

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0678007121

Status:

Active

Overview:

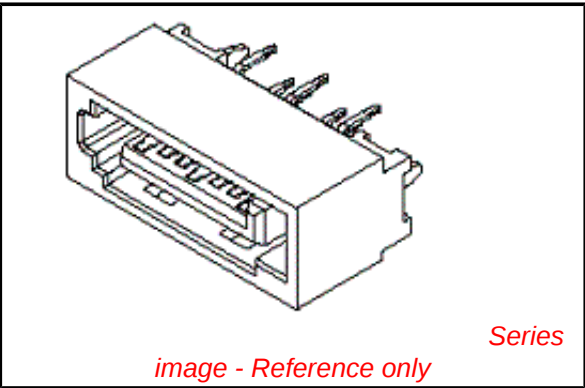
serial_ata_products

Description:

1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Through Hole, with Locking Latch, 7 Circuits, Gold (Au) Flash, for 2.40mm (.079") PCB, High Temperature, 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)	0.128 In
PC Tail Length (mm)	3.25 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 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



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.

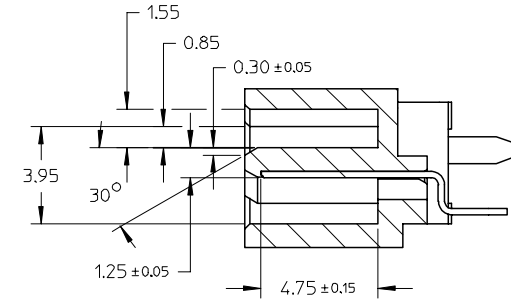
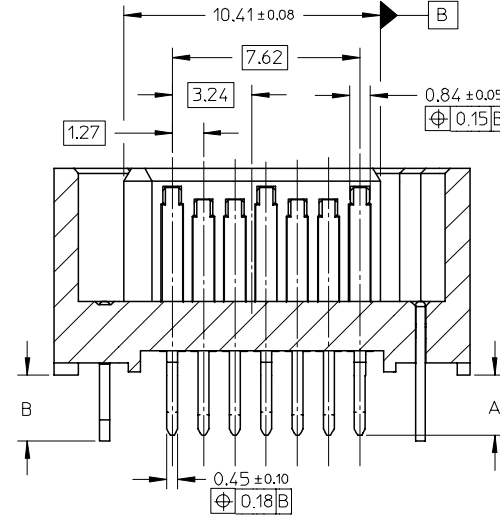
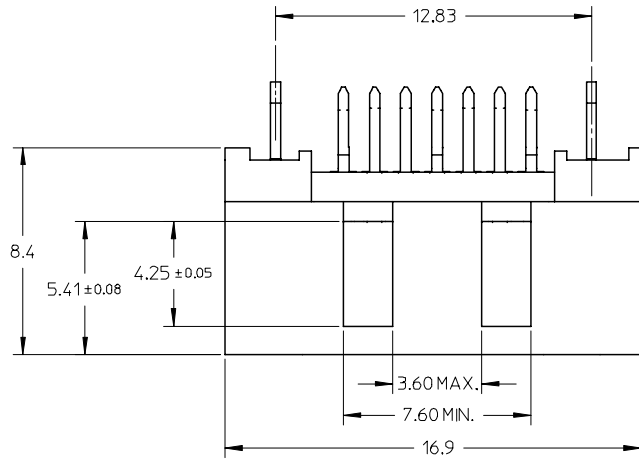
Search Parts in this Series

67800Series

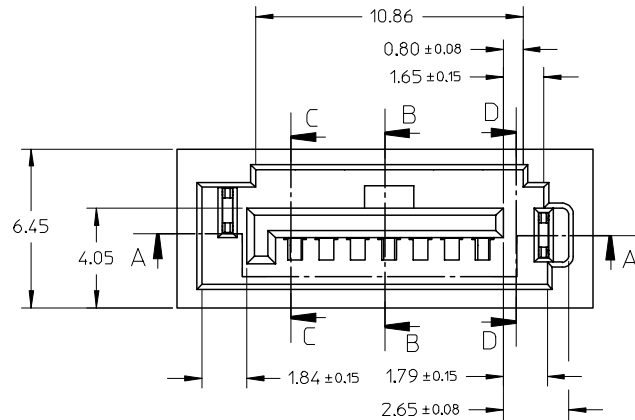
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	1.5A
Voltage - Maximum	15V DC
Solder Process Data	
Lead-free Process Capability	SMC & Wave Capable (TH only)
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-67800-001
Product Specification	PS-67491-001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

This document was generated on 05/26/2010

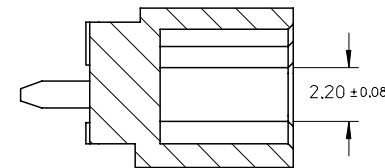
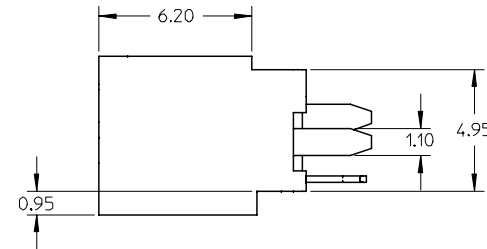
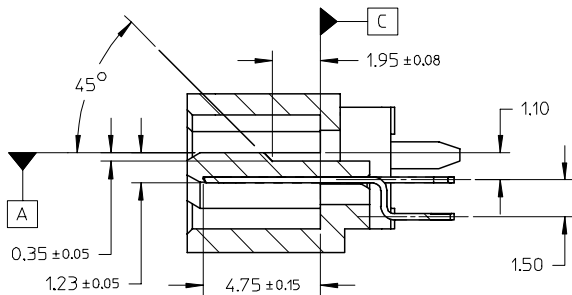
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SECTION C-C



SECTION B-B



SECTION D-D

OBSOLESCE PART
EC NO: SH2006-0566
DRWN: BCHENZ6 2006/05/29
CHKD: GRATE MA 2006/05/29
APPR: JNCHEN 2006/05/30

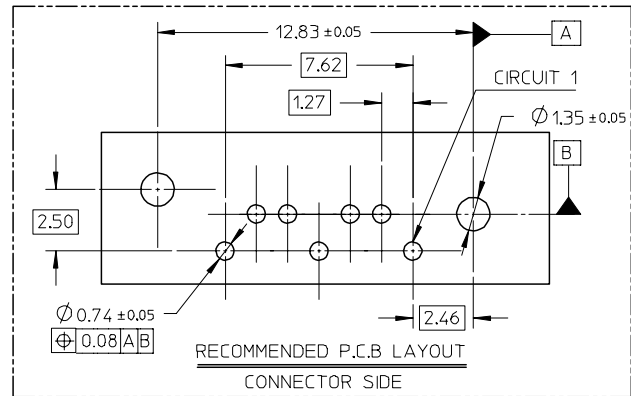
QUALITY SYMBOLS
▽=0
▽C=0

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 SHEET2	
SIZE A3	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
5:1	METRIC		
TITLE			
HIGH SPEED CONNECTOR			
1.27MM PITCH VERTICAL			
DIP SOLDER TAIL			
MOLEX INCORPORATED			
DOCUMENT NO.			SHEET NO.
SD-67800-007			1 OF 2
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX 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	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	

OBSOLESCE PART EC NO: SH2006-0566 DRWN:BCHENZ6 2006/05/29 CHKD:GRATE MA 2006/05/29 APPR: JNCHEN 2006/05/30	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		 =0  =0		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.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-67800-007		2 OF 2				
REV	SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

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