

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0473001003

Status:

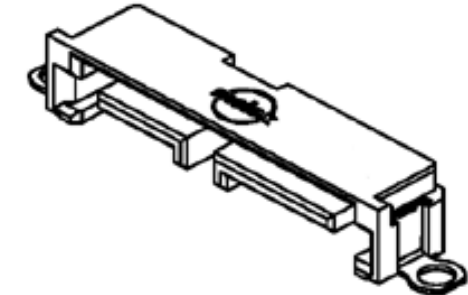
Active

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, Phosphor Bronze Matt Tin Plated Screw Nail, with Pegs, Lead-free



Series

image - Reference only

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	Screw 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

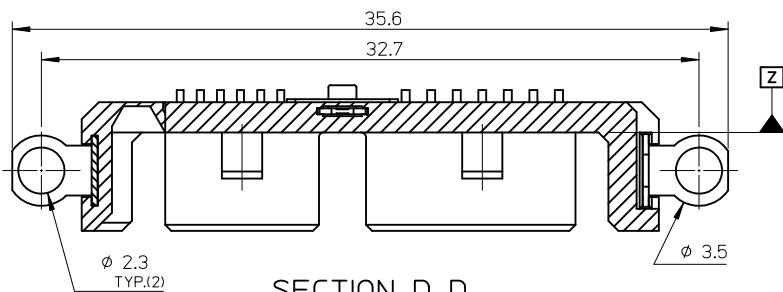
Reference - Drawing Numbers

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

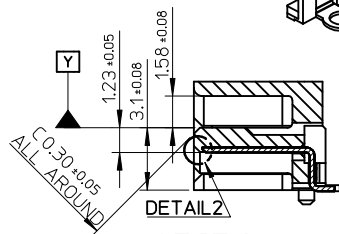
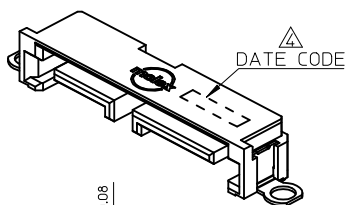
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

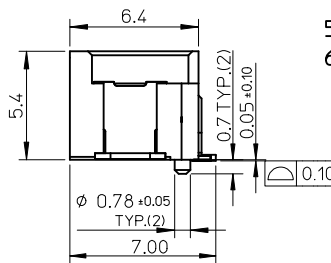
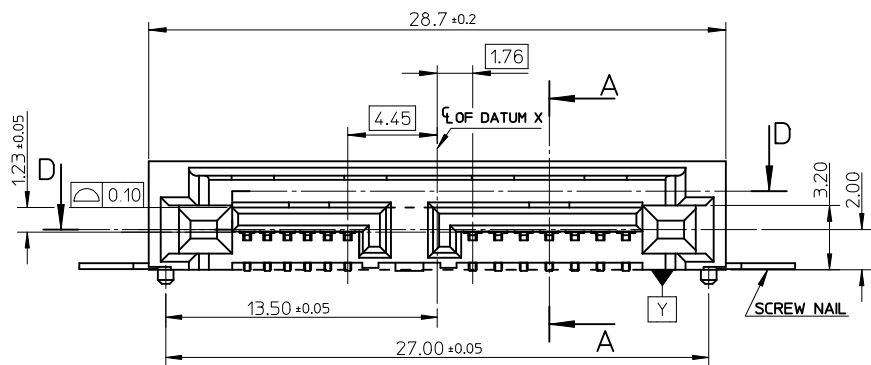
10 9 8 7 6 5 4 3 2 1



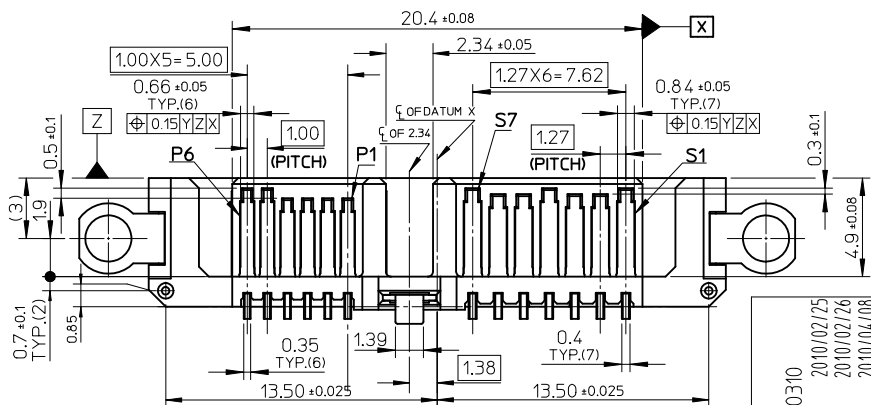
SECTION D-D



SECTION A-A



DETAIL2



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	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	± ---	± ---	APPROVED BY RZHANG		DATE 2010/02/26	MOLEX MOLEX INCORPORATED				
				1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.					SHEET NO.
				ANGULAR ± 3 °			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-47300-100		1 OF 7	
				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

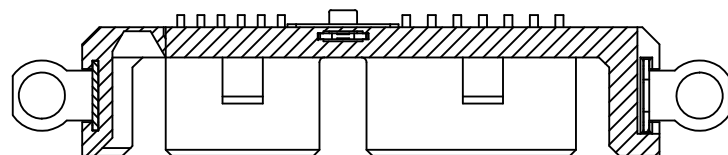
E

D

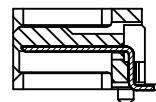
C

B

A

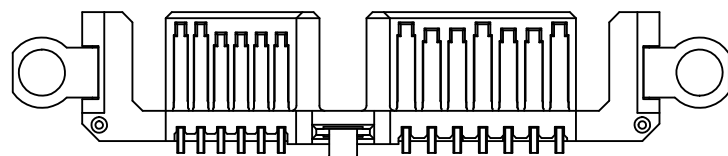
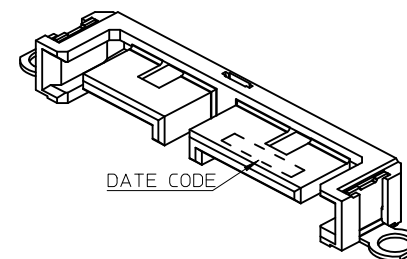
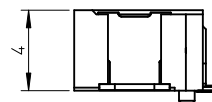
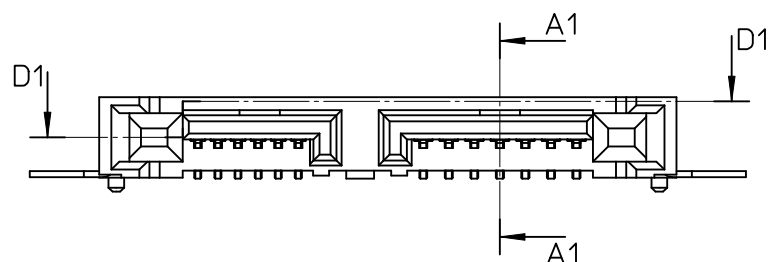


SECTION D1-D1



SECTION A1-A1

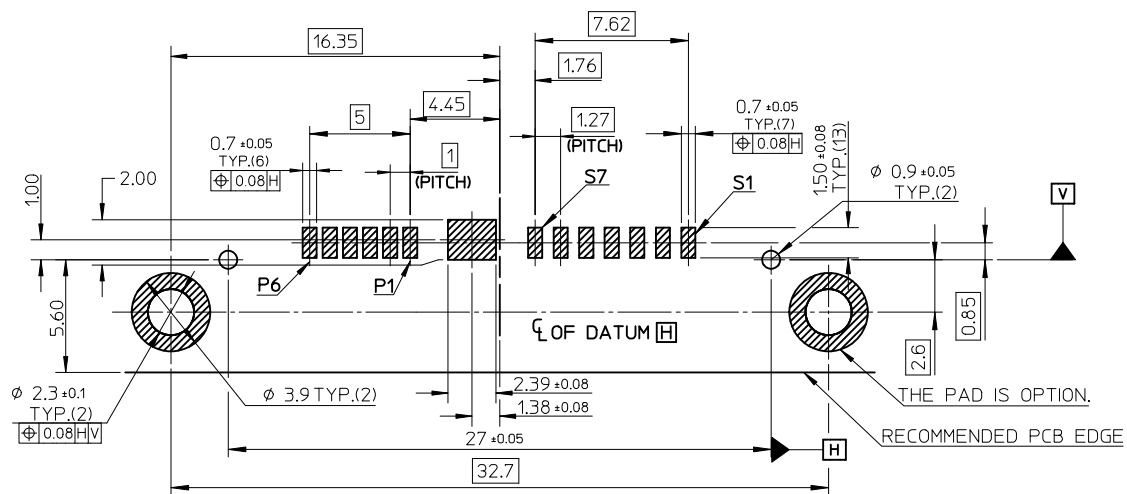
NOTES : OTHER DIMENSIONS AND NOTES
REFER TO SHEET-1.



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:GGL1 CHKD: APPR:RZHANG 2010/02/26 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		
					DRAWN BY DATE		TITLE				
			4 PLACES ± --- ± ---		GLL1		SLIMLINE SATA PLUG FOR				
			3 PLACES ± --- ± ---		2010/02/25		OPTIC DISK DRIVER				
			2 PLACES ± --- ± ---		CHECKED BY		SCREW LOW TYPE				
			1 PLACE ± --- ± ---		DATE						
			ANGULAR ± 3 °		APPROVED BY		MOLEX INCORPORATED				
		RZHANG		DATE		DOCUMENT NO.		SHEET NO.			
				2010/02/26		SD-47300-100		2 OF 7			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE							
				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



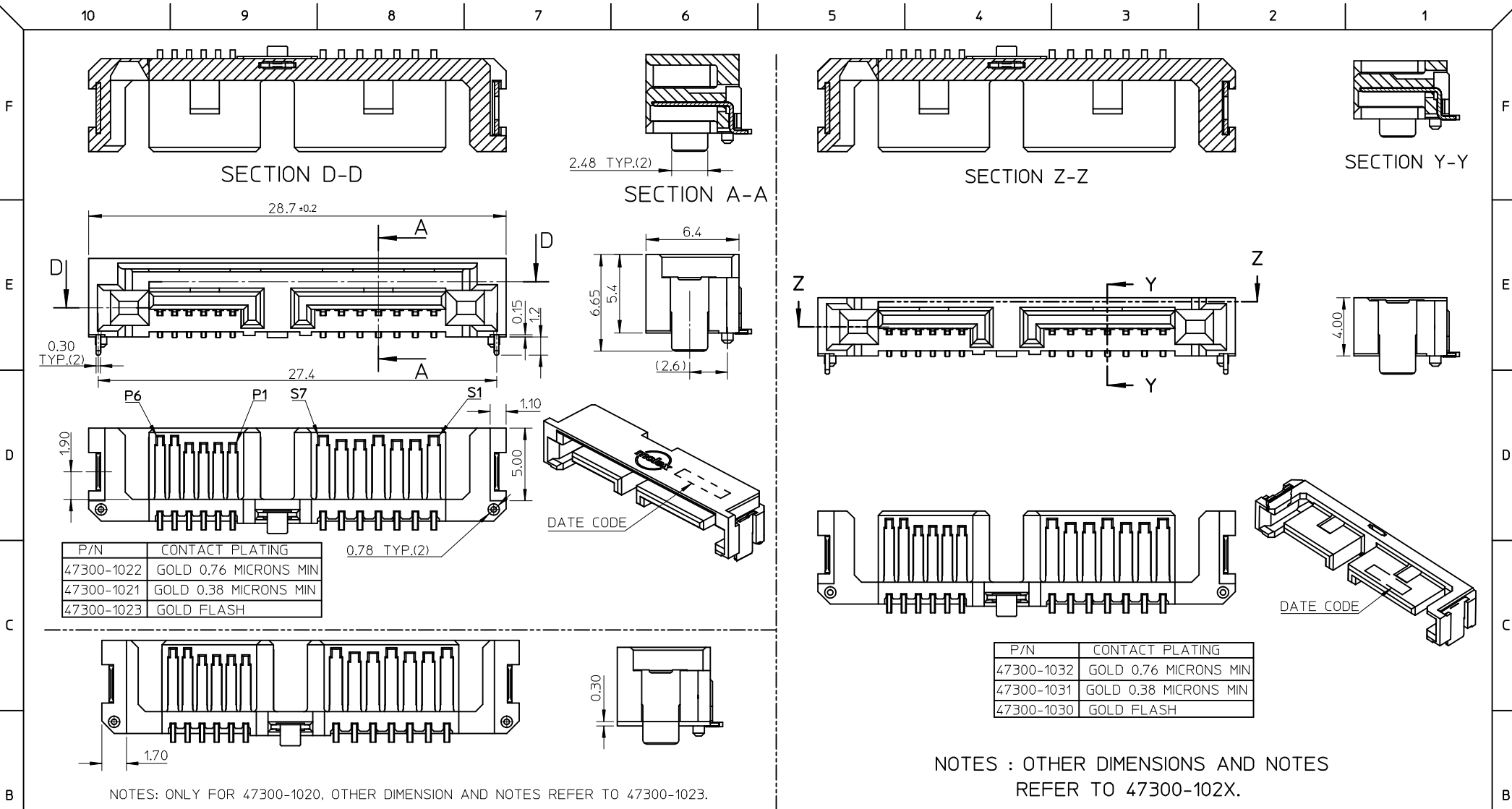
RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

THICKNESS=0.8MM

REMARK:

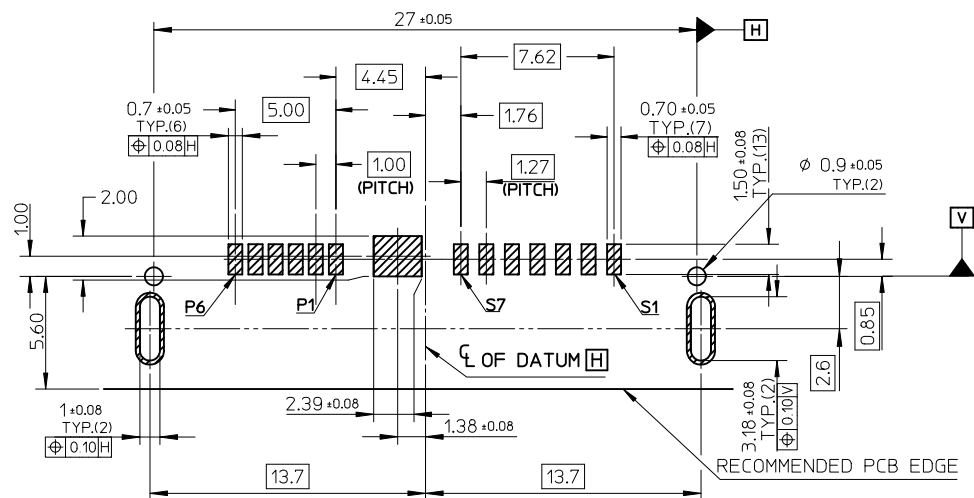
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

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



- 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		
				SIZE A3		SHEET NO. 4 OF 7		

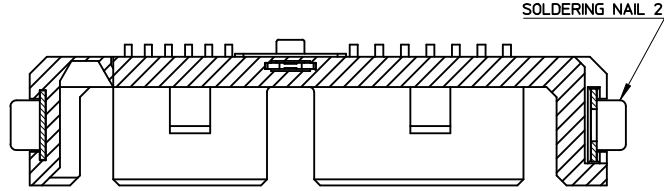


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

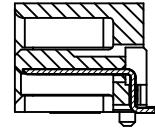
REMARK:

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

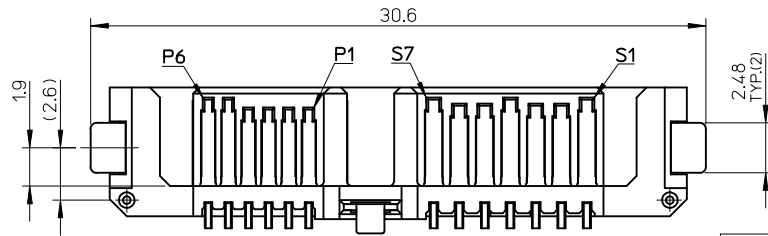
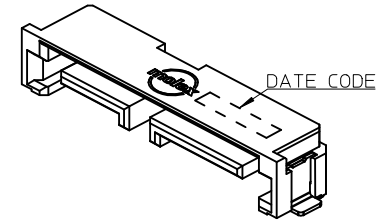
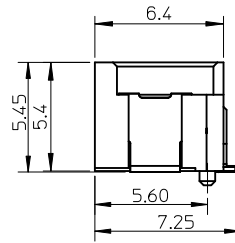
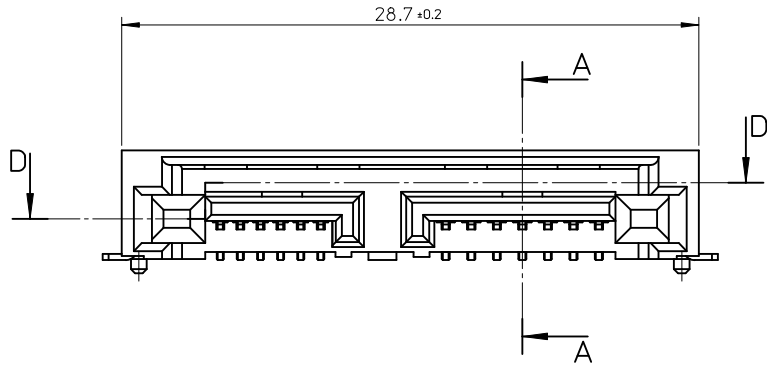
REVISED	EC NO: SH2010-0310	2010/02/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	TITLE	
	DRW:GILLI	2010/02/26			MM ONLY		4:1	METRIC	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE				
	CHKD:	2010/04/08			mm	INCH	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	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 CHKD: APPR:RZHANG REV J	2010/02/25 2010/07/26 2010/04/08	DESCRIPTION	QUALITY SYMBOLS </
--	--	-------------	--

