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Part Number: [0678007001](#)
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 1.60mm (.063") PCB, Black, Footprint B, with PCB Locator Tabs, Lead-free

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

Agency Certification

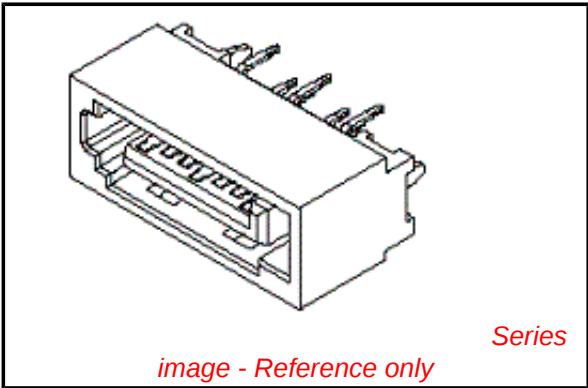
CSA	LR 19980
UL	E29179

General

Product Family	PCB Headers
Series	67800
Application	Board-to-Board, Wire-to-Board
Comments	Staggered Solder Pin Footprint B
Overview	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)	0.096 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)	No
Temperature Range - Operating	-35°C to +85°C



EU RoHS ELV and RoHS Compliant REACH SVHC Not Reviewed Halogen-Free Status Not Halogen-Free	China RoHS
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Need more information on product environmental compliance?

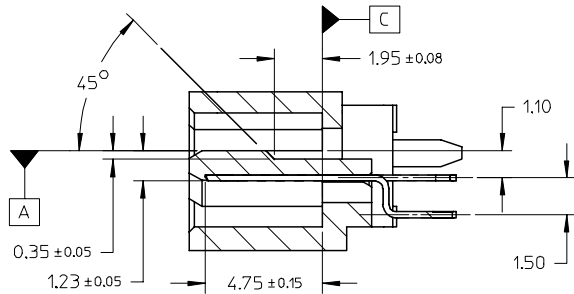
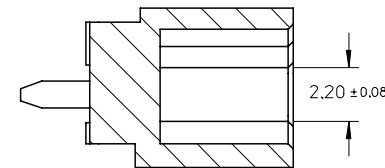
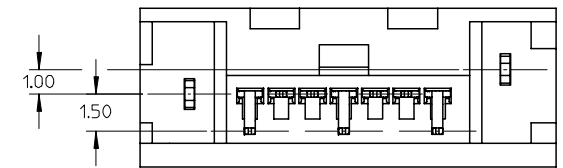
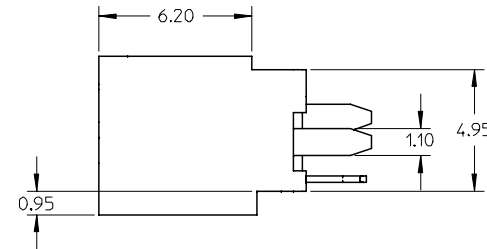
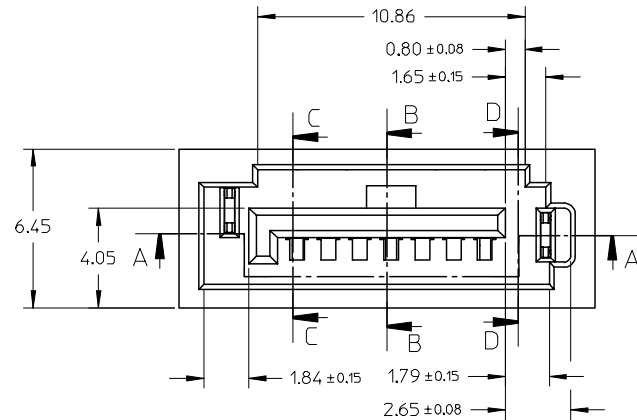
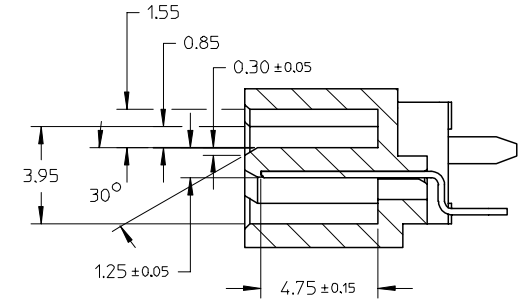
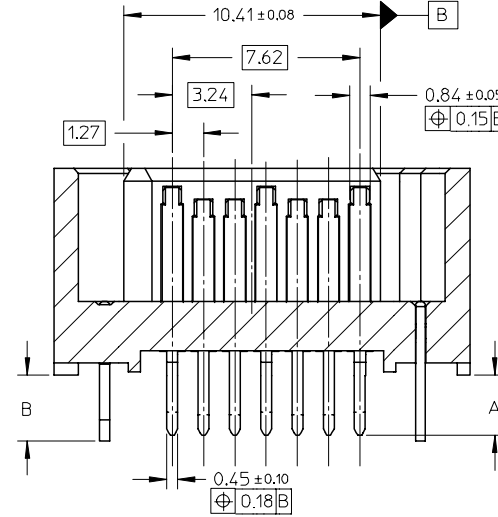
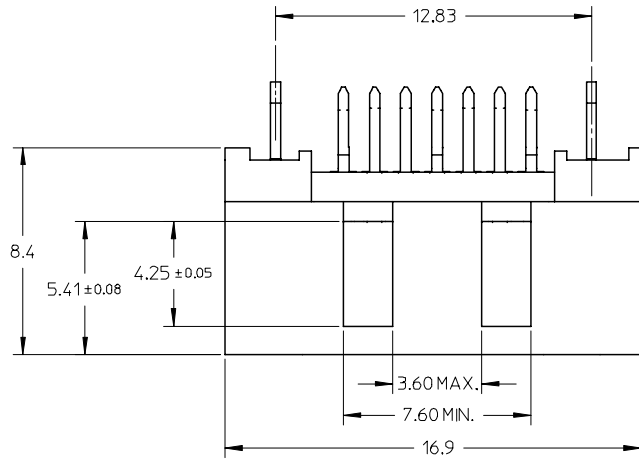
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[67800Series](#)

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

This document was generated on 05/26/2010

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SECTION B-B

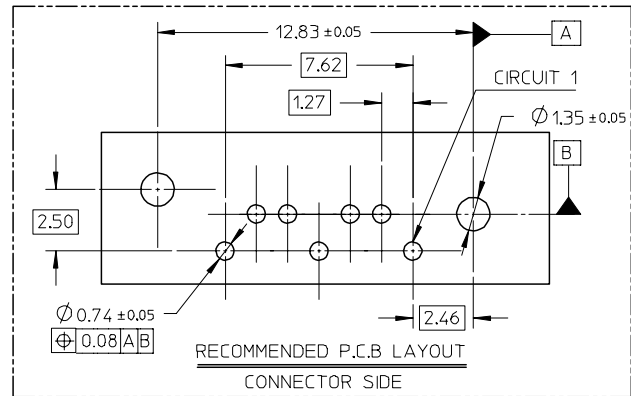
SECTION A-A

SECTION C-C

SECTION D-D

OBSOLESCE PART EC NO: SH2006-0566 DRWN:BCHEN26 2006/05/29 CHKD:GRATE MA 2006/05/29 APPR: JNCHEN 2006/05/30	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GRATE MA	DATE 2004/02/02	TITLE HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL DIP SOLDER TAIL				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	YA JUN	2004/02/02					
			2 PLACES	± 0.15	± ---	APPROVED BY	DATE	MOLEX INCORPORATED				
			1 PLACE	± 0.25	± ---	SAM	2004/02/02					
			ANGULAR ±1/2°			MATERIAL NO. SEE SHEET2						
REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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/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



SOLDER TAIL: TIN PLATED 1.27 MICRON MINIMUM OVER NICKEL PLATED 1.27 MICRON MINIMUM

3. PEG PLATING: 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)			2.40+/-0.05				
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				
678007111	SEE NOTE2(a)							
678007105	SEE NOTE2(c)							
678007102	SEE NOTE2(b)	2.45	2.65	1.60+/-0.05				
678007101	SEE NOTE2(a)							
MATERIAL	PLATING	DIM	DIM	P.C.B	PLASTIC	PLASTIC	REMARK	
NUMBER	TYPE	A	B	THICKNESS	TYPE	COLOR		

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			ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.				
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART		SD-67800-007				2 OF 2			
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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