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Part Number:

0473001022

Status:

Active

Overview:

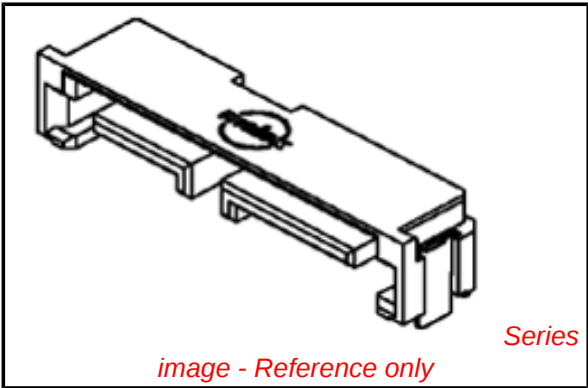
[slimline_serial_ata_odd_connectors](#)

Description:

1.00mm(.039"), 1.27mm (.050") Pitch Slimline Serial ATA Plug for Optical Disk Drive with DIP Standard Type Soldering Tabs, Right Angle, 0.76µm (30µ") Gold (Au) Plating, with Peg, 5.4mm (.213") Mounted Height, 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	Soldering Standard 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

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

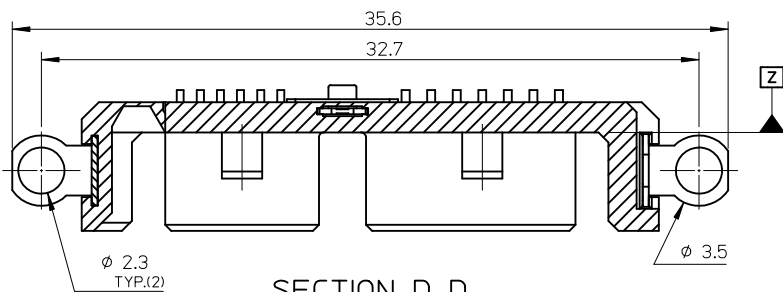
Reference - Drawing Numbers

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

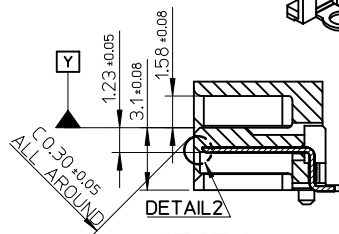
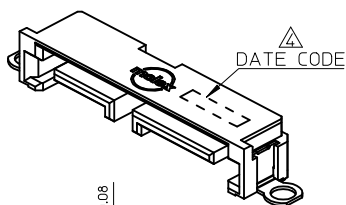
This document was generated on 05/26/2010

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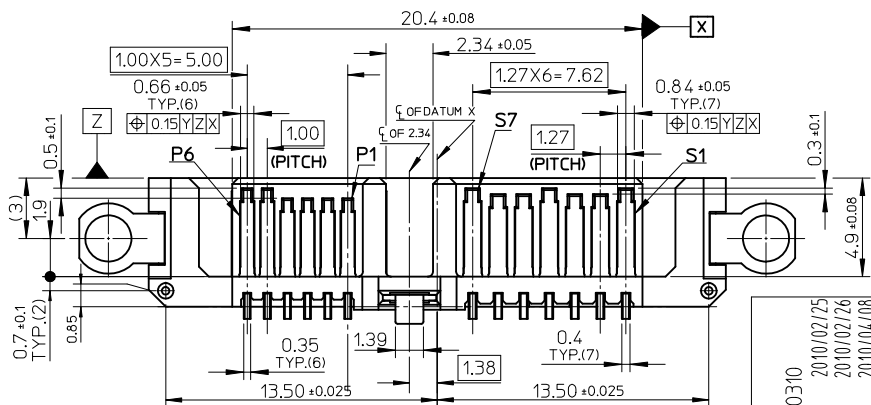
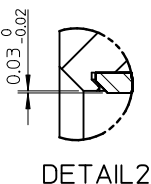
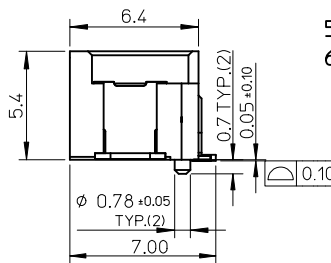
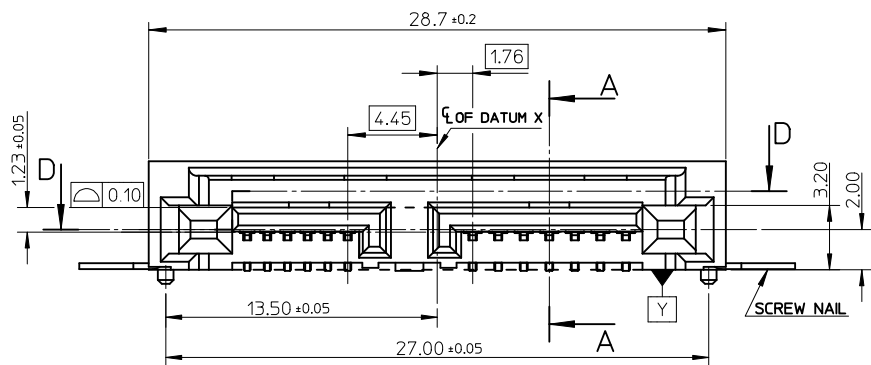
10 9 8 7 6 5 4 3 2 1



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 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 CHKD: APPR:RZHANG	2010/02/25 2010/02/26 2010/04/08	DESCRIPTION	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 DATE		TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER SCREW STANDARD TYPE					
				4 PLACES ± --- ± ---		GLLI 2010/02/25							
				3 PLACES ± --- ± ---		CHECKED BY DATE		MOLEX MOLEX INCORPORATED					
				2 PLACES ± --- ± ---		APPROVED BY DATE							
				1 PLACE ± --- ± ---		RZHANG 2010/02/26		DOCUMENT NO. SD-47300-100					
				ANGULAR ± 3 °		MATERIAL NO.							
				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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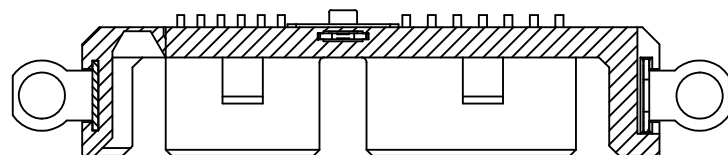
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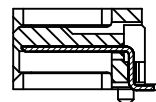
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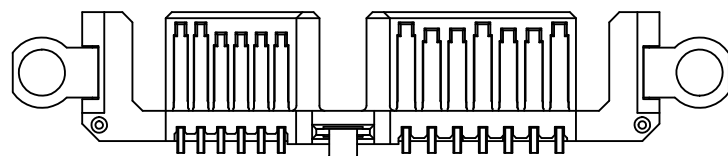
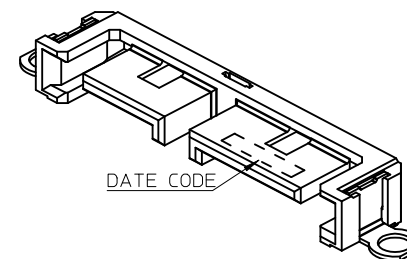
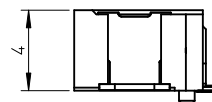
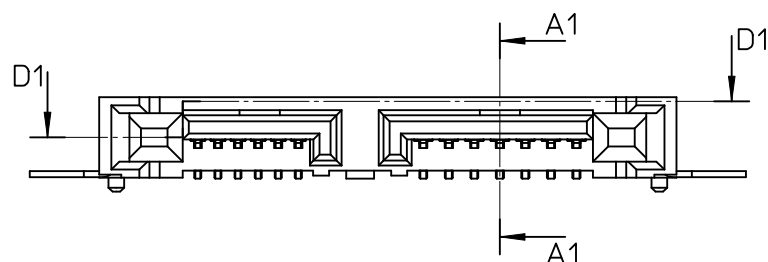


SECTION D1-D1



SECTION A1-A1

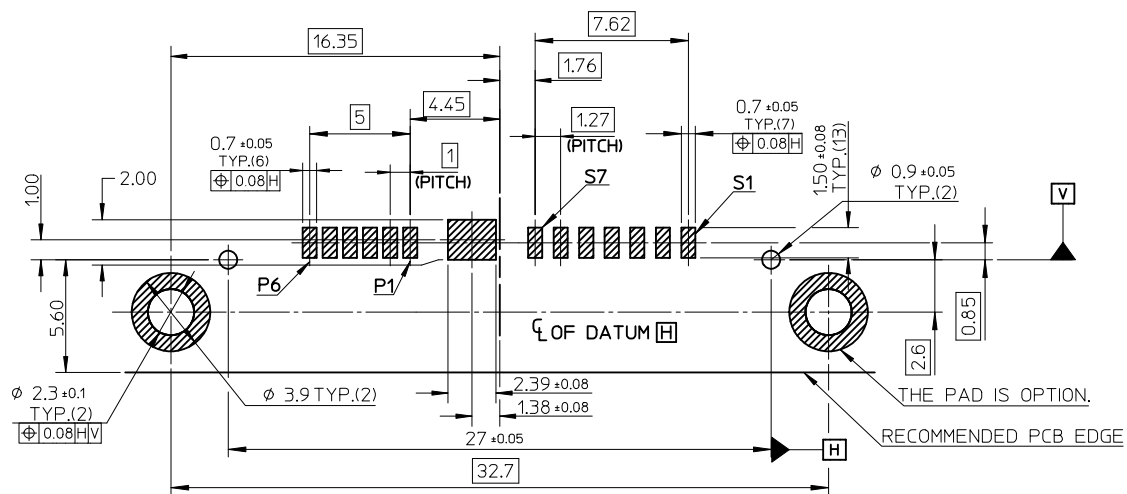
NOTES : OTHER DIMENSIONS AND NOTES
REFER TO SHEET-1.



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 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				
		MATERIAL NO.		DOCUMENT NO.							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-47300-100					
				SIZE A3		SHEET NO. 2 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



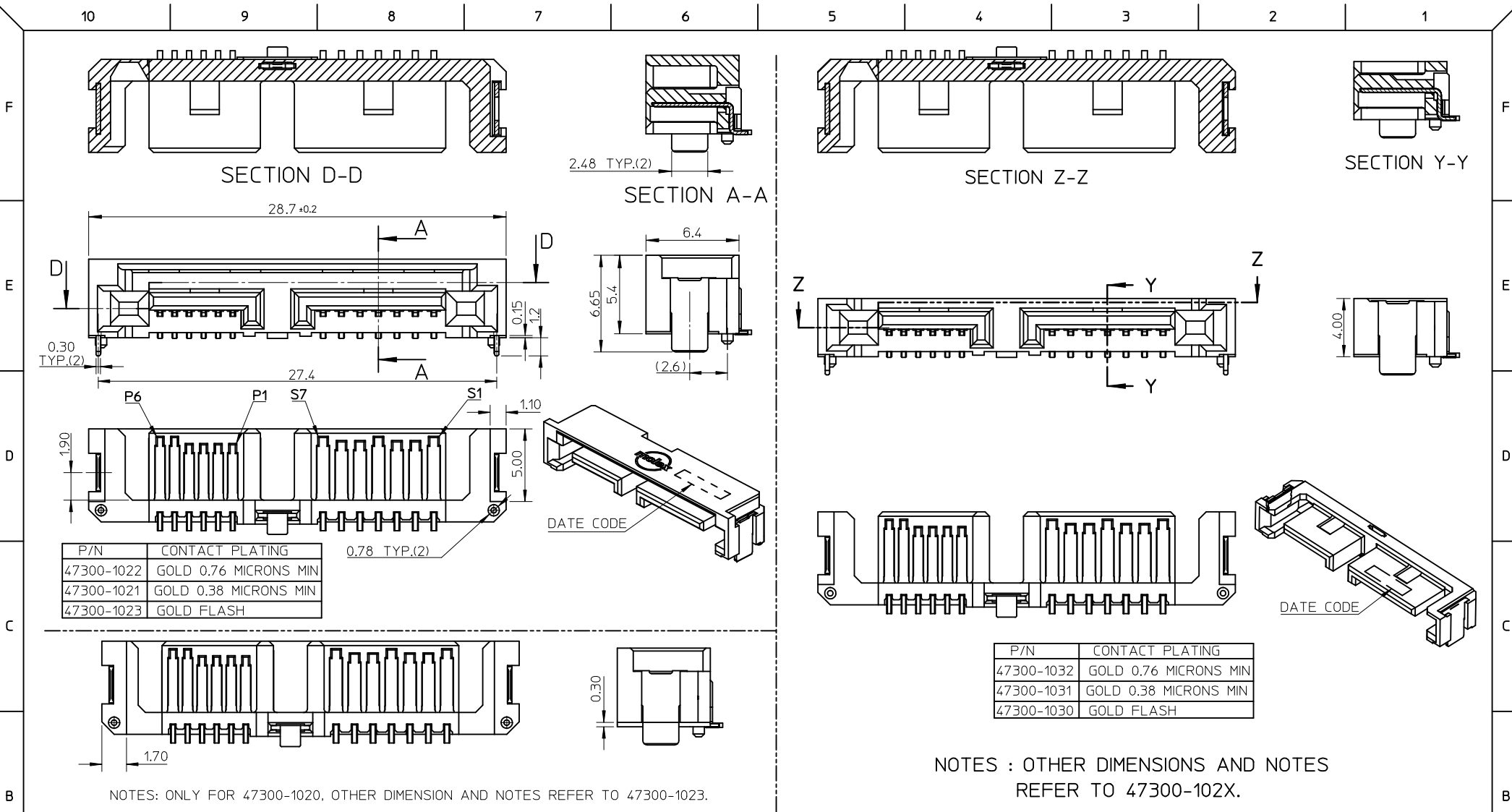
RECOMMENDED PCB LAYOUT(CONNECTOR SIDE)

THICKNESS=0.8MM

REMARK:

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

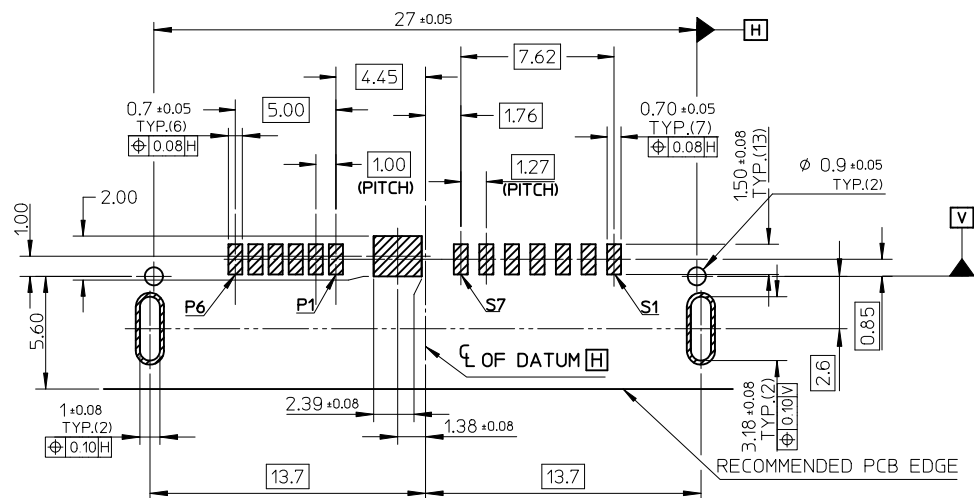
REVISED EC NO: SH2010-0310 DRWNG:GLLI CHKD: APPR:RZHANG J	2010/02/25	2010/02/26	2010/04/08	DESCRIPTION REV	QUALITY SYMBOLS F A = 0 F E = 0 F P = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 		
	4 PLACES		± ---			± ---	DRAWN BY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



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 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	± --- ± ---			
				2 PLACES	± --- ± ---	APPROVED BY RZHANG	DATE 2010/02/26	
				1 PLACE	± --- ± ---	MATERIAL NO.		
				ANGULAR ± 3 °		SEE TABLE OR NOTES		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
						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: GLL I	CHKD: J	APPR: RZHANG	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
								mm	INCH	MM ONLY	DATE							
							$\nabla = 0$	4 PLACES	± ---	± ---	2010/02/25	4:1	METRIC		SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER			5 OF 7
							$\nabla = 0$	3 PLACES	± ---	± ---	2010/02/25				SOLDERING TYPE			
							$\nabla = 0$	2 PLACES	± ---	± ---								
							$\nabla = 0$	1 PLACE	± ---	± ---								
								ANGULAR ± 3 °										
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
								SEE REMARK										
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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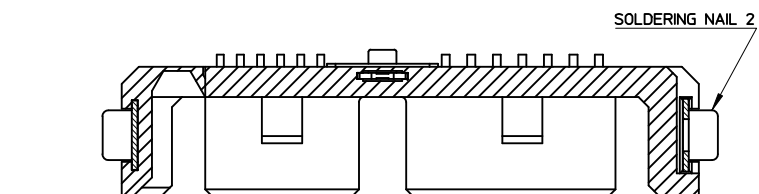
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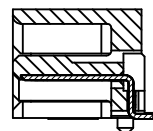
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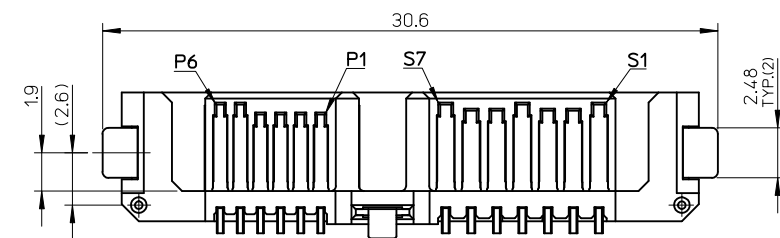
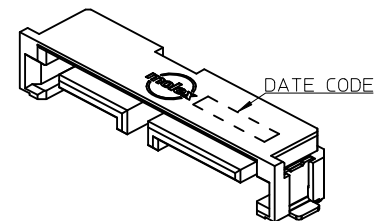
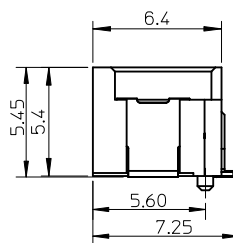
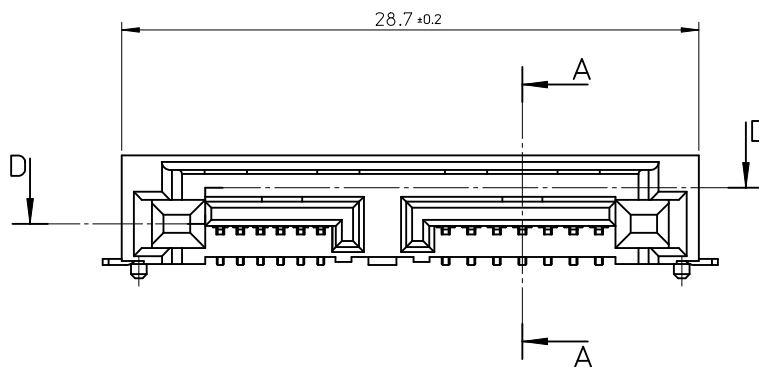
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SECTION D-D



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				
				mm	INCH	DRAWN BY GLL	DATE 2010/02/25	TITLE SLIMLINE SATA PLUG FOR OPTIC DISK DRIVER FITTING STANDARD TYPE					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	APPROVED BY RZHANG		DATE 2010/02/26	MOLEX INCORPORATED				
			2 PLACES	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.				
			1 PLACE	± ---	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			ANGULAR ± 3 °		SEE TABLE		SD-47300-100				6 OF 7		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.