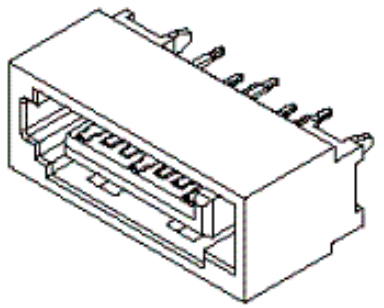
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This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0678008005
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) Selective Plating, for 1.60mm (.063") PCB, Black, Footprint A, with PCB Locator Tabs, Lead-free



Series image - Reference only

Documents:
3D Model
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	In-line Solder Pin|Footprint A
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
Material - Resin	Polyester
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
Plating min: Mating (µin)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	76
Plating min: Termination (µm)	1.9

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

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

Polarized to Mating Part	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Through Hole

Electrical

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

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)

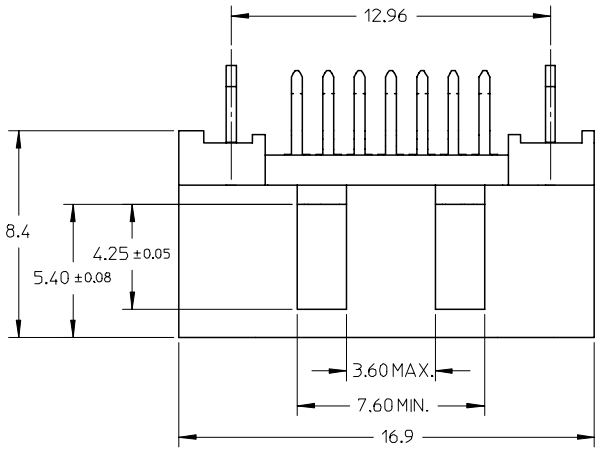
Material Info

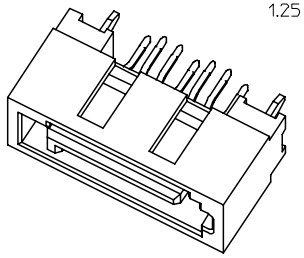
Reference - Drawing Numbers

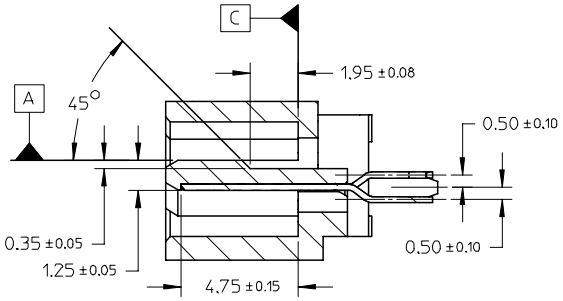
Packaging Specification	PK-67800-001
Sales Drawing	SD-67800-008

This document was generated on 05/26/2010

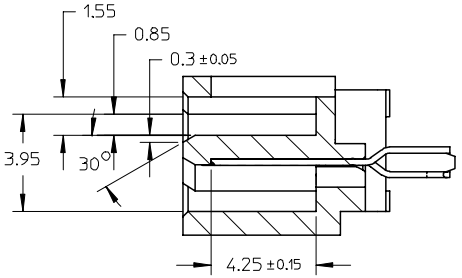
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



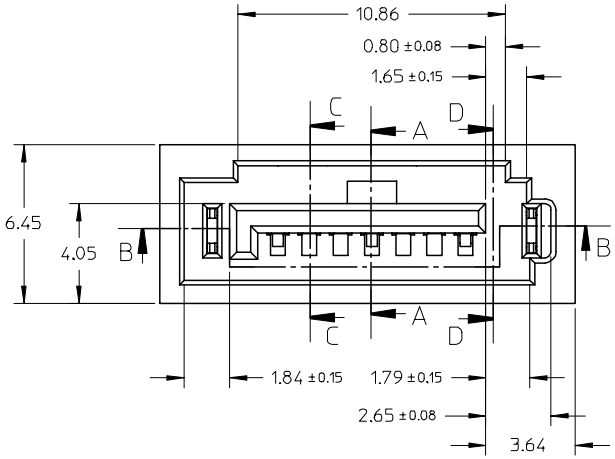


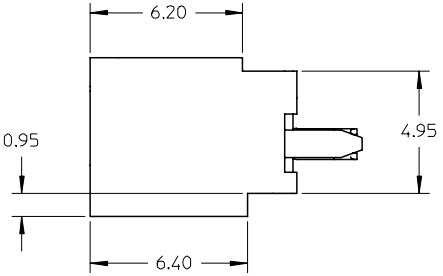


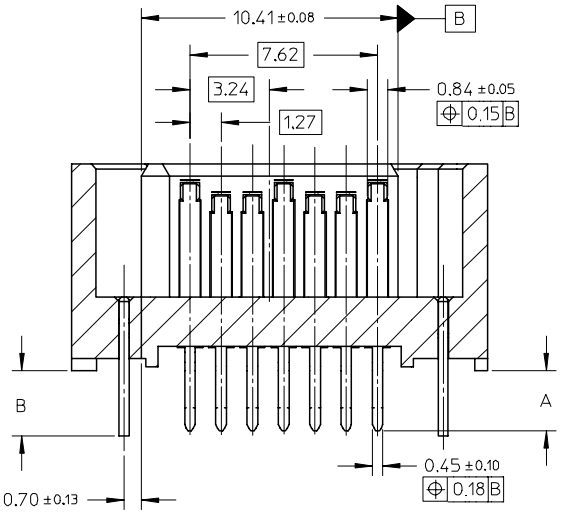
SECTION A-A



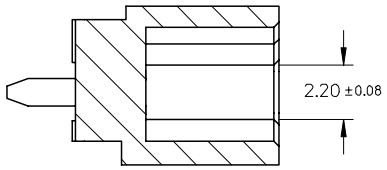
SECTION C-C







SECTION B-B



SECTION D-D

ADD PART NUMBER
EC NO: SH2007-0324 2006/11/06
DRWN:BCHEN26 2006/11/06
CH'KD:JTIAN 2006/11/15
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 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

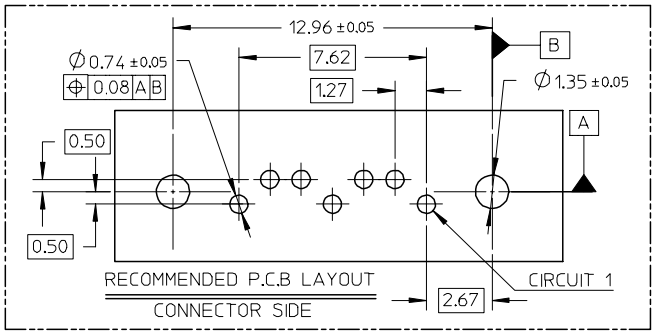
TITLE: HIGH SPEED CONNECTOR 1.27MM PITCH VERTICAL DIP SOLDER TAIL

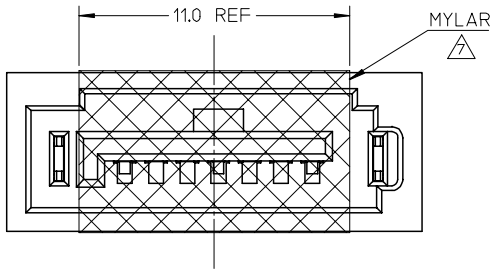
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MATERIAL NO.: SEE SHEET2
DOCUMENT NO.: SD-67800-008
SHEET NO.: 1 OF 2

SIZE: A3

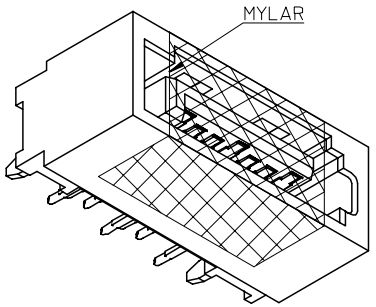
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SCHEMATIC DRAWING OF MYLAR
ONLY FOR 678008205
(SCALE 5:1)

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. POST PLATING: TIN PLATED 1.27 MICRON MINIMUM OVER
   NICKEL PLATED 1.8 MICRON MINIMUM
4. PACKAGING:
   FOR 678008205: TAPE & REEL, REFER TO PK-67800-003
   FOR OTHER P/N: TRAY, REFER TO PK-67800-001
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
7. THE MYLAR STICKED ON THE HOUSING IS JUST USED FOR
   PICK-UP PLACE, PLEASE REMOVE IT AFTER REFLOW



MATERIAL NUMBER	PLATING TYPE	DIM A	DIM B	P.C.B THICKNESS	PLASTIC TYPE	PLASTIC COLOR	REMARK
678008065	SEE NOTE2(c)	3.25	3.45	2.40+/-0.05	THERMAL PLASTIC	NATURE COLOR	PURE TIN
678008062	SEE NOTE2(b)						
678008061	SEE NOTE2(a)						
678008055	SEE NOTE2(c)	2.85	3.05	2.00+/-0.05			
678008052	SEE NOTE2(b)						
678008051	SEE NOTE2(a)						
678008245	SEE NOTE2(c)	2.10	2.65	1.60+/-0.05			
678008045	SEE NOTE2(c)	2.45					
678008042	SEE NOTE2(b)						
678008041	SEE NOTE2(a)						
678008085	SEE NOTE2(c)	3.25	3.45	2.40+/-0.05	THERMAL PLASTIC	PROCESS BLUE C ΔE<3	
678008082	SEE NOTE2(b)						
678008081	SEE NOTE2(a)						
678008075	SEE NOTE2(c)	2.85	3.05	2.00+/-0.05			
678008072	SEE NOTE2(b)						
678008071	SEE NOTE2(a)						
678008235	SEE NOTE2(c)	2.10	2.65	1.60+/-0.05			
678008035	SEE NOTE2(c)	2.45					
678008032	SEE NOTE2(b)						
678008031	SEE NOTE2(a)						
678008025	SEE NOTE2(c)	3.25	3.45	2.40+/-0.05	THERMAL PLASTIC	BLACK	
678008022	SEE NOTE2(b)						
678008021	SEE NOTE2(a)						
678008015	SEE NOTE2(c)	2.85	3.05	2.00+/-0.05			
678008012	SEE NOTE2(b)						
678008011	SEE NOTE2(a)						
678008305	SEE NOTE2(c)	2.10	2.65	1.60+/-0.05			
678008005	SEE NOTE2(c)	2.45					
678008002	SEE NOTE2(b)						
678008001	SEE NOTE2(a)						

MATERIAL NUMBER	PLATING TYPE	DIM A	DIM B	P.C.B THICKNESS	PLASTIC TYPE	PLASTIC COLOR	REMARK
678008125	SEE NOTE2(c)	3.25	3.45	2.40+/-0.05	HIGH TEMPERATURE THERMAL PLASTIC	BLACK	PURE TIN
678008122	SEE NOTE2(b)						
678008121	SEE NOTE2(a)						
678008115	SEE NOTE2(c)	2.85	3.05	2.00+/-0.05			
678008112	SEE NOTE2(b)						
678008111	SEE NOTE2(a)						
678008205	SEE NOTE2(c)	2.45	2.65	1.60+/-0.05			
678008105	SEE NOTE2(c)						
678008102	SEE NOTE2(b)						
678008101	SEE NOTE2(a)						

ADD PART NUMBER
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DRWN:BCHEN26 2006/11/06
CH'KD:JTIAN 2006/11/15
APPR: JNCHEN
DESCRIPTION
REV

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ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-67800-008
SHEET NO.: 2 OF 2
SIZE: A3

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