

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0470182002](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Serial ATA Host Receptacle, Mating Height 4.30mm (.169"), 0.38µm (15µ") Gold (Au) Plating, Light Tin Solder Area, SurfaceMount, Right Angle, Top Mount Type, 22 Circuits, Lead Free

**Documents:**

[3D Model](#) [Product Specification PS-67492-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR 19980  
 UL E29179

**General**

Product Family PCB Receptacles  
 Series [47018](#)  
 Application Board-to-Board  
 Comments Top Mount Type  
 Product Name Serial ATA

**Physical**

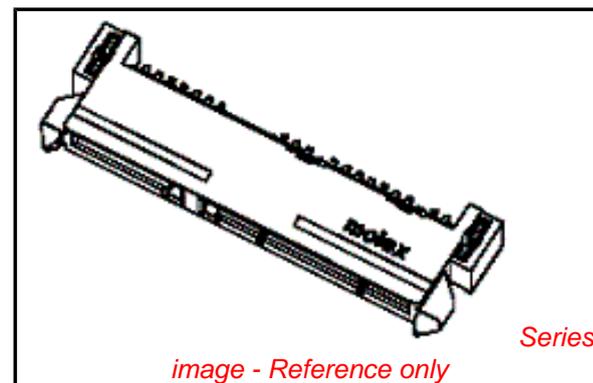
Circuits (Loaded) 22  
 Color - Resin Black  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Keying to Mating Part Yes  
 Lock to Mating Part None  
 Material - Metal Copper Alloy  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Number of Rows 1  
 Orientation Right Angle  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness Recommended (in) 0.062 In  
 PCB Thickness Recommended (mm) 1.60 mm  
 Packaging Type Tray  
 Pitch - Mating Interface (in) 0.050 In  
 Pitch - Mating Interface (mm) 1.27 mm  
 Plating min: Mating (µin) 15  
 Plating min: Mating (µm) 0.38  
 Plating min: Termination (µin) 80  
 Plating min: Termination (µm) 2.00  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Surface Mount Compatible (SMC) N/A  
 Temperature Range - Operating -35°C to +85°C  
 Termination Interface: Style Surface Mount

**Electrical**

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

**Solder Process Data**

Lead-free Process Capability Reflow Capable (SMT only)



**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](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**

47018Series

**Mates With**

87703-0001

Process Temperature max. C 230

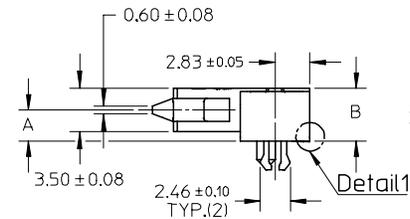
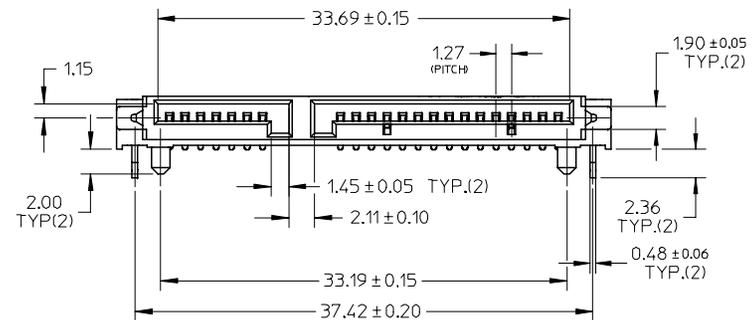
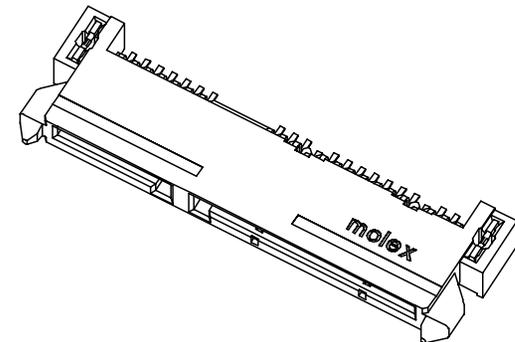
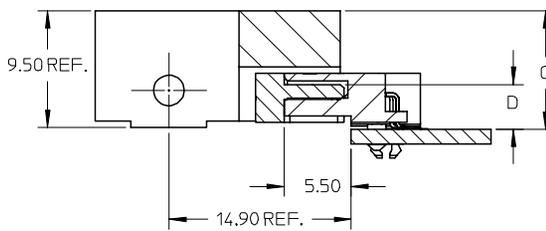
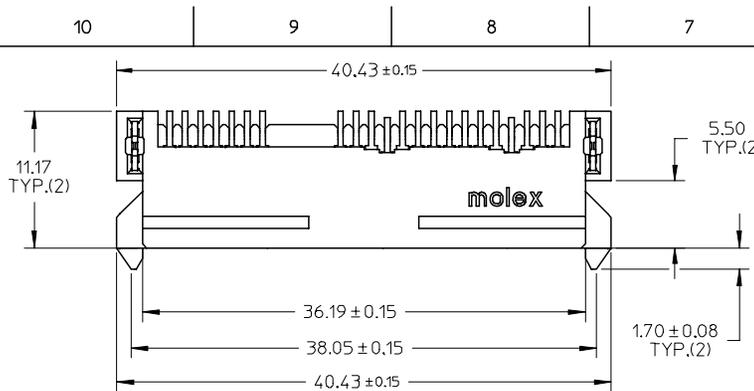
**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-67492-001  
Sales Drawing SD-47018-001

This document was generated on 04/14/2010

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Detail1

NOTES:

1.MATERIAL:

HOUSING: THERMAL PLASTIC, GLASS FILLED, UL94V-0. COLOR: BLACK,  
 FORKLICK: COPPER ALLOY,  
 TERMINALS: COPPER ALLOY.

2.TERMINAL PLATING:

CONTACT AREA:

- (a) GOLD FLASH;
- (b) GOLD, THICKNESS=0.76 MICRONS MINIMUM,
- (c) GOLD, THICKNESS=0.38 MICRONS MINIMUM,

▽SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,  
 UNDER PLATE: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.

3.FORLICK PLATING:

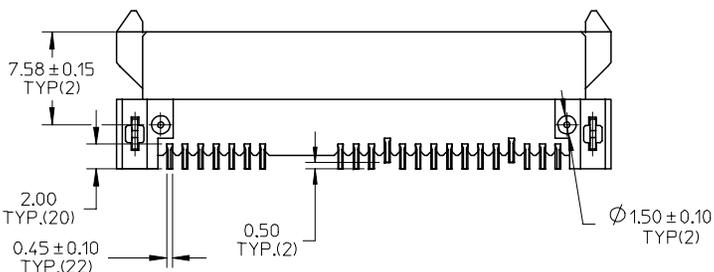
▽SOLDER AREA: TIN, THICKNESS=2.00 MICRONS MINIMUM,  
 UNDER PLATING: NICKEL, THICKNESS=1.27 MICRONS MINIMUM.

4.PRODUCT SPECIFICATION: PS-67492-001.

5.PACKAGING METHOD: 47018-400\*, TAPE REEL, DETAIL REFER TO PK-47018-003,  
 OTHERS, TRAY, DETAIL REFER TO PK-67492-001.

6.MATING PARTS: 87703/87672.

▽7.PRODUCT COMPLIANT TO RoSH DIRECTIVE 2002/95/EC AND 2000/53/EC.



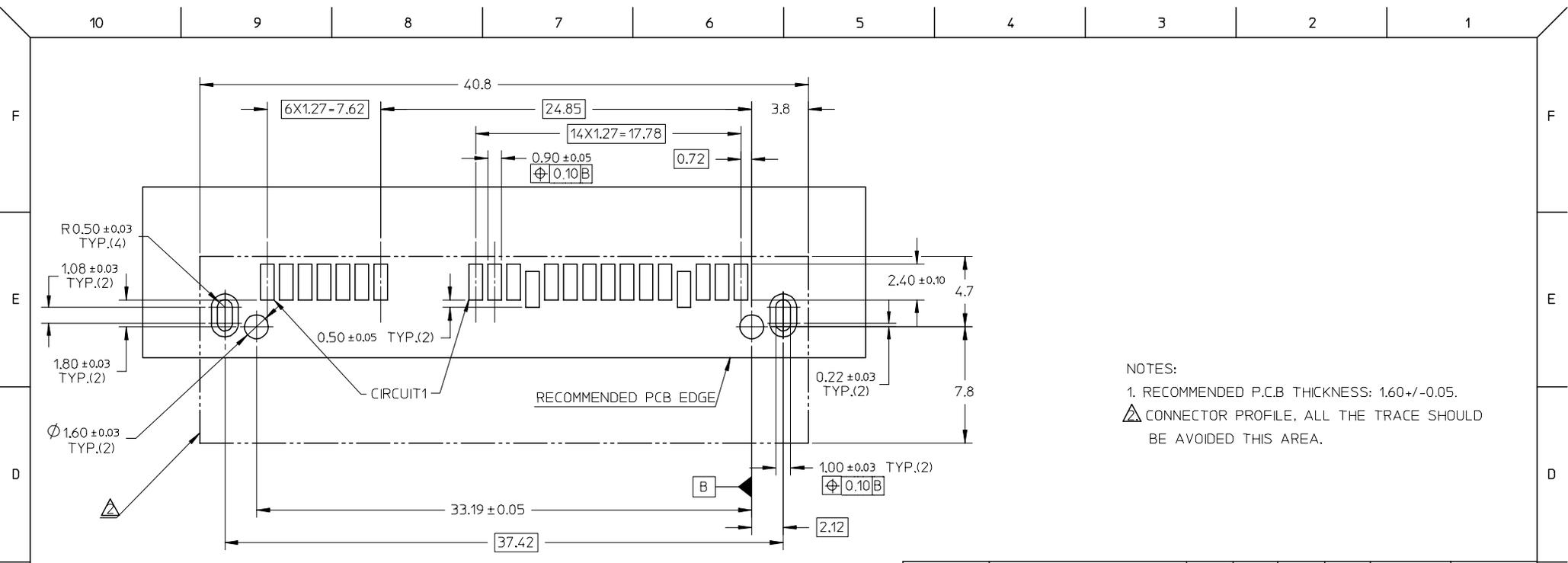
|             |             |
|-------------|-------------|
| ADD PART NO | SH2007-0187 |
| EC NO:      | SH2007-0187 |
| DRWN:       | HZHA006     |
| CHKD:       | JTIAN       |
| APPR:       | JNCHEN      |
| REV         |             |

|                 |             |
|-----------------|-------------|
| QUALITY SYMBOLS | DESCRIPTION |
| ▽=0             |             |
| ▽=0             |             |

|  |        |
|--|--------|
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |
| mm   | INCH   |
| 4 PLACES   | ± ---  |
| 3 PLACES   | ± ---  |
| 2 PLACES   | ± 0.25 |
| 1 PLACE  | ± 0.25 |
| ANGULAR ± 3 °  |        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |

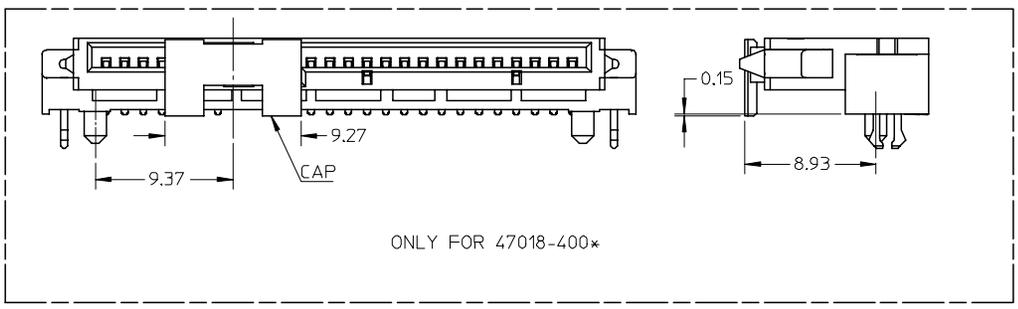
|                 |            |
|-----------------|------------|
| DIMENSION STYLE |            |
| MM ONLY         |            |
| DRAWN BY        | DATE       |
| TOM LI          | 2004/10/25 |
| CHECKED BY      | DATE       |
| GRATE MA        | 2004/10/25 |
| APPROVED BY     | DATE       |
| VINCENT         | 2004/10/25 |
| MATERIAL NO.    |            |
| SEE SHEET 2     |            |

|   |              |                        |  |
|---|--------------|------------------------|--|
| SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
| 2:1   | METRIC       |                        |  |
| TITLE   |              |                        |  |
| SERIAL ATA DOCKING CONNECTOR TOP MOUNT TYPE   |              |                        |  |
| MOLEX INCORPORATED  |              |                        |  |
| DOCUMENT NO.  |              | SHEET NO.              |  |
| SD-47018-001  |              | 1 OF 2                 |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |  |



NOTES:  
 1. RECOMMENDED P.C.B THICKNESS: 1.60+/-0.05.  
 △ CONNECTOR PROFILE, ALL THE TRACE SHOULD BE AVOIDED THIS AREA.

RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)



| PRODUCT    | CONTACT PLATING SPEC   | DIM'A' | DIM'B' | DIM'C' | DIM'D' | PACKAGE   | REMARK      |
|------------|------------------------|--------|--------|--------|--------|-----------|-------------|
| 47018-4000 | NOTES 2 (A) OF SHEET 1 | 3.40   | 5.15   | 10.50  | 4.50   | TAPE REEL | PURE TIN    |
| 47018-4001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           | (LIGHT TIN) |
| 47018-4002 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           | WITH CAP    |
| 47018-3000 | NOTES 2 (A) OF SHEET 1 | 2.95   | 4.70   | 10.05  | 4.05   | TRAY      | PURE TIN    |
| 47018-3001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           | (LIGHT TIN) |
| 47018-3002 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           |             |
| 47018-2010 | NOTES 2 (A) OF SHEET 1 | 2.55   | 4.30   | 9.65   | 3.65   | TRAY      | PURE TIN    |
| 47018-2011 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           | (MATTE TIN) |
| 47018-2012 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           |             |
| 47018-2000 | NOTES 2 (A) OF SHEET 1 | 2.55   | 4.30   | 9.65   | 3.65   | TRAY      | PURE TIN    |
| 47018-2001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           | (LIGHT TIN) |
| 47018-2002 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           |             |

|   |                               |  |  |                            |  |                              |                        |  |  |  |
|---|-------------------------------|--|--|----------------------------|--|------------------------------|------------------------|--|--|--|
| ADD PART NO<br>EC NO: SH2007-0187<br>DRWN: HZHA006<br>CHKD: JTIAN<br>APPR: JNCHEN | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>1:1                 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION   |  |  |
|   |                               |  |  | DRAWN BY<br>TOM LI         |  | DATE<br>2004/10/25           |                        | SERIAL ATA DOCKING CONNECTOR<br>TOP MOUNT TYPE<br>MOLEX INCORPORATED |  |  |
|   |                               |  |  | CHECKED BY<br>GRATE MA     |  | DATE<br>2004/10/25           |                        |  |  |  |
|   |                               |  |  | APPROVED BY<br>VINCENT     |  | DATE<br>2004/10/25           |                        |  |  |  |
| REV   | DESCRIPTION                   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE TABLE                  |  | DOCUMENT NO.<br>SD-47018-001 |                        | SHEET NO.<br>2 OF 2  |  |  |

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

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