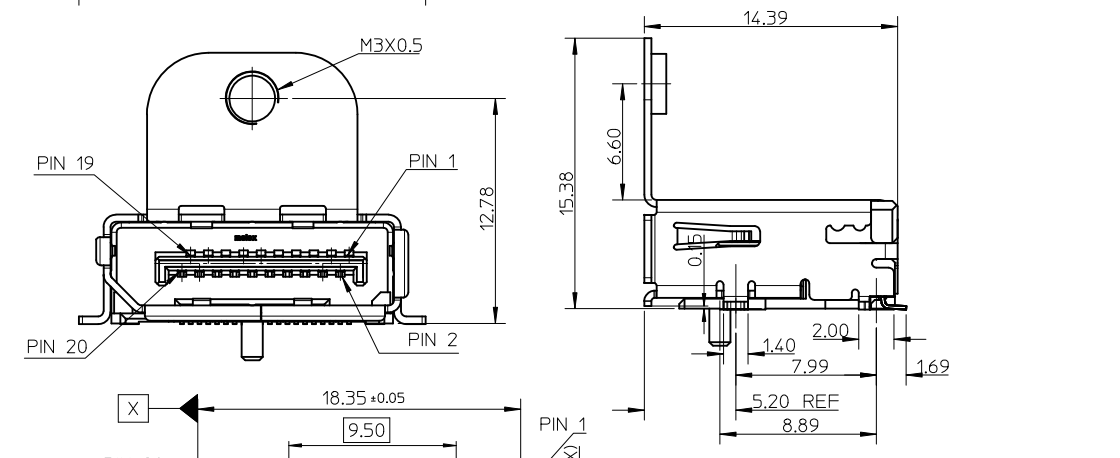
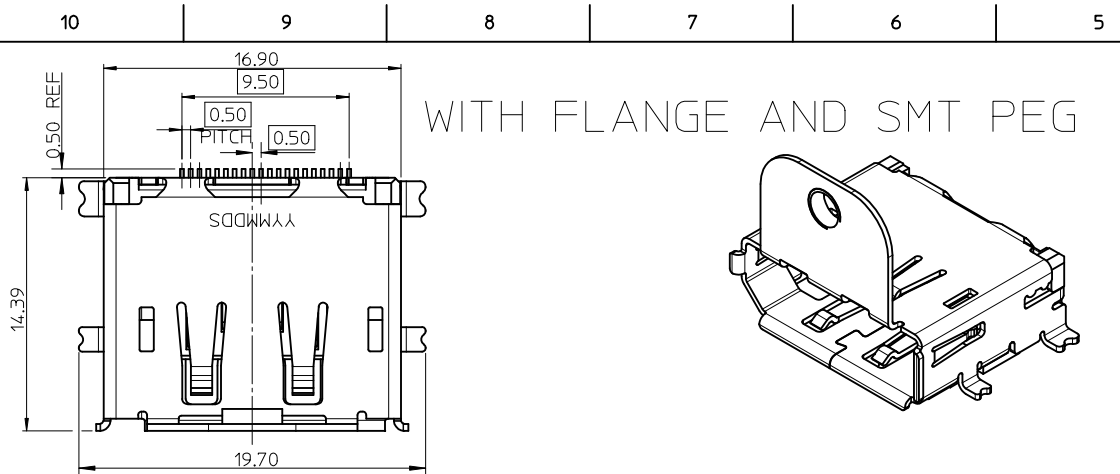
NOTES:  
UNSPECIFIED DIMENSION ARE SAME AS SHEET1

NOTES:  
UNSPECIFIED DIMENSION ARE SAME AS SHEET1



RECOMMENDED PCB LAYOUT (THICKNESS=1.6±0.15)

REVISED EC NO: SH2010-0353 DRW:NHHE CHKD:FYANG05 APPR:RZHANG	QUALITY SYMBOLS ▽=0 ▽=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			
B	DESCRIPTION REV	4 PLACES	± ---	± ---	CHECKED BY IHWANG	DATE 2005/07/01	MOLEX INCORPORATED		
		3 PLACES	± ---	± ---	APPROVED BY RZHANG	DATE 2010/03/26			
		2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.		
		1 PLACE	± 0.25	± ---	SEE SHEETS 5		SD-47272-001		
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHEET NO. 3 OF 8			
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



NOTES:  
1.UNSPECIFIED DIMENSION ARE SAME AS SHEET1  
2.THE RECOMMENDER PCB ARE SAME AS LEFT RECOMMENDER PCB

REVISED EC NO: SH2010-0353 DRW:HHH CHK:DFYANG05 APP:RZHANG	DESCRIPTION 2010/03/08 2010/03/24 2010/03/29	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$F_{\Delta}=0$	mm	INCH	MM ONLY	1:1	METRIC	
		$F_{\square}=0$	4 PLACES ± --- ± ---		DRAWN BY	DATE	TITLE	
		$F_{\nabla}=0$	3 PLACES ± --- ± ---		RZHANG	2005/07/01	1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY	
		2 PLACES ± 0.25 ± ---		CHECKED BY	DATE			
		1 PLACE ± 0.25 ± ---		IWANG	2005/07/01			
		ANGULAR ± 3 °		APPROVED BY	DATE			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		RZHANG	2010/03/26			
				MATERIAL NO.	DOCUMENT NO.	MOLEX INCORPORATED		
				SEE SHEETS 5		SD-47272-001		
				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				A3	SHEET NO. 4 OF 8			

	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	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 SHELL 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		
	47272-0024	WITH	WITHOUT	/	WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITH	WITH		FOR SHEET 3
D	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		
	47272-0028	WITHOUT	WITH	/	WITH	SEE NOTE2(3)	SEE NOTE2(c)	WITH	WITH	WITH		FOR SHEET 4
C	47272-1005	WITHOUT	WITH	SMT PEG	/	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITHOUT	WITH		
	47272-0023	WITHOUT	WITH	SMT PEG	/	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITH	WITH		
	47272-0026	WITHOUT	WITHOUT	/	WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITHOUT	WITHOUT		FOR SHEET 6
	47272-0027	WITH	WITH	/	WITH	SEE NOTE2(1)	SEE NOTE2(c)	WITH	WITH	WITH		FOR SHEET 7
	47272-0201	WITHOUT	WITHOUT	/	WITH	SEE NOTE2(4)	SEE NOTE2(a)	WITH	WITHOUT	WITH		FOR SHEET 1
	47272-0029	WITHOUT	WITHOUT	/	WITH	SEE NOTE2(1)	SEE NOTE2(a)	WITH	WITH	WITH		FOR SHEET 8

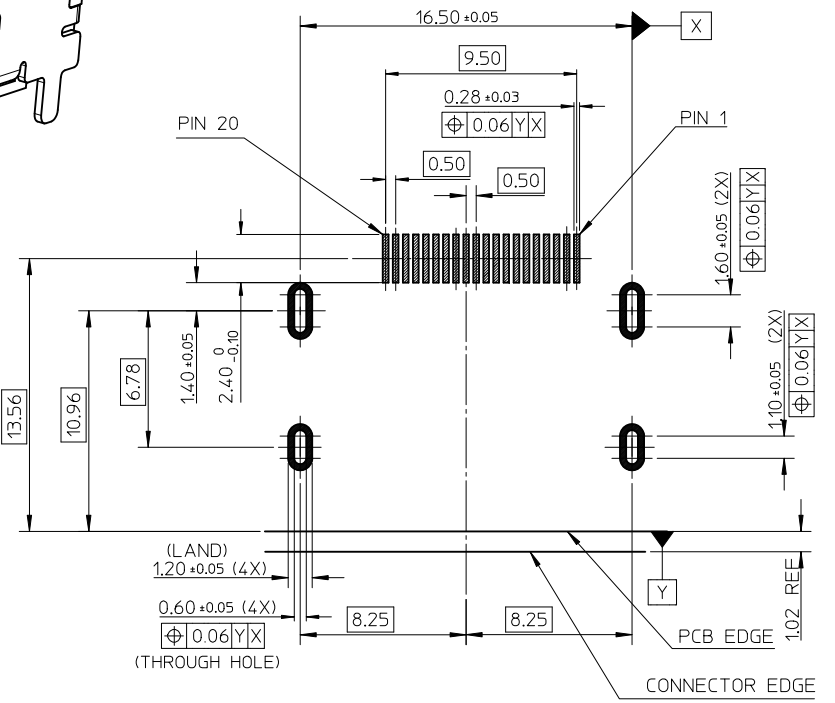
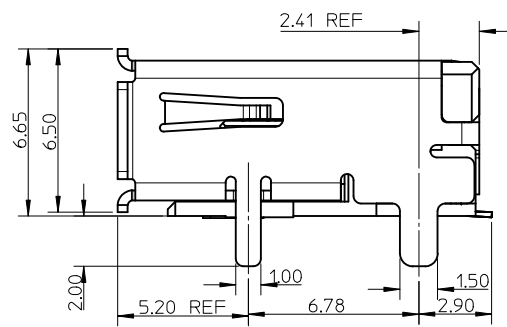
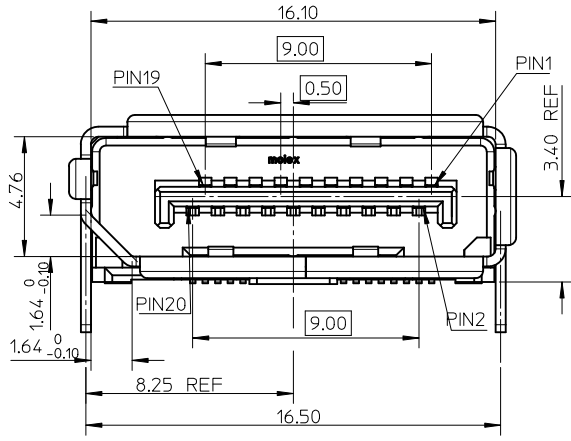
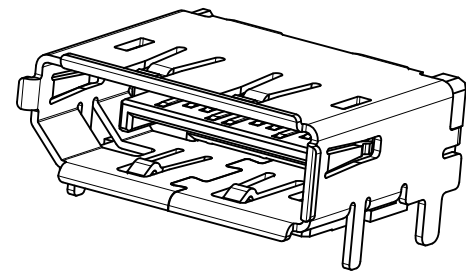
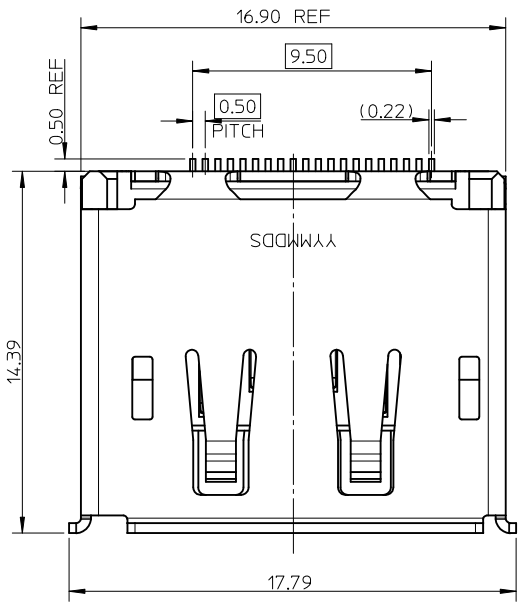
B

<b>REVISED</b> IEC NO: SH2010-0353 DRW:HHH 2010/03/08 CHKD:FYANG05 2010/03/24 APPR:RZHANG 2010/03/29	QUALITY SYMBOLS $F_A=0$ $F_B=0$ $F_C=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
		4 PLACES $\pm$ --- $\pm$ --- 3 PLACES $\pm$ --- $\pm$ --- 2 PLACES $\pm$ 0.25 $\pm$ --- 1 PLACE $\pm$ 0.25 $\pm$ ---	mm      INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE <b>1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY</b>			
		ANGULAR $\pm$ 3 °		CHECKED BY IWANG	DATE 2005/07/01	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY RZHANG	DATE 2010/03/26	MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. <b>SD-47272-001</b>	SHEET NO. <b>5 OF 8</b>	

A

10 9 8 7 6 5 4 3 2 1

WITHOUT POST



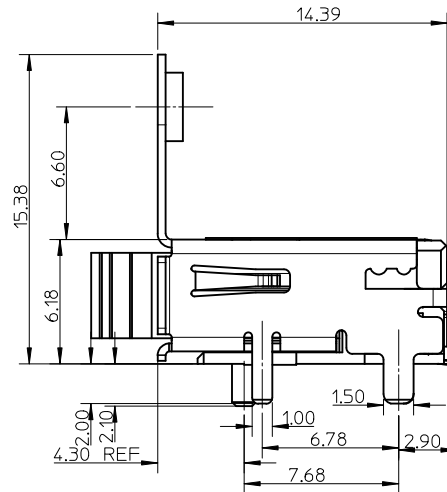
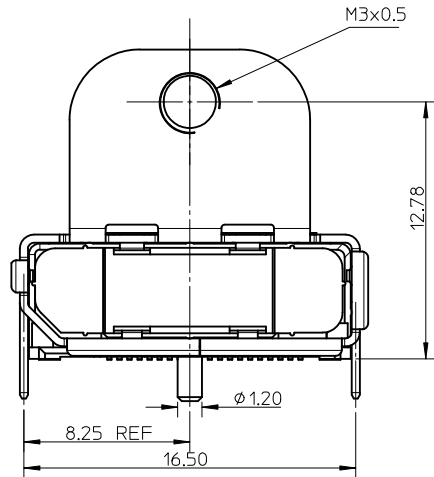
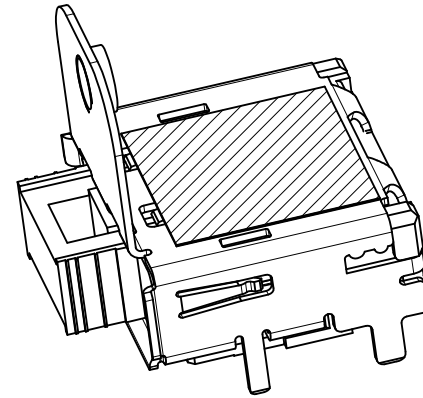
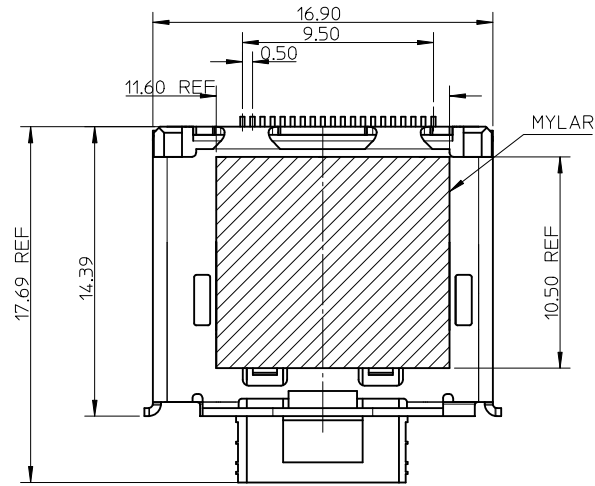
RECOMMENDED PCB LAYOUT (THICKNESS=1.6±0.15)

NOTES:  
UNSPECIFIED DIMENSION ARE SAME AS SHEET1

REVISED EC NO: SH2010-0353 DRW: HHE CHK: FYANG05 APPR: RZHANG	2010/03/08	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	2010/03/24		mm	INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE 1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY				
	2010/03/29		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.25 ± ---	1 PLACE ± 0.25 ± ---	CHECKED BY IWANG	DATE 2005/07/01	MOLEX INCORPORATED		
			ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY RZHANG	DATE 2010/03/26	MATERIAL NO. SEE SHEETS 5	DOCUMENT NO. SD-47272-001	SHEET NO. 6 OF 8	

9 8 7 6 5 4 3 2 1



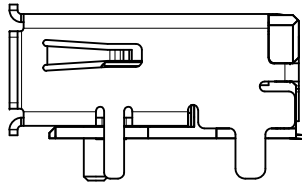
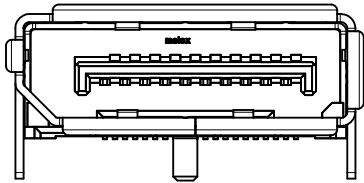
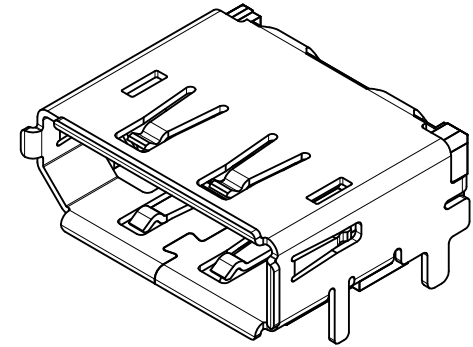
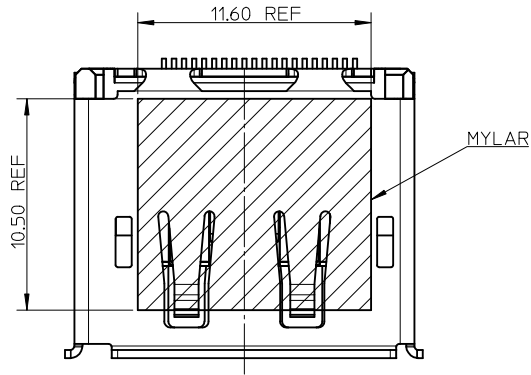


- NOTES:
1. UNSPECIFIC DIMENSION ARE SAME AS SHEET1
  2. THE RECOMMENDER PCB ARE SAME AS SHEET1

<b>REVISED</b> EC NO: SH2010-0353 DRW: HHE 2010/03/08 CHK: D-FYANG05 2010/03/24 APPR: RZHANG 2010/03/29	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
		$\nabla = 0$	mm	INCH	DRAWN BY RZHANG	DATE 2005/07/01	TITLE <b>1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY</b>			
		$\nabla = 0$	4 PLACES ± ---	± ---	CHECKED BY IWANG	DATE 2005/07/01				
		$\nabla = 0$	2 PLACES ± 0.25	± ---	APPROVED BY RZHANG	DATE 2010/03/26	MATERIAL NO. <b>SEE SHEETS 5</b>		DOCUMENT NO. <b>SD-47272-001</b>	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		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

STANDARD TYPE WITH MYLAR



NOTES:

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

<b>REVISED</b> EC NO: SH2010-0353 DRWN: HHE 2010/03/08 CHKD: FYANG05 2010/03/24 APPR: RZHANG 2010/03/29	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
		$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.25 ± ---	DRAWN BY RZHANG CHECKED BY IWANG APPROVED BY RZHANG	DATE 2005/07/01 DATE 2005/07/01 DATE 2010/03/26	TITLE <b>1.0MM PITCH DISPLAY PORT RECEPTACLE ASSEMBLY</b>		MOLEX INCORPORATED DOCUMENT NO. <b>SD-47272-001</b>		SHEET NO. <b>8 OF 8</b>
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE SHEETS</b>		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
						SIZE <b>A3</b>				

9 8 7 6 5 4 3 2 1

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)