

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

**Part Number:** [0473001023](#)  
**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, Gold (Au) Flash Plating, with Peg, 5.4mm (.213") Mounted Height, Lead-free

**Documents:**

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Headers
Series	<a href="#">47300</a>
Application	Board-to-Board
Comments	Soldering Standard Type
Overview	<a href="#">slimline serial ata odd connectors</a>
Product Name	Serial ATA, Slimline Serial ATA

**Physical**

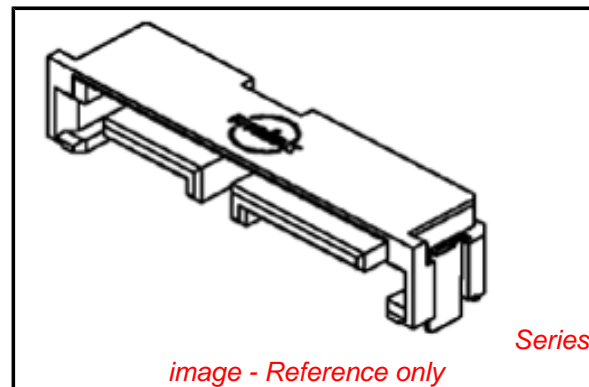
Breakaway	No
Circuits (Loaded)	13
Circuits (maximum)	13
Durability (mating cycles max)	500
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	No
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High 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)	2
Plating min: Mating (µm)	0.05
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**

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

**Material Info**

**Reference - Drawing Numbers**



*image - Reference only*

**EU RoHS**

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

**China RoHS**



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

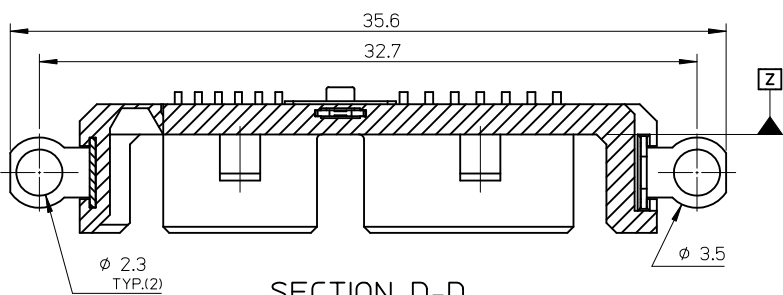
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

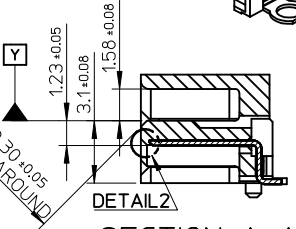
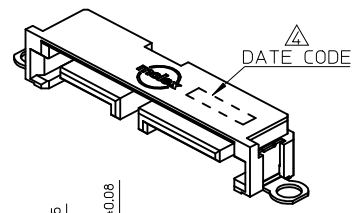
**Search Parts in this Series**  
[47300Series](#)

This document was generated on 05/26/2010

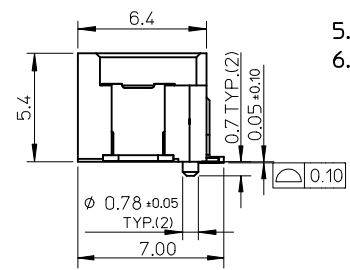
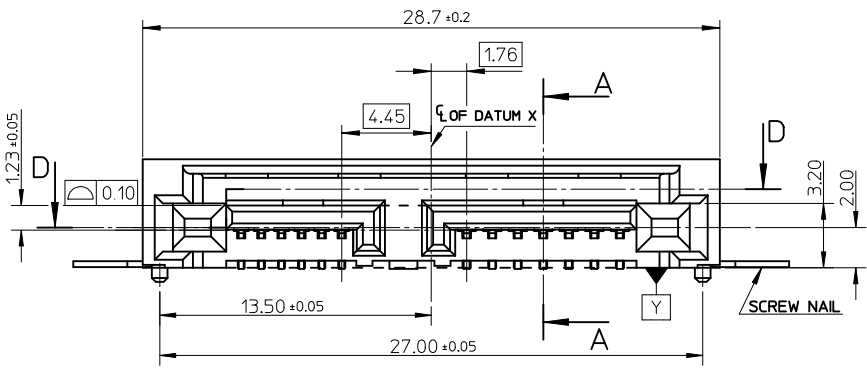
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



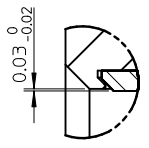
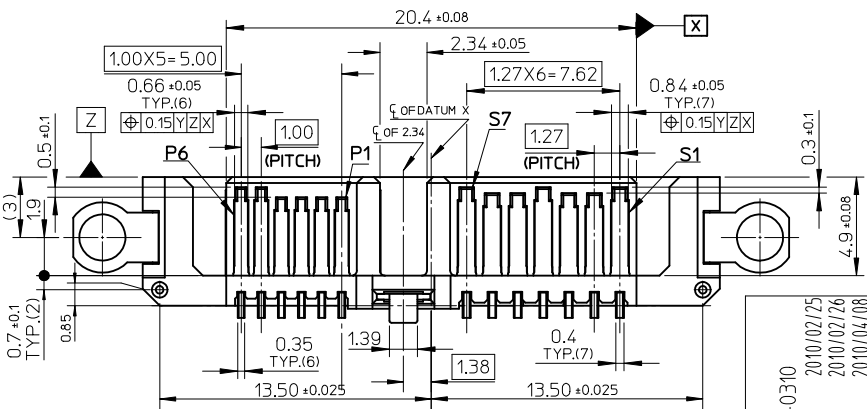
SECTION D-D



SECTION A-A



DETAIL 2

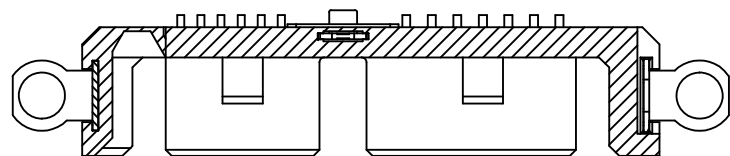


NOTES :

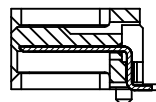
- 1.MATERIAL :  
HOUSING : HIGH TEMPERATURE THERMOPLASTIC, 30% G.F., UL94V-0, BLACK  
TERMINAL : COPPER ALLOY, THICKNESS=0.25 MM  
SCREW NAIL : STAINLESS, THICKNESS=0.30 MM  
SOLDERING NAIL : COPPER ALLOY, THICKNESS=0.30 MM
- 2.PLATING :  
TERMINAL :  
CONTACT AREA : GOLD PLATING 0.1 MICRONS MIN.  
SOLDERING 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	CHKD: CH'KD:	APPR: RZHANG	DESCRIPTION	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
						mm	INCH	MM ONLY	4:1	METRIC	THIRD ANGLE PROJECTION						
0	0	0	0	0	0	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE						
0	0	0	0	0	0	3 PLACES	± ---	± ---	GLLI	2010/02/25	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER						
0	0	0	0	0	0	2 PLACES	± ---	± ---	CHECKED BY	DATE	SCREW STANDARD TYPE						
0	0	0	0	0	0	1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED						
ANGULAR ± 3 °						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		DOCUMENT NO.		SD-47300-100		SHEET NO.			
REVISED						MATERIAL NO.		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

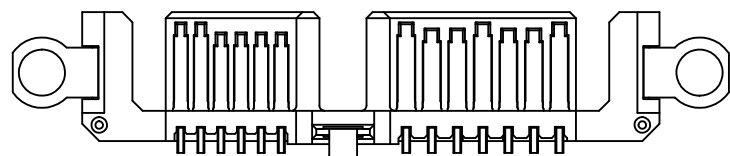
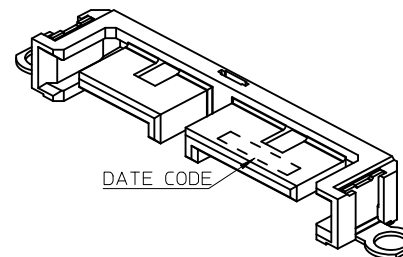
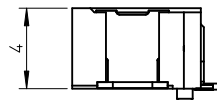
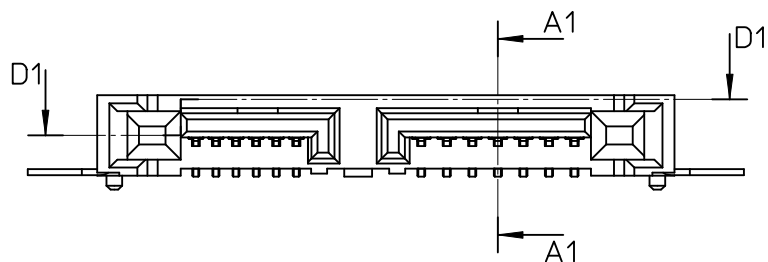


SECTION D1-D1



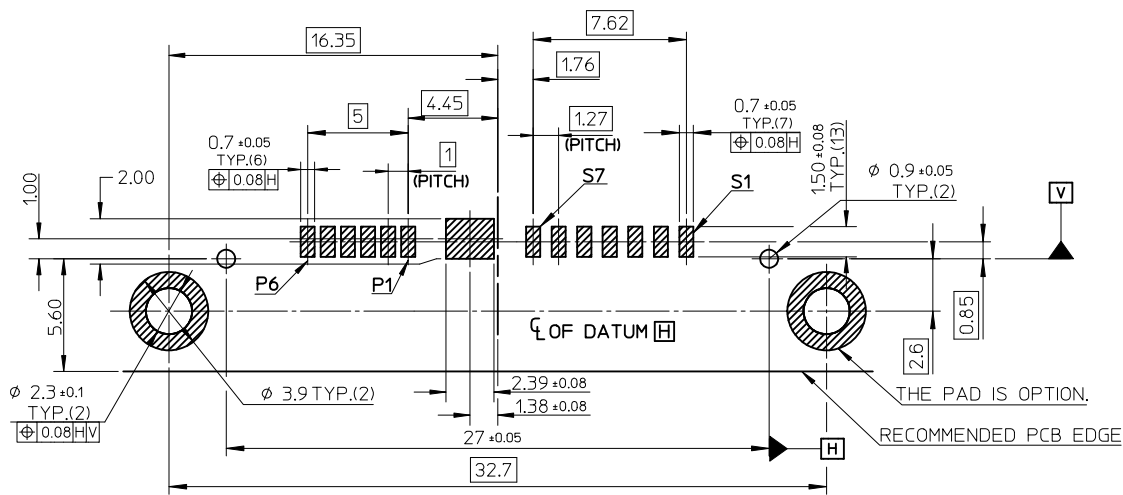
SECTION A1-A1

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	DESCRIPTION 2010/02/25 2010/02/26 2010/04/08	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla_F=0$ $\nabla_E=0$ $\nabla_D=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	4:1	METRIC	DRAWN BY: GLL1    DATE: 2010/02/25 CHECKED BY:    DATE:	TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW LOW TYPE MOLEX INCORPORATED
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	APPROVED BY: RZHANG    DATE: 2010/02/26 MATERIAL NO.    DOCUMENT NO. SD-47300-100	SHEET NO. 2 OF 7		
				SIZE: A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

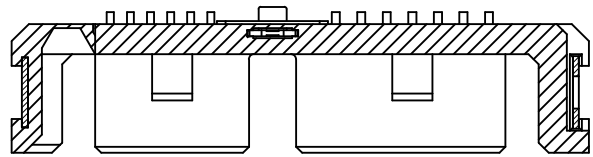
THICKNESS=0.8MM

REMARK:

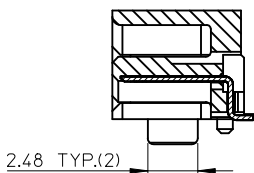
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

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 <b>MM ONLY</b>		SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY GLLI	DATE 2010/02/25	TITLE <b>SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW TYPE</b>			
			4 PLACES	± --- ± ---	CHECKED BY RZHANG	DATE 2010/02/26	MOLEX INCORPORATED			
			3 PLACES	± --- ± ---	APPROVED BY RZHANG		DATE 2010/02/26	DOCUMENT NO. <b>SD-47300-100</b>		SHEET NO. <b>3 OF 7</b>
		2 PLACES	± --- ± ---	MATERIAL NO. <b>SEE REMARK</b>		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		1 PLACE	± --- ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
		ANGULAR ± 3 °								

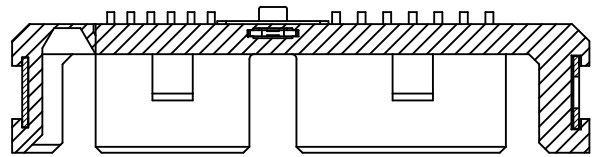
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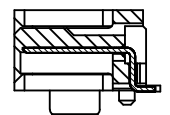
SECTION D-D



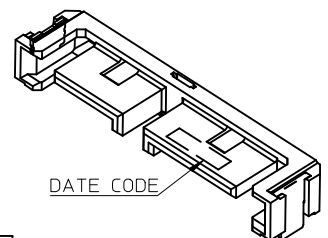
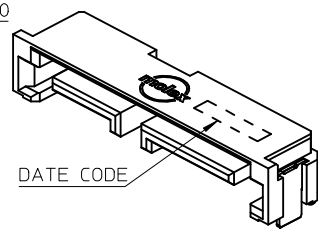
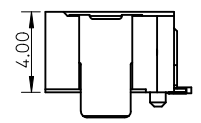
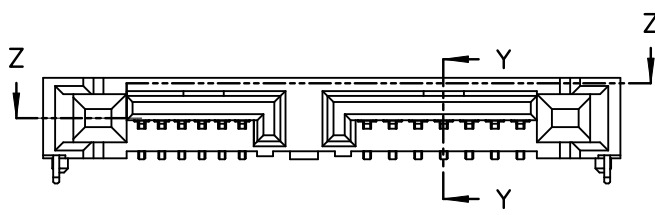
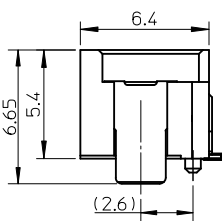
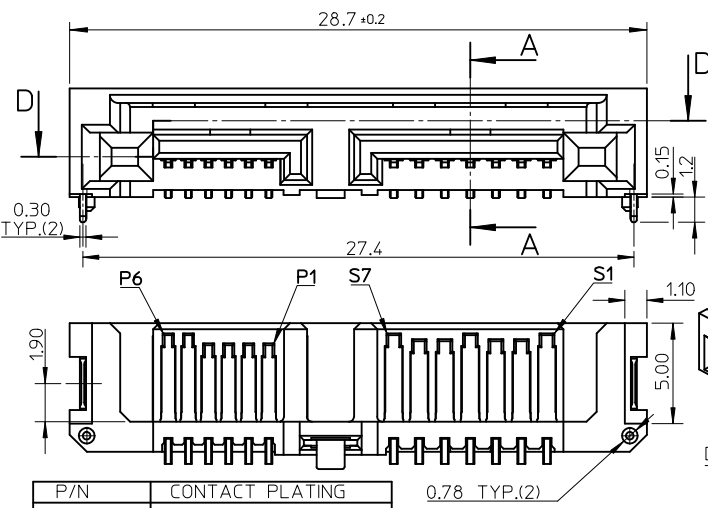
SECTION A-A



SECTION Z-Z

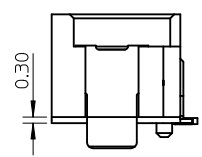
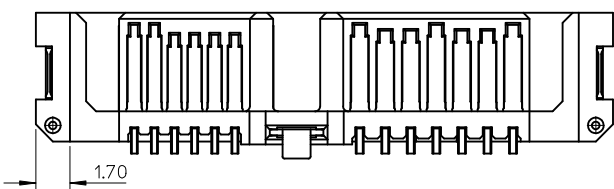


SECTION Y-Y



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

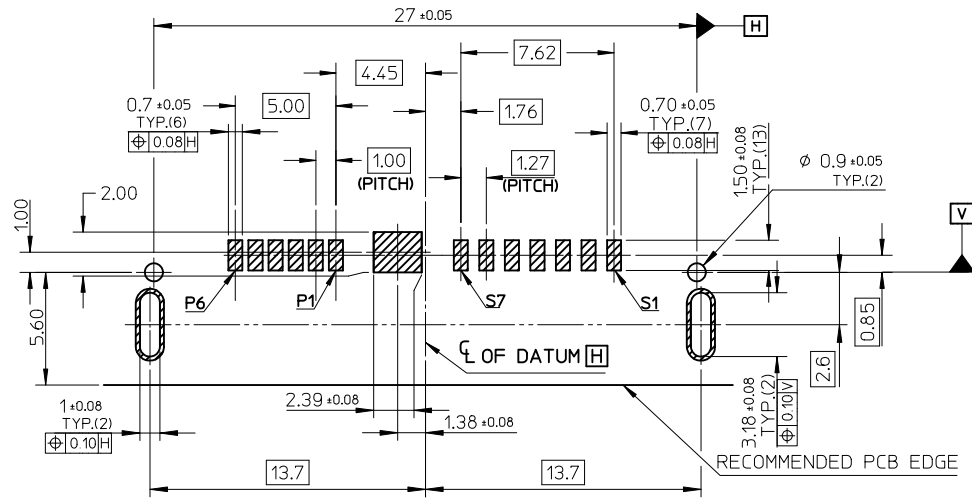
TITLE  
SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER  
SOLDERING STANDARD TYPE

**molex** MOLEX INCORPORATED

DOCUMENT NO. SD-47300-100 SHEET NO. 4 OF 7

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

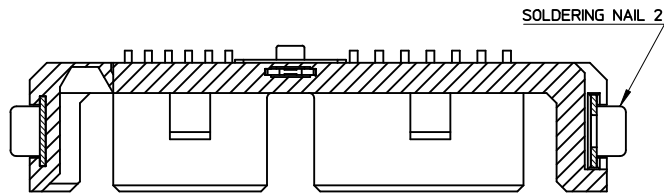


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

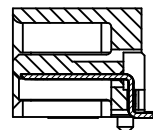
REMARK:

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

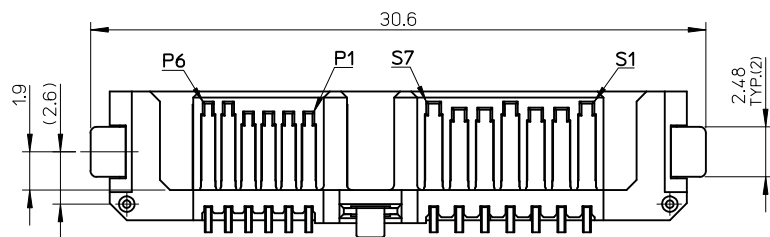
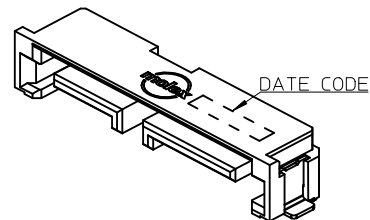
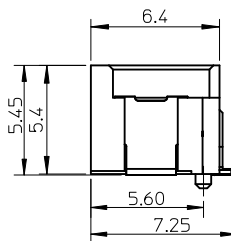
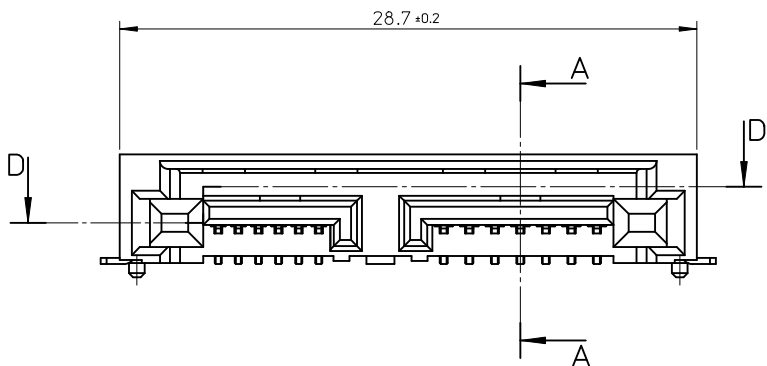
REVISED EC NO: SH2010-0310 DRWNG: GLL I CHKD: 2010/02/26 APPR: RZHANG 2010/04/08	QUALITY SYMBOLS $\nabla = 0$ $\nabla = 0$ $\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	mm 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	DOCUMENT NO. SD-47300-100		
		1 PLACE ± --- ± ---		MATERIAL NO. SEE REMARK		SHEET NO. 5 OF 7			
		ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									



SECTION D-D



SECTION A-A



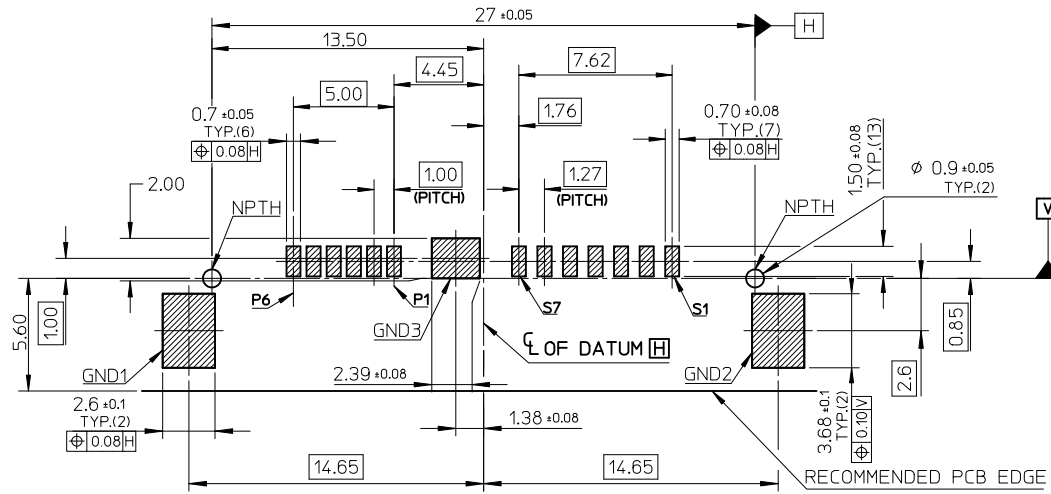
P/N	CONTACT PLATING
47300-1042	GOLD 0.76 MICRONS MIN
47300-1041	GOLD 0.38 MICRONS MIN
47300-1040	GOLD FLASH

NOTES :

- MATERIAL :  
SOLDERING NAIL 2 : COPPER ALLOY
- PLATING :  
SOLDERING NAIL 2 : MATTE TIN PLATING 1.0 MICRONS MIN.  
OVER NICKEL PLATING 1.0 MICRONS MIN.
- 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	DESCRIPTION J	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_F = 0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	4:1	METRIC	DRAWN BY: GLL I    DATE: 2010/02/25 CHECKED BY:    DATE: APPROVED BY: RZHANG    DATE: 2010/02/26	TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE MOLEX INCORPORATED DOCUMENT NO. SD-47300-100
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MATERIAL NO. SIZE A3	SHEET NO. 6 OF 7			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						





**RECOMMEND PCB LAYOUT**

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

REVISED IEC NO: SH2010-0310 DRWG:GLL1 CHYKD: APPR:RZHANG	QUALITY SYMBOLS $\nabla_F = 0$ $\nabla_F = 0$ $\nabla_F = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± ---	mm INCH ± --- ± --- ± --- ± --- ± --- ± ---	DRAWN BY GLL1	DATE 2010/02/25	TITLE <b>SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE</b>			
		ANGULAR ± 3 °		APPROVED BY RZHANG	DATE 2010/02/26	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE REMARK</b>	DOCUMENT NO. SD-47300-100	SHEET NO. 7 OF 7			