

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0470182010](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Serial ATA Host Receptacle, Mating Height 4.30mm (.169"), Gold (Au) Flash, Matt Tin Solder Area, Surface Mount, Right Angle, Top Mount Type, 22 Circuits, Lead Free

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-67492-001 \(PDF\)](#)

**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**

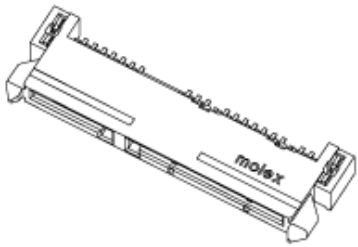
Circuits (Loaded) 22  
Color - Resin Black  
Durability (mating cycles max) 500  
Flammability 94V-0  
Glow-Wire Compliant No  
Keying to Mating Part Yes  
Lock to Mating Part None  
Material - Metal Copper Alloy  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Number of Rows 1  
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) 2  
Plating min: Mating (µm) 0.05  
Plating min: Termination (µin) 80  
Plating min: Termination (µm) 2.00  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Temperature Range - Operating -35°C to +85°C  
Termination Interface: Style Surface Mount

**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**



*Series*  
*image - Reference 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](#)

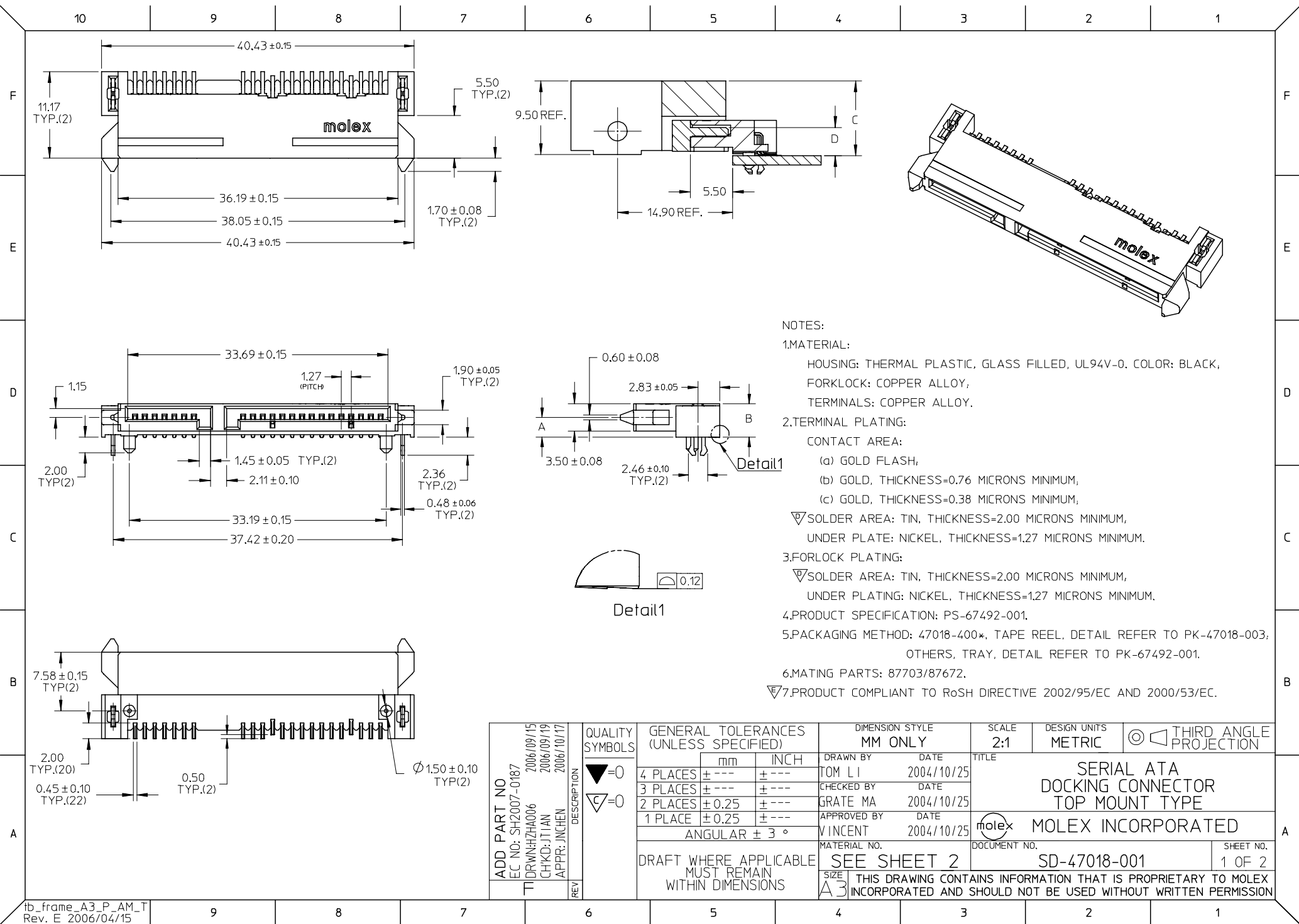
Please visit the [Contact Us](#) section for any non-product compliance questions.

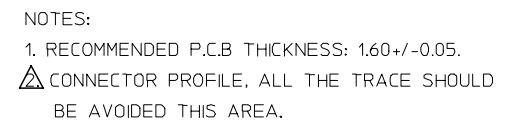
**Search Parts in this Series**  
[47018Series](#)

**Mates With**  
[87703-0001](#)

This document was generated on 04/14/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**





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>DRAWING#ZHA006<br>CHKD:JTIAN<br>APPR:JNCHEN<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                                                                                                                      | DATE       | TITLE<br><br>SERIAL ATA<br>DOCKING CONNECTOR<br>TOP MOUNT TYPE |                        |                           |  |  |  |
|                                                                                                                            |             |                            | 4 PLACES                                                   | ± ---  | ± --- | TOM LI                                                                                                                        | 2004/10/25 |                                                                |                        |                           |  |  |  |
|                                                                                                                            |             |                            | 3 PLACES                                                   | ± ---  | ± --- | CHECKED BY                                                                                                                    | DATE       |                                                                |                        |                           |  |  |  |
|                                                                                                                            |             |                            | 2 PLACES                                                   | ± 0.25 | ± --- | GRATE MA                                                                                                                      | 2004/10/25 |                                                                |                        |                           |  |  |  |
|                                                                                                                            |             |                            | 1 PLACE                                                    | ± 0.25 | ± --- | APPROVED BY                                                                                                                   | DATE       | MOLEX INCORPORATED                                             |                        |                           |  |  |  |
|                                                                                                                            |             |                            | ANGULAR ± 3 °                                              |        |       | VINCENT                                                                                                                       | 2004/10/25 |                                                                |                        |                           |  |  |  |
|                                                                                                                            |             |                            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | MATERIAL NO.                                                                                                                  |            | DOCUMENT NO.                                                   |                        | SHEET NO.                 |  |  |  |
|                                                                                                                            |             |                            |                                                            |        |       | SEE TABLE                                                                                                                     |            | SD-47018-001                                                   |                        | 2 OF 2                    |  |  |  |
|                                                                                                                            |             |                            |                                                            |        |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                                |                        |                           |  |  |  |