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Part Number: [0473001005](#)
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, 0.76µm (30µ") Gold (Au) Plating, Phosphor Bronze Matt Tin Plated Screw Nail, with Pegs, Lead-free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-47300-001 \(PDF\)](#)

Agency Certification

CSA LR 19980

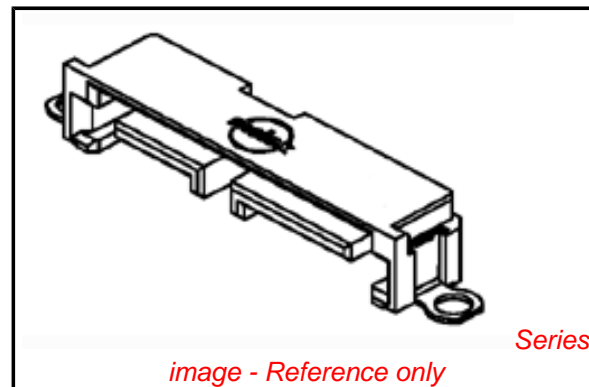
General

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) 30
 Plating min: Mating (µm) 0.76
 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

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	2
Process Temperature max. C	260

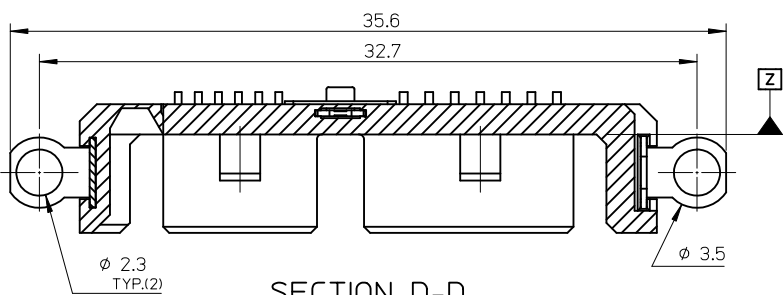
Material Info

Reference - Drawing Numbers

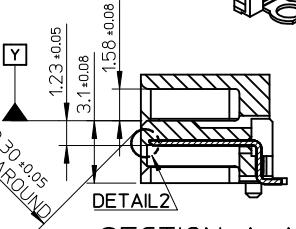
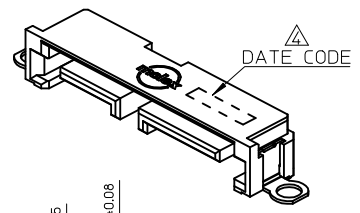
Packaging Specification	PK-47300-001
Product Specification	PS-47300-001
Sales Drawing	SD-47300-100

This document was generated on 05/26/2010

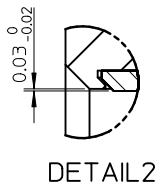
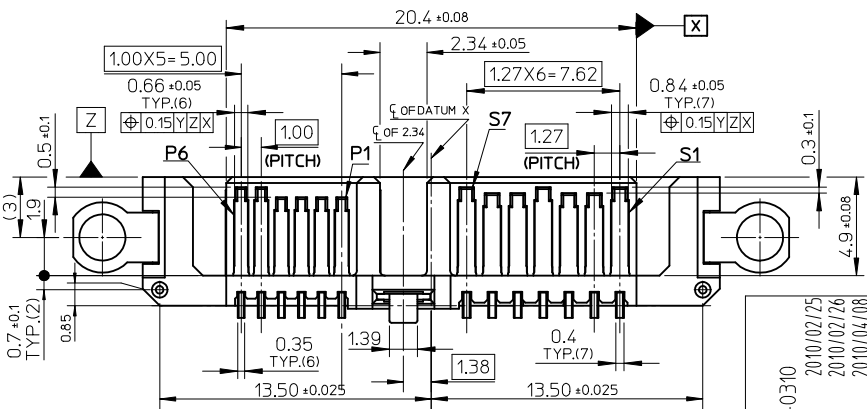
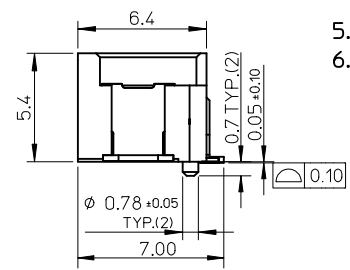
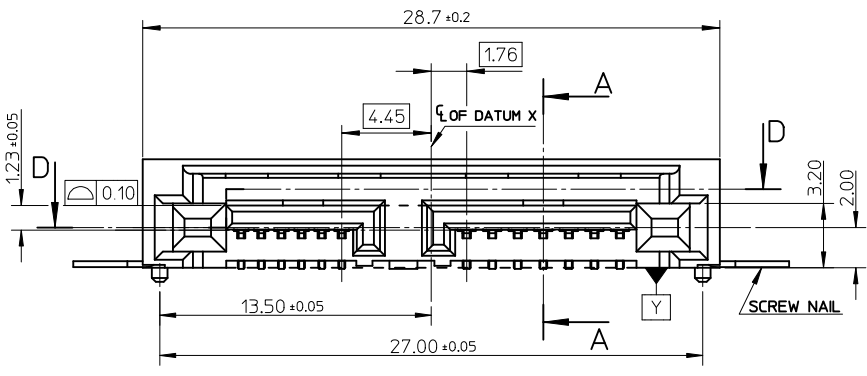
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SECTION D-D



SECTION A-A



DETAIL2

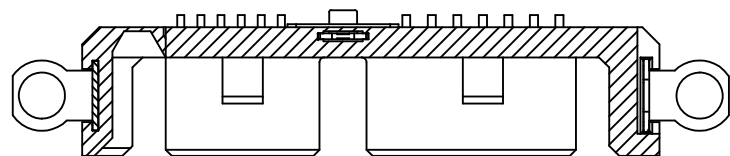
NOTES :

- 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.
- 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.

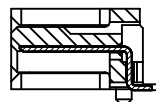
P/N	CONTACT PLATING	NAIL
47300-1000	GOLD FLASH	
47300-1002	GOLD 0.38 MICRONS MIN	STAINLESS STEEL, NO PLATING
47300-1004	GOLD 0.76 MICRONS MIN	
47300-1001	GOLD FLASH	
47300-1003	GOLD 0.38 MICRONS MIN	PHOSPHOR BRONZE, MATTE TIN PLATING
47300-1005	GOLD 0.76 MICRONS MIN	

REVISED	EC NO: SH2010-0310	DRWING:GLLI	CHKD: 2010/02/26	APPR:RZHANG	2010/04/08	DESCRIPTION	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
							mm	INCH	MM ONLY	4:1	METRIC	THIRD ANGLE PROJECTION						
0	0	0	0	0	0	0	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE						
0	0	0	0	0	0	0	3 PLACES	± ---	± ---	GLLI	2010/02/25	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER						
0	0	0	0	0	0	0	2 PLACES	± ---	± ---	CHECKED BY	DATE	SCREW STANDARD TYPE						
0	0	0	0	0	0	0	1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED						
							ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-47300-100		1 OF 7					
							SIZE		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

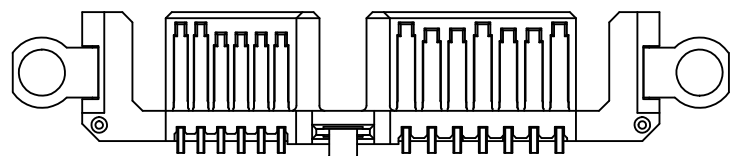
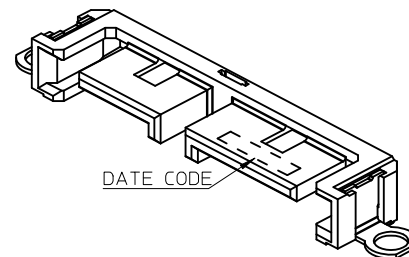
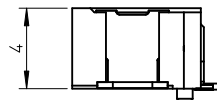
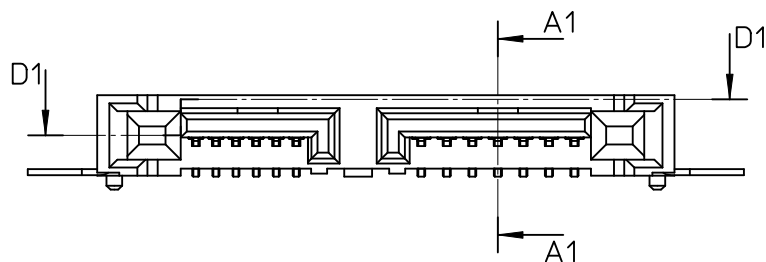


SECTION D1-D1



SECTION A1-A1

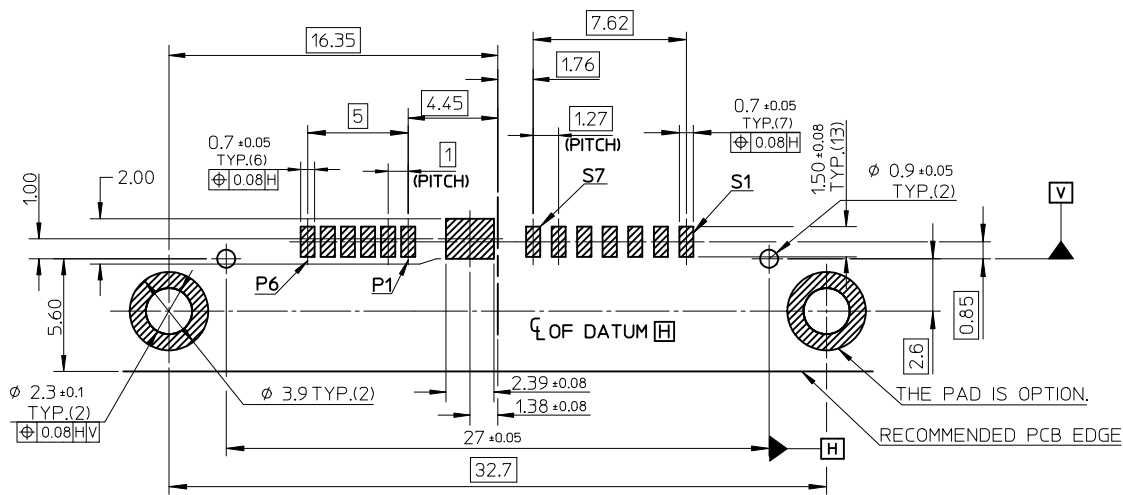
NOTES : OTHER DIMENSIONS AND NOTES REFER TO SHEET-1.



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	PHOSPHOR BRONZE, MATTE TIN PLATING
47300-1015	GOLD FLASH	
47300-1013	GOLD 0.38 MICRONS MIN	
47300-1011	GOLD 0.76 MICRONS MIN	

REVISED EC NO: SH2010-0310 DRWNG: GLL1 CHKD: APPR: RZHANG REV	2010/02/25 2010/02/26 2010/04/08 DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION															
		$\nabla_F = 0$ $\nabla_E = 0$ $\nabla_B = 0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	MM ONLY	4:1	METRIC	
			mm	INCH																		
		4 PLACES	± ---	± ---																		
3 PLACES	± ---	± ---																				
2 PLACES	± ---	± ---																				
1 PLACE	± ---	± ---																				
	ANGULAR ± 3 °	DRAWN BY: GLL1 DATE: 2010/02/25 CHECKED BY: DATE: APPROVED BY: RZHANG DATE: 2010/02/26 MATERIAL NO.: DOCUMENT NO.:	TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW LOW TYPE MOLEX INCORPORATED																			
	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	SEE TABLE SD-47300-100	SHEET NO. 2 OF 7																		

9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

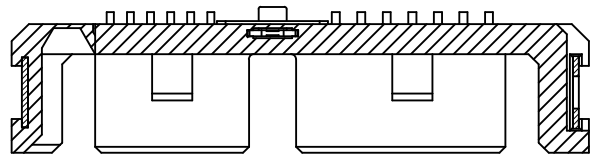
THICKNESS=0.8MM

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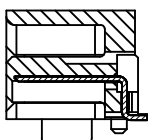
THE PCB LAYOUT IS ONLY FOR 47300-100X, 47300-101X.

REVISED EC NO: SH2010-0310 DRW:GLLI CHKD: APPR:RZHANG REV J	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		
			$\nabla = 0$ $\nabla = 0$ $\nabla = 0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 3°	MM ONLY	4:1	METRIC	DRAWN BY: GLLI DATE: 2010/02/25 CHECKED BY: DATE: APPROVED BY: RZHANG DATE: 2010/02/26	TITLE	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW TYPE
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE REMARK	MOLEX INCORPORATED SD-47300-100	SHEET NO.	3 OF 7			
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

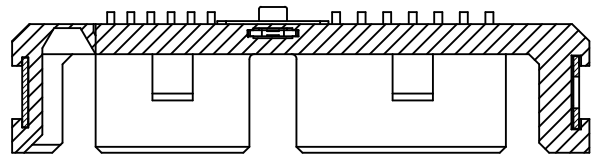
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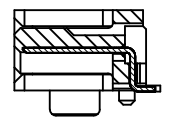
SECTION D-D



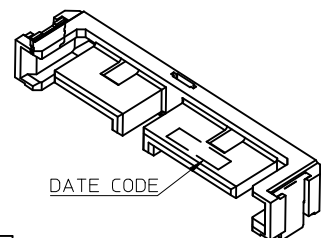
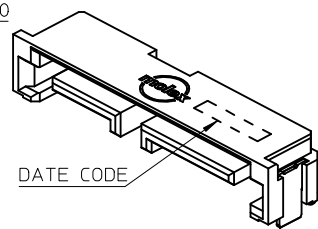
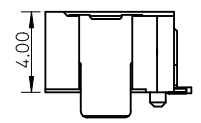
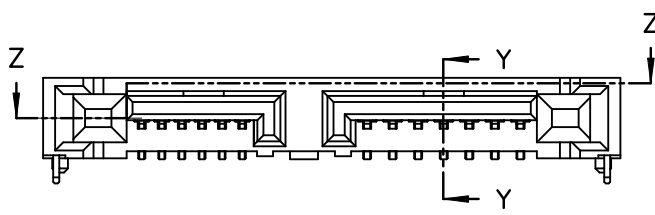
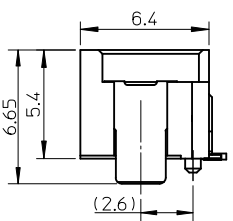
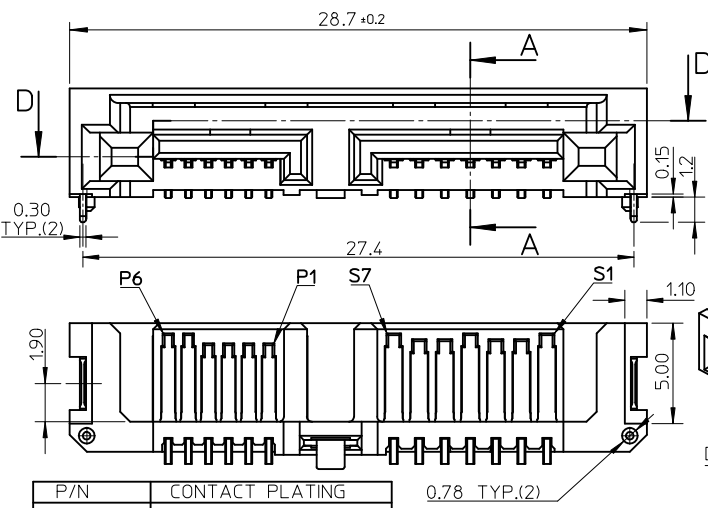
SECTION A-A
2.48 TYP.(2)



SECTION Z-Z



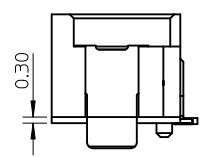
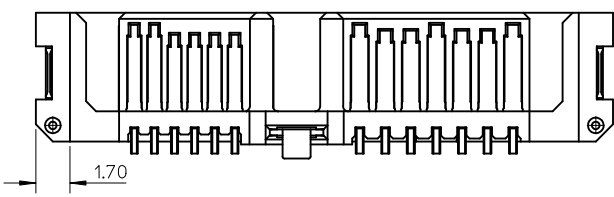
SECTION Y-Y



P/N	CONTACT PLATING
47300-1022	GOLD 0.76 MICRONS MIN
47300-1021	GOLD 0.38 MICRONS MIN
47300-1023	GOLD FLASH

0.78 TYP.(2)

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

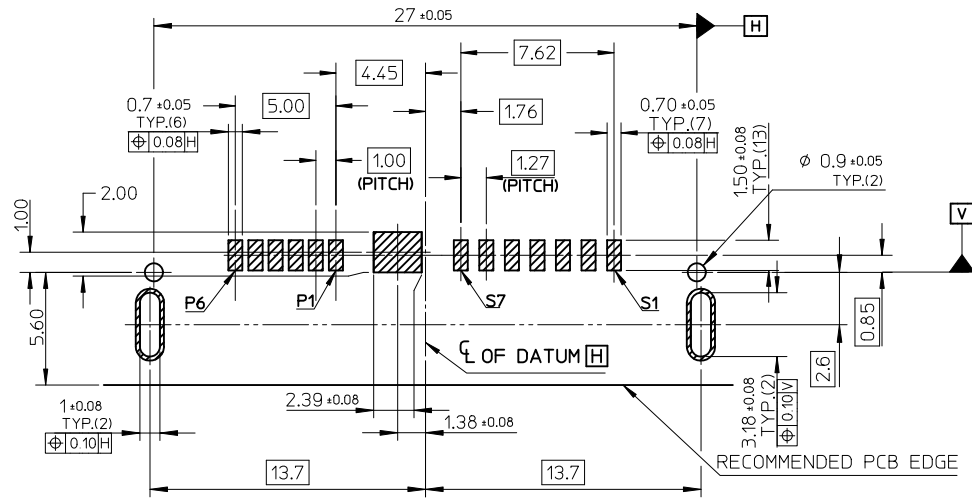
REVISED	DESCRIPTION	QUALITY SYMBOLS
J	REV	▽F=0
J	REV	▽F=0
J	REV	▽F=0

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
GLL I	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 MOLEX INCORPORATED		
DOCUMENT NO.	SD-47300-100	SHEET NO. 4 OF 7
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

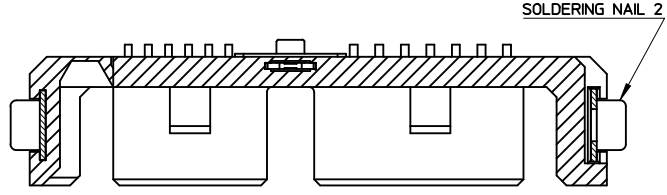


RECOMMEND PCB LAYOUT (THICKNESS=0.8)

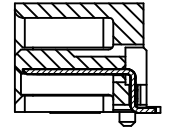
REMARK:

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

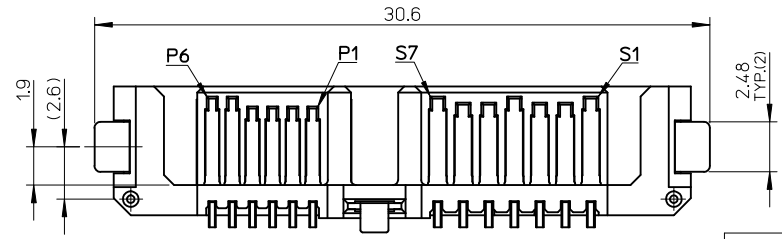
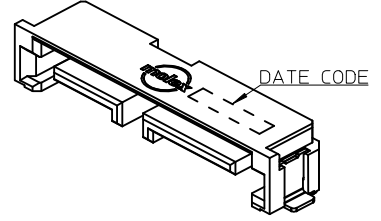
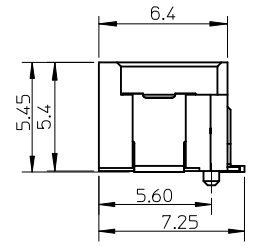
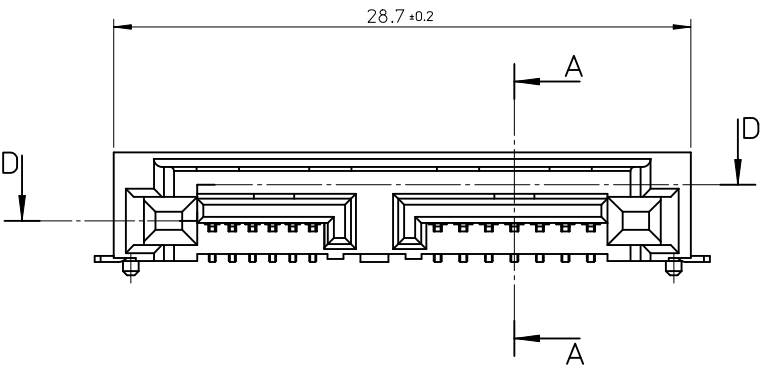
REVISED EC NO: SH2010-0310 DRWNG: GLL I CHKD: RZHANG APPR: RZHANG REV	QUALITY SYMBOLS $\nabla = 0$ $\nabla = 0$ $\nabla = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	DRAWN BY GLL I	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE	
		ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY RZHANG	DATE 2010/02/26	MOLEX INCORPORATED	
		SEE REMARK		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	



SECTION D-D



SECTION A-A

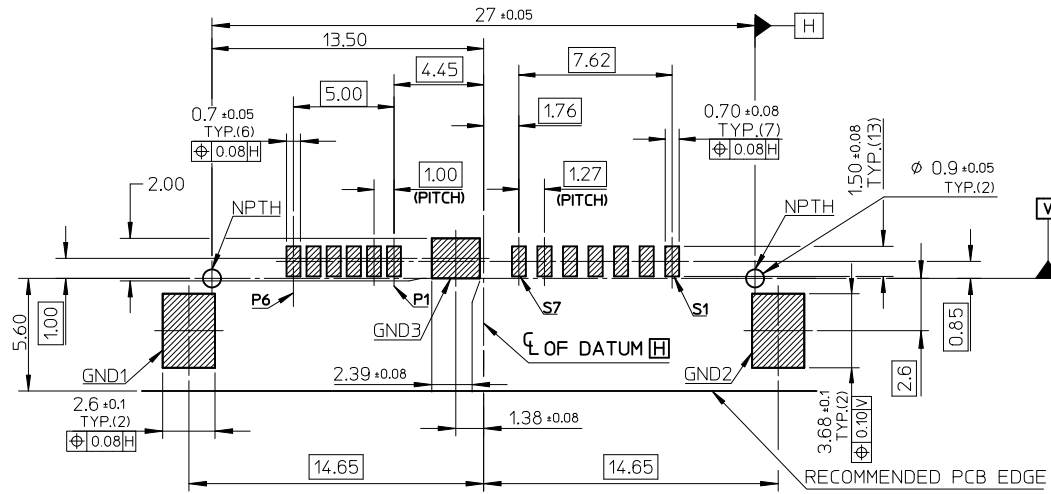


P/N	CONTACT PLATING
47300-1042	GOLD 0.76 MICRONS MIN
47300-1041	GOLD 0.38 MICRONS MIN
47300-1040	GOLD FLASH

NOTES :

- MATERIAL :
SOLDERING NAIL 2 : COPPER ALLOY
- PLATING :
SOLDERING NAIL 2 : MATTE TIN PLATING 1.0 MICRONS MIN.
OVER NICKEL PLATING 1.0 MICRONS MIN.
- OTHER NOTES AND DIMENSIONS REFER TO SHEET-1.

REVISED EC NO: SH2010-0310 DRWN:GLL 2010/02/25 CHKD: 2010/07/26 APPR:RZHANG 2010/04/08	DESCRIPTION J	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	4:1	METRIC	DRAWN BY: GLL I DATE: 2010/02/25 CHECKED BY: DATE:	TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE MOLEX INCORPORATED
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	APPROVED BY: RZHANG DATE: 2010/02/26 MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
		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 IEC NO: SH2010-0310 DRWG:GLL1 CH/KD: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08	QUALITY SYMBOLS $\nabla_F = 0$ $\nabla_E = 0$ $\nabla_A = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± ---	mm INCH ± --- ± --- ± --- ± --- ± --- ± ---	DRAWN BY GLL1	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE		
			ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY RZHANG	DATE 2010/02/26	MOLEX INCORPORATED		
			SEE REMARK	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	SD-47300-100 7 OF 7		