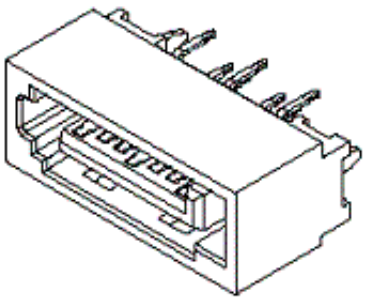
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0678007105
Status: Active
Overview: serial_ata_products
Description: 1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Through Hole, with Locking Latch, 7 Circuits, 0.38µm (15µ") Gold (Au) Plating, for 1.60mm (.063") PCB, High Temperature, Black, Footprint B, with PCB Locator Tabs, Lead-free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-67491-001 (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)	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)

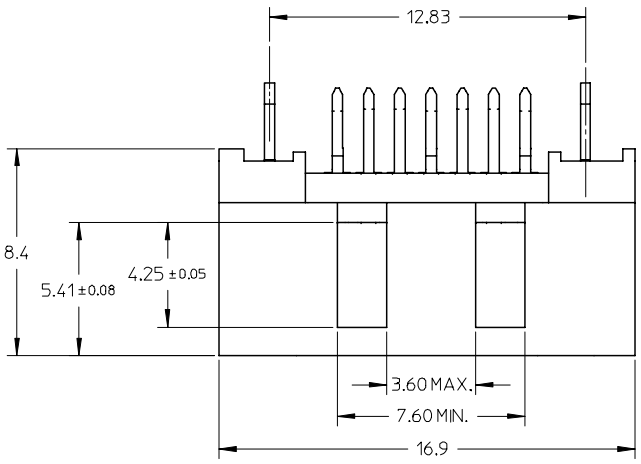
Material Info

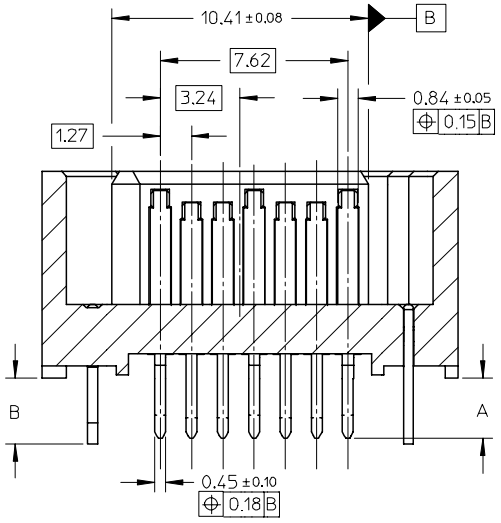
Reference - Drawing Numbers

Packaging Specification	PK-67800-001
Product Specification	PS-67491-001
Sales Drawing	SD-67800-007

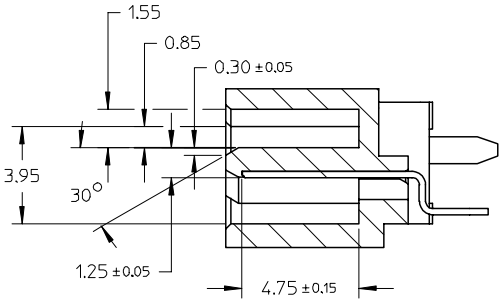
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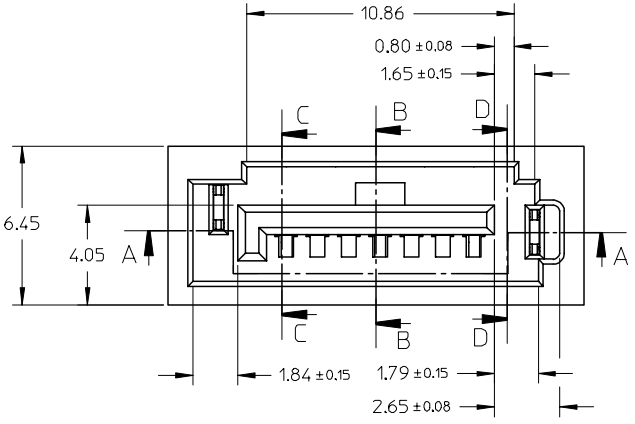


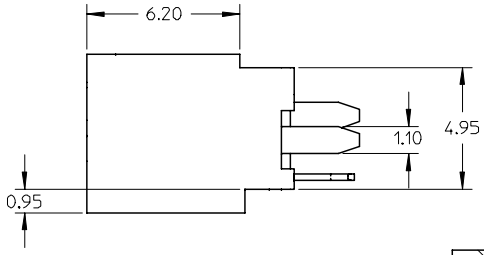


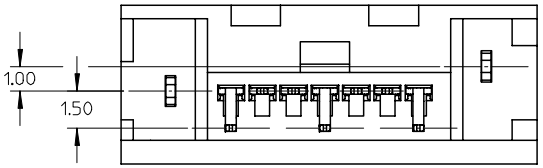
SECTION A-A

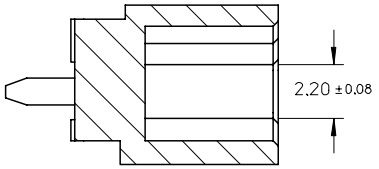


SECTION C-C

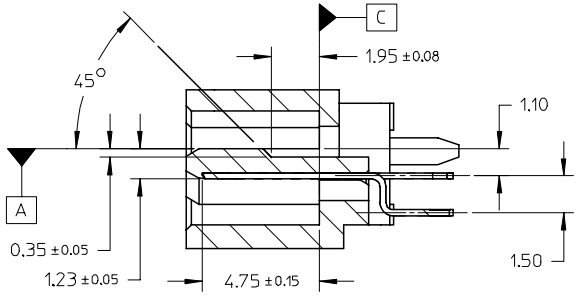








SECTION D-D



SECTION B-B

OBSOLESCE PART
EC NO: SH2006-0566 2006/05/29
DRWN:BCHEN26 2006/05/29
CH'KD:GRATE MA 2006/05/30
APPR: JNCHEN
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ=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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GRATE MA DATE: 2004/02/02
CHECKED BY: YAJUN DATE: 2004/02/02
APPROVED BY: SAM DATE: 2004/02/02

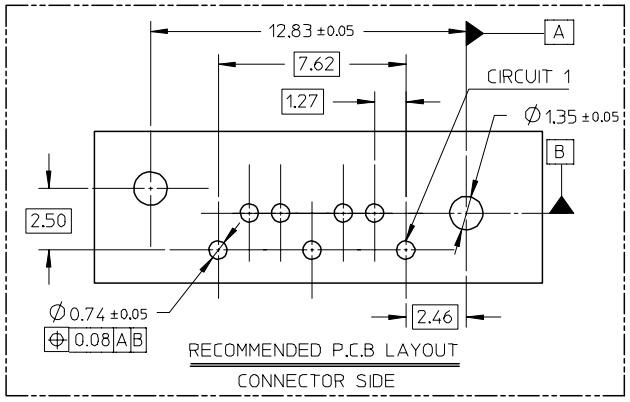
TITLE: HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL DIP SOLDER TAIL

molex MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET2
DOCUMENT NO.: SD-67800-007
SHEET NO.: 1 OF 2

SIZE A3

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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
   ▽E 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

MATERIAL NUMBER	PLATING TYPE	DIM A	DIM B	P.C.B THICKNESS	PLASTIC TYPE	PLASTIC COLOR	REMARK
678007065	SEE NOTE2(c)						
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 PLASTIC	NATURE COLOR	
678007051	SEE NOTE2(a)						
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 PLASTIC	PROCESS BLUE C ΔE<3	PURE TIN
678007071	SEE NOTE2(a)						
678007035	SEE NOTE2(c)						
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 PLASTIC	BLACK	
678007011	SEE NOTE2(a)						
678007005	SEE NOTE2(c)						
678007002	SEE NOTE2(b)	2.45	2.65	1.60+/-0.05			
678007001	SEE NOTE2(a)						

MATERIAL NUMBER	PLATING TYPE	DIM A	DIM B	P.C.B THICKNESS	PLASTIC TYPE	PLASTIC COLOR	REMARK
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 TEPERATURE THERMAL PLASTIC	BLACK	PURE TIN
678007111	SEE NOTE2(a)						
678007105	SEE NOTE2(c)						
678007102	SEE NOTE2(b)	2.45	2.65	1.60+/-0.05			
678007101	SEE NOTE2(a)						

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DRWN:BCHEN26 2006/05/29
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APPROVED BY: SAM DATE: 2004/02/02

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molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-67800-007
SHEET NO.: 2 OF 2

SIZE A3

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