

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0473001031](#)
Status: **Active**
Overview: slimline serial ata odd connectors
Description: 1.00mm(.039"), 1.27mm (.050") Pitch Slimline Serial ATA Plug for Optical Disk Drive with DIP Standard Type Soldering Tabs, Right Angle, 0.38µm (15µ") Gold (Au) Plating, with Peg, 4.0mm (.157") Mounted Height, Lead-free

Documents:

[3D Model](#) [Product Specification PS-47300-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR 19980

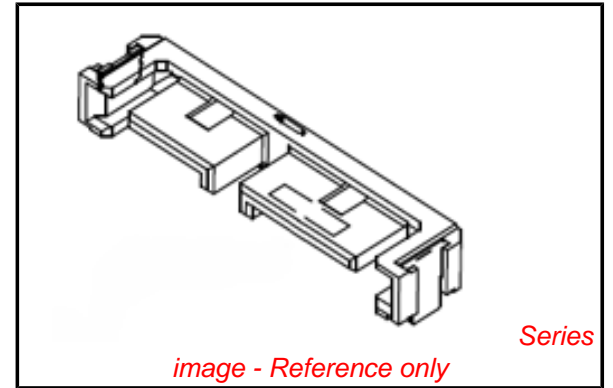
General

Product Family PCB Headers
 Series [47300](#)
 Application Board-to-Board
 Comments Soldering Standard Type
 Overview slimline serial ata odd connectors
 Product Name Serial ATA, Slimline Serial ATA

Physical

Breakaway No
 Circuits (Loaded) 13
 Circuits (maximum) 13
 Durability (mating cycles max) 500
 First Mate / Last Break Yes
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part Yes
 Keying to Mating Part Yes
 Lock to Mating Part No
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 1
 Orientation Right Angle
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.039 In, 0.050 In
 Pitch - Mating Interface (mm) 1.00 mm, 1.27 mm
 Pitch - Term. Interface (in) 0.039 In, 0.050 In
 Pitch - Term. Interface (mm) 1.00 mm, 1.27 mm
 Plating min: Mating (µin) 15
 Plating min: Mating (µm) 0.38
 Plating min: Termination (µin) 39
 Plating min: Termination (µm) 1
 Polarized to Mating Part Yes
 Polarized to PCB Yes
 Stackable No
 Temperature Range - Operating -35°C to +85°C
 Termination Interface: Style Surface Mount

Electrical



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

[47300Series](#)

Mates With

[47628](#) , [47639](#), [47645](#), [47650](#), [78380](#),
[48321](#), [48325](#), [48330](#), [48336](#), [47657](#)
 Slimline Serial ATA Receptacles

Current - Maximum per Contact	1.5A
Voltage - Maximum	15V DC

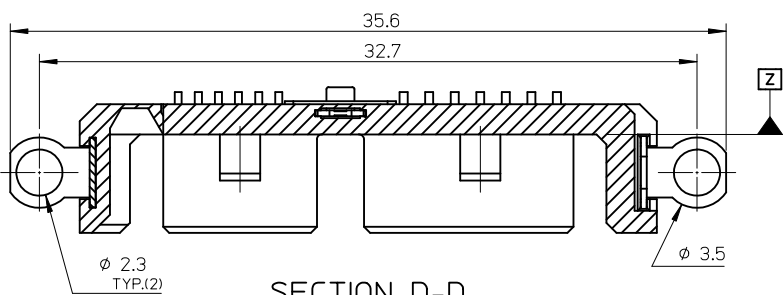
Material Info

Reference - Drawing Numbers

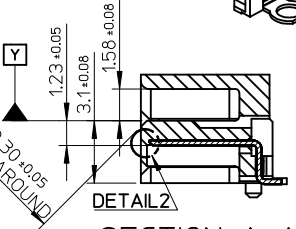
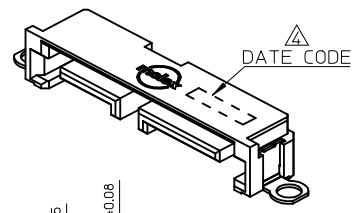
Packaging Specification	PK-47300-001, PK-47300-003
Product Specification	PS-47300-001
Sales Drawing	SD-47300-100

This document was generated on 05/26/2010

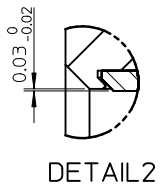
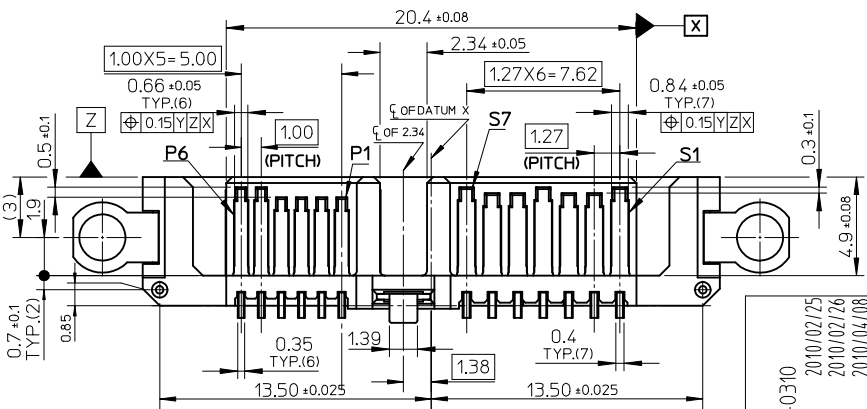
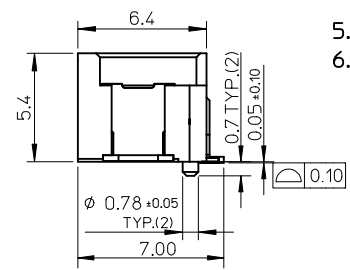
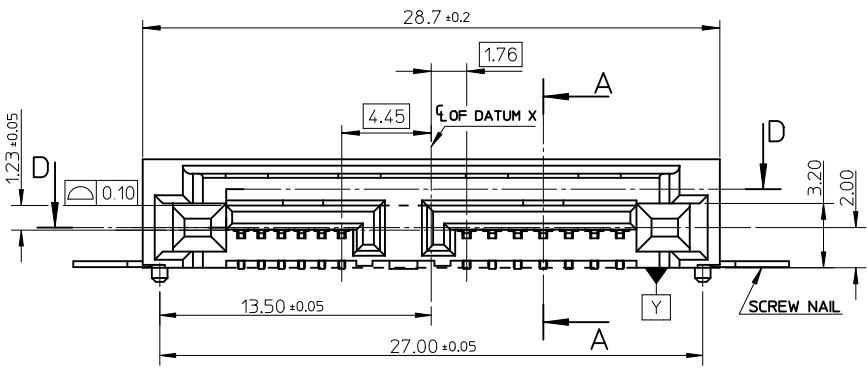
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SECTION D-D



SECTION A-A



DETAIL2

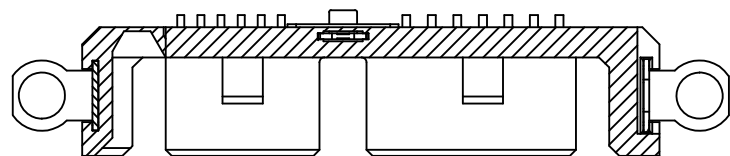
NOTES :

- 1.MATERIAL :
HOUSING : HIGH TEMPERATURE THERMOPLASTIC, 30% G.F., UL94V-0, BLACK
TERMINAL : COPPER ALLOY, THICKNESS=0.25 MM
SCREW NAIL : STAINLESS, THICKNESS=0.30 MM
SOLDERING NAIL : COPPER ALLOY, THICKNESS=0.30 MM
- 2.PLATING :
TERMINAL :
CONTACT AREA : GOLD PLATING 0.1 MICRONS MIN.
SOLDERING AREA : MATTE TIN PLATING 1.0 MICRONS MIN.
UNDERPLATING : NICKEL PLATING 2.5 MICRONS MIN.
SOLDERING NAIL : MATTE TIN PLATING 1.0 MICRONS MIN.
OVER NICKEL PLATING 1.0 MICRONS MIN.
- 3.PRODUCT SPECIFICATION: PS-47300-001.
- DATE CODE FORMAT: YY/MM/DD/XX/S, 'XX' IS USED TO MARK TERMINAL GOLD PLATING SPEC, '05' IS FOR FLSH, '15' IS FOR 15u", '30' IS FOR 30u". 'S' IS A SPECIAL LETTER FOR FACTORY TO TRACK.
- 5.PRODUCT PACKAGE SPEC: PK-47300-001.
- 6.THE PRODUCT COMPLIANT TO RoSH DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.

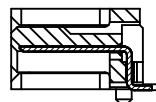
P/N	CONTACT PLATING	NAIL
47300-1000	GOLD FLASH	
47300-1002	GOLD 0.38 MICRONS MIN	STAINLESS STEEL, NO PLATING
47300-1004	GOLD 0.76 MICRONS MIN	
47300-1001	GOLD FLASH	
47300-1003	GOLD 0.38 MICRONS MIN	PHOSPHOR BRONZE, MATTE TIN PLATING
47300-1005	GOLD 0.76 MICRONS MIN	

REVISED EC NO: SH2010-0310 DRWING:GLLI 2010/02/25 CHKD: 2010/02/26 APPR:RZHANG 2010/04/08	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla_{\delta} = 0$ $\nabla_{\epsilon} = 0$ $\nabla_{\rho} = 0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	4:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: GLLI DATE: 2010/02/25 CHECKED BY: DATE: APPROVED BY: RZHANG DATE: 2010/02/26	TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW STANDARD TYPE MOLEX MOLEX INCORPORATED		
			MATERIAL NO. SEE TABLE SIZE: A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DOCUMENT NO. SD-47300-100	SHEET NO. 1 OF 7	

10 9 8 7 6 5 4 3 2 1

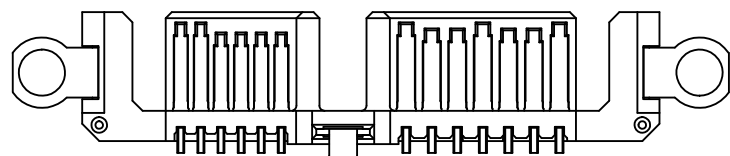
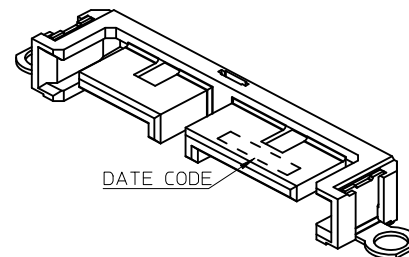
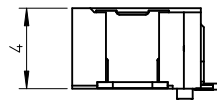
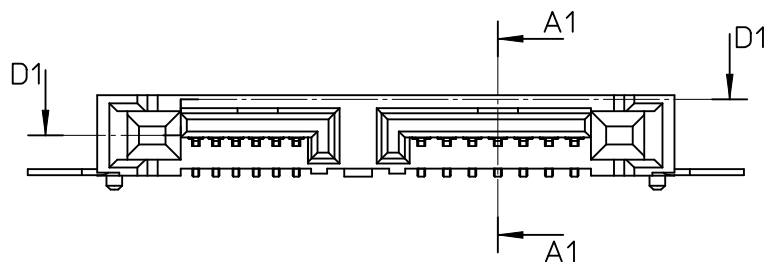


SECTION D1-D1



SECTION A1-A1

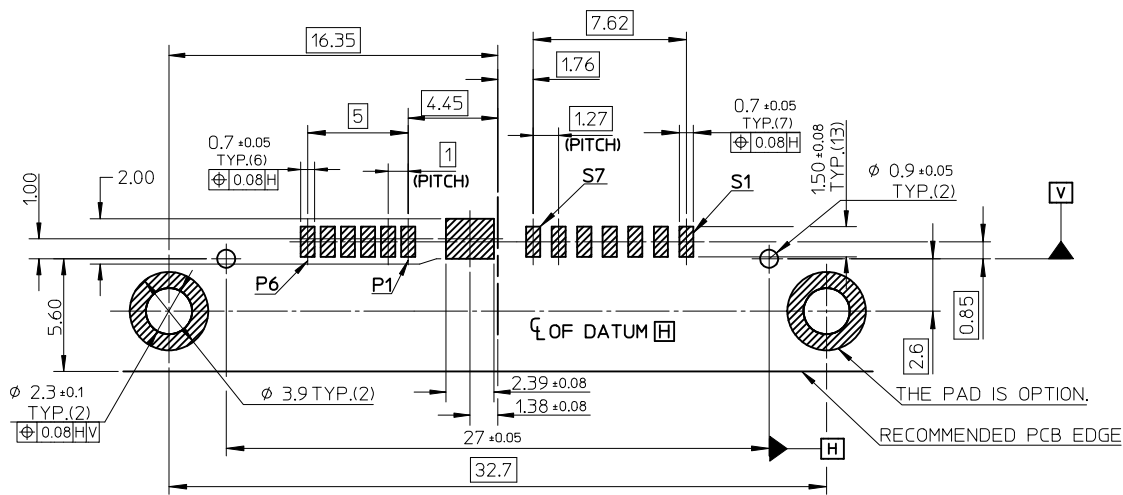
NOTES : OTHER DIMENSIONS AND NOTES REFER TO SHEET-1.



P/N	CONTACT PLATING	NAIL
47300-1014	GOLD FLASH	
47300-1012	GOLD 0.38 MICRONS MIN	STAINLESS STEEL, NO PLATING
47300-1010	GOLD 0.76 MICRONS MIN	
47300-1015	GOLD FLASH	
47300-1013	GOLD 0.38 MICRONS MIN	PHOSPHOR BRONZE, MATTE TIN PLATING
47300-1011	GOLD 0.76 MICRONS MIN	

REVISED EC NO: SH2010-0310 DRWNG: GLL1 CHKD: APPR: RZHANG REV: J	2010/02/25 2010/02/26 2010/04/08	QUALITY SYMBOLS $\nabla_F=0$ $\nabla_E=0$ $\nabla_B=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					MM ONLY	4:1	METRIC		
					DRAWN BY	DATE	TITLE		
					GLL1	2010/02/25	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER		
				CHECKED BY	DATE	MOLEX INCORPORATED			
				APPROVED BY	DATE	SD-47300-100		SHEET NO.	
				RZHANG	2010/02/26	2 OF 7			
				MATERIAL NO.	DOCUMENT NO.				
				SEE TABLE					
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

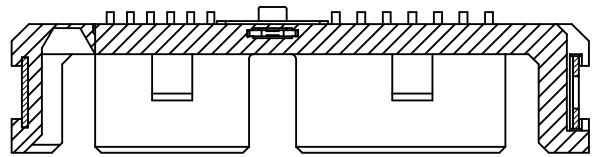
THICKNESS=0.8MM

REMARK:

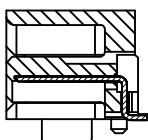
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

REVISED EC NO: SH2010-0310 DRW: GLLI CHKD: APPR: RZHANG REV J	2010/02/25 2010/02/26 2010/04/08	QUALITY SYMBOLS $\nabla = 0$ $\nabla = 0$ $\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY GLLI	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW TYPE			
			4 PLACES	± --- ± ---	CHECKED BY	DATE	APPROVED BY RZHANG 2010/02/26			
			3 PLACES	± --- ± ---	MATERIAL NO. SEE REMARK		DOCUMENT NO. SD-47300-100		SHEET NO. 3 OF 7	
		2 PLACES	± --- ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED				
		1 PLACE	± --- ± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
		ANGULAR ± 3°								

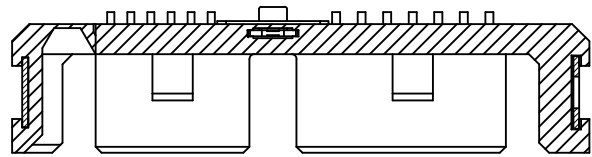
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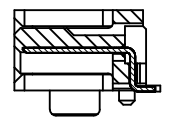
SECTION D-D



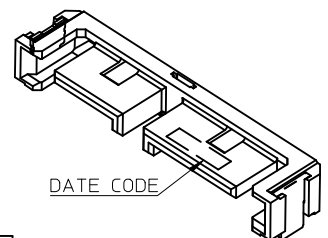
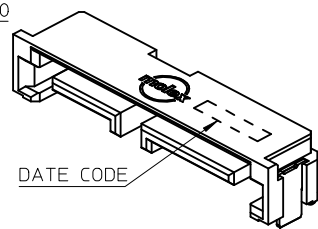
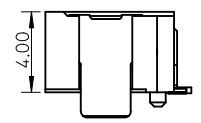
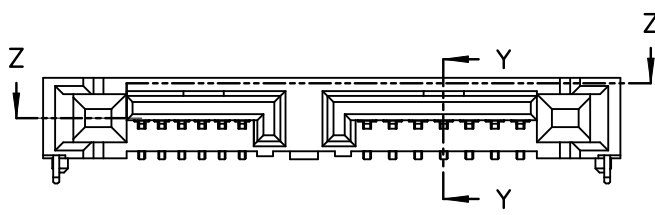
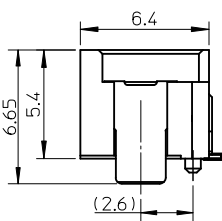
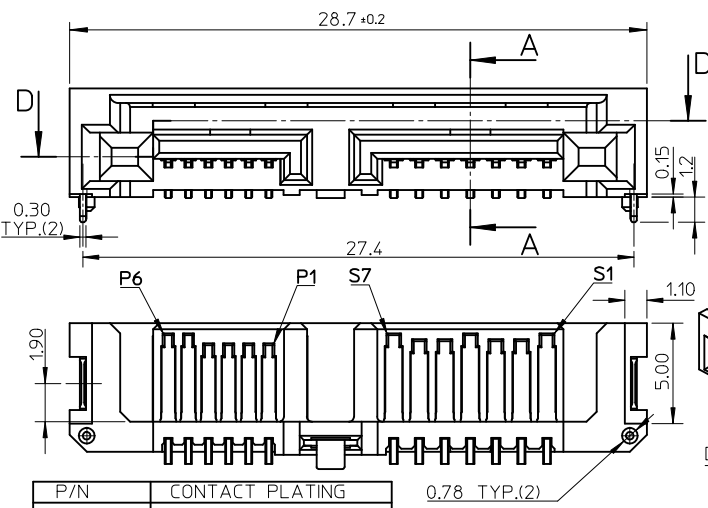
SECTION A-A



SECTION Z-Z

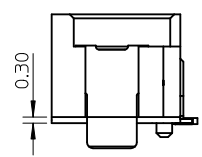
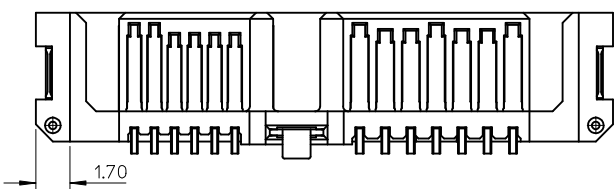


SECTION Y-Y



P/N	CONTACT PLATING
47300-1022	GOLD 0.76 MICRONS MIN
47300-1021	GOLD 0.38 MICRONS MIN
47300-1023	GOLD FLASH

P/N	CONTACT PLATING
47300-1032	GOLD 0.76 MICRONS MIN
47300-1031	GOLD 0.38 MICRONS MIN
47300-1030	GOLD FLASH



NOTES: ONLY FOR 47300-1020, OTHER DIMENSION AND NOTES REFER TO 47300-1023.

NOTES : OTHER DIMENSIONS AND NOTES REFER TO 47300-102X.

- NOTES :
- MATERIAL :
SOLDERING PEG : COPPER ALLOY
 - PLATING :
SOLDERING PEG :
MATTE TIN PLATING 1.0 MICRONS MIN.
OVER NICKEL PLATING 1.0 MICRONS MIN.
 - PRODUCT PACKAGE SPEC: PK-47300-003.
 - OTHER NOTES AND DIMENSIONS REFER TO SHEET-1.

REVISED	DESCRIPTION	QUALITY SYMBOLS
J	REV	▽F=0
J	REV	▽F=0
J	REV	▽F=0

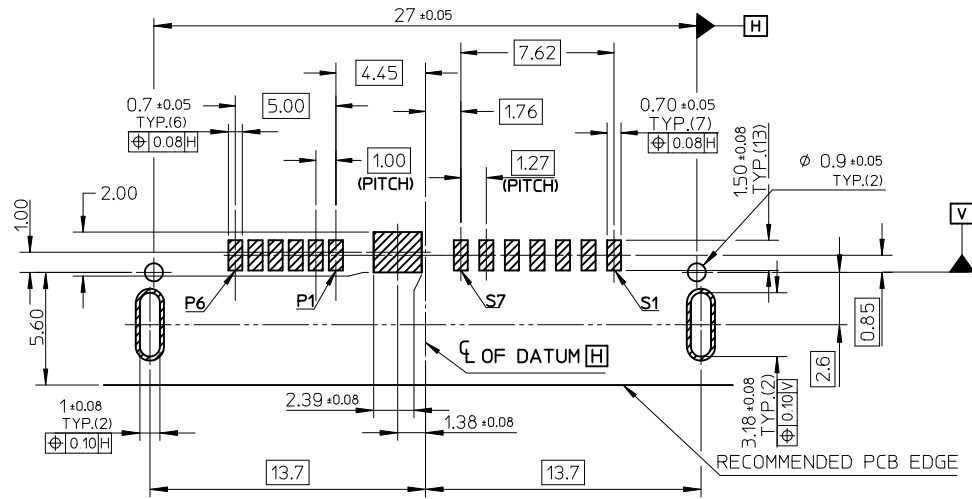
GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± ---
2 PLACES ± ---	± ---
1 PLACE ± ---	± ---
ANGULAR ± 3 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
GLL I	2010/02/25
CHECKED BY	DATE
APPROVED BY	DATE
RZHANG	2010/02/26
MATERIAL NO.	
SEE TABLE OR NOTES	
SIZE	A3

SCALE	DESIGN UNITS
4:1	METRIC
THIRD ANGLE PROJECTION	
TITLE	
SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER	
SOLDERING STANDARD TYPE	
MOLEX INCORPORATED	
DOCUMENT NO.	SHEET NO.
SD-47300-100	4 OF 7

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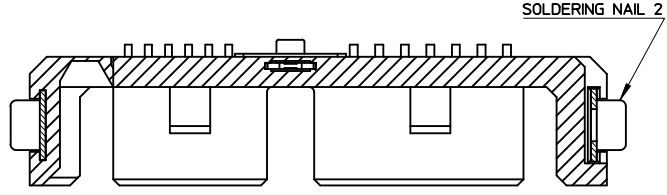
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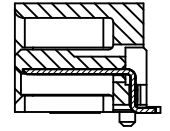
RECOMMEND PCB LAYOUT (THICKNESS=0.8)

REMARK:
THE PCB LAYOUT IS ONLY FOR 47300-102X AND 47300-103X.

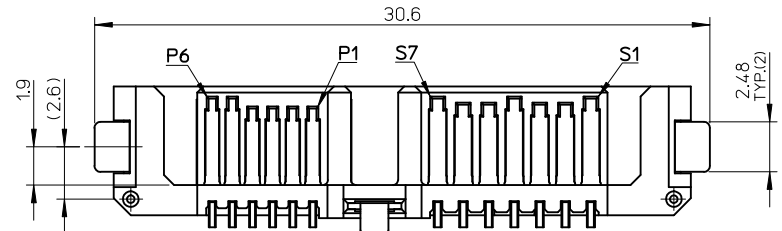
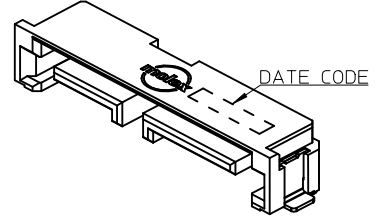
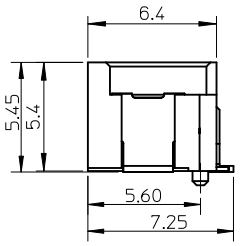
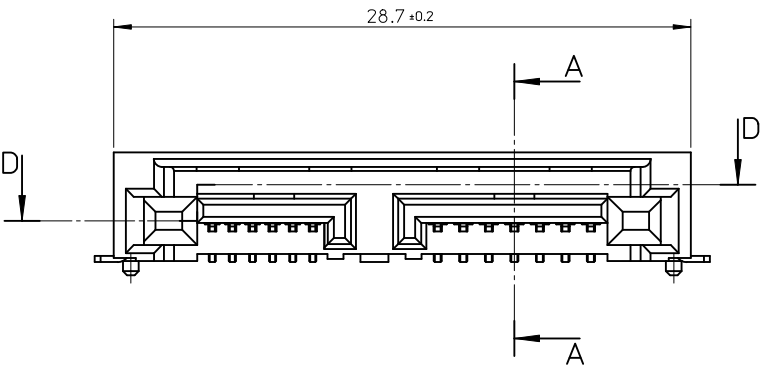
REVISED EC NO: SH2010-0310 DRWNG: GLL I CHKD: RZHANG APPR: RZHANG REV J	QUALITY SYMBOLS $\nabla = 0$ $\nabla = 0$ $\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY GLL I	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE		
		3 PLACES ± --- ± ---		CHECKED BY	DATE	MOLEX INCORPORATED		
		2 PLACES ± --- ± ---		APPROVED BY RZHANG	DATE 2010/02/26	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
		1 PLACE ± --- ± ---	ANGULAR ± 3 °	SEE REMARK			SD-47300-100	
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			



SECTION D-D



SECTION A-A

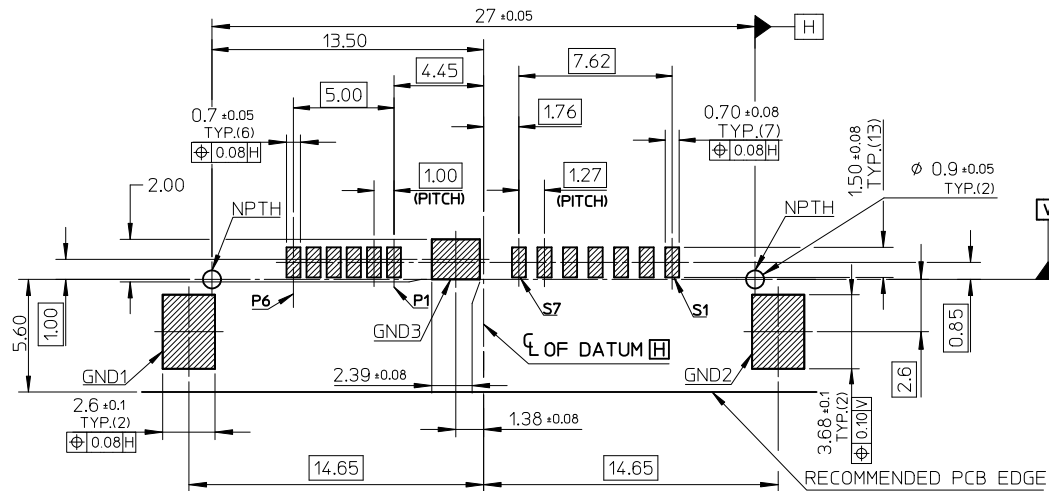


P/N	CONTACT PLATING
47300-1042	GOLD 0.76 MICRONS MIN
47300-1041	GOLD 0.38 MICRONS MIN
47300-1040	GOLD FLASH

NOTES :

- 1.MATERIAL :
SOLDERING NAIL 2 : COPPER ALLOY
- 2.PLATING :
SOLDERING NAIL 2 : MATTE TIN PLATING 1.0 MICRONS MIN.
OVER NICKEL PLATING 1.0 MICRONS MIN.
- 3.OTHER NOTES AND DIMENSIONS REFER TO SHEET-1.

REVISED EC NO: SH2010-0310 DRWN:GLL 2010/02/25 CHKD: 2010/07/26 APPR:RZHANG 2010/04/08	QUALITY SYMBOLS $\nabla_A = 0$ $\nabla_G = 0$ $\nabla_P = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± ---	mm INCH	DRAWN BY GLL I	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE			
		ANGULAR ± 3 °		APPROVED BY RZHANG	DATE 2010/02/26	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-47300-100	SHEET NO. 6 OF 7		



RECOMMEND PCB LAYOUT

REMARK:
THE PCB LAYOUT IS ONLY FOR 47300-104X

REVISED IEC NO: SH2010-0310 DRWG:GLL1 CHYKD: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08 DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																			
		$\nabla_F = 0$ $\nabla_E = 0$ $\nabla_A = 0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <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>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	MM ONLY	4:1	METRIC						
			mm	INCH																							
		4 PLACES	± ---	± ---																							
3 PLACES	± ---	± ---																									
2 PLACES	± ---	± ---																									
1 PLACE	± ---	± ---																									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	<table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> <td>TITLE</td> </tr> <tr> <td>GLL1</td> <td>2010/02/25</td> <td>SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td>RZHANG</td> <td>2010/02/26</td> <td></td> </tr> <tr> <td>MATERIAL NO.</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	DRAWN BY	DATE	TITLE	GLL1	2010/02/25	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE	CHECKED BY	DATE					APPROVED BY	DATE		RZHANG	2010/02/26		MATERIAL NO.						MOLEX INCORPORATED	SHEET NO. 7 OF 7
DRAWN BY	DATE	TITLE																									
GLL1	2010/02/25	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE																									
CHECKED BY	DATE																										
APPROVED BY	DATE																										
RZHANG	2010/02/26																										
MATERIAL NO.																											
		SEE REMARK	DOCUMENT NO. SD-47300-100																								
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								