

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0476500001

Status:

Active

Overview:

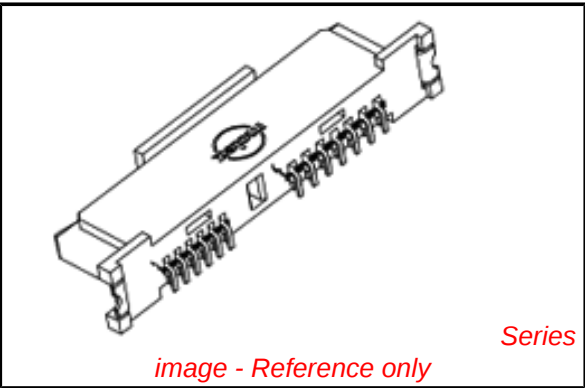
slimline_serial_ata_odd_connectors

Description:

1.00mm (.039"), 1.27mm (.050") Pitch Slimline Serial ATA Receptacle for Optical Disk Drives, Vertical, SMT, 0.10µm (4µ") Gold (Au) Plating, withCover, Lead free

Documents:	
3D Model	Product Specification PS-47650-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR 19980
UL	E29179
General	
Product Family	PCB Receptacles
Series	47650
Application	Board-to-Board
Overview	slimline_serial_ata_odd_connectors
Product Name	Serial ATA, Slimline Serial ATA
Physical	
Circuits (Loaded)	13
Circuits (maximum)	13
Color - Resin	Black
Durability (mating cycles max)	500
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PCB Locator	No
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)	4
Plating min: Mating (µm)	0.1
Plating min: Termination (µin)	39
Plating min: Termination (µm)	1
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Stackable	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount



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

47650Series

Mates With

473001xxx Slimline Serial ATA Plugs

Electrical

Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
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

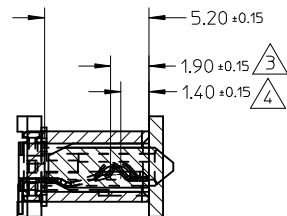
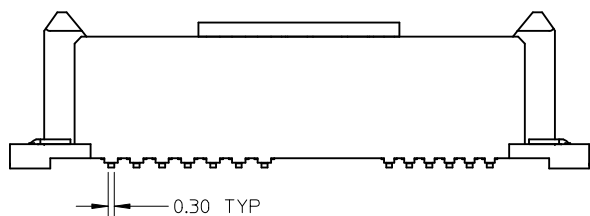
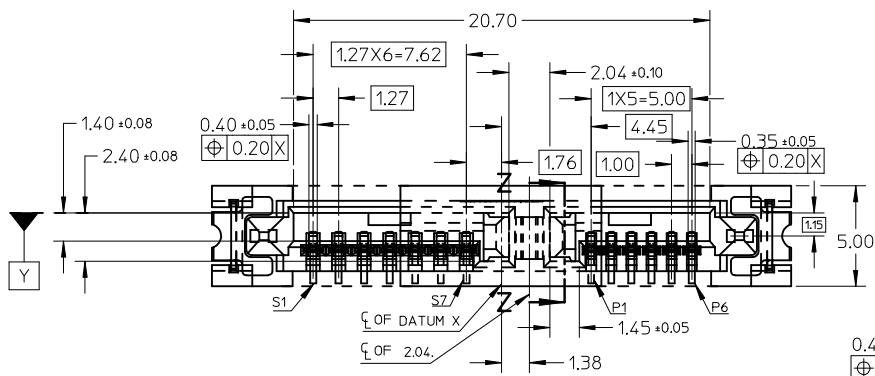
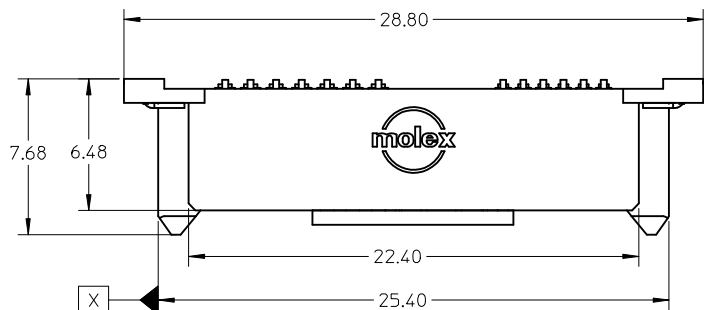
Material Info

Reference - Drawing Numbers

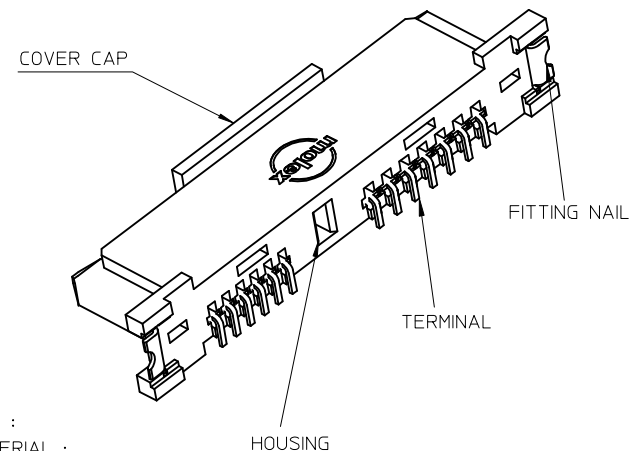
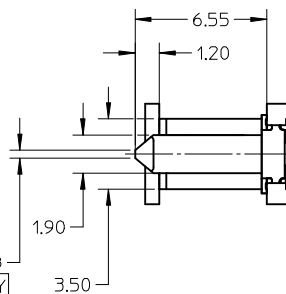
Packaging Specification	PK-47650-001
Product Specification	PS-47650-001
Sales Drawing	SD-47650-001

This document was generated on 05/31/2010

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SECTION Z-Z



NOTES :

1. MATERIAL :

HOUSING : HIGH TEMPERATURE THERMOPLASTIC,
UL94V-0, 30% G.F., BLACK.

TERMINAL : COPPER ALLOY

FITTING NAIL : COPPER ALLOY

COVER CAP:HIGH TEMPERATURE THERMOPLASTIC,
UL94V-0, 30% G.F., BLACK.

2. PLATING :

TERMINAL :

CONTACT AREA :SEE TABLE.

SOLDER AREA : TIN PLATING.

UNDERPLATING : NICKEL PLATING.

FITTING NAIL :

TIN PLATING 1.0 MICRONS MIN. OVER NICKEL PLATING
1.0 MICRONS MIN.

3. FOR P1 PIN ONLY.

4. FOR ALL OTHER PINS.

5. PRODUCT SPECIFICATION:PER PS-47650-001.

6. PRODUCT PACKAGE:PER PK-47650-001.

6. TERMINAL AND NAIL COPLANARITY TO BE 0.15MAX.

7. THE PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND
2000/53/EC.

TABLE

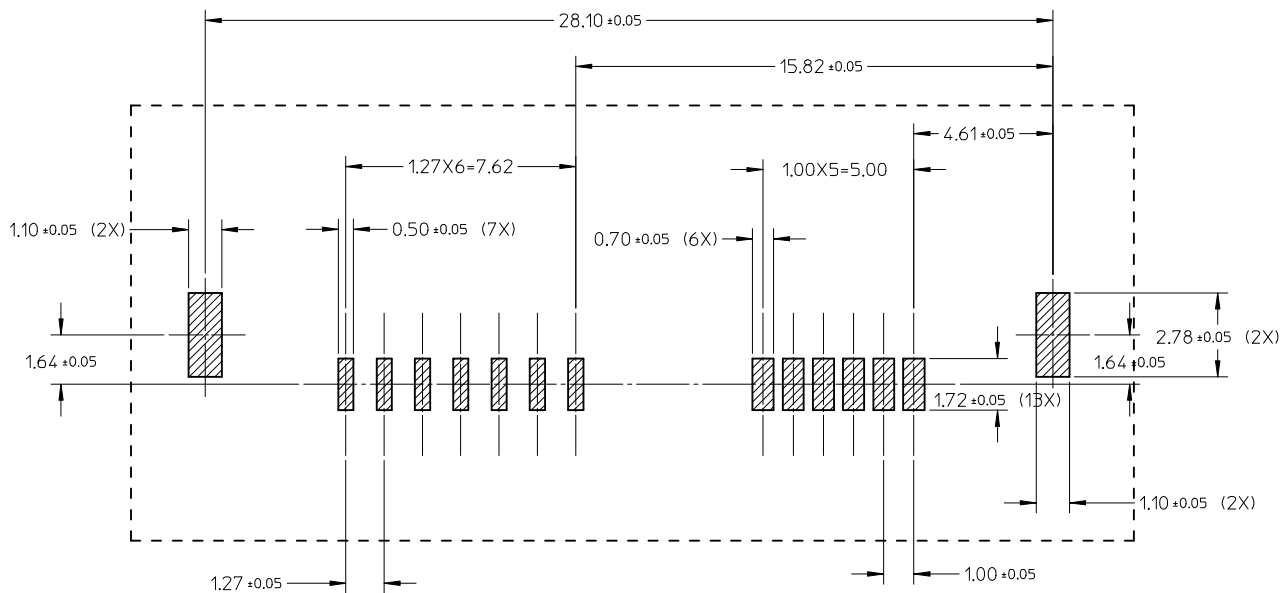
P/N	CONTACT AREA PLATING
47650-0001	0.1 MICRON MIN. GOLD
47650-0002	0.38 MICRON MIN. GOLD

UPDATE DRAWING	2009/06/01
EC NO: SH2009-0756	2009/06/02
DRWN:XJ SONG	2009/06/02
CHKD:XJ SONG	2009/06/02
APPR:HWANG	2009/06/30
REV	

QUALITY SYMBOLS
▽=0
∇=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.20	± ---
ANGULAR ± 2 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
DRAWN BY LSONG	DATE 2008-2-16	TITLE SLIMLINE SATA RECEPTACLE CONNECTOR		
CHECKED BY JTIAN	DATE 2008-2-16			
APPROVED BY HWANG	DATE 2008-2-16	 MOLEX INCORPORATED		
MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-47650-001			
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



RECOMMENDED PCB LAYOUT DIMENSION

SEE SHEET 1 EC NO: SH2009-0756 DRWN:XJSONG 2009/06/01 CHKD:XJSONG 2009/06/02 APPR:HWANG 2009/06/30	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 6:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY LSONG	DATE 2008-2-16	TITLE SLIMLINE SATA RECEPTACLE CONNECTOR			
		4 PLACES	± ---	± ---	CHECKED BY JTIAN	DATE 2008-2-16				
		3 PLACES	± ---	± ---	APPROVED BY HWANG	DATE 2008-2-16				
		2 PLACES	± 0.15	± ---			MOLEX INCORPORATED			
		1 PLACE	± 0.20	± ---			DOCUMENT NO.			
		ANGULAR ± 2 °					SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE SHEET 1		SD-47650-001			
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



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

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