

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0678008111](#)
Status: **Active**
Overview: [serial_ata_products](#)
Description: 1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Through Hole, with Locking Latch, 7 Circuits, Gold (Au) Flash, for 2.00mm (.079") PCB, High Temperature, Black, Footprint A, with PCB Locator Tabs, Lead-free

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [67800](#)
 Application Board-to-Board, Wire-to-Board
 Comments In-line Solder Pin|Footprint A
 Overview [serial_ata_products](#)
 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) 0.112 In
 PC Tail Length (mm) 2.85 mm
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.080 In
 PCB Thickness Recommended (mm) 2.00 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 -55°C to +85°C

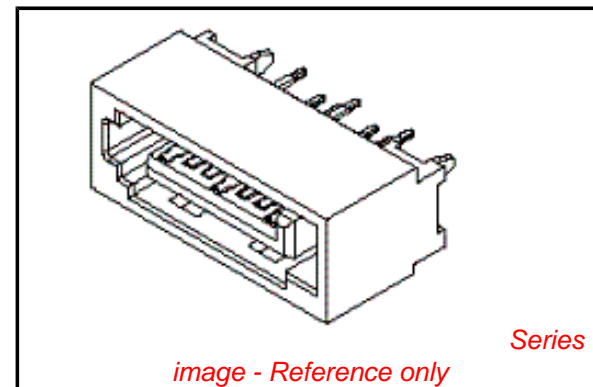


image - Reference only

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
 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

Electrical

Current - Maximum per Contact

1.5A

Voltage - Maximum

15V

Solder Process Data

Lead-free Process Capability

SMC & Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Packaging Specification

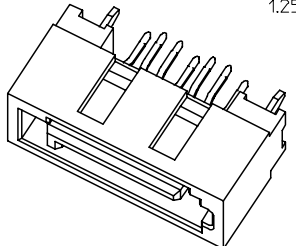
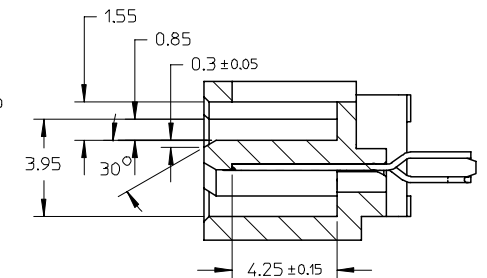
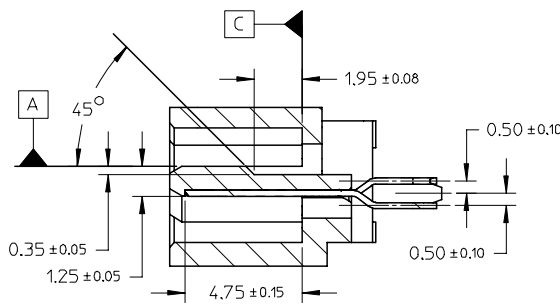
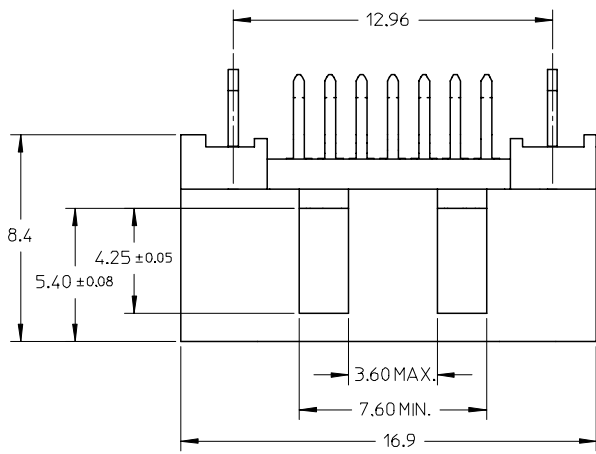
PK-67800-001

Sales Drawing

SD-67800-008

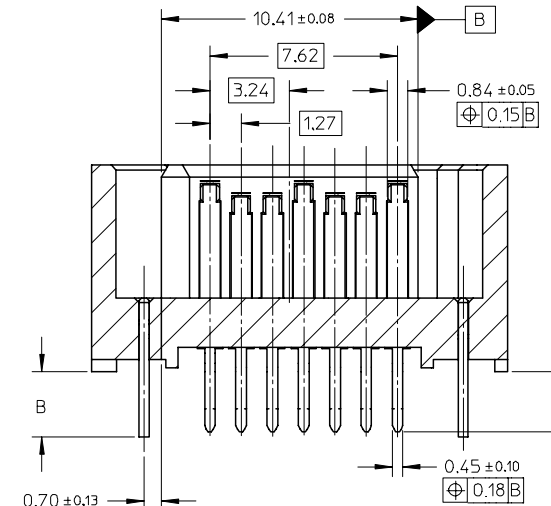
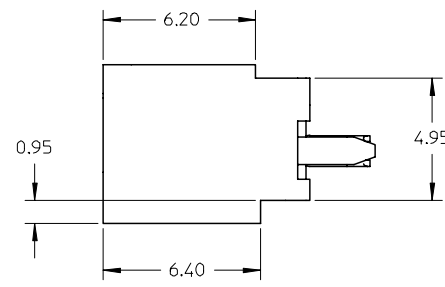
This document was generated on 05/26/2010

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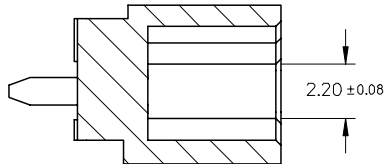
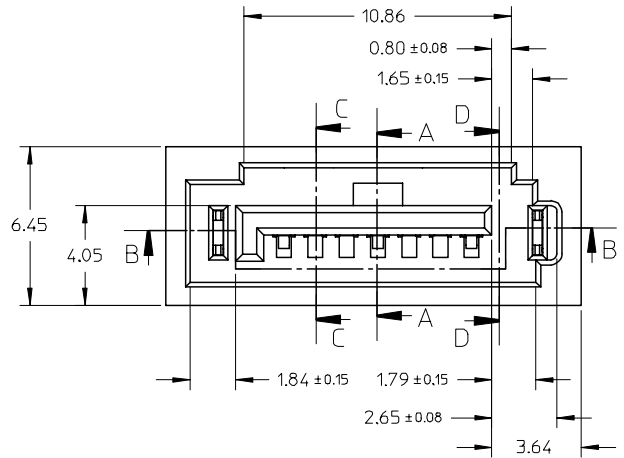


SECTION A-A

SECTION C-C



SECTION B-B



SECTION D-D

| | |
|---|--|
| ADD PART NUMBER EC NO: SH2007-0324 DRWN: BCHENZ6 CHKD: JTIAN APPR: JNCHEN | 2006/11/06 2006/11/06 2006/11/15 |
|---|--|

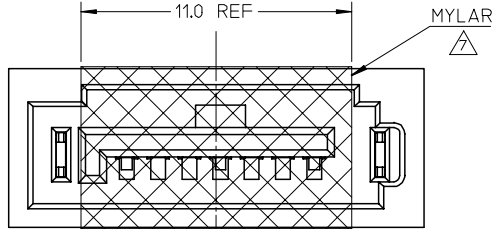
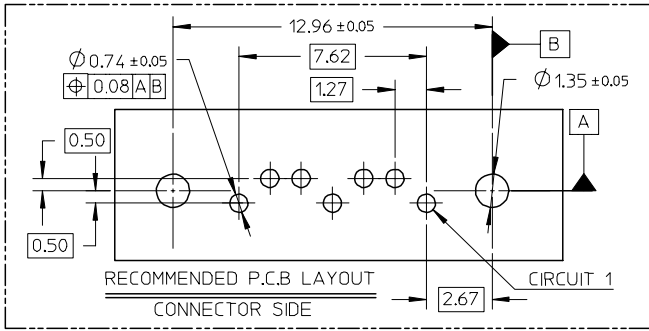
| | |
|-----------------|------------|
| QUALITY SYMBOLS | ▽=0 ◻=0 |
|-----------------|------------|

| | | |
|--|--------|-------|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | mm | INCH |
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | |

| | |
|----------------------------|--------------------|
| DIMENSION STYLE MM ONLY | |
| DRAWN BY GRATE | DATE 2004/02/02 |
| CHECKED BY YA JUN | DATE 2004/02/02 |
| APPROVED BY SAM | DATE 2004/02/02 |
| MATERIAL NO. | |
| SEE SHEET 2 | |

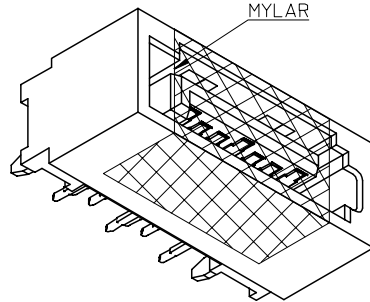
| | | |
|---|------------------------|------------------------|
| SCALE 5:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| TITLE HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL DIP SOLDER TAIL | | |
| MOLEX INCORPORATED | | |
| DOCUMENT NO. SD-67800-008 | SHEET NO. 1 OF 2 | |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

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SCHEMATIC DRAWING OF MYLAR ONLY FOR 678008205 (SCALE 5:1)

- NOTES:
- MATERIAL:
HOUSING/COLOR: SEE CHART, GLASS FILLED, UL94V-0,
TERMINAL/PEG: BRASS
 - TERMINAL PLATING:
CONTACT AREA: (a) GOLD FLASH
(b) GOLD, THICKNESS=0.76 MICRON MINIMUM
(c) GOLD, THICKNESS=0.38 MICRON MINIMUM
SOLDER TAIL: TIN PLATED 1.27 MICRON MINIMUM OVER
NICKEL PLATED 1.27 MICRON MINIMUM
 - POST PLATING: TIN PLATED 1.27 MICRON MINIMUM OVER
NICKEL PLATED 1.8 MICRON MINIMUM
 - PACKAGING:
FOR 678008205: TAPE & REEL, REFER TO PK-67800-003
FOR OTHER P/N: TRAY, REFER TO PK-67800-001
 - PRODUCT SPECIFICATION REFER TO PS-67491-001
 - RECOMMENDED SOLDERING PROCESS:
THERMAL PLASTIC FOR WAVE SOLDEING PROCESS
HIGH TEMPERATURE THERMAL PLASTIC FOR IR SOLDERING PROCESS
7. THE MYLAR STICKED ON THE HOUSING IS JUST USED FOR PICK-UP PLACE, PLEASE REMOVE IT AFTER REFLOW



| ADD PART NUMBER | DESCRIPTION | DIM A | DIM B | P.C.B THICKNESS | PLASTIC TYPE | PLASTIC COLOR | REMARK |
|-----------------|--------------|-------|-------|-----------------|-----------------|------------------------|----------|
| 678008065 | SEE NOTE2(c) | | | | | | |
| 678008062 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 | | | |
| 678008061 | SEE NOTE2(a) | | | | | | |
| 678008055 | SEE NOTE2(c) | | | | | | |
| 678008052 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL PLASTIC | NATURE COLOR | |
| 678008051 | SEE NOTE2(a) | | | | | | |
| 678008245 | SEE NOTE2(c) | 2.10 | | | | | |
| 678008045 | SEE NOTE2(c) | | | | | | |
| 678008042 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 | | | |
| 678008041 | SEE NOTE2(a) | | | | | | |
| 678008085 | SEE NOTE2(c) | | | | | | |
| 678008082 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 | | | |
| 678008081 | SEE NOTE2(a) | | | | | | |
| 678008075 | SEE NOTE2(c) | | | | | | |
| 678008072 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL PLASTIC | PROCESS BLUE C ΔE<3 | |
| 678008071 | SEE NOTE2(a) | | | | | | |
| 678008235 | SEE NOTE2(c) | 2.10 | | | | | PURE TIN |
| 678008035 | SEE NOTE2(c) | | | | | | |
| 678008032 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 | | | |
| 678008031 | SEE NOTE2(a) | | | | | | |
| 678008025 | SEE NOTE2(c) | | | | | | |
| 678008022 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 | | | |
| 678008021 | SEE NOTE2(a) | | | | | | |
| 678008015 | SEE NOTE2(c) | | | | | | |
| 678008012 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL PLASTIC | BLACK | |
| 678008011 | SEE NOTE2(a) | | | | | | |
| 678008305 | SEE NOTE2(c) | 2.10 | | | | | |
| 678008005 | SEE NOTE2(c) | | | | | | |
| 678008002 | SEE NOTE2(b) | 2.45 | 2.65 | 1.60+/-0.05 | | | |
| 678008001 | SEE NOTE2(a) | | | | | | |
| MATERIAL NUMBER | PLATING TYPE | DIM A | DIM B | P.C.B THICKNESS | PLASTIC TYPE | PLASTIC COLOR | REMARK |

| MATERIAL NUMBER | PLATING TYPE | DIM A | DIM B | P.C.B THICKNESS | PLASTIC TYPE | PLASTIC COLOR | REMARK |
|-----------------|--------------|-------|-------|-----------------|-----------------|---------------|------------------|
| 678008125 | SEE NOTE2(c) | | | | | | |
| 678008122 | SEE NOTE2(b) | 3.25 | 3.45 | 2.40+/-0.05 | | | |
| 678008121 | SEE NOTE2(a) | | | | | | |
| 678008115 | SEE NOTE2(c) | | | | | | HIGH TEMPERATURE |
| 678008112 | SEE NOTE2(b) | 2.85 | 3.05 | 2.00+/-0.05 | THERMAL PLASTIC | BLACK | PURE TIN |
| 678008111 | SEE NOTE2(a) | | | | | | |
| 678008205 | SEE NOTE2(c) | | | | | | |
| 678008105 | SEE NOTE2(c) | 2.45 | 2.65 | 1.60+/-0.05 | | | |
| 678008102 | SEE NOTE2(b) | | | | | | |
| 678008101 | SEE NOTE2(a) | | | | | | |

| | | | | | | | | | | |
|---|--------------------------------|---|--|----------------------------|--|------------------------------|---|------------------------|--|--|
| ADD PART NUMBER EC NO: SH2007-0324 DRWN: BCHENZ6 CHKD: JTIAN APPR: JNCHEN | QUALITY SYMBOLS ▽=0 ▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | |
| | | | | DRAWN BY GRATE | | DATE 2004/02/02 | TITLE HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL DIP SOLDER TAIL | | | |
| | | | | CHECKED BY YA JUN | | DATE 2004/02/02 | APPROVED BY SAM | | | |
| | | | | APPROVED BY SAM | | DATE 2004/02/02 | MATERIAL NO. SEE CHART | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE CHART | | DOCUMENT NO. SD-67800-008 | | SHEET NO. 2 OF 2 | | |

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