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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

Drawing (PDF)

Product Specification PS-47650-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR 19980

UL

E29179

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

47650

Board-to-Board

slimline\_serial\_ata\_odd\_connectors

Serial ATA, Slimline Serial ATA

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Robotic Placement

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

13

13

Black

500

94V-0

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

1

Vertical

No

Yes

Embossed Tape on Reel

0.039 In, 0.050 In

1.00 mm, 1.27 mm

0.039 In, 0.050 In

1.00 mm, 1.27 mm

4

0.1

39

1

Yes

Yes

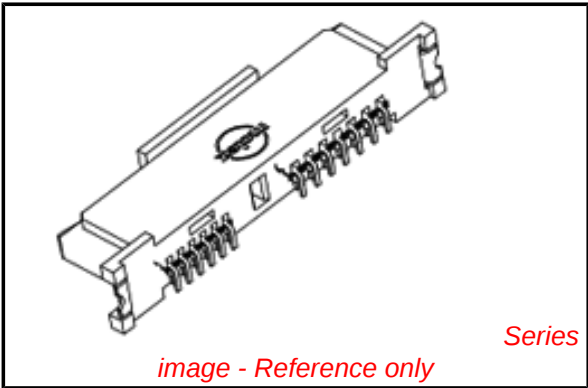
Pick and Place Cap

No

N/A

-35°C to +85°C

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](mailto: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                       |

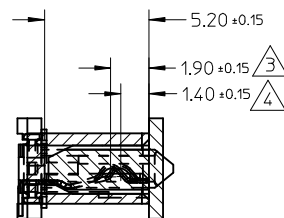
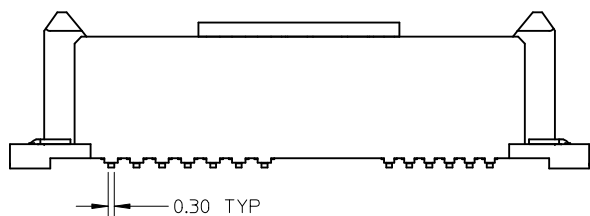
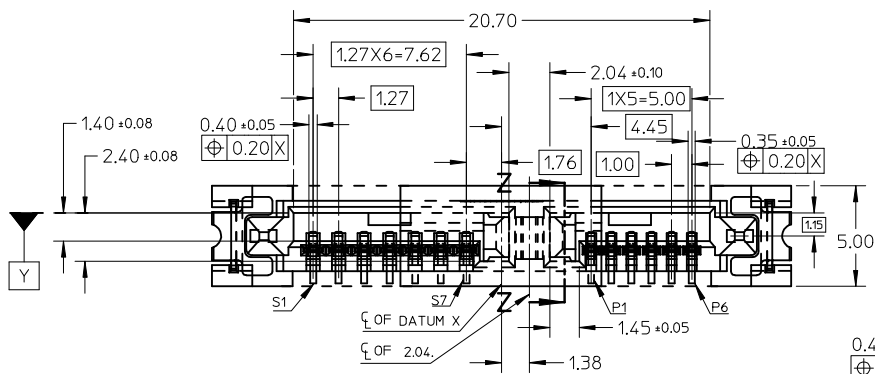
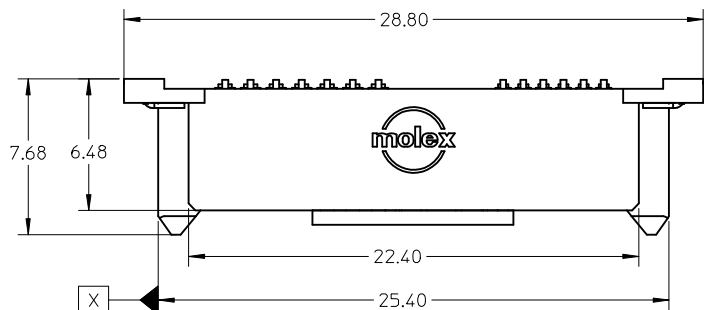
**Material Info**

**Reference - Drawing Numbers**

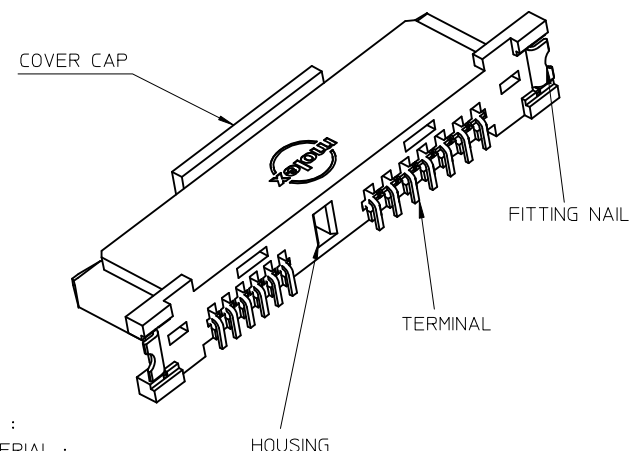
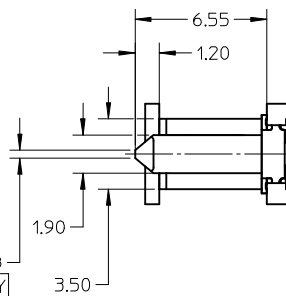
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-47650-001 |
| Product Specification   | PS-47650-001 |
| Sales Drawing           | SD-47650-001 |

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SECTION Z-Z



NOTES :

- 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.
- 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.
- FOR P1 PIN ONLY.
- FOR ALL OTHER PINS.
- PRODUCT SPECIFICATION:PER PS-47650-001.
- PRODUCT PACKAGE:PER PK-47650-001.
- TERMINAL AND NAIL COPLANARITY TO BE 0.15MAX.
- 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 |

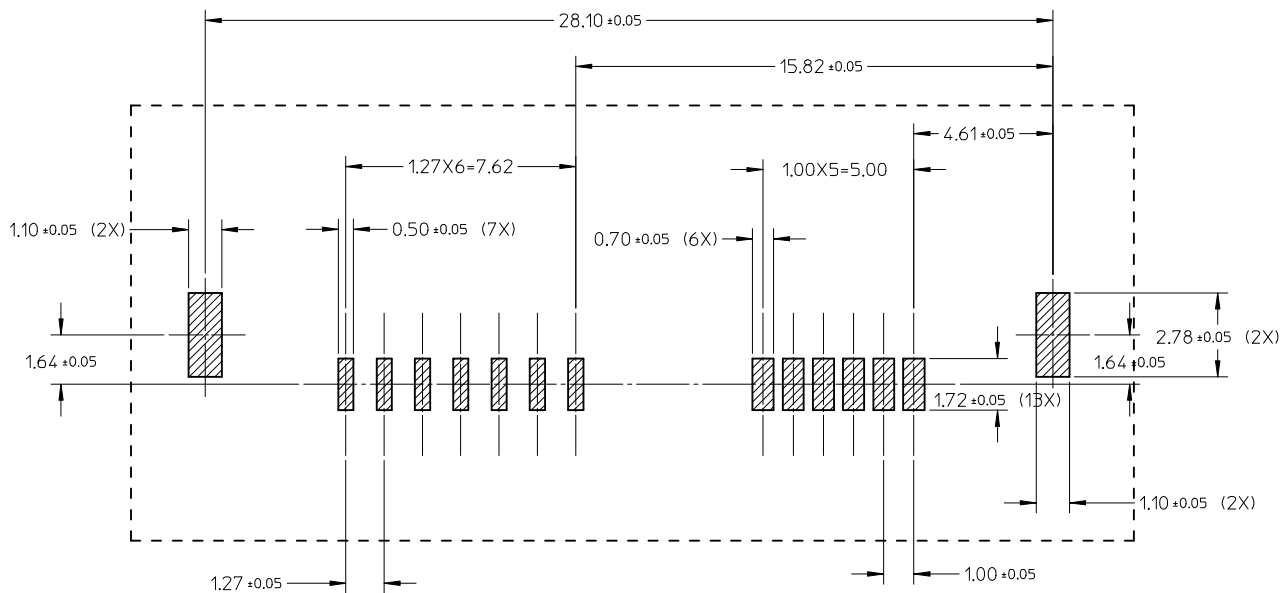
|                |                    |            |
|----------------|--------------------|------------|
| UPDATE DRAWING | EC NO: SH2009-0756 | 2009/06/01 |
| DRWN:XJSONG    | 2009/06/02         |            |
| CHKD:XJSONG    | 2009/06/02         |            |
| APPR:HWANG     | 2009/06/30         |            |
| REV            | DESCRIPTION        |            |

|                 |
|-----------------|
| 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         |           |
| DRAWN BY        | DATE      |
| LSONG           | 2008-2-16 |
| CHECKED BY      | DATE      |
| JTIAN           | 2008-2-16 |
| APPROVED BY     | DATE      |
| HWANG           | 2008-2-16 |
| MATERIAL NO.    |           |
| SEE TABLE       |           |
| SIZE            |           |
| A3              |           |

|                                                                                                                 |                        |                                                                                       |                           |
|-----------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|---------------------------|
| SCALE<br>4:1                                                                                                    | DESIGN UNITS<br>METRIC |  | THIRD ANGLE<br>PROJECTION |
| TITLE<br>SLIMLINE SATA<br>RECEPTACLE CONNECTOR                                                                  |                        |                                                                                       |                           |
| molex MOLEX INCORPORATED                                                                                        |                        |                                                                                       |                           |
| DOCUMENT NO.<br>SD-47650-001                                                                                    |                        |                                                                                       | SHEET NO.<br>1 OF 2       |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                       |                           |



RECOMMENDED PCB LAYOUT DIMENSION

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

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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