

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0473001040](#)
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 Fitting Type Soldering Nail, Right Angle, Gold (Au) Flash Plating, with Pegs, Lead-free

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

Agency Certification

CSA LR 19980

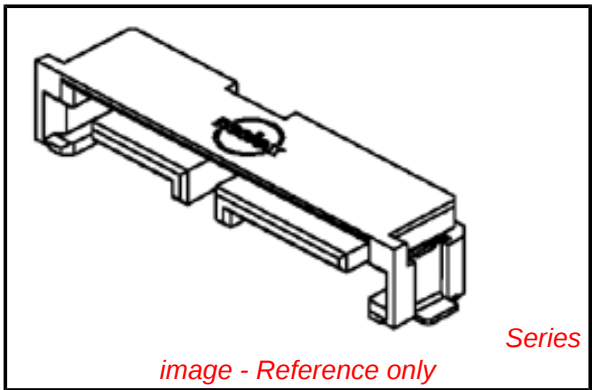
General

Product Family PCB Headers
Series [47300](#)
Application Board-to-Board
Comments Fitting 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) 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



EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

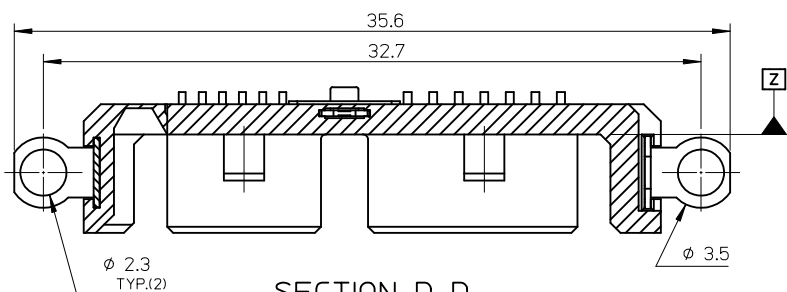
Reference - Drawing Numbers

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

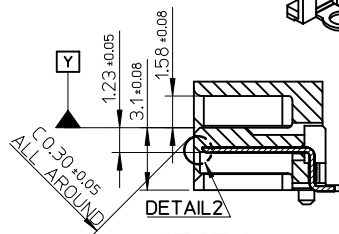
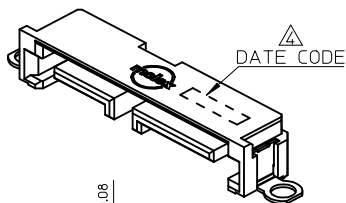
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

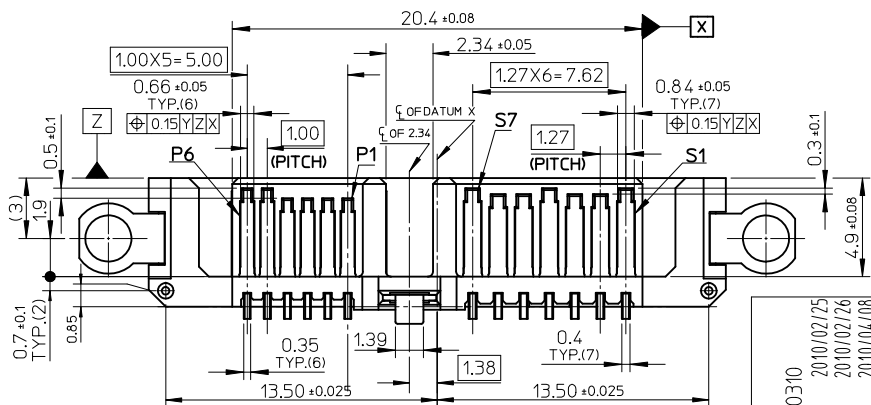
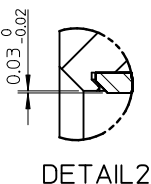
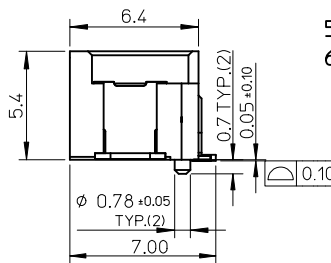
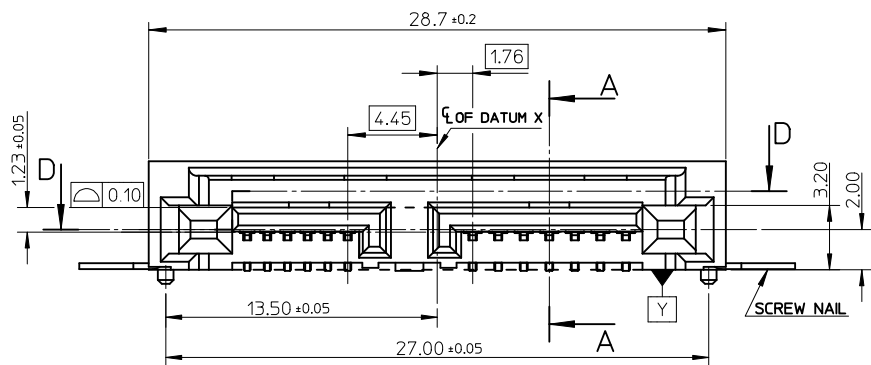
10 9 8 7 6 5 4 3 2 1



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.

4.DATE CODE FORMAT: YY/MM/DD/XX/S, 'XX' IS USED TO MARK
TERMINAL GOLD PLATING SPEC,
'05' IS FOR FL5H, '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	STAINLESS STEEL, NO PLATING
47300-1002	GOLD 0.38 MICRONS MIN	
47300-1004	GOLD 0.76 MICRONS MIN	
47300-1001	GOLD FLASH	PHOSPHOR BRONZE, MATTE TIN PLATING
47300-1003	GOLD 0.38 MICRONS MIN	
47300-1005	GOLD 0.76 MICRONS MIN	

REVISED EC NO: SH2010-0310 DRAWN:GLLI CHK'D: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08	DESCRIPTION	QUALITY SYMBOLS ▽ F=0 ▽ F=0 ▽ F=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 STANDARD TYPE				
				4 PLACES	± ---	± ---	CHECKED BY	DATE					
				3 PLACES	± ---	± ---							
				2 PLACES	± ---	± ---			MOLEX MOLEX INCORPORATED				
				1 PLACE	± ---	± ---	APPROVED BY RZHANG	DATE 2010/02/26					
				ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-47300-100		1 OF 7						
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

F

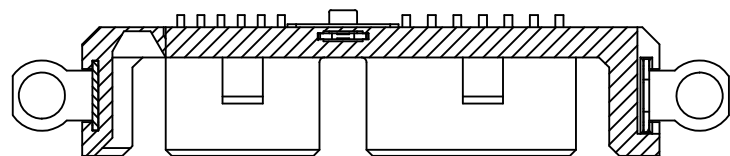
E

D

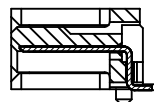
C

B

A

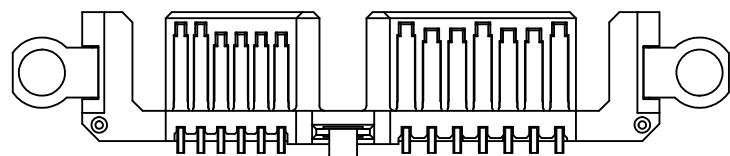
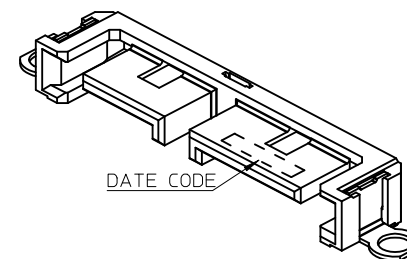
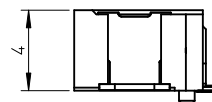
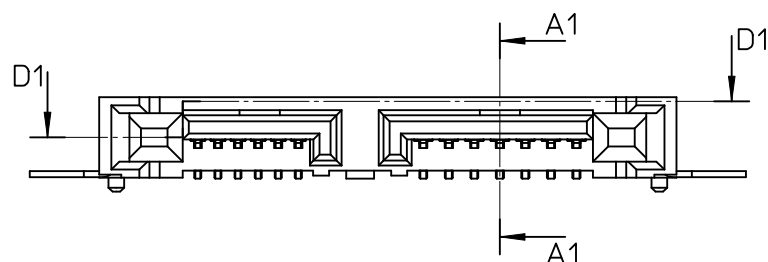


SECTION D1-D1



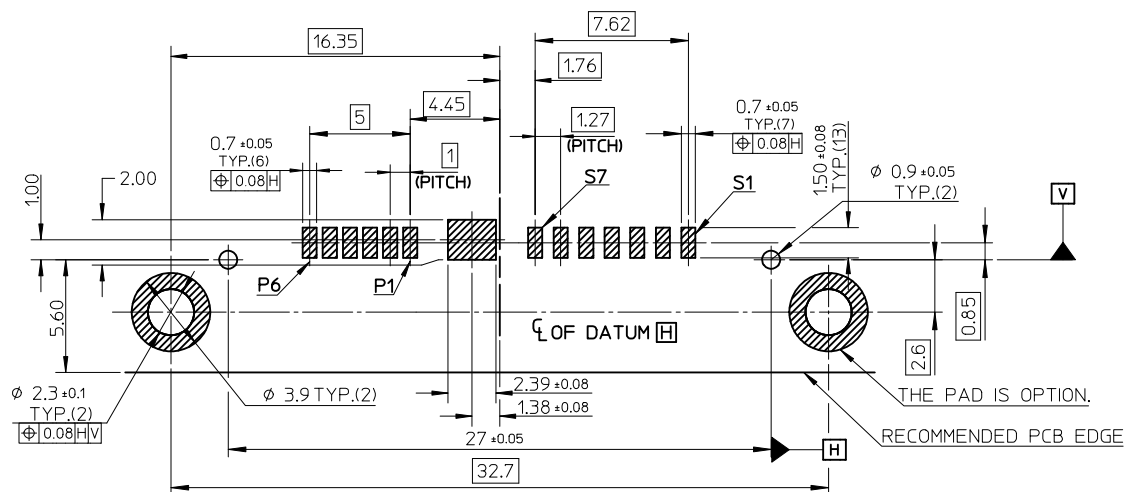
SECTION A1-A1

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



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

REVISED EC NO: SH2010-0310 J 2010/02/25 DRW:GLL1 CHKD: 2010/02/26 APPR:RZHANG 2010/04/08	DESCRIPTION	QUALITY SYMBOLS F A =0 F C =0 F P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GLL1	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW LOW TYPE				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	APPROVED BY RZHANG		DATE 2010/02/26	MOLEX INCORPORATED			
			2 PLACES	± ---	± ---							
			1 PLACE	± ---	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-47300-100	SHEET NO. 2 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									



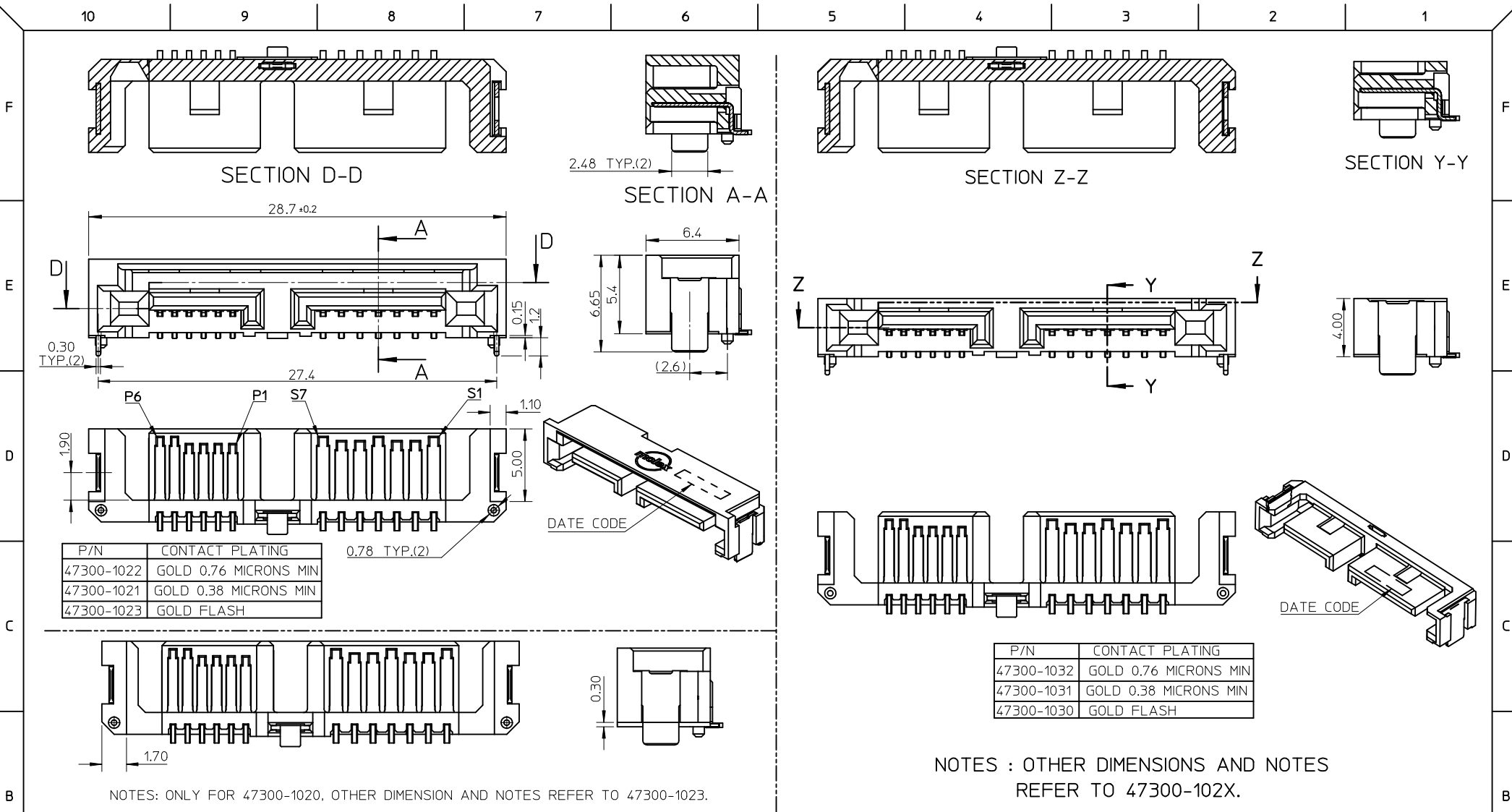
RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

THICKNESS=0.8MM

REMARK:

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

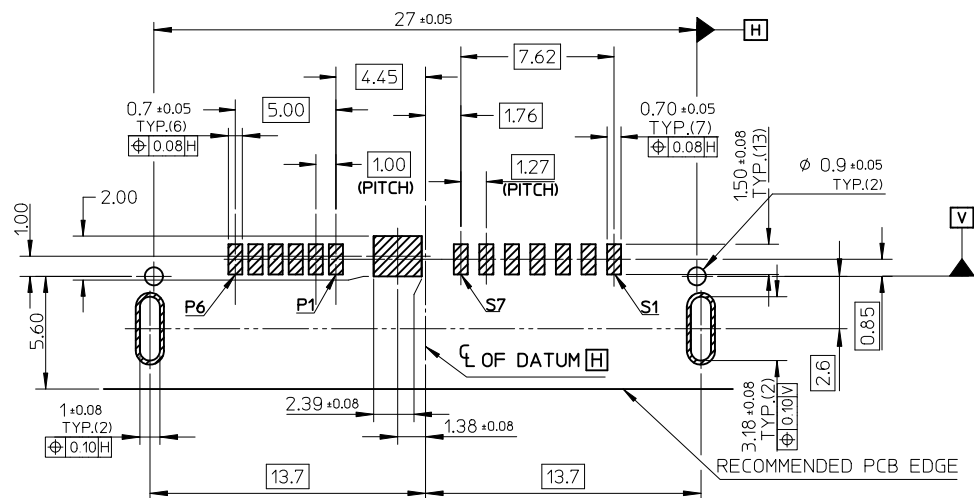
REVISED	EC NO: SH2010-0310	2010/02/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	DRWNG:GLLI	2010/02/26			MM ONLY		4:1	METRIC				
	CHKD:	2010/04/08										
	APPR:RZHANG											
	REV											
	F _A =0				DRAWN BY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



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

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

REVISED EC NO: SH2010-0310 2010/02/25 DRW:GLL1 CHKD: 2010/02/26 APPR:RZHANG 2010/04/08 REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY GLL1	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING STANDARD TYPE MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY	DATE				
			3 PLACES	± ---	± ---	APPROVED BY RZHANG	DATE 2010/02/26				
			2 PLACES	± ---	± ---	MATERIAL NO.				DOCUMENT NO.	SHEET NO.
			1 PLACE	± ---	± ---	SEE TABLE OR NOTES				SD-47300-100	4 OF 7
			ANGULAR ± 3 °								
			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				

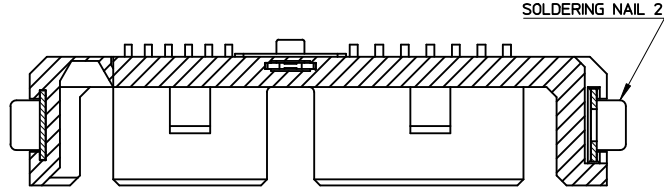


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

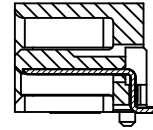
REMARK:

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

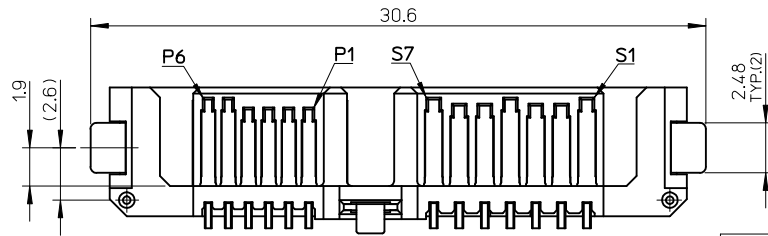
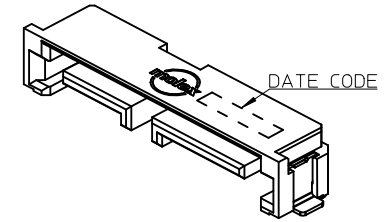
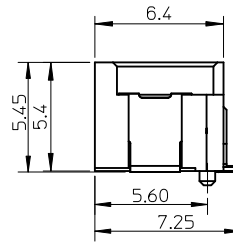
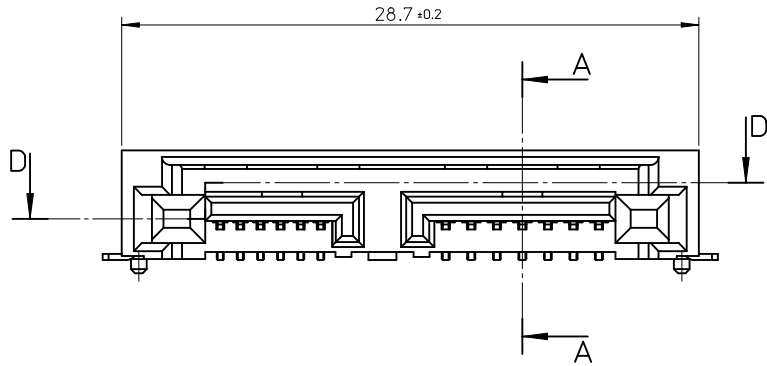
REVISED	EC NO: SH2010-0310	2010/02/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	TITLE	
	DRW:GLL I	2010/02/26			MM ONLY		4:1	METRIC	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE				
	CHKD:	2010/04/08			mm	INCH	DRAWN BY	DATE		MOLEX INCORPORATED			
	APPR:RZHANG				4 PLACES	± ---	± ---	GLL I					2010/02/25
					3 PLACES	± ---	± ---	CHECKED BY					DATE
					2 PLACES	± ---	± ---	APPROVED BY	DATE	 MOLEX INCORPORATED			
					1 PLACE	± ---	± ---	RZHANG	2010/02/26				
					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE REMARK		SD-47300-100		5 OF 7		
	J		REV				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	2010/02/25	DRWN:GLLI	2010/07/26	CHKD:	2010/04/08	APPR:RZHANG	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
											MM ONLY		4:1	METRIC				
													DRAWN BY	DATE	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE			
													GLLI	2010/02/25				
													CHECKED BY	DATE				
										4 PLACES	± ---	± ---			MOLEX INCORPORATED			
	3 PLACES	± ---	± ---															
	2 PLACES	± ---	± ---															
	1 PLACE	± ---	± ---			APPROVED BY		DATE	MOLEX INCORPORATED									
	ANGULAR ± 3 °				RZHANG		2010/02/26											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
											SEE TABLE		SD-47300-100		6 OF 7			
J	REV								SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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:

- Конкурентоспособные 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

www.lifeelectronics.ru