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Part Number:

0473065001

Status:

Active

Overview:

serial\_ata\_products

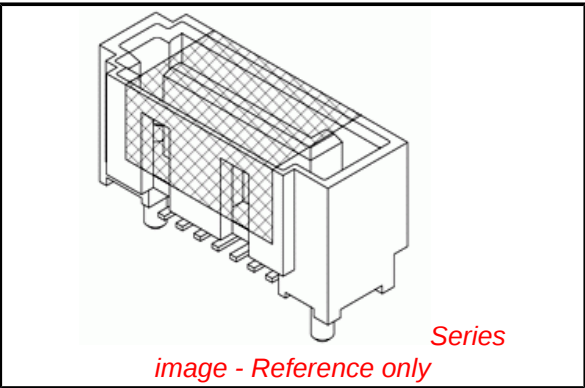
Description:

1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Surface Mount, with Locking Latch, 7 Circuits, Gold (Au) Flash, Metal Post Length 2.65mm (.104"), with Mylar, Tape on Reel Package, Lead-free

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Documents:                    |                                                          |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-67491-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Agency Certification |                                                       |
| CSA                  | LR 19980                                              |
| UL                   | E29179                                                |
| General              |                                                       |
| Product Family       | PCB Headers                                           |
| Series               | 47306                                                 |
| Application          | Board-to-Board                                        |
| Comments             | Staggered Solder Pin Metal Post Length 2.65mm (.104") |
| Overview             | <a href="#">serial_ata_products</a>                   |
| Product Name         | Serial ATA                                            |

|                                |                                |
|--------------------------------|--------------------------------|
| Physical                       |                                |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 7                              |
| Circuits (maximum)             | 7                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| First Mate / Last Break        | Yes                            |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Guide to Mating Part           | Yes                            |
| Keying to Mating Part          | Yes                            |
| Lock to Mating Part            | Yes                            |
| Mated Height (in)              | 0.331 In                       |
| Mated Height (mm)              | 8.40 mm                        |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| Packaging Type                 | Embossed Tape on Reel          |
| 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)      | 2                              |
| Plating min: Mating (µm)       | 0.05                           |
| Plating min: Termination (µin) | 50                             |
| Plating min: Termination (µm)  | 1.27                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

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

47306Series

|                               |                     |
|-------------------------------|---------------------|
| Robotic Placement             | Vacuum Pick-Up Tape |
| Shrouded                      | Fully               |
| Stackable                     | No                  |
| 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**

|                                                |                           |
|------------------------------------------------|---------------------------|
| 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                     | 255                       |

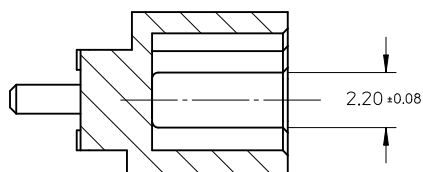
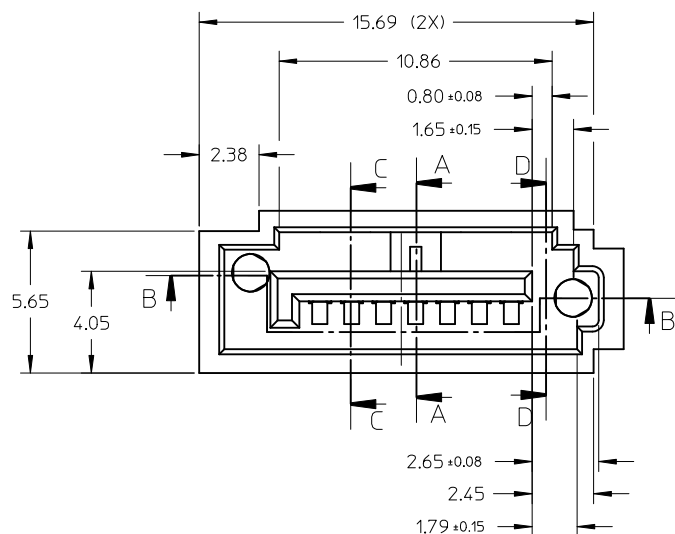
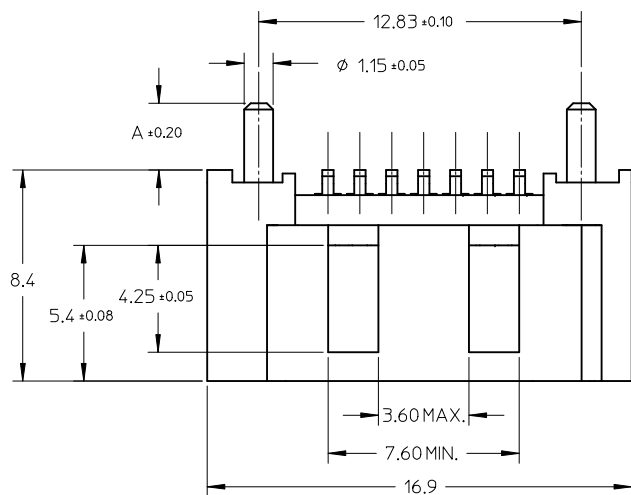
**Material Info**

**Reference - Drawing Numbers**

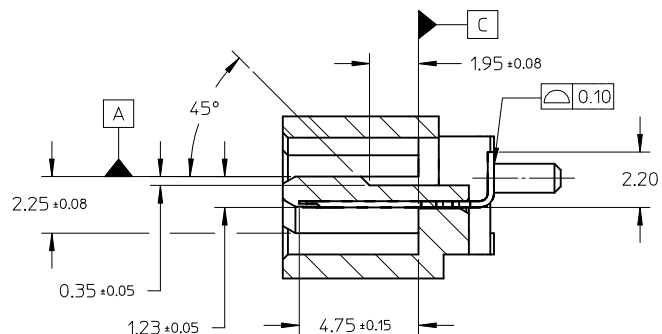
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-47306-001 |
| Product Specification   | PS-67491-001 |
| Sales Drawing           | SD-47306-001 |

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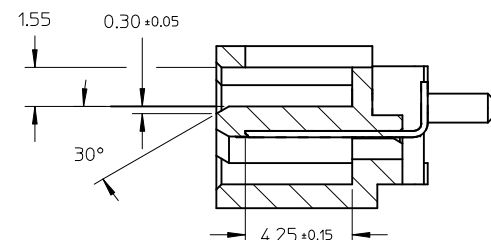
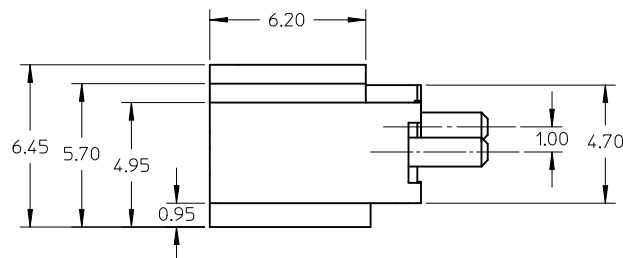
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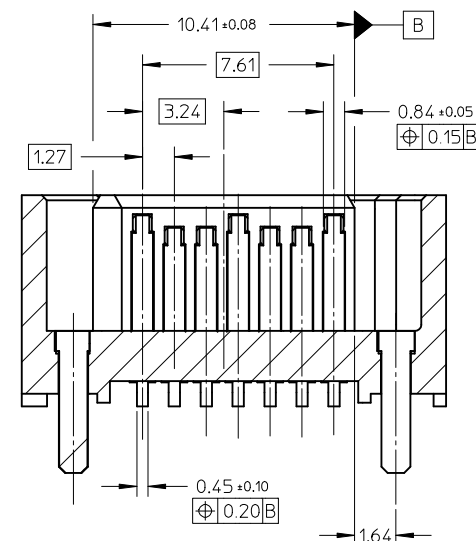
SECTION D-D



SECTION A-A



SECTION C-C



SECTION B-B

|                                                                                      |                                        |                    |                                   |                                       |       |                                                                                                                                  |                    |                    |                                                                           |                           |                     |  |  |
|--------------------------------------------------------------------------------------|----------------------------------------|--------------------|-----------------------------------|---------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|---------------------------------------------------------------------------|---------------------------|---------------------|--|--|
| ADD PART NUMBER<br>EC NO: SH2010-0232<br>DRWN:XJ SONG<br>CHKD:XJ SONG<br>APPR:RZHANG | 2010/01/07<br>2010/01/11<br>2010/01/14 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY                                                                                                       |                    | SCALE<br>5:1       | DESIGN UNITS<br>METRIC                                                    | THIRD ANGLE<br>PROJECTION |                     |  |  |
|                                                                                      |                                        |                    |                                   |                                       | mm    | INCH                                                                                                                             | DRAWN BY<br>JENNY  | DATE<br>2005/07/22 | TITLE<br>HIGH SPEED CONNECTOR<br>1.27MM PITCH VERTICAL<br>SMT SOLDER TAIL |                           |                     |  |  |
|                                                                                      |                                        |                    |                                   | 4 PLACES                              | ± --- | ± ---                                                                                                                            | CHECKED BY<br>GRMA | DATE<br>2005/07/22 |                                                                           |                           |                     |  |  |
|                                                                                      |                                        |                    |                                   | 3 PLACES                              | ± --- | ± ---                                                                                                                            | APPROVED BY<br>YAP | DATE<br>2005/07/22 | DOCUMENT NO.<br>SD-47306-001                                              |                           | SHEET NO.<br>1 OF 2 |  |  |
|                                                                                      |                                        | ANGULAR ± 1 °      |                                   | MATERIAL NO.<br>SEE SHEET2            |       | MOLEX MOLEX INCORPORATED                                                                                                         |                    |                    |                                                                           |                           |                     |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                           |                                        |                    |                                   | SIZE<br>A3                            |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                    |                                                                           |                           |                     |  |  |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10 9 8 7 6 5 4 3 2 1

NOTES:

1. MATERIAL:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, GLASS FILLED,  
UL94V-0, COLOR: BLACK

TERMINAL: BRASS

POST: BRASS

2. TERMINAL PLATING:

CONTACT AREA: (a) GOLD FLASH

(b) GOLD, THICKNESS=0.76 MICRON MINIMUM

(C) GOLD, THICKNESS=0.38 MICRON MINIMUM

SOLDER TAIL: TIN, THICKNESS=1.27 MICRON MINIMUM

UNDER PLATE: NICKEL, THICKNESS=1.27 MICRON MINIMUM

3. POST PLATING: UNDER PLATE: NICKEL, THICKNESS=1.25 MICRON MINIMUM

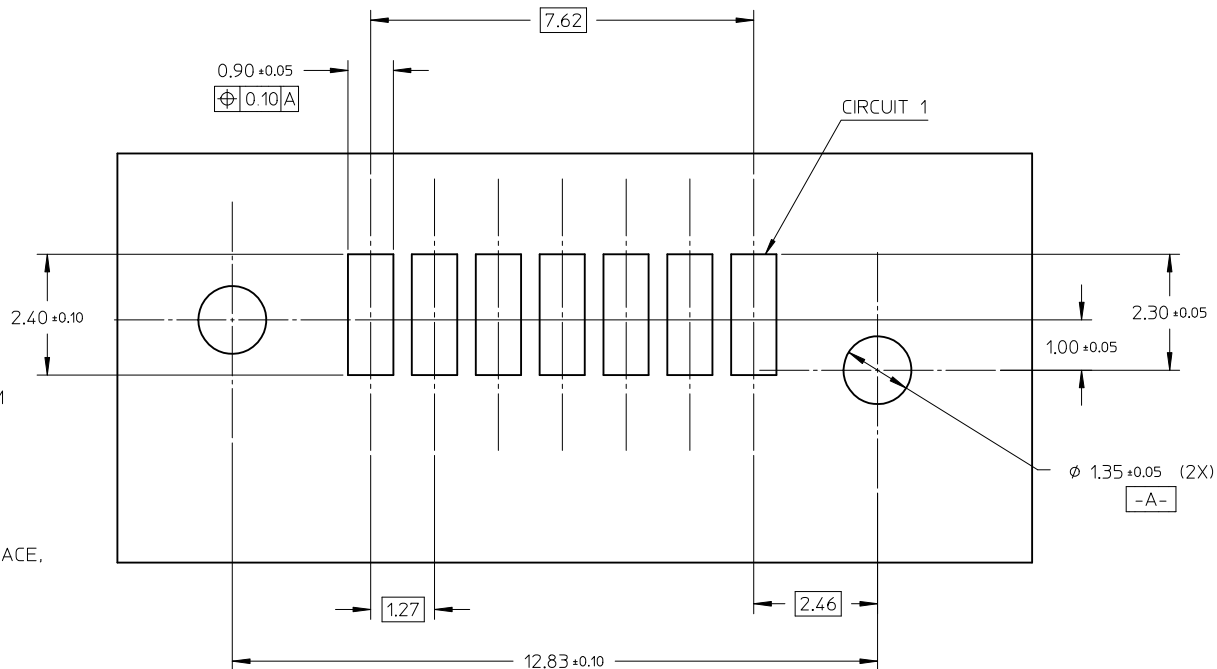
TIN, THICKNESS=1.9 MICRON MINIMUM OVER ALL

4. PACKAGING: TAPE REEL

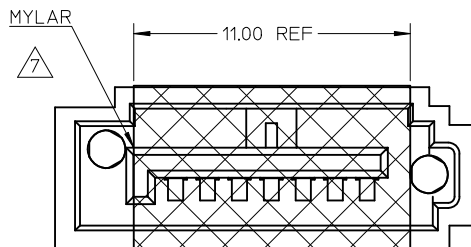
5. PRODUCT SPECIFICATION REFER TO PS-67491-001

6. RECOMMENDED SOLDERING PROCESS: IR PROCESS

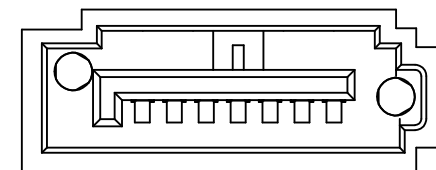
7. THE MYLAR STICKED ON THE HOUSING IS JUST USED FOR PICK-UP PLACE,  
PLEASE REMOVE IT AFTER REFLOW



RECOMMENDED P.C.B LAYOUT  
CONNECTOR SIDE



WITH MYLAR TYPE



WITHOUT MYLAR TYPE

|             |              |       |         |              |
|-------------|--------------|-------|---------|--------------|
| 473062105   | SEE NOTE2(c) | 2.65  | WITHOUT | PK-47306-002 |
| 473062102   | SEE NOTE2(b) |       |         |              |
| 473062101   | SEE NOTE2(a) |       |         |              |
| 473065025   | SEE NOTE2(c) | 3.45  |         |              |
| 473065022   | SEE NOTE2(b) |       |         |              |
| 473065021   | SEE NOTE2(a) |       |         |              |
| 473065015   | SEE NOTE2(c) | 3.05  | WITH    |              |
| 473065012   | SEE NOTE2(b) |       |         |              |
| 473065011   | SEE NOTE2(a) |       |         |              |
| 473065005   | SEE NOTE2(c) | 2.65  |         |              |
| 473065002   | SEE NOTE2(b) |       |         |              |
| 473065001   | SEE NOTE2(a) |       |         |              |
| 473062025   | SEE NOTE2(c) | 3.45  |         | PK-47306-001 |
| 473062022   | SEE NOTE2(b) |       |         |              |
| 473062021   | SEE NOTE2(a) |       |         |              |
| 473062015   | SEE NOTE2(c) | 3.05  | WITHOUT |              |
| 473062012   | SEE NOTE2(b) |       |         |              |
| 473062011   | SEE NOTE2(a) |       |         |              |
| 473062005   | SEE NOTE2(c) | 2.65  |         |              |
| 473062002   | SEE NOTE2(b) |       |         |              |
| 473062001   | SEE NOTE2(a) |       |         |              |
| MATERIAL NO | PLATING TYPE | DIM A | MYLAR   | PACKING      |

|                                                                                                                   |             |                                    |                                                            |  |                            |                    |                                                                           |                        |                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------|--|----------------------------|--------------------|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SEE SHEET1<br>EC NO: SH2010-0232<br>DRAWN:XJ.SONG 2010/01/07<br>CHKD:XJ.SONG 2010/01/11<br>APPR:RZHANG 2010/01/14 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>5:1                                                              | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
|                                                                                                                   |             |                                    |                                                            |  | DRAWN BY<br>JENNY          | DATE<br>2005/07/22 | TITLE<br>HIGH SPEED CONNECTOR<br>1.27MM PITCH VERTICAL<br>SMT SOLDER TAIL |                        |                                                                                                                 |
|                                                                                                                   |             |                                    |                                                            |  | CHECKED BY<br>GRMA         | DATE<br>2005/07/22 |                                                                           |                        |                                                                                                                 |
|                                                                                                                   |             |                                    |                                                            |  | APPROVED BY<br>YAP         | DATE<br>2005/07/22 |                                                                           |                        |                                                                                                                 |
|                                                                                                                   |             |                                    | ANGULAR ± 1 °                                              |  | MATERIAL NO.<br>SEE TABLE  |                    | DOCUMENT NO.<br>SD-47306-001                                              | SHEET NO.<br>2 OF 2    |                                                                                                                 |
|                                                                                                                   |             |                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |                            |                    | SIZE<br>A3                                                                |                        |                                                                                                                 |

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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