

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0674911032](#)  
**Status:** **Active**  
**Overview:** [serial\\_ata\\_products](#)  
**Description:** 1.27mm (.050") Pitch Serial ATA High Speed Header, Through Hole, Vertical, 7 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, with 2.05mm (.081") PC Tail Length, for 1.60mm (.063") PCB, Lead-free

**Documents:**

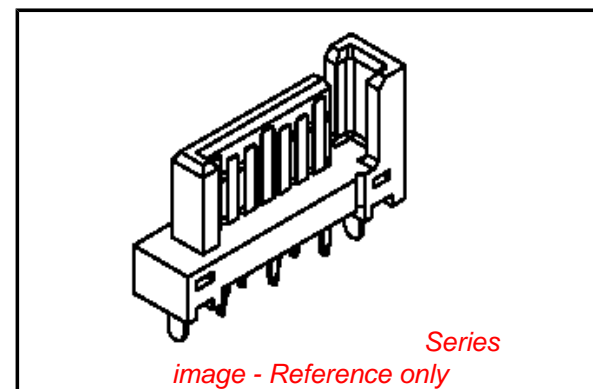
[3D Model](#) [Product Specification PS-67491-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Headers
Series	<a href="#">67491</a>
Application	Board-to-Board, Wire-to-Board
MolexKits	Yes
Overview	<a href="#">serial_ata_products</a>
Product Name	Serial ATA

**Physical**

Breakaway	No
Circuits (Loaded)	7
Color - Resin	Black
Durability (mating cycles max)	50
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.081 In
PC Tail Length (mm)	2.05 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
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	50.8
Plating min: Termination (µm)	1.27
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Through Hole



**EU RoHS**

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

**China RoHS**



**Not Halogen-Free**

**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**

[67491Series](#)

**Mates With**

Serial ATA Signal Connector [67489](#) , [88755](#)

**Electrical**

Current - Maximum per Contact  
Voltage - Maximum

1.5A  
15V DC

**Solder Process Data**

Lead-free Process Capability

Wave Capable (TH only)

**Material Info****Reference - Drawing Numbers**

Product Specification  
Sales Drawing

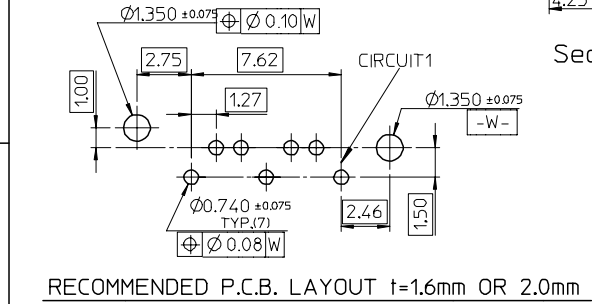
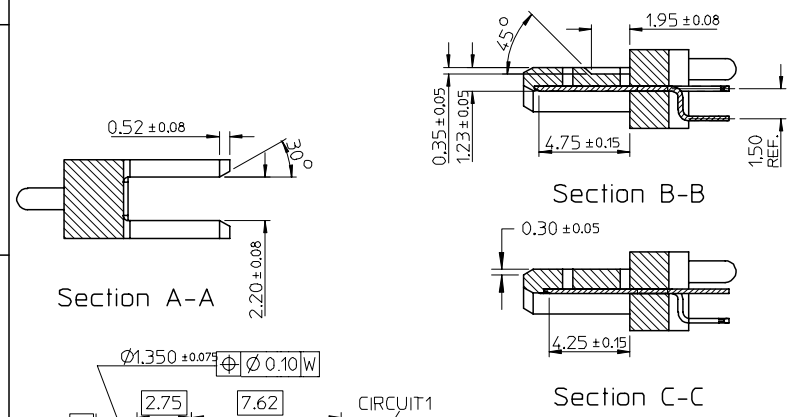
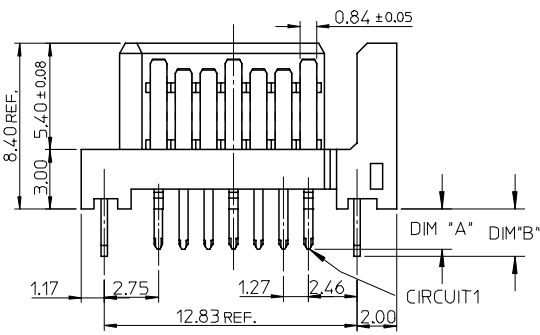
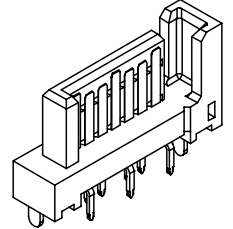
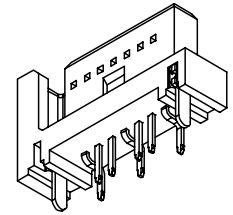
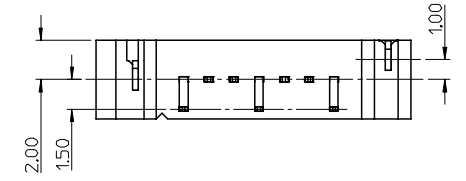
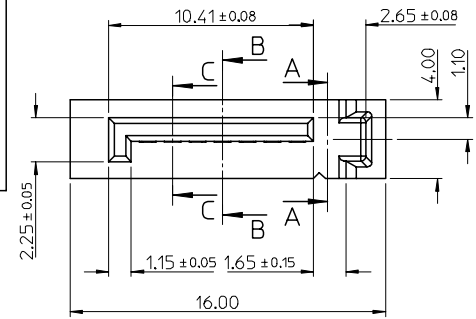
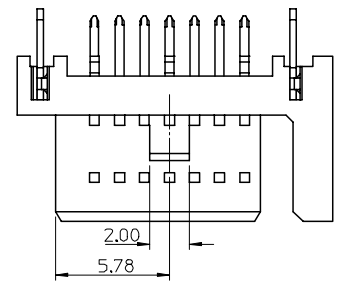
PS-67491-001  
SD-67491-002

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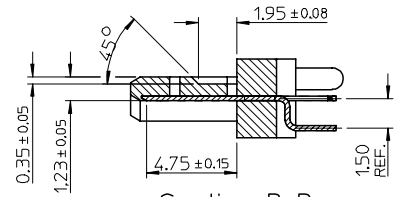
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	10	9	8	7	6	
	P/N	CONTACT PLATING TYPE	"A"	"B"	PCB THICKNESS	SOLDERING PLATE
F	67491-0030	GOLD FLASH	2.05	2.40	1.60	TIN-LEAD
	67491-0031	0.76 MICRON GOLD PLATED				
	67491-0032	0.38 MICRON GOLD PLATED				
E	67491-0035	GOLD FLASH	2.35	2.40	2.00	
	67491-0036	0.76 MICRON GOLD PLATED				
	67491-0037	0.38 MICRON GOLD PLATED				
D	67491-0038	GOLD FLASH	3.00	3.20	2.40	
	67491-0039	0.76 MICRON GOLD PLATED				
	67491-0040	0.38 MICRON GOLD PLATED				
C	67491-1030	GOLD FLASH	2.05	2.40	1.60	PURE TIN
	67491-1031	0.76 MICRON GOLD PLATED				
	67491-1032	0.38 MICRON GOLD PLATED				
B	67491-1035	GOLD FLASH	2.35	2.40	2.00	
	67491-1036	0.76 MICRON GOLD PLATED				
	67491-1037	0.38 MICRON GOLD PLATED				
A	67491-1038	GOLD FLASH	3.00	3.20	2.40	
	67491-1039	0.76 MICRON GOLD PLATED				
	67491-1040	0.38 MICRON GOLD PLATED				

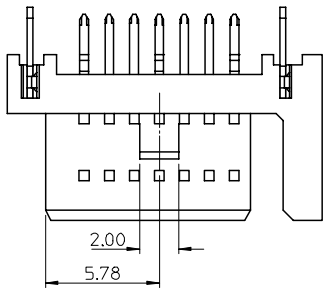
- NOTES:
- MATERIAL :  
HOUSING: THERMAL PLASTIC, UL94V-0, COLOR: BLACK  
TERMINAL/PEG: COPPER ALLOY
  - TERMINAL PLATING :  
CONTACT AREA:  
GOLD PLATED  
SOLDER TAIL:  
1.27 MOICRON MIN. TIN-LEAD OR TIN PLATED  
UNDER PLATE:  
1.27 MOICRON MIN. NICKEL PLATED
  - PEG PLATING:  
1.27 MOICRON MIN. TIN-LEAD OR TIN PLATED  
OVERALL 1.27 MOICRON MIN. TNICKEL UNDER PLATED
  - PACKAGING SPECIFICATION REFER TO PK-67491-001
  - PRODUCT SPECIFICATION REFER TO PS-67491-001
  - MATING PART: 67489
  - RECOMMENDED PROCESS: WAVE SOLDERING



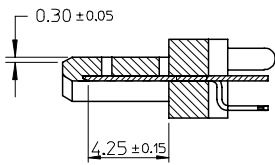
EC NO: SH2005-0049 DRWN:GRMA 2004/09/03 CHKD:GRATE M&A004/09/07 APPR: YTYAP 2004/09/10	QUALITY SYMBOLS ▽ - 0 ▽ - 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY															
		<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.15</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± 3°</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.15	± ---	1 PLACE	± 0.25	± ---	ANGULAR ± 3°			DIMENSION STYLE MM ONLY
	mm	INCH																			
4 PLACES	± ---	± ---																			
3 PLACES	± ---	± ---																			
2 PLACES	± 0.15	± ---																			
1 PLACE	± 0.25	± ---																			
ANGULAR ± 3°																					
REV DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY ERIC	DATE '01/06/21	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-67491-002	SHEET NO. 1 OF 1															
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		A3																	



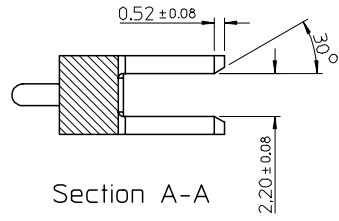
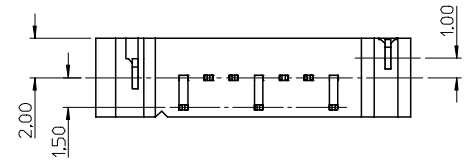
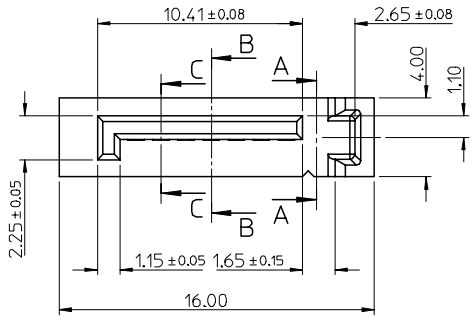
Section B-B



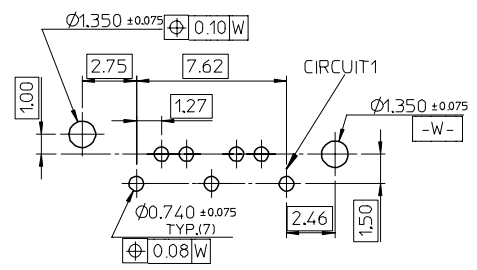
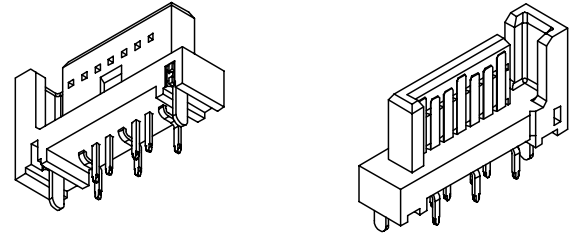
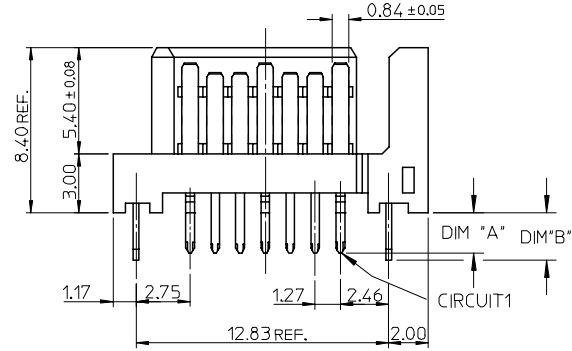
- NOTES:
- MATERIAL:
    - HOUSING: SEE TABLE, UL94V-0, COLOR: BLACK OR BULE (SEE P/N TABLE)
    - TERMINAL/PEG: COPPER ALLOY
  - TERMINAL PLATING :
    - CONTACT AREA: GOLD PLATED
    - SOLDER TAIL: 1.27 MICRON MIN. TIN PLATED
    - UNDER PLATE: 1.27 MICRON MIN. NICKEL PLATED
  - PEG PLATING:
    - 1.27 MICRON MIN. TIN PLATED
    - OVERALL 1.27 MICRON MIN. NICKEL UNDER PLATED
  - PACKAGING SPECIFICATION REFER TO PK-67491-001
  - PRODUCT SPECIFICATION REFER TO PS-67491-001
  - MATING PART: 67489
  - RECOMMENDED PROCESS: WAVE SOLDERING
  - PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC"



Section C-C








Section A-A




RECOMMENDED P.C.B. LAYOUT t=1.6mm OR 2.0mm

ADD PART NUMBER EC NO: SH2007-0134 DRWN: BCHENZ6 CHKD: JTIAN APPR: JNCHEN	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.15 ± ---	1 PLACE ± 0.25 ± ---	ANGULAR ± 3°		TITLE 1.27MM HIGH SPEED SERIAL PLUG VERTICAL TYPE			
		DRAWN BY DATE RICHARD '01/06/21		CHECKED BY DATE VINCENT '01/06/21		APPROVED BY DATE ERIC '01/06/21		MOLEX INCORPORATED			
		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		SEE SHEET 2 SD-67491-002 1 OF 2			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		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			
	P/N	CONTACT PLATING TYPE	"A"	"B"	PCB THICKNESS	SOLDERING PLATE	COLOR	PLASTIC TYPE					
F	67491-1030	GOLD FLASH	2.05	2.40	1.60	PURE TIN	BLACK		<div style="text-align: center;">  </div>				
	67491-1031	0.76 MICRON GOLD PLATED											
	67491-1032	0.38 MICRON GOLD PLATED											
67491-1035	GOLD FLASH												
67491-1036	0.76 MICRON GOLD PLATED												
67491-1037	0.38 MICRON GOLD PLATED												
E	67491-1038	GOLD FLASH	3.00	3.20	2.40		PURE TIN	BLACK			THERMAL PLASTIC	<div style="text-align: center;">  </div>	
	67491-1039	0.76 MICRON GOLD PLATED											
	67491-1040	0.38 MICRON GOLD PLATED											
67491-2030	GOLD FLASH												
67491-2031	0.76 MICRON GOLD PLATED												
67491-2032	0.38 MICRON GOLD PLATED												
D	67491-2035	GOLD FLASH	2.05	2.40	1.60	PURE TIN	BLUE PENTONE NO.293C ΔE<3	THERMAL PLASTIC	<div style="text-align: center;">  </div>				
	67491-2036	0.76 MICRON GOLD PLATED											
	67491-2037	0.38 MICRON GOLD PLATED											
67491-2038	GOLD FLASH												
67491-2039	0.76 MICRON GOLD PLATED												
67491-2040	0.38 MICRON GOLD PLATED												
C	67491-1130	GOLD FLASH	2.05	2.40	1.60	PURE TIN	BLACK	HIGH TEMPERATURE THERMAL PLASTIC			<div style="text-align: center;">  </div>		
	67491-1131	0.76 MICRON GOLD PLATED											
	67491-1132	0.38 MICRON GOLD PLATED											
	67491-1135	GOLD FLASH											
	67491-1136	0.76 MICRON GOLD PLATED											
	67491-1137	0.38 MICRON GOLD PLATED											
	67491-1138	GOLD FLASH	3.00	3.20	2.40	PURE TIN	BLACK	HIGH TEMPERATURE THERMAL PLASTIC	<div style="text-align: center;">  </div>				
	67491-1139	0.76 MICRON GOLD PLATED											
	67491-1140	0.38 MICRON GOLD PLATED											

B

<b>ADD PART NUMBER</b> EC NO: SH2007-0134 DRWN: B. CHENZ CHKD: J. TIAN APPR: J. CHEN	2006/09/01 2006/09/01 2006/09/08	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY RICHARD	DATE '01/06/21	<b>1.27MM HIGH SPEED SERIAL PLUG VERTICAL TYPE</b>				
			4 PLACES	± ---	± ---	CHECKED BY VINCENT	DATE '01/06/21					
			3 PLACES	± ---	± ---	APPROVED BY ERIC	DATE '01/06/21	 <b>MOLEX INCORPORATED</b>				
2 PLACES	± 0.15	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
1 PLACE	± 0.25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-67491-002		2 OF 2			
			ANGULAR ± 3 °		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					