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Part Number:

0678007102

Status:

Active

Overview:

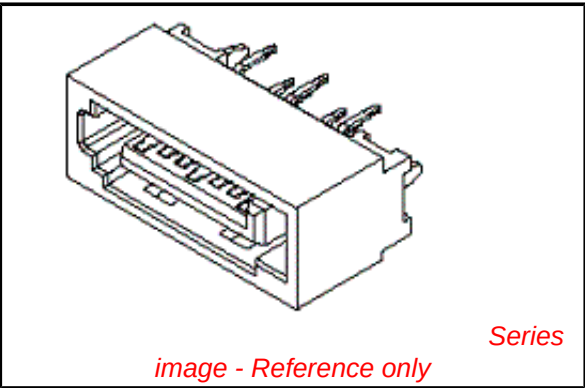
serial\_ata\_products

Description:

1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Through Hole, with Locking Latch, 7 Circuits, 0.76µm (30µ") Gold (Au) Plating, for 1.60mm (.063") PCB, High Temperature, Black, Footprint B, with PCB Locator Tabs, 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                         | 67800                               |
| Application                    | Board-to-Board, Wire-to-Board       |
| Comments                       | Staggered Solder Pin Footprint B    |
| 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           | No                                  |
| Keying to Mating Part          | Yes                                 |
| Lock to Mating Part            | Yes                                 |
| Material - Metal               | Brass                               |
| Material - Plating Mating      | Gold                                |
| Material - Plating Termination | Tin                                 |
| Number of Rows                 | 1                                   |
| Orientation                    | Vertical                            |
| PC Tail Length (in)            | 0.096 In                            |
| PC Tail Length (mm)            | 2.45 mm                             |
| 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                             |
| Pitch - Term. Interface (in)   | 0.050 In                            |
| Pitch - Term. Interface (mm)   | 1.27 mm                             |
| Polarized to Mating Part       | Yes                                 |
| Shrouded                       | Fully                               |
| Stackable                      | No                                  |
| Surface Mount Compatible (SMC) | Yes                                 |
| Temperature Range - Operating  | -35°C to +85°C                      |



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



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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.

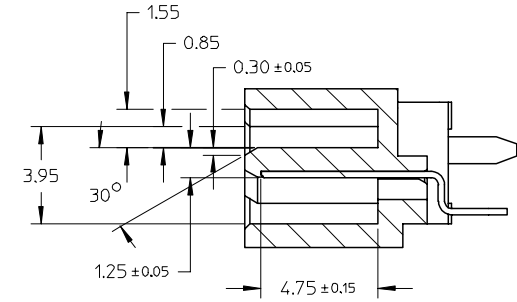
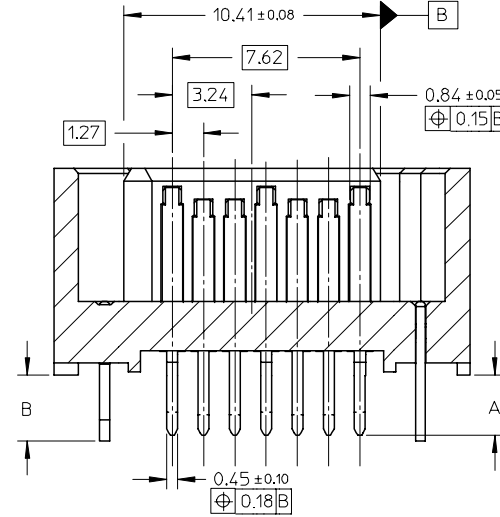
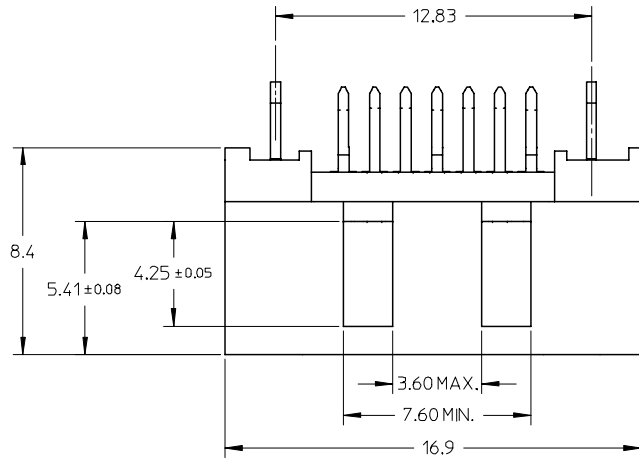
Search Parts in this Series

67800Series

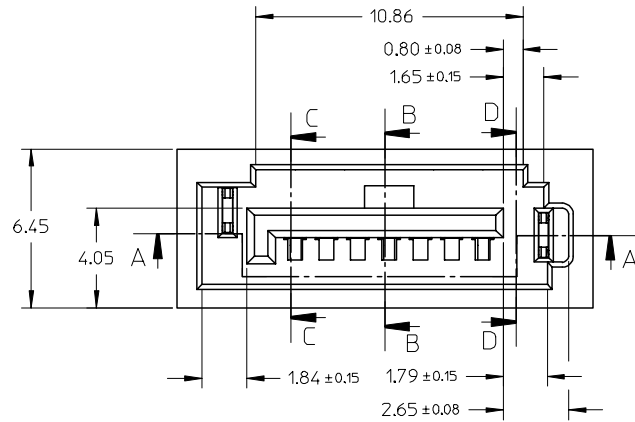
|                                    |                              |
|------------------------------------|------------------------------|
| Termination Interface: Style       | Through Hole                 |
| <b>Electrical</b>                  |                              |
| Current - Maximum per Contact      | 1.5A                         |
| Voltage - Maximum                  | 15V DC                       |
| <b>Solder Process Data</b>         |                              |
| Lead-free Process Capability       | SMC & Wave Capable (TH only) |
| <b>Material Info</b>               |                              |
| <b>Reference - Drawing Numbers</b> |                              |
| Packaging Specification            | PK-67800-001                 |
| Product Specification              | PS-67491-001                 |
| Sales Drawing                      | SD-67800-007                 |

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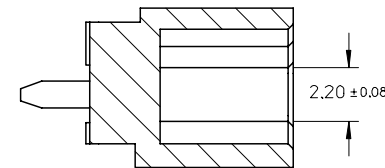
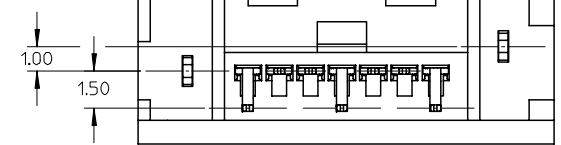
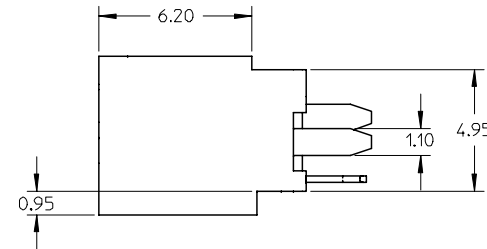
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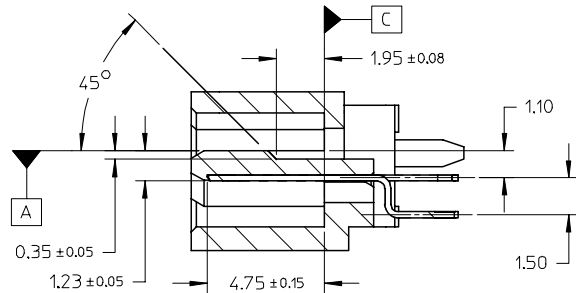
SECTION C-C



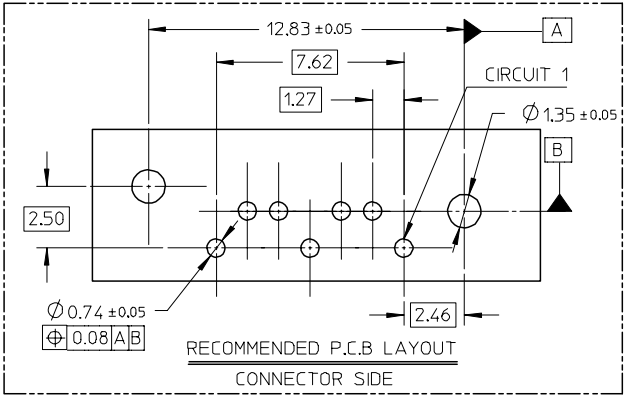
SECTION B-B



SECTION D-D



|                                                                                                                          |                                    |                                       |                               |                     |                                                                                                                               |                    |                                                                                                              |       |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------|-------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|-------|
| OBSOLESCE PART<br>EC NO: SH2006-0566<br>DRWN: BCHENZ6 2006/05/29<br>CHKD: GRATE MA 2006/05/29<br>APPR: JNCHEN 2006/05/30 | QUALITY SYMBOLS<br><br>▽=0<br>▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE               |                     | SCALE                                                                                                                         | DESIGN UNITS       |  THIRD ANGLE PROJECTION |       |
|                                                                                                                          |                                    |                                       | MM ONLY                       |                     | 5:1                                                                                                                           | METRIC             |                                                                                                              |       |
|                                                                                                                          |                                    |                                       | mm                            | INCH                | DRAWN BY DATE                                                                                                                 |                    |                                                                                                              | TITLE |
|                                                                                                                          |                                    |                                       | 4 PLACES ± --- ± ---          | GRATE MA 2004/02/02 | HIGH SPEED CONNECTOR                                                                                                          |                    |                                                                                                              |       |
|                                                                                                                          |                                    |                                       | 3 PLACES ± --- ± ---          | CHECKED BY DATE     | 1.27MM PITCH VERTICAL                                                                                                         |                    |                                                                                                              |       |
| DESCRIPTION                                                                                                              | ▽=0                                | GENERAL TOLERANCES (UNLESS SPECIFIED) | 2 PLACES ± 0.15 ± ---         |                     | YA JUN 2004/02/02                                                                                                             | DIP SOLDER TAIL    |                                                                                                              |       |
|                                                                                                                          |                                    |                                       | 1 PLACE ± 0.25 ± ---          |                     | APPROVED BY DATE                                                                                                              | MOLEX INCORPORATED |                                                                                                              |       |
|                                                                                                                          |                                    |                                       | ANGULAR ± 1/2°                |                     | SAM 2004/02/02                                                                                                                | MOLEX INCORPORATED |                                                                                                              |       |
|                                                                                                                          |                                    |                                       | DRAFT WHERE APPLICABLE        |                     | MATERIAL NO.                                                                                                                  | DOCUMENT NO.       | SHEET NO.                                                                                                    |       |
|                                                                                                                          |                                    |                                       | MUST REMAIN WITHIN DIMENSIONS |                     | SEE SHEET2                                                                                                                    | SD-67800-007       | 1 OF 2                                                                                                       |       |
| REV                                                                                                                      |                                    |                                       | SIZE A3                       |                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                                              |       |



- NOTES:
1. MATERIAL:  
HOUSING/COLOR: SEE CHART, GLASS FILLED, UL94V-0  
TERMINAL/PEG: BRASS
2. TERMINAL PLATING:  
CONTACT AREA: (a) GOLD FLASH  
(b) GOLD, THICKNESS=0.76 MICRON MINIMUM  
(c) GOLD, THICKNESS=0.38 MICRON MINIMUM
3. PEG PLATING: TIN PLATED 1.27 MICRON MINIMUM OVER NICKEL PLATED 1.27 MICRON MINIMUM  
TIN PLATED 1.27 MICRON MINIMUM OVER NICKEL PLATED 1.8 MICRON MINIMUM
4. PACKAGING: TRAY
5. PRODUCT SPECIFICATION REFER TO PS-67491-001
6. RECOMMENDED SOLDERING PROCESS: THERMAL PLASTIC FOR WAVE SOLDEING PROCESS  
HIGH TEMPERATURE THERMAL PLASTIC FOR IR SOLDERING PROCESS

|           |              |      |      |             |         |         |        |
|-----------|--------------|------|------|-------------|---------|---------|--------|
| 678007065 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007062 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 |         |         |        |
| 678007061 | SEE NOTE2(a) |      |      |             |         |         |        |
| 678007055 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007052 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL | NATURE  |        |
| 678007051 | SEE NOTE2(a) |      |      |             | PLASTIC | COLOR   |        |
| 678007045 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007042 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 |         |         |        |
| 678007041 | SEE NOTE2(a) |      |      |             |         |         |        |
| 678007085 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007082 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 |         |         |        |
| 678007081 | SEE NOTE2(a) |      |      |             |         |         |        |
| 678007075 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007072 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL | PROCESS |        |
| 678007071 | SEE NOTE2(a) |      |      |             | PLASTIC | BLUE C  |        |
| 678007035 | SEE NOTE2(c) |      |      |             |         | ΔE<3    |        |
| 678007032 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 |         |         |        |
| 678007031 | SEE NOTE2(a) |      |      |             |         |         |        |
| 678007025 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007022 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 |         |         |        |
| 678007021 | SEE NOTE2(a) |      |      |             |         |         |        |
| 678007015 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007012 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL | BLACK   |        |
| 678007011 | SEE NOTE2(a) |      |      |             | PLASTIC |         |        |
| 678007005 | SEE NOTE2(c) |      |      |             |         |         |        |
| 678007002 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 |         |         |        |
| 678007001 | SEE NOTE2(a) |      |      |             |         |         |        |
| MATERIAL  | PLATING      | DIM  | DIM  | P.C.B       | PLASTIC | PLASTIC | REMARK |
| NUMBER    | TYPE         | A    | B    | THICKNESS   | TYPE    | COLOR   |        |

|           |              |      |      |             |             |         |        |
|-----------|--------------|------|------|-------------|-------------|---------|--------|
| 678007125 | SEE NOTE2(c) |      |      |             |             |         |        |
| 678007122 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 |             |         |        |
| 678007121 | SEE NOTE2(a) |      |      |             |             |         |        |
| 678007115 | SEE NOTE2(c) |      |      |             |             |         |        |
| 678007112 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | HIGH        |         |        |
| 678007111 | SEE NOTE2(a) |      |      |             | TEMPERATURE | BLACK   | PURE   |
| 678007105 | SEE NOTE2(c) |      |      |             | THERMAL     |         | TIN    |
| 678007102 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 | PLASTIC     |         |        |
| 678007101 | SEE NOTE2(a) |      |      |             |             |         |        |
| MATERIAL  | PLATING      | DIM  | DIM  | P.C.B       | PLASTIC     | PLASTIC | REMARK |
| NUMBER    | TYPE         | A    | B    | THICKNESS   | TYPE        | COLOR   |        |

OBSCESCE PART

EC NO: SH2006-0566

DRWN: BCHENZ6 2006/05/29

CHKD: GRATE MA 2006/05/29

APPR: JNCHEW 2006/05/30

DESCRIPTION

REV

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          |        |       |
|----------|--------|-------|
|          | mm     | INCH  |
| 4 PLACES | ± ---  | ± --- |
| 3 PLACES | ± ---  | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE  | ± 0.25 | ± --- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE

MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

|             |            |
|-------------|------------|
| DRAWN BY    | DATE       |
| GRATE MA    | 2004/02/02 |
| CHECKED BY  | DATE       |
| YAJUN       | 2004/02/02 |
| APPROVED BY | DATE       |
| SAM         | 2004/02/02 |

MATERIAL NO.

SEE CHART

SIZE A3

SCALE

5:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

HIGH SPEED CONNECTOR

1.27MM PITCH VERTICAL

DIP SOLDER TAIL

MOLEX INCORPORATED

DOCUMENT NO.

SD-67800-007

SHEET NO.

2 OF 2

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