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**Part Number:** [0470182011](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Serial ATA Host Receptacle, Mating Height 4.30mm (.169"), 0.76µm (30µ") Gold (Au) Plating, Matte Tin Solder Area, Surface Mount, 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**

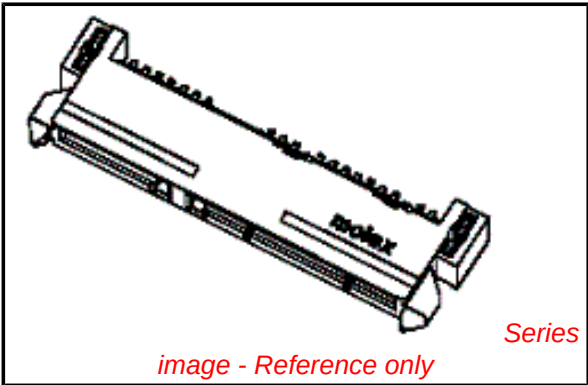
Product Family PCB Receptacles  
Series [47018](#)  
Application Board-to-Board  
Comments Top Mount Type  
Product Name Serial ATA

**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) 0.063 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  
Pitch - Term. Interface (in) 0.050 In  
Pitch - Term. Interface (mm) 1.27 mm  
Plating min: Mating (µin) 30.4  
Plating min: Mating (µm) 0.76  
Plating min: Termination (µin) 80  
Plating min: Termination (µm) 2.00  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Stackable No  
Surface Mount Compatible (SMC) Yes  
Temperature Range - Operating -35°C to +85°C  
Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 1.5A



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**

**Not Reviewed**

**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.

**China RoHS**



**Search Parts in this Series**

[47018Series](#)

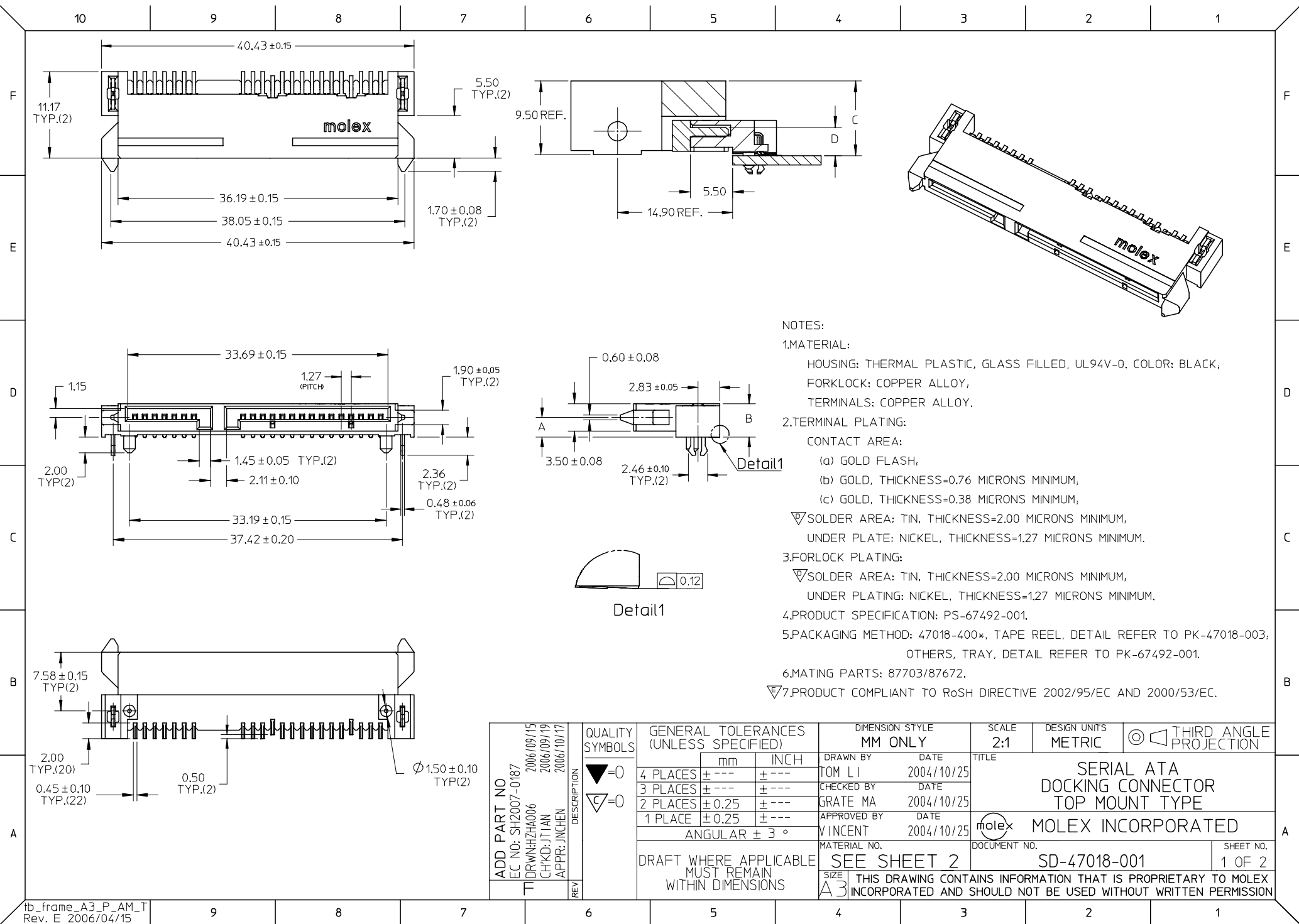
**Mates With**

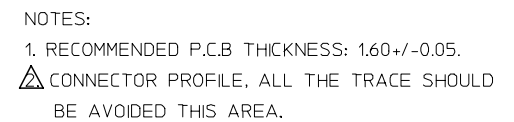
[87703-0001](#)

|                                                |                           |
|------------------------------------------------|---------------------------|
| Voltage - Maximum                              | 15V DC                    |
| <b>Solder Process Data</b>                     |                           |
| Duration at Max. Process Temperature (seconds) | 8                         |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 2                         |
| Process Temperature max. C                     | 260                       |
| <b>Material Info</b>                           |                           |
| <b>Reference - Drawing Numbers</b>             |                           |
| Product Specification                          | PS-67492-001              |
| Sales Drawing                                  | SD-47018-001              |

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ONLY FOR 47018-400\*

| 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<br>(LIGHT TIN)<br>WITH CAP |
| 47018-4001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           |                                     |
| 47018-4002 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           |                                     |
| 47018-3000 | NOTES 2 (A) OF SHEET 1 | 2.95   | 4.70   | 10.05  | 4.05   | TRAY      | PURE TIN<br>(LIGHT TIN)             |
| 47018-3001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           |                                     |
| 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<br>(MATTE TIN)             |
| 47018-2011 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           |                                     |
| 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<br>(LIGHT TIN)             |
| 47018-2001 | NOTES 2 (B) OF SHEET 1 |        |        |        |        |           |                                     |
| 47018-2002 | NOTES 2 (C) OF SHEET 1 |        |        |        |        |           |                                     |

|                                                                                                                             |             |                            |                                                            |        |       |                                                                                                                                             |                    |                                                            |                        |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|------------------------------------------------------------|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|------------------------|---------------------------|--|--|
| ADD PART NO<br>EC NO: SH2007-0187<br>DRAWN: ZHAO06<br>CHKD: JIAN<br>APPR: JINCHEN<br>2006/09/15<br>2006/09/19<br>2006/10/17 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        |       | DIMENSION STYLE<br>MM ONLY                                                                                                                  |                    | SCALE<br>1:1                                               | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                             |             |                            |                                                            | mm     | INCH  | DRAWN BY<br>TOM LI                                                                                                                          | DATE<br>2004/10/25 | TITLE<br>SERIAL ATA<br>DOCKING CONNECTOR<br>TOP MOUNT TYPE |                        |                           |  |  |
|                                                                                                                             |             |                            | 4 PLACES                                                   | ± ---  | ± --- | CHECKED BY<br>GRATE MA                                                                                                                      | DATE<br>2004/10/25 |                                                            |                        |                           |  |  |
|                                                                                                                             |             |                            | 3 PLACES                                                   | ± ---  | ± --- | APPROVED BY<br>VINCENT                                                                                                                      | DATE<br>2004/10/25 | MOLEX INCORPORATED                                         |                        |                           |  |  |
|                                                                                                                             |             |                            | 2 PLACES                                                   | ± 0.25 | ± --- | MATERIAL NO.                                                                                                                                |                    |                                                            |                        |                           |  |  |
|                                                                                                                             |             |                            | 1 PLACE                                                    | ± 0.25 | ± --- | SEE TABLE                                                                                                                                   |                    | SD-47018-001                                               |                        | 2 OF 2                    |  |  |
|                                                                                                                             |             |                            | ANGULAR ± 3 °                                              |        |       |                                                                                                                                             |                    |                                                            |                        |                           |  |  |
|                                                                                                                             |             |                            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       |                                                                                                                                             |                    |                                                            |                        |                           |  |  |
|                                                                                                                             |             |                            |                                                            |        |       | SIZE A3<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                            |                        |                           |  |  |
|                                                                                                                             |             |                            |                                                            |        |       |                                                                                                                                             |                    |                                                            |                        |                           |  |  |