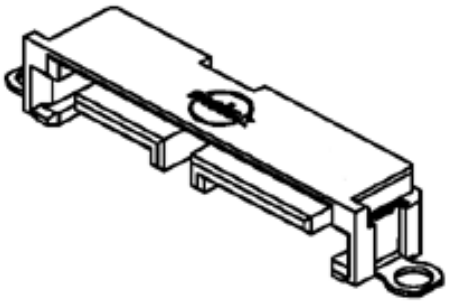
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This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0473001004
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, Unplated Stainless Steel Screw Nail, with Pegs, Lead-free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-47300-001 (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)	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
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

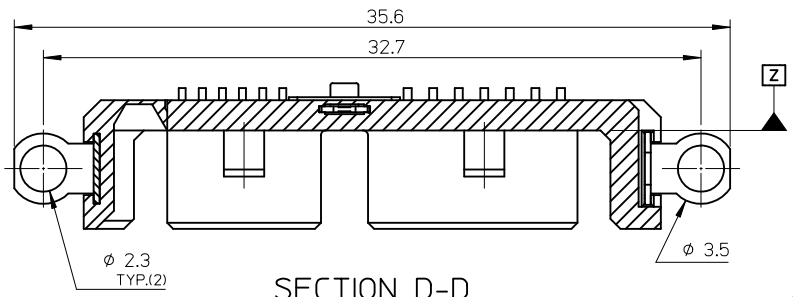
Current - Maximum per Contact	1.5A
Voltage - Maximum	15V DC

Material Info

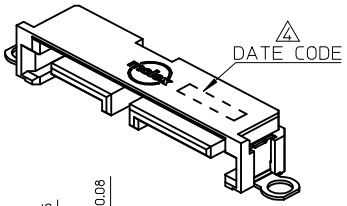
Reference - Drawing Numbers

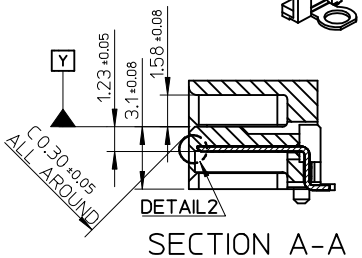
Packaging Specification	PK-47300-001
Product Specification	PS-47300-001
Sales Drawing	SD-47300-100

This document was generated on 05/26/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

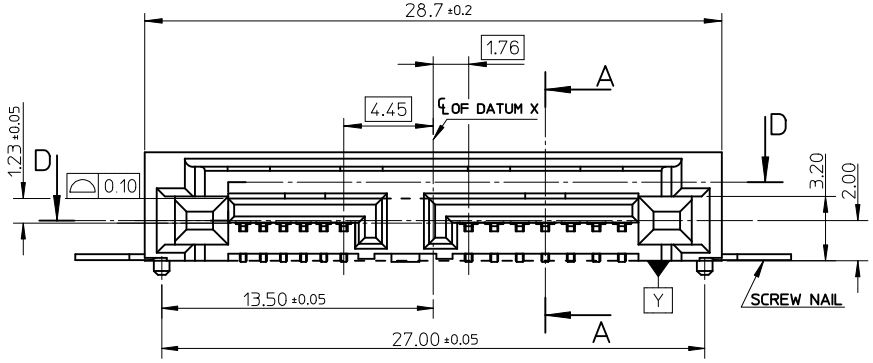


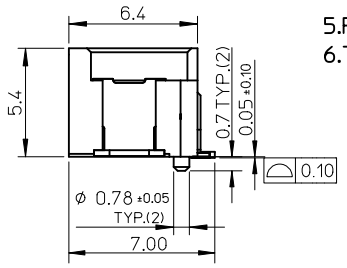
SECTION D-D

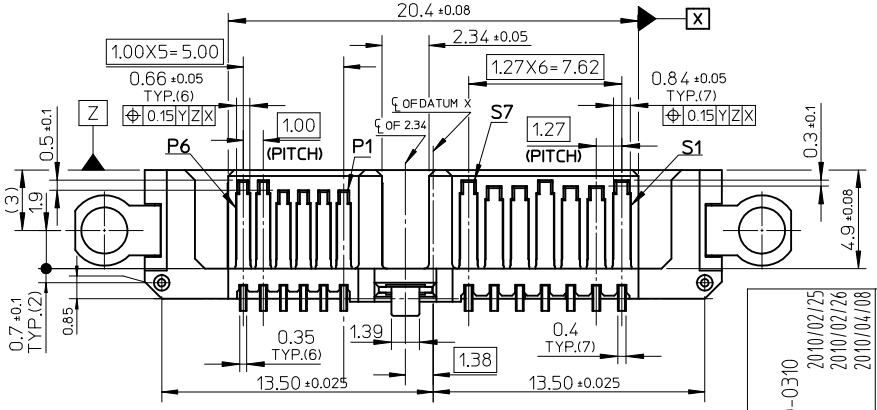


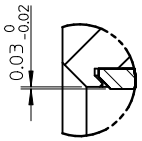


SECTION A-A









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	

REVISED
EC NO: SH2010-0310 2010/02/25
DRWN:GLLI 2010/02/26
CH'KD: 2010/04/08
APPR:RZHANG
DESCRIPTION
REV J

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

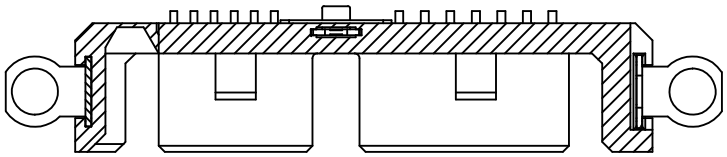
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

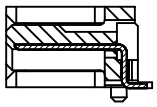
DRAWN BY: GLLI DATE: 2010/02/25
CHECKED BY: DATE:
APPROVED BY: RZHANG DATE: 2010/02/26
MATERIAL NO.: SEE TABLE

TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW STANDARD TYPE
MOLEX INCORPORATED
DOCUMENT NO.: SD-47300-100
SHEET NO.: 1 OF 7
SIZE: A3

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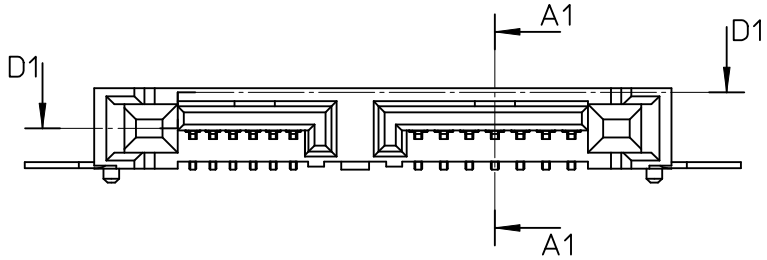


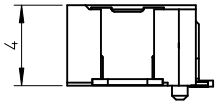
SECTION D1-D1

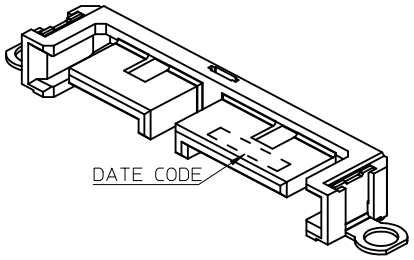


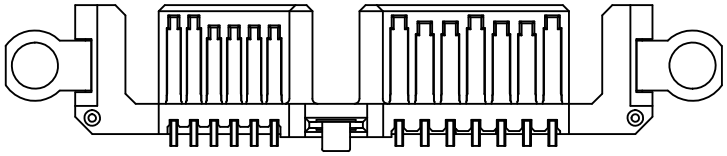
SECTION A1-A1

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 2010/02/25
DRWN:GLLI 2010/02/26
CH'KD: 2010/04/08
APPR:RZHANG
DESCRIPTION
REV J

QUALITY SYMBOLS
FV=0
FC=0
FP=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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

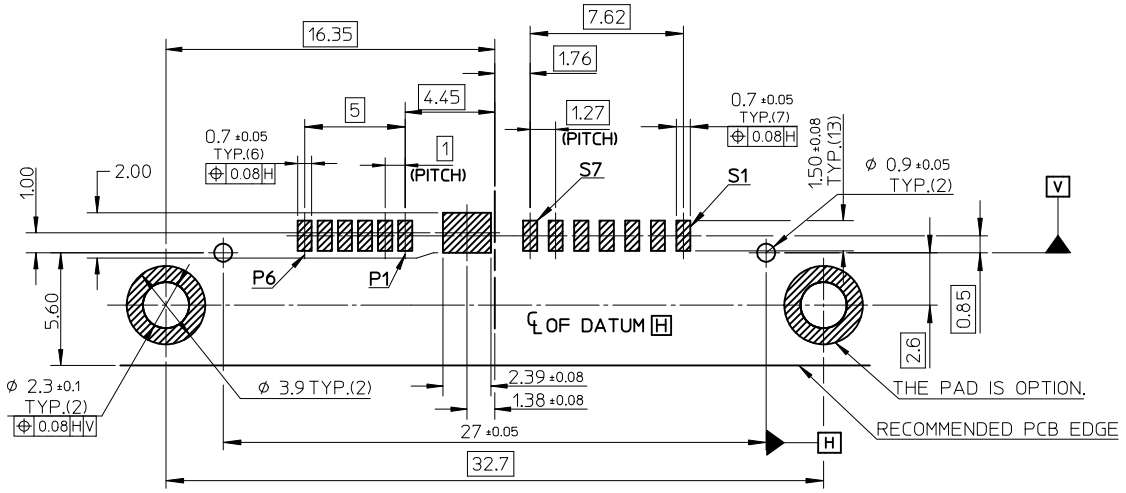
DRAWN BY: GLLI DATE: 2010/02/25
CHECKED BY: DATE:
APPROVED BY: RZHANG DATE: 2010/02/26

TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW LOW TYPE

MOLEX INCORPORATED

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	2010/02/25	J
	DRWN:GLL I	2010/02/26	
	CH'KD:	2010/04/08	
	APPR:RZHANG		

DESCRIPTION | REV

QUALITY SYMBOLS: F_A=0, F_C=0, F_P=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	SCALE	4:1
DESIGN UNITS	METRIC		THIRD ANGLE PROJECTION
DRAWN BY	GLL I	DATE	2010/02/25
CHECKED BY		DATE	
APPROVED BY	RZHANG	DATE	2010/02/26
MATERIAL NO.	SEE REMARK		
SIZE	A3		

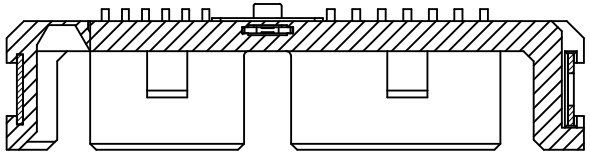
TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW TYPE

molex MOLEX INCORPORATED

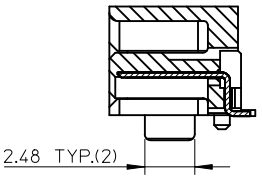
DOCUMENT NO. SD-47300-100

SHEET NO. 3 OF 7

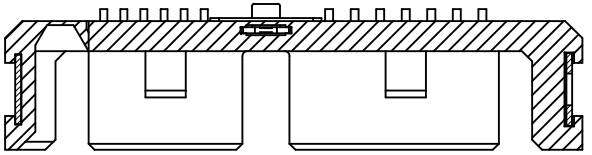
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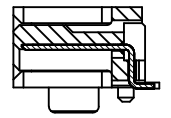
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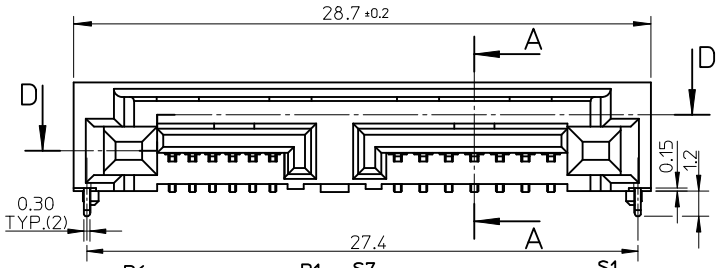
SECTION A-A

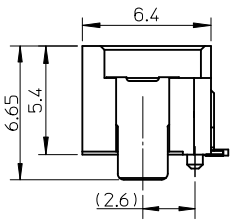


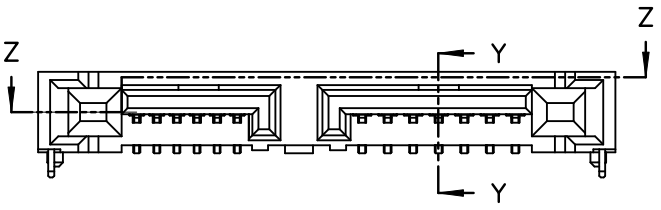
SECTION Z-Z

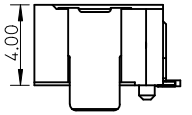


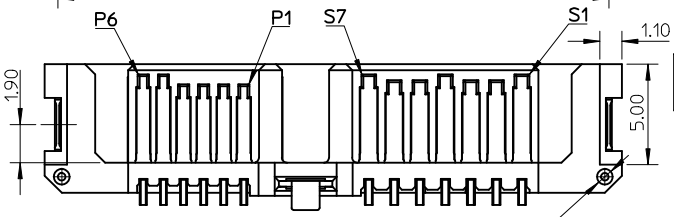
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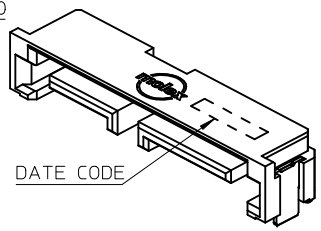




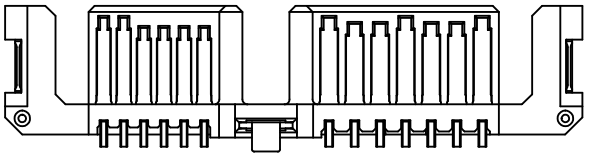


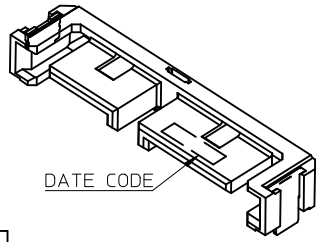




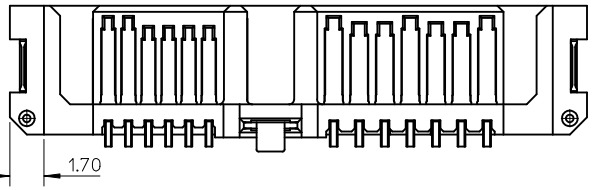


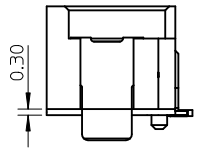
P/N	CONTACT PLATING
47300-1022	GOLD 0.76 MICRONS MIN
47300-1021	GOLD 0.38 MICRONS MIN
47300-1023	GOLD FLASH





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
DRWN:GLL I 2010/02/26
CH'KD: 2010/04/08
APPR:RZHANG
DESCRIPTION
REV J

QUALITY SYMBOLS
$\boxed{F_W}$=0
$\boxed{F_C}$=0
$\boxed{F_P}$=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

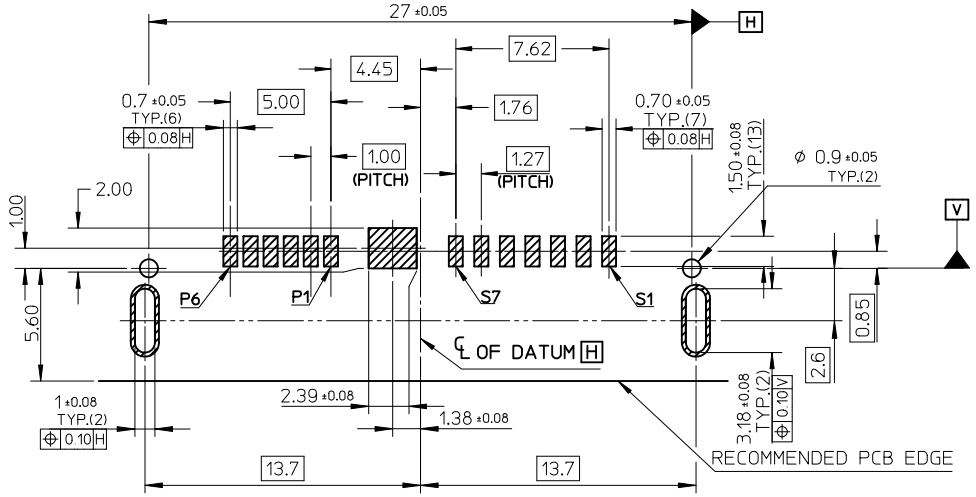
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GLL I DATE: 2010/02/25
CHECKED BY: DATE:
APPROVED BY: RZHANG DATE: 2010/02/26
MATERIAL NO.: SEE TABLE OR NOTES

TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING STANDARD TYPE
MOLEX INCORPORATED
DOCUMENT NO.: SD-47300-100
SHEET NO.: 4 OF 7
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



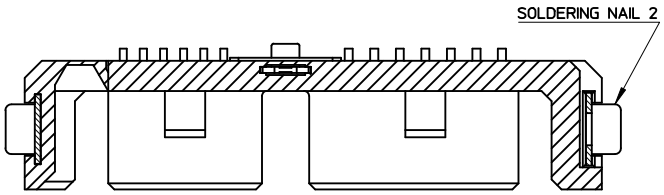
RECOMMEND PCB LAYOUT (THICKNESS=0.8)

REMARK:

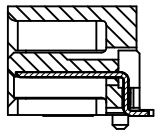
THE PCB LAYOUT IS ONLY FOR 47300-102X AND 47300-103X.

REVISED EC NO: SH2010-0310 DRWN:GLLI CH'KD: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08	DESCRIPTION	REV J	QUALITY SYMBOLS FA=0 FC=0 FP=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: GLLI DATE: 2010/02/25 CHECKED BY: DATE: APPROVED BY: RZHANG DATE: 2010/02/26 MATERIAL NO.: SEE REMARK SIZE: A3	SCALE: 4:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SOLDERING TYPE MOLEX INCORPORATED DOCUMENT NO.: SD-47300-100 SHEET NO.: 5 OF 7

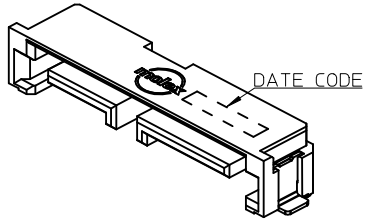
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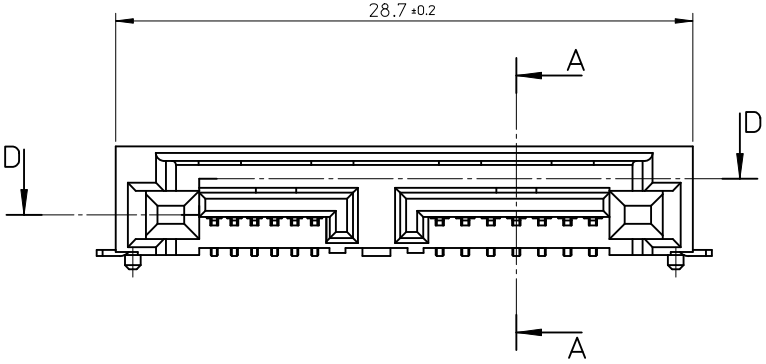


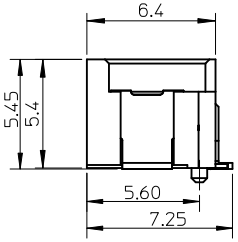
SECTION D-D

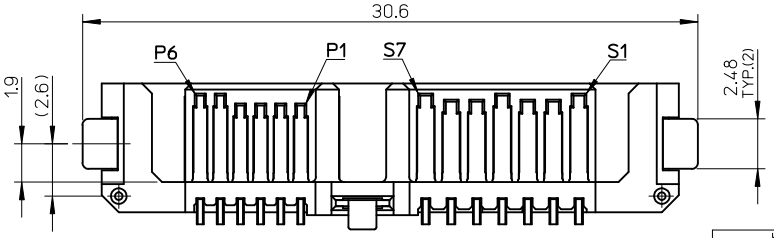


SECTION A-A









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.

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

REVISED
EC NO: SH2010-0310 2010/02/25
DRWN:GLL I 2010/02/26
CH'KD: 2010/04/08
APPR:RZHANG
DESCRIPTION
REV

QUALITY SYMBOLS
FA=0
FC=0
FP=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
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GLL I DATE: 2010/02/25
CHECKED BY: DATE:
APPROVED BY: RZHANG DATE: 2010/02/26
MATERIAL NO.: SEE TABLE

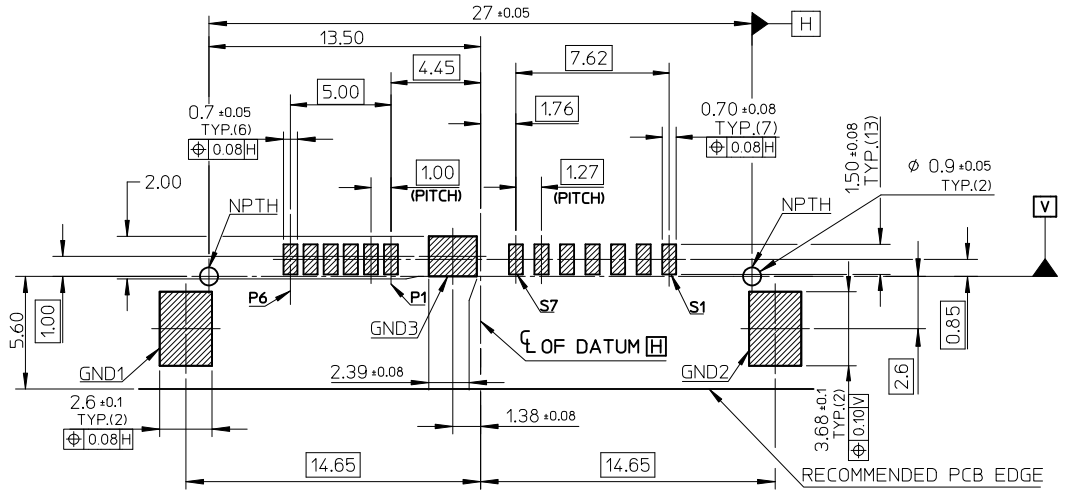
TITLE: SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE

MOLEX INCORPORATED

DOCUMENT NO.: SD-47300-100
SHEET NO.: 6 OF 7

SIZE A3

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RECOMMEND PCB LAYOUT

REMARK:

THE PCB LAYOUT IS ONLY FOR 47300-104X

REVISED			REV
EC NO: SH2010-0310	2010/02/25	DESCRIPTION	
DRWN:GLLI	2010/02/26		
CH'KD:	2010/04/08		
APPR:RZHANG			

QUALITY SYMBOLS

$\sqrt{F_A}=0$

$\sqrt{F_C}=0$

$\sqrt{F_P}=0$

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
SCALE	4:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	GLLI
DATE	2010/02/25
CHECKED BY	
DATE	
APPROVED BY	RZHANG
DATE	2010/02/26
MATERIAL NO.	SEE REMARK
TITLE	SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING TYPE
	MOLEX INCORPORATED
DOCUMENT NO.	SD-47300-100
SHEET NO.	7 OF 7
SIZE	A3

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