

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0674911131

Status:

Active

Overview:

Serial ATA Products

Description:

1.27mm (.050") Pitch Serial ATA High Speed Header, High Temperature Thermoplastic, Through Hole, Vertical, 7 Circuits, 0.76µm (30µ") Gold (Au) Plating, with 2.05mm (.081") PC Tail Length, for 1.60mm (.093") PCB, Lead-free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-67491-001 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	67491
Application	Board-to-Board, Wire-to-Board
Overview	Serial ATA Products
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
Material - Resin	High Temperature Thermoplastic
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)	0.063 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)	30
Plating min: Mating (µm)	0.76
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)	Yes
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Through Hole

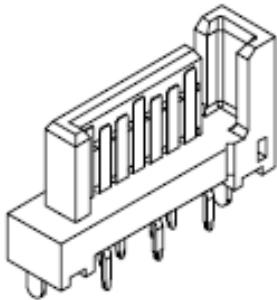


image - Reference only

Series

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

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
67491Series

Mates With
Serial ATA Signal Connector 67489 , 88755

Electrical

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

Material Info

Reference - Drawing Numbers

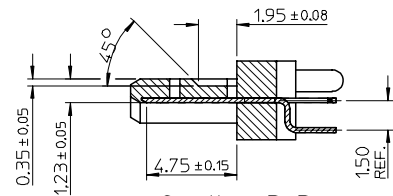
Product Specification	PS-67491-001
Sales Drawing	SD-67491-002

This document was generated on 04/21/2010

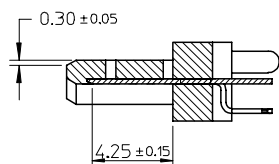
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

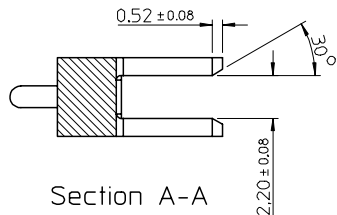
F



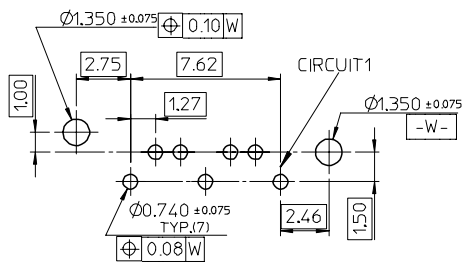
Section B-B



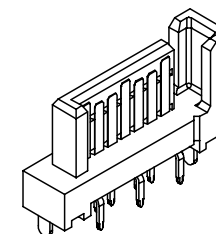
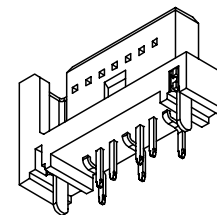
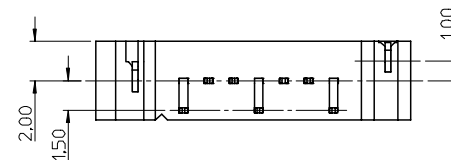
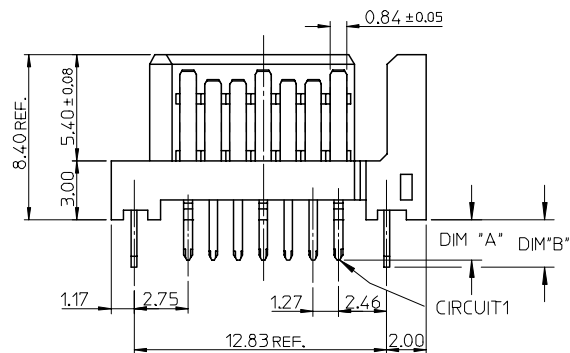
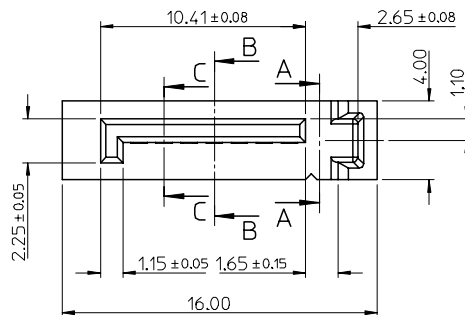
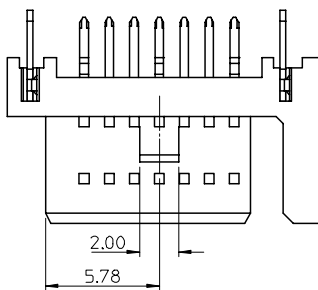
Section C-C



Section A-A



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



NOTES:

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

B

A

F

E

D

C

B

A

ADD PART NUMBER EC NO: SH2007-0134 DRWN: B. CHEN CHKD: J. TAN APPR: J. CHEN	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION 2006/09/01 2006/09/01 2006/09/01 2006/09/08	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	TITLE 1.27MM HIGH SPEED SERIAL PLUG VERTICAL TYPE					
			4 PLACES	± ---	± ---	CHECKED BY VINCENT	DATE '01/06/21						
			3 PLACES	± ---	± ---	APPROVED BY ERIC		DATE '01/06/21	MOLEX INCORPORATED				
			2 PLACES	± 0.15	± ---	MATERIAL NO.		DOCUMENT NO.					
			1 PLACE	± 0.25	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

9 8 7 6 5 4 3 2 1

	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																								
F	67491-1030	GOLD FLASH		2.05	2.40	1.60		PURE TIN		BLACK	THERMAL PLASTIC																										
	67491-1031	0.76 MICRON GOLD PLATED																																			
	67491-1032	0.38 MICRON GOLD PLATED																																			
	67491-1035	GOLD FLASH		2.35	2.40	2.00																															
	67491-1036	0.76 MICRON GOLD PLATED																																			
	67491-1037	0.38 MICRON GOLD PLATED																																			
	67491-1038	GOLD FLASH		3.00	3.20	2.40					BLUE PENTONE NO.293C ΔE<3									THERMAL PLASTIC																	
E	67491-1039	0.76 MICRON GOLD PLATED																																			
	67491-1040	0.38 MICRON GOLD PLATED																																			
	67491-2030	GOLD FLASH		2.05	2.40	1.60																															
	67491-2031	0.76 MICRON GOLD PLATED																																			
	67491-2032	0.38 MICRON GOLD PLATED																																			
	67491-2035	GOLD FLASH		2.35	2.40	2.00			BLACK		HIGH TEMPERATURE THERMAL PLASTIC																										
D	67491-2036	0.76 MICRON GOLD PLATED																																			
	67491-2037	0.38 MICRON GOLD PLATED																																			
	67491-2038	GOLD FLASH		3.00	3.20	2.40																															
	67491-2039	0.76 MICRON GOLD PLATED																																			
	67491-2040	0.38 MICRON GOLD PLATED																																			
	67491-1130	GOLD FLASH		2.05	2.40	1.60			BLACK		HIGH TEMPERATURE THERMAL PLASTIC																										
	67491-1131	0.76 MICRON GOLD PLATED																																			
	67491-1132	0.38 MICRON GOLD PLATED																																			
C	67491-1135	GOLD FLASH		2.35	2.40	2.00																															
	67491-1136	0.76 MICRON GOLD PLATED																																			
	67491-1137	0.38 MICRON GOLD PLATED																																			
	67491-1138	GOLD FLASH		3.00	3.20	2.40																															
	67491-1139	0.76 MICRON GOLD PLATED																																			
	67491-1140	0.38 MICRON GOLD PLATED																																			
B																				B																	
A																				A																	
ADD PART NUMBER EC NO: SH2007-0134 DRAWN: BENZ6 2006/09/01 CHKD: JIAN 2006/09/01 APPR: JINCHEN 2006/09/08 REV DESCRIPTION QUALITY SYMBOLS ▼=0 ▽=0 GENERAL TOLERANCES (UNLESS SPECIFIED)<table><tr><td></td><td>MM</td><td>INCH</td></tr><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></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS SHEET NO. 2 OF 2 DIMENSION STYLE MM ONLY DRAWN BY RICHARD CHECKED BY VINCENT APPROVED BY ERIC MATERIAL NO. DOCUMENT NO. SD-67491-002 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION 1.27MM HIGH SPEED SERIAL PLUG VERTICAL TYPE MOLEX MOLEX INCORPORATED																					MM	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.15	± ---	1 PLACE	± 0.25	± ---	ANGULAR ± 3 °		
	MM	INCH																																			
4 PLACES	± ---	± ---																																			
3 PLACES	± ---	± ---																																			
2 PLACES	± 0.15	± ---																																			
1 PLACE	± 0.25	± ---																																			
ANGULAR ± 3 °																																					
tb_frame_A3_P_AM_T Rev. D 2004/06/28	9	8	7	6	5	4	3	2	1																												