

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0473001002

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 Standard Type Screw, Right Angle, 0.38µm (15µ") Gold (Au) Plating, Unplated Stainless Steel Screw Nail, with Pegs, Lead-free

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-47300-001 \(PDF\)](#)

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

Agency Certification

CSA

LR 19980

General

Product Family

Series

Application

Comments

Overview

Product Name

PCB Headers

47300

Board-to-Board

Screw Type

[slimline_serial_ata_odd_connectors](#)

Serial ATA, Slimline Serial ATA

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Durability (mating cycles max)

First Mate / Last Break

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

No

13

13

500

Yes

94V-0

No

Yes

Yes

No

Gold

Tin

High Temperature Thermoplastic

1

Right Angle

Yes

Yes

Embossed Tape on Reel

0.039 In, 0.050 In

1.00 mm, 1.27 mm

0.039 In, 0.050 In

1.00 mm, 1.27 mm

15

0.38

39

1

Yes

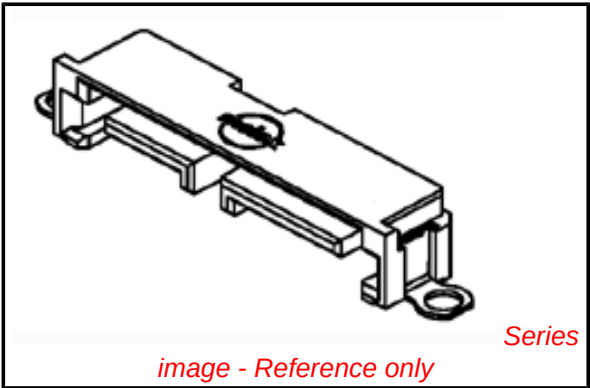
Yes

No

-35°C to +85°C

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

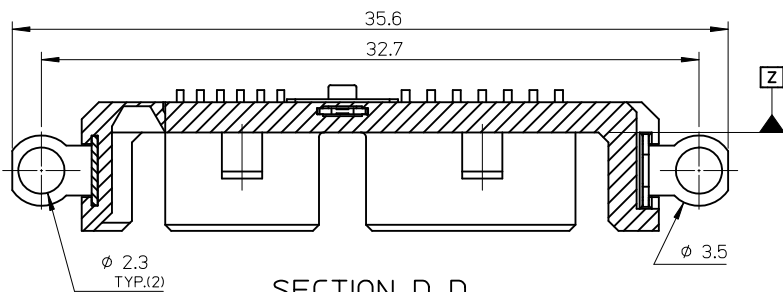
Reference - Drawing Numbers

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

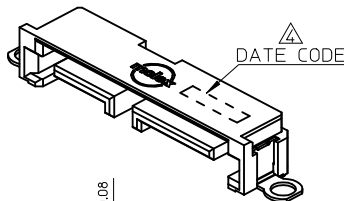
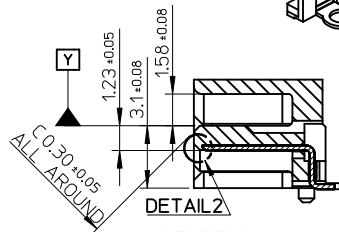
This document was generated on 05/26/2010

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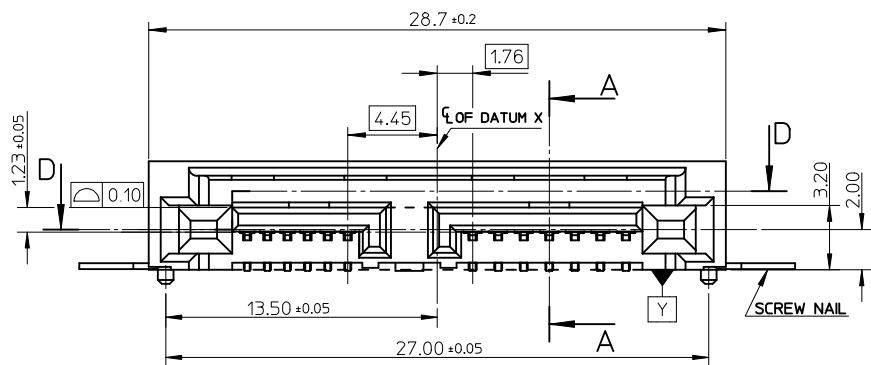
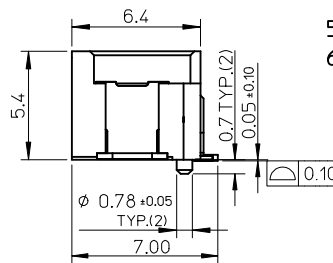
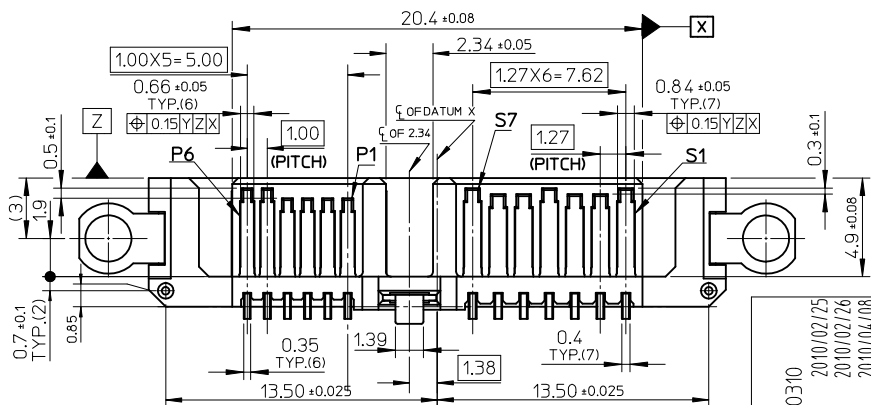
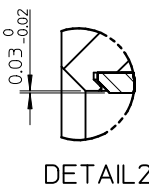
10 9 8 7 6 5 4 3 2 1



SECTION D-D



SECTION A-A



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	

DESIGN UNITS	THIRD ANGLE PROJECTION
METRIC	
SCALE	4:1
DIMENSION STYLE	MM ONLY
DRAWN BY	DATE
GILLI	2010/02/25
CHECKED BY	DATE
APPROVED BY	DATE
RZHANG	2010/02/26
MATERIAL NO.	DOCUMENT NO.
SEE TABLE	
SIZE	A3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
F _A =0	4 PLACES ± --- ± ---
F _C =0	3 PLACES ± --- ± ---
F _P =0	2 PLACES ± --- ± ---
	1 PLACE ± --- ± ---
	ANGULAR ± 3 °
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REVISED	EC NO: SH2010-0310
DRW:GILLI	2010/02/25
CHKD:	2010/02/26
APPR:RZHANG	2010/04/08
REV	

10 9 8 7 6 5 4 3 2 1

F

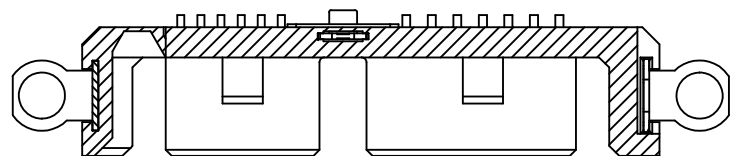
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D

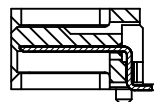
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B

A

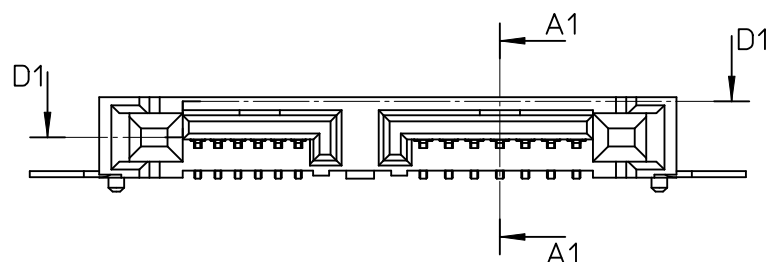
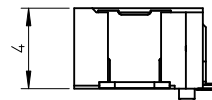
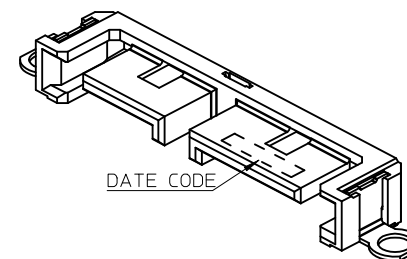
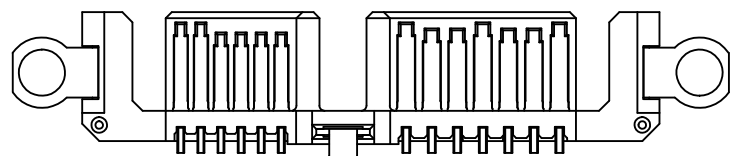


SECTION D1-D1



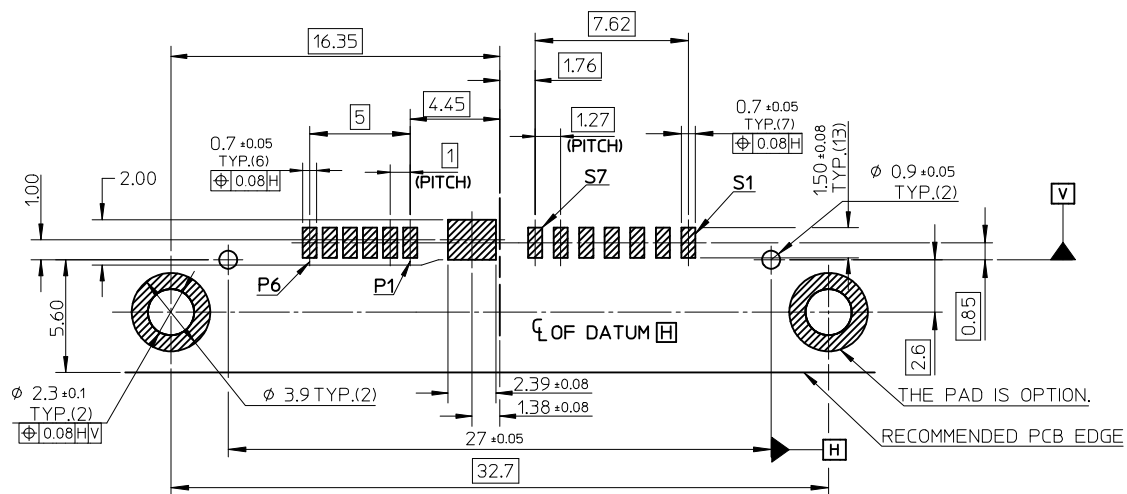
SECTION A1-A1

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:GGL1 CHKD: 2010/02/26 APPR:RZHANG 2010/04/08	DESCRIPTION REV	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 GGL1	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW LOW TYPE	
			4 PLACES	± ---	± ---	CHECKED BY	DATE		
			3 PLACES	± ---	± ---				
			2 PLACES	± ---	± ---				
			1 PLACE	± ---	± ---				
			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. 2 OF 7	
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



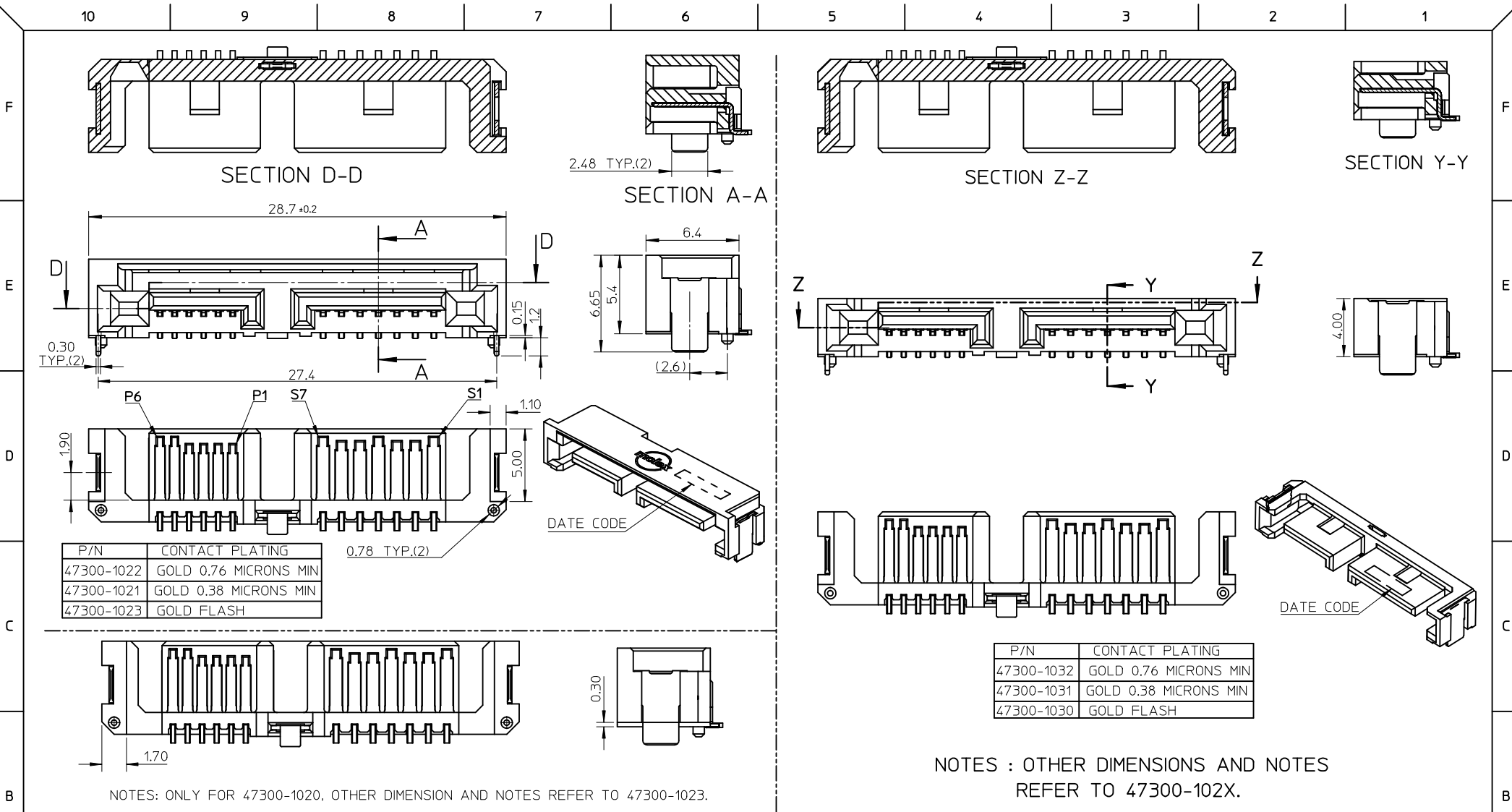
RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

THICKNESS=0.8MM

REMARK:

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

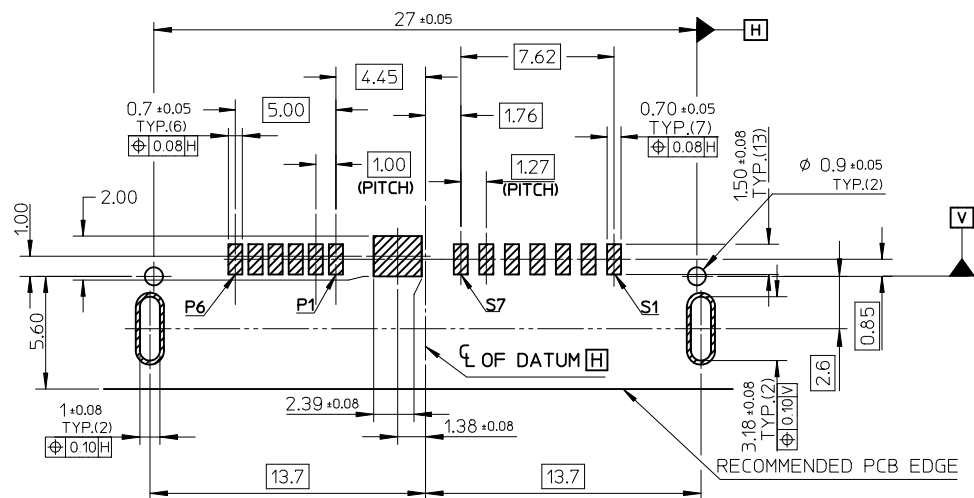
REVISED EC NO: SH2010-0310 DRWNG:GLL I CHKD: APPR:RZHANG	2010/02/25	2010/02/26	2010/04/08	DESCRIPTION REV	QUALITY SYMBOLS <div><div>FA=0</div><div>FE=0</div><div>FP=0</div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		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



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 DRAWING: GLL1 2010/02/26 CHKD: 2010/04/08 APPR: RZHANG REV	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 GLL1	DATE 2010/02/25	
				4 PLACES	± --- ± ---	CHECKED BY	DATE	
				3 PLACES	± --- ± ---			
				2 PLACES	± --- ± ---	APPROVED BY RZHANG	DATE 2010/02/26	
				1 PLACE	± --- ± ---	MATERIAL NO.		
				ANGULAR ± 3 °		SEE TABLE OR NOTES		
				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		
						DOCUMENT NO. SD-47300-100		SHEET NO. 4 OF 7

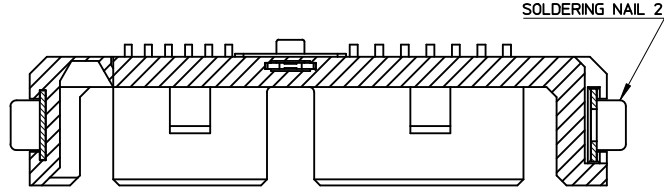


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

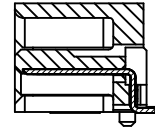
REMARK:

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

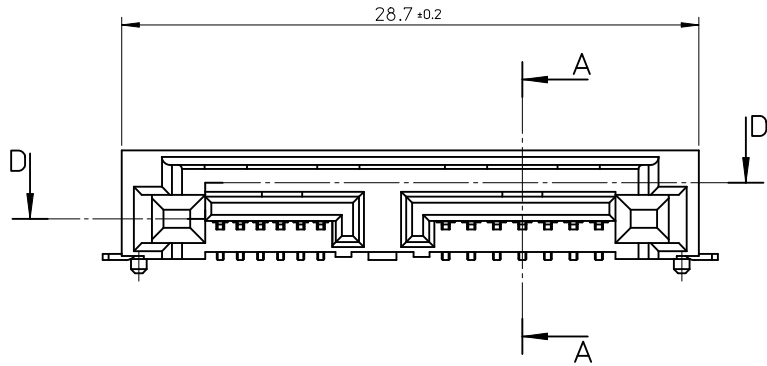
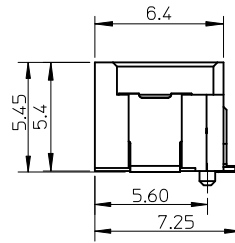
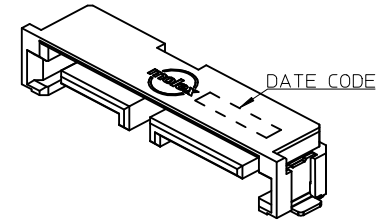
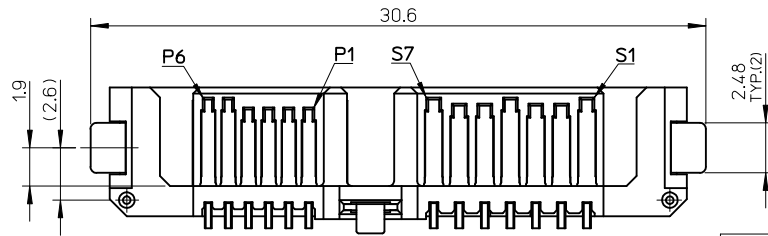
REVISED	2010/02/25	2010/02/26	2010/04/08	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		TITLE	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE		
	EC NO: SH2010-0310	DRW:GILLI	CHKD:			APPR:RZHANG	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE REMARK	MATERIAL NO.	DOCUMENT NO.	SD-47300-100	SHEET NO.					
													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:GLL	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			
													GLL I	2010/02/25				
													CHECKED BY	DATE				
			APPROVED BY	DATE														
						MOLEX		MOLEX INCORPORATED										
						MATERIAL NO.		DOCUMENT NO.		SHEET NO.								
						SEE TABLE		SD-47300-100		6 OF 7								
						SIZE			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												

