

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0473001021

Status:

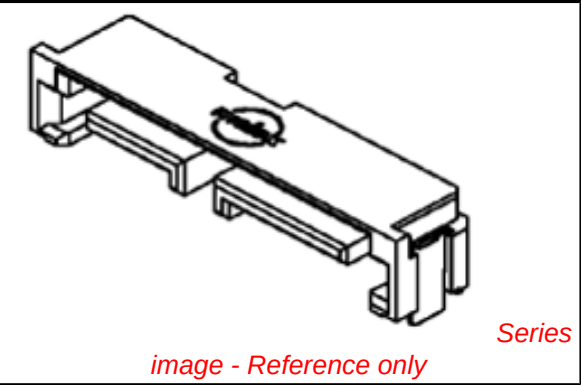
Active

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, 5.4mm (.213") Mounted Height, Lead-free



Documents:

[Drawing \(PDF\)](#)

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

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

Agency Certification

CSA

LR 19980

General

Product Family

Series

Application

Comments

Overview

Product Name

PCB Headers

47300

Board-to-Board

Soldering Standard 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

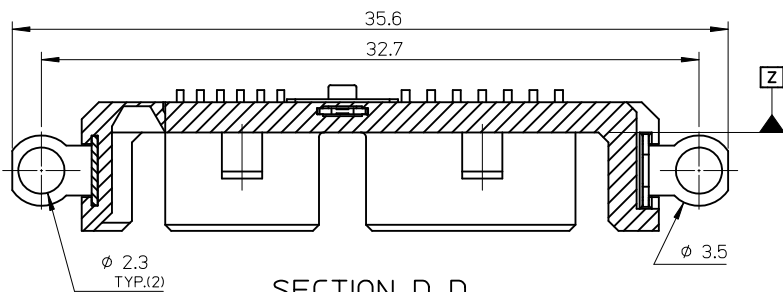
Reference - Drawing Numbers

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

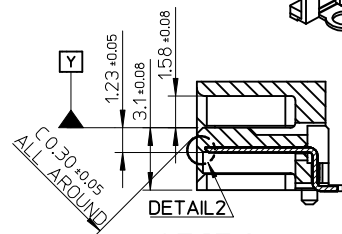
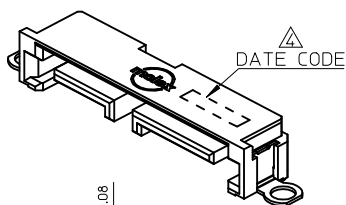
This document was generated on 05/26/2010

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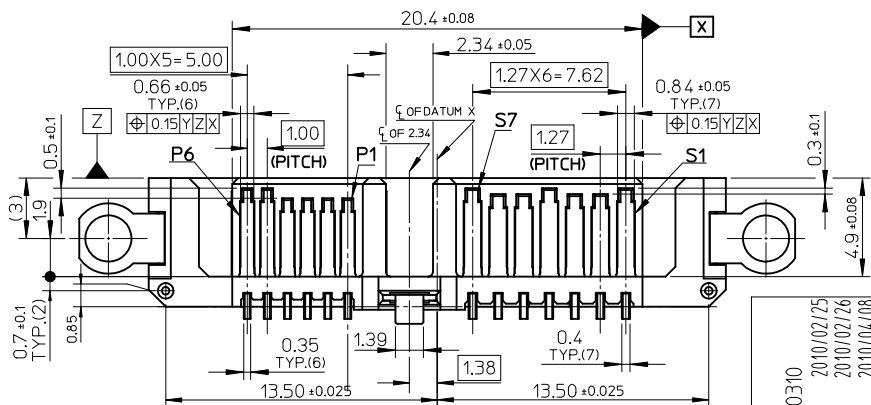
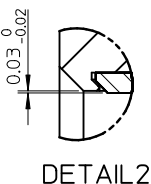
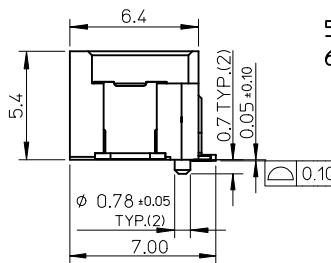
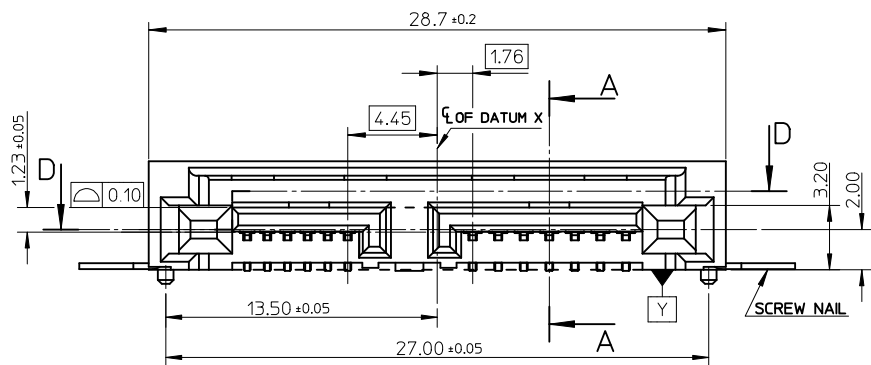
10 9 8 7 6 5 4 3 2 1



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 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	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
GLLI	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	

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

QUALITY SYMBOLS
F _A =0
F _C =0
F _P =0

REVISED
EC NO: SH2010-0310
DRW:GLLI
CHKD:
APPR:RZHANG
REV

10 9 8 7 6 5 4 3 2 1

F

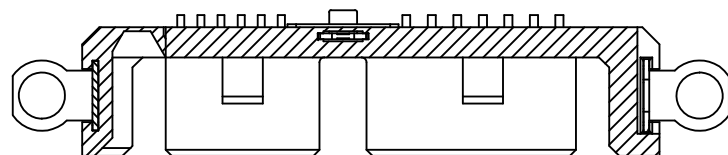
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D

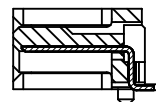
C

B

A

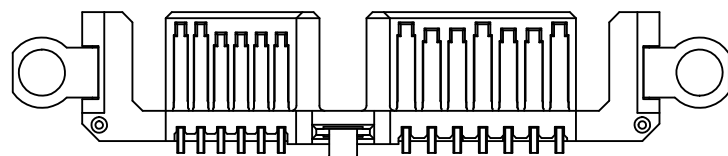
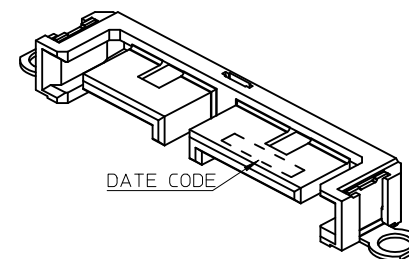
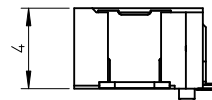
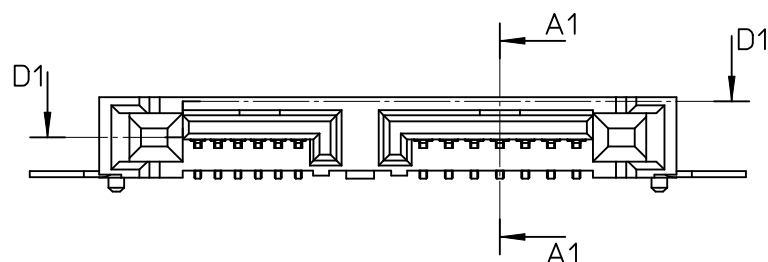


SECTION D1-D1



SECTION A1-A1

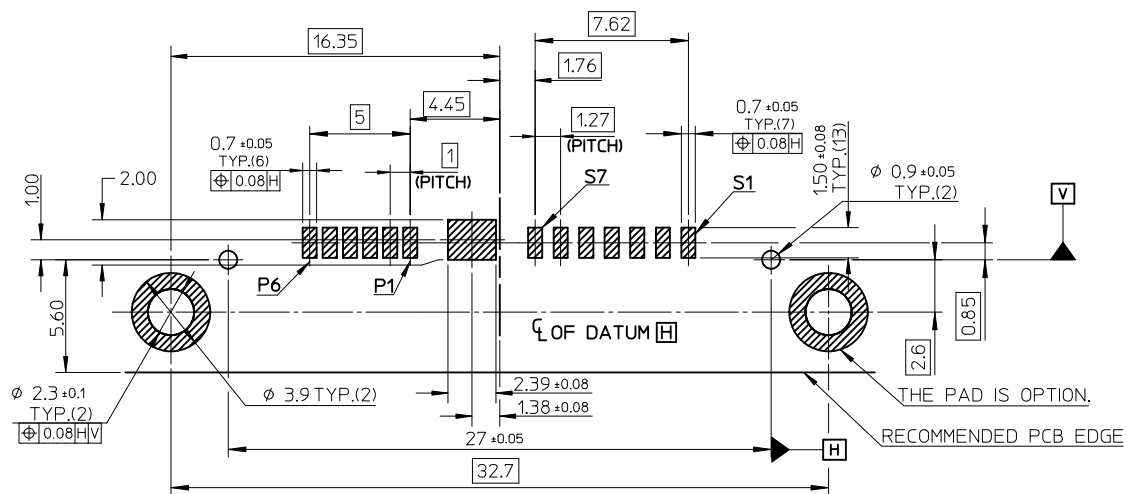
NOTES : OTHER DIMENSIONS AND NOTES
REFER TO SHEET-1.



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 DRW:GLL1 CHKD: APPR:RZHANG REV	DESCRIPTION 2010/02/25 2010/02/26 2010/04/08	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	± ---	± ---				
			2 PLACES	± ---	± ---				
			1 PLACE	± ---	± ---	APPROVED BY RZHANG	DATE 2010/02/26	MOLEX MOLEX INCORPORATED	
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-47300-100		2 OF 7			
		SIZE A3		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



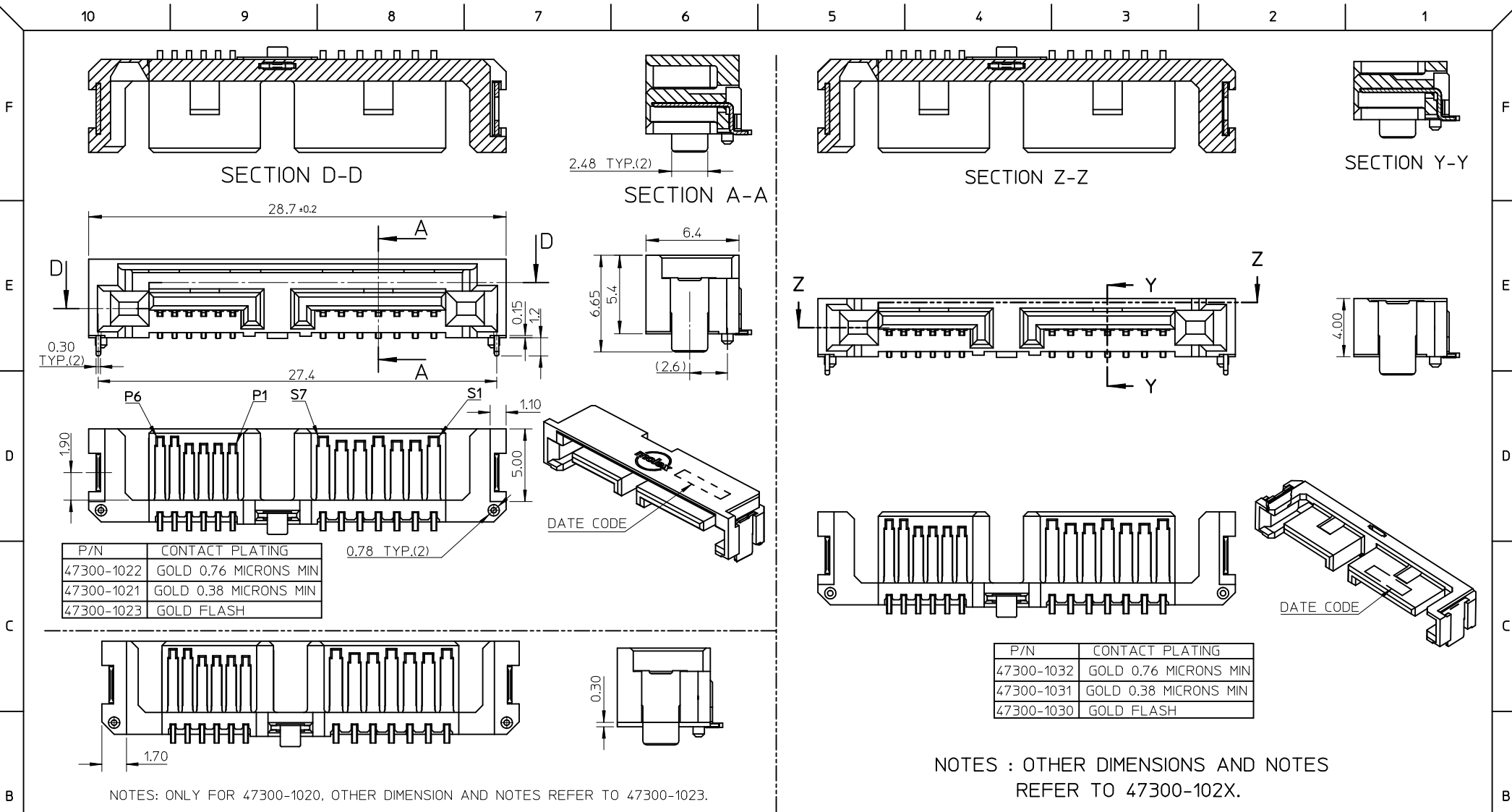
RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

THICKNESS=0.8MM

REMARK:

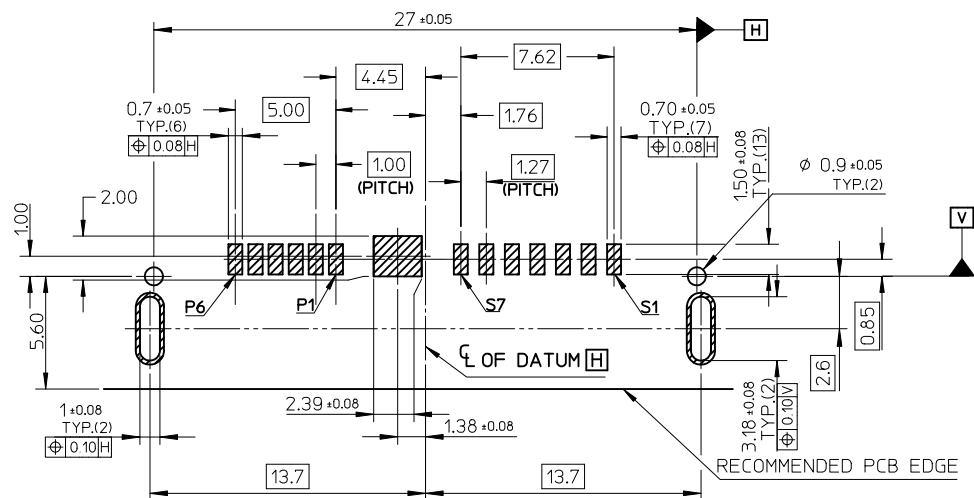
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

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



- 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	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	± ---	APPROVED BY RZHANG	DATE 2010/02/26	
				2 PLACES	± ---	MATERIAL NO.		
				1 PLACE	± ---	SEE TABLE OR NOTES		
				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		DOCUMENT NO. SD-47300-100		SHEET NO. 4 OF 7

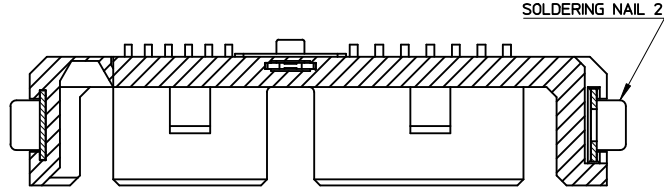


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

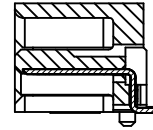
REMARK:

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

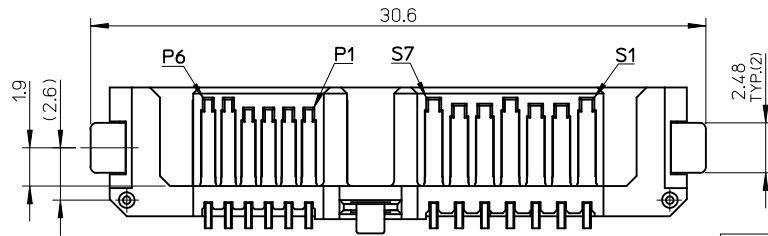
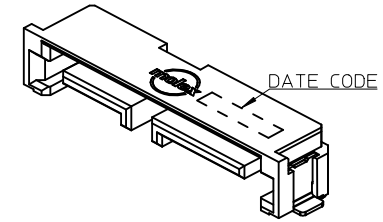
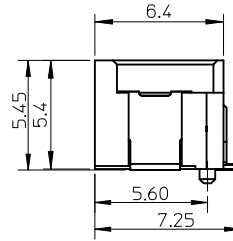
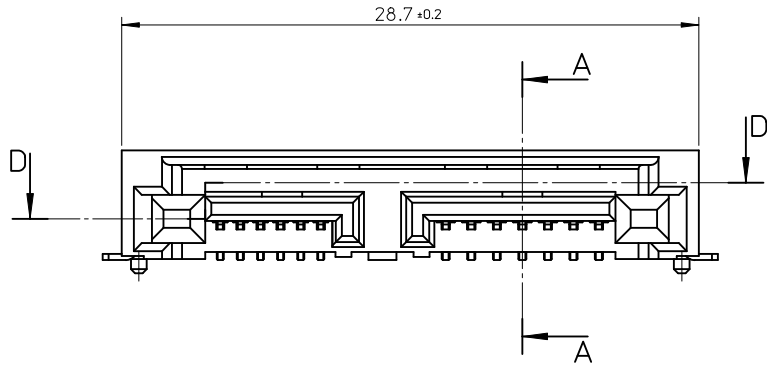
REVISED	EC NO: SH2010-0310 DRW:GILLI CHKD: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08	DESCRIPTION	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
								MM ONLY		4:1	METRIC				
								DRAWN BY DATE		TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE					
								GILLI 2010/02/25							
								CHECKED BY DATE		MOLEX INCORPORATED					
		APPROVED BY DATE		DOCUMENT NO. SHEET NO.											
		RZHANG 2010/02/26								SD-47300-100 5 OF 7					
		MATERIAL NO.		SEE REMARK											
										THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		SIZE													
		A3													



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 :

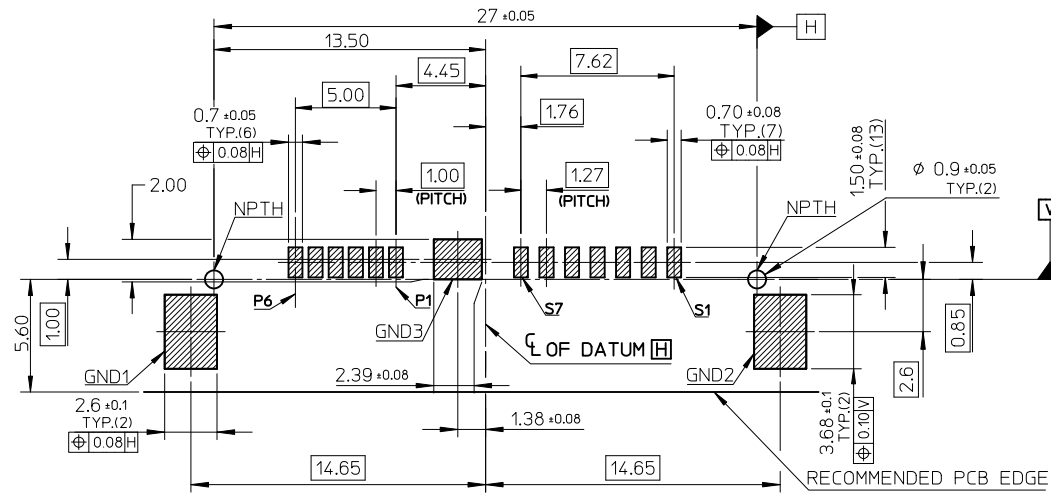
SOLDERING NAIL 2 : COPPER ALLOY

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 CHKD: APPR:RZHANG REV J	2010/02/25 2010/07/26 2010/04/08	DESCRIPTION QUALITY SYMBOLS F A =0 F G =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 GLL I		DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE		
			4 PLACES	± ---	± ---	CHECKED BY		DATE			
			3 PLACES	± ---	± ---						
			2 PLACES	± ---	± ---	APPROVED BY RZHANG		DATE 2010/02/26	MOLEX INCORPORATED		
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-47300-100						
			SIZE A3		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	EC NO: SH2010-0310	2010/02/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
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	CHKD: RZHANG	2010/04/08				DRAWN BY DATE		TITLE		SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE	
	APPR:RZHANG					GLLI 2010/02/25					
						CHECKED BY DATE					
						APPROVED BY DATE		 MOLEX INCORPORATED			
						RZHANG 2010/02/26					
						MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
						SEE REMARK		SD-47300-100		7 OF 7	
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		A3									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							