

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0473001000](#)
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, Gold (Au) Flash Plating, Unplated Stainless Steel Screw Nail, 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

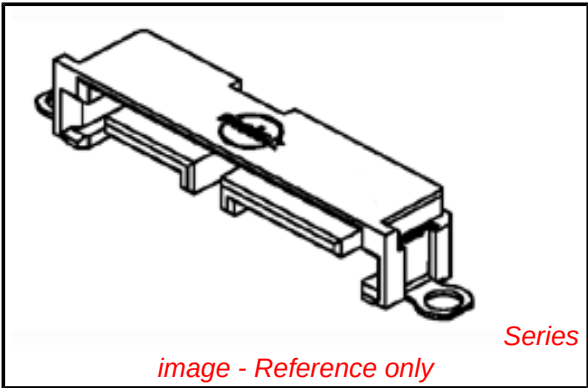
General

Product Family PCB Headers
Series [47300](#)
Application Board-to-Board
Comments 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) 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
Contains SVHC: No
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

Material Info

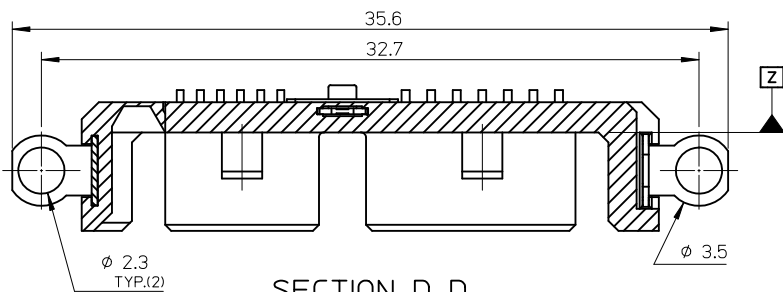
Reference - Drawing Numbers

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

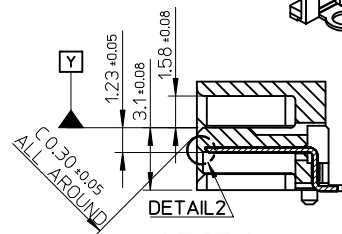
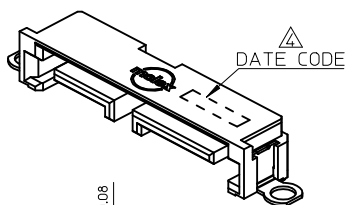
This document was generated on 05/26/2010

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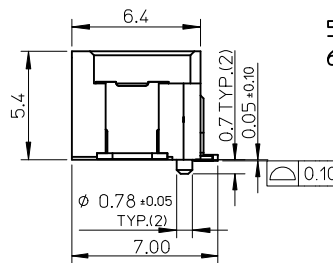
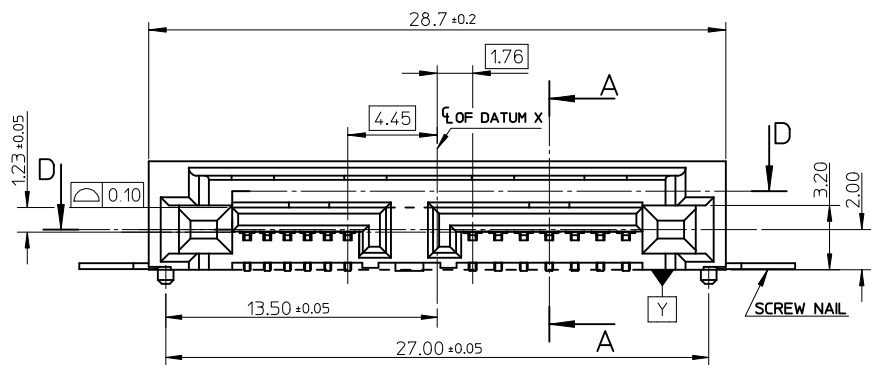
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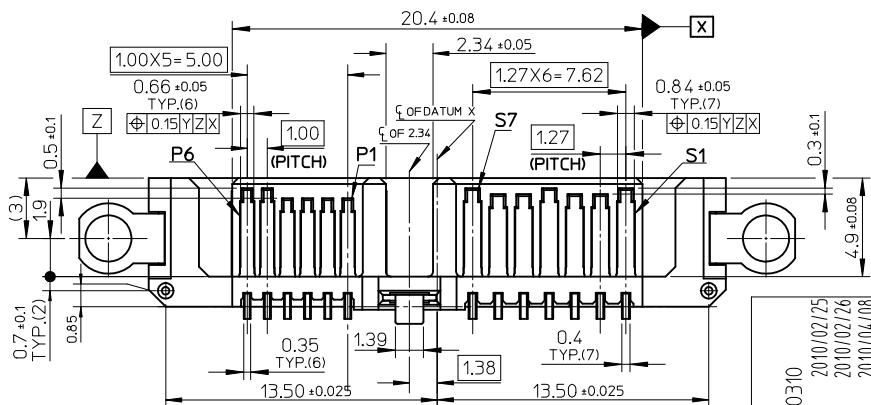
SECTION D-D



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 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.

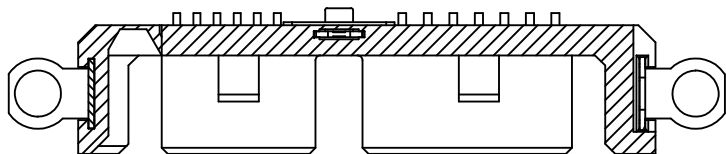
6.THE PRODUCT COMPLIANT TO RoSH DIRECTIVE 2002/95/EC
AND ELV DIRECTIVE 2000/53/EC.

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	

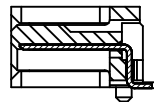
ES	DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
CH	DRAWN BY DATE GLLI 2010/02/25		TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW STANDARD TYPE		
-	CHECKED BY DATE				
-	APPROVED BY DATE RZHANG 2010/02/26		 MOLEX INCORPORATED		
-	MATERIAL NO.				
ABLE	SEE TABLE		DOCUMENT NO. SD-47300-100		SHEET NO. 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



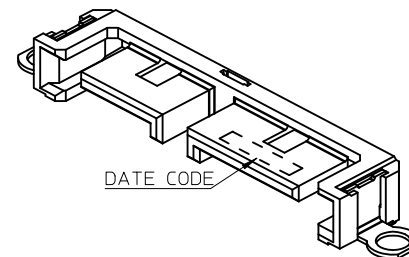
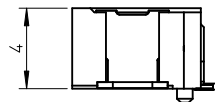
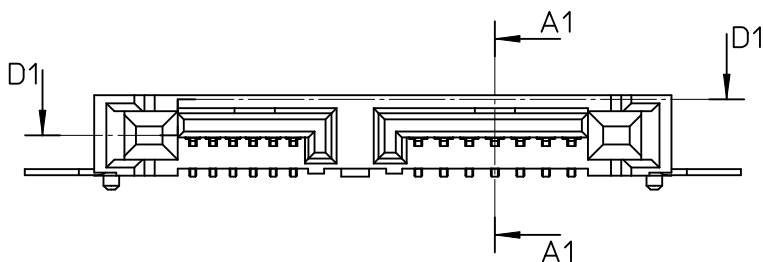
SECTION D1-D1



SECTION A1-A1

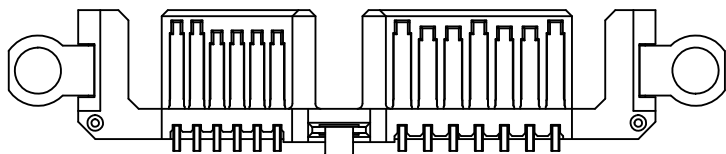
NOTES : OTHER DIMENSIONS AND NOTES
REFER TO SHEET-1.

E



D

C



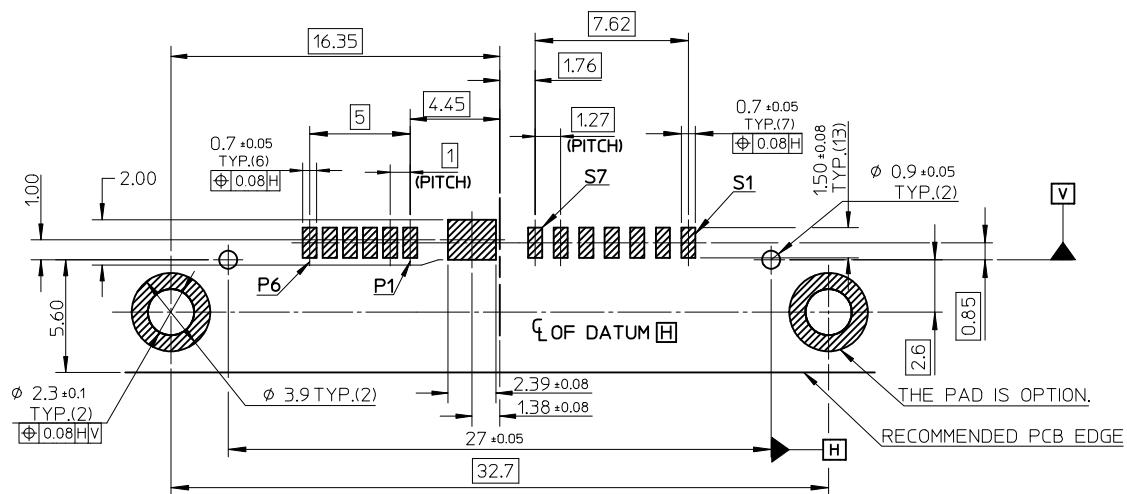
B

A

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 ± --- ± ---		G.L.L I		SLIMLINE SATA PLUG FOR				
			3 PLACES ± --- ± ---		CHECKED BY		OPTIC DISK DRIVER				
			2 PLACES ± --- ± ---		DATE		SCREW LOW TYPE				
			1 PLACE ± --- ± ---		APPROVED BY		MOLEX INCORPORATED				
			ANGULAR ± 3 °		RZHANG		MOLEX INCORPORATED				
					DATE		MOLEX INCORPORATED				
		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					
						SHEET NO. 2 OF 7					

9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

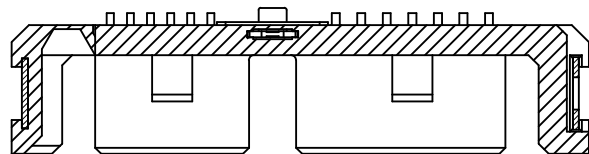
THICKNESS=0.8MM

REMARK:

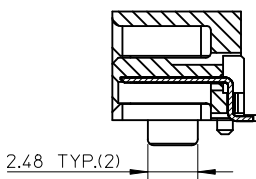
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

REVISED	EC NO: SH2010-0310	2010/02/25	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	DRWNG:GLLI	2010/02/26			(UNLESS SPECIFIED)			MM ONLY		4:1	METRIC		
	CHKD:	2010/04/08											
	APPR:RZHANG												
J	REV				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			

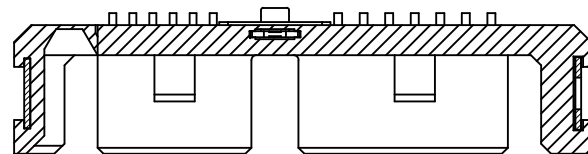
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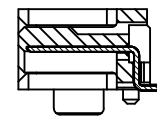
SECTION D-D



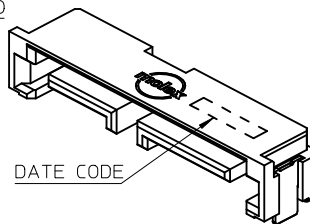
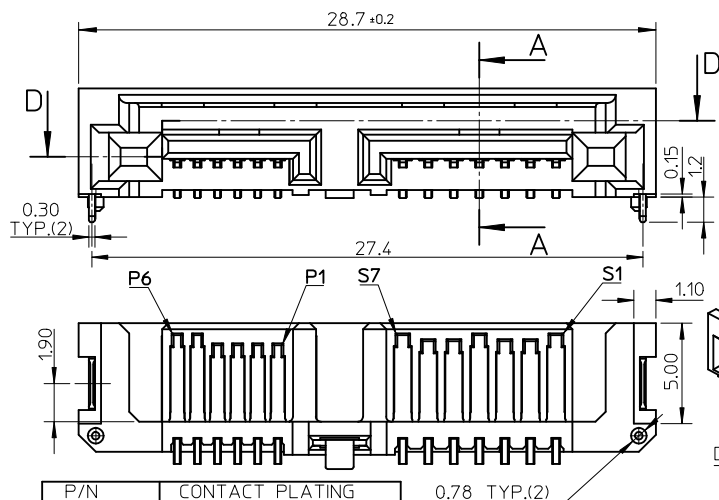
SECTION A-A



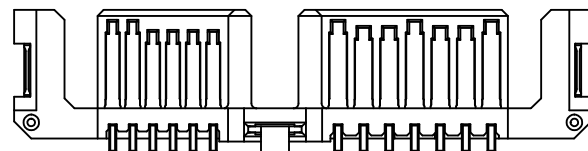
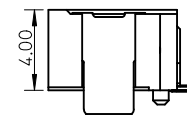
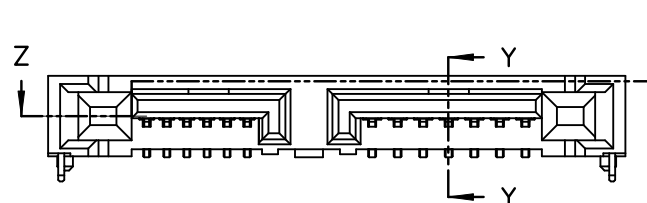
SECTION Z-Z



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 :

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.

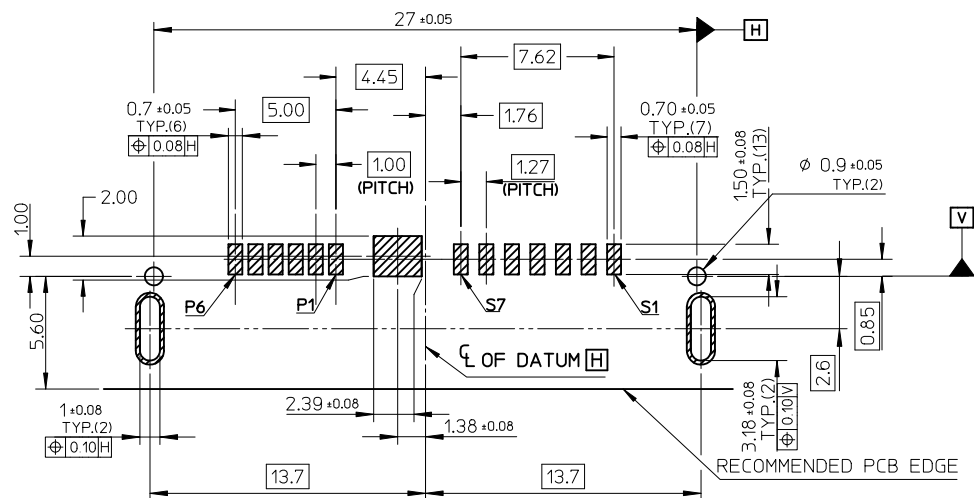
4.OTHER NOTES AND DIMENSIONS REFER TO SHEET-1.

REVISED	EC NO: SH2010-0310	2010/02/25	2010/02/26	2010/04/08	QUALITY SYMBOLS
J	DRW:GLL1	CHKD:	APPR:RZHANG	REV	$\nabla_F=0$ $\nabla_F=0$ $\nabla_F=0$

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
GLL1	2010/02/25
CHECKED BY	DATE
APPROVED BY	DATE
RZHANG	2010/02/26
MATERIAL NO.	
SEE TABLE OR NOTES	
SIZE	
A3	

SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
TITLE		
SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER		
SOLDERING STANDARD TYPE		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-47300-100		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: GLL I	CHKD: 2010/02/26	APPR: RZHANG	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	MOLEX INCORPORATED	SHEET NO.
								mm	INCH	DRAWN BY	DATE						
							$\nabla_F=0$	4 PLACES	± ---	± ---	GLL I	2010/02/25			SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE	SD-47300-100	5 OF 7
							$\nabla_F=0$	3 PLACES	± ---	± ---	CHECKED BY	DATE					
							$\nabla_F=0$	2 PLACES	± ---	± ---	APPROVED BY	DATE			MOLEX INCORPORATED	SD-47300-100	5 OF 7
							$\nabla_F=0$	1 PLACE	± ---	± ---	RZHANG	2010/02/26					
								ANGULAR ± 3 °		MATERIAL 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							

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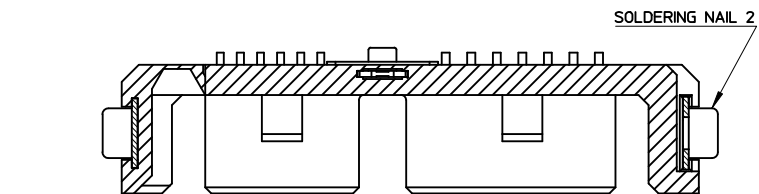
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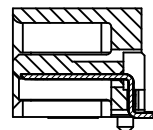
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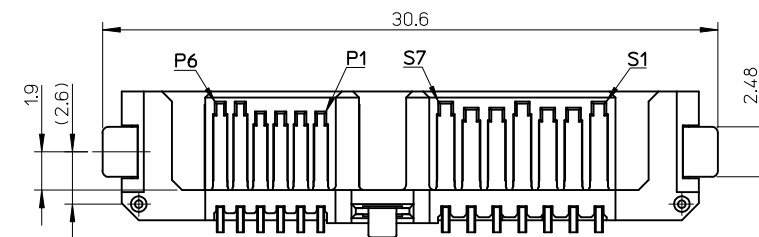
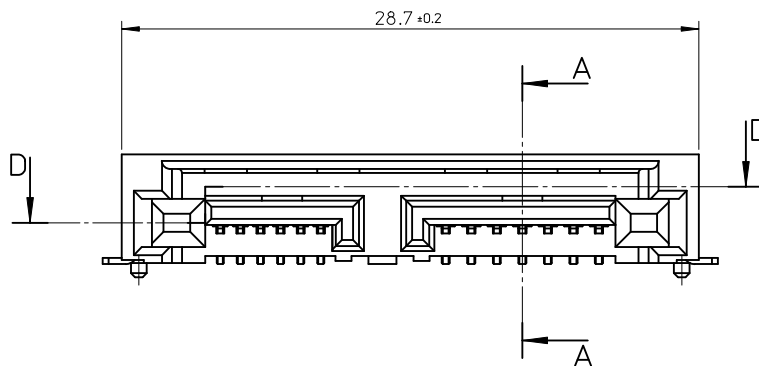
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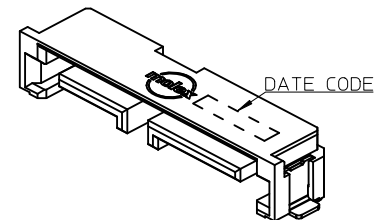
SECTION D-D



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	DESCRIPTION REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY DATE		TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE					
					2010/02/25							
					CHECKED BY DATE							
					APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
					RZHANG 2010/02/26							
					MATERIAL NO.		DOCUMENT NO.					SHEET NO.
					SEE TABLE		SD-47300-100					6 OF 7
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

