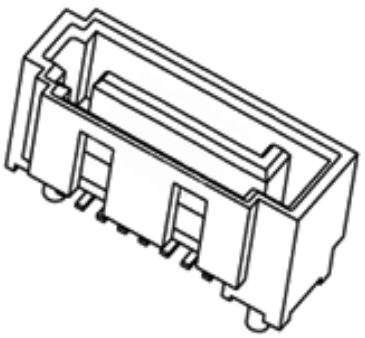
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This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0473062101
Status: Active
Overview: serial_ata_products
Description: 1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Surface Mount, with Locking Latch, 7 Circuits, 0.76µm (30µ") Gold (Au) Plating, Metal Post Length 2.65mm (.104"), Tape on Reel Package, without Mylar, Lead-free



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-67491-001 (PDF)

Agency Certification

CSA	LR 19980
UL	E29179

General

Product Family	PCB Headers
Series	47306
Application	Board-to-Board
Comments	Staggered Solder Pin|Metal Post Length 2.65mm (.104")
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	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Mated Height (in)	0.331 In
Mated Height (mm)	8.40 mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
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
Plating min: Termination (µm)	1.27
Polarized to Mating Part	Yes
Polarized to PCB	Yes

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
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
47306Series

Robotic Placement	None
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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

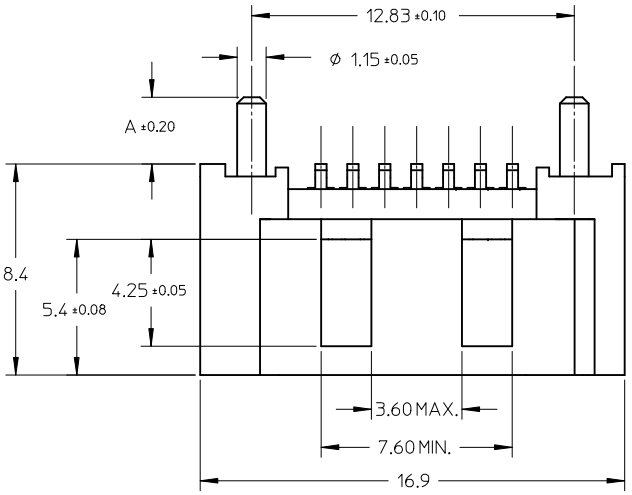
Solder Process Data

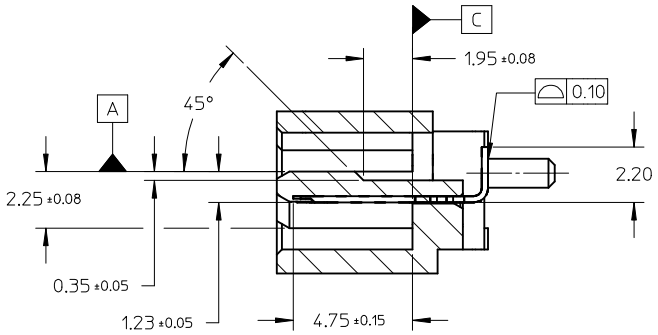
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	255

Material Info

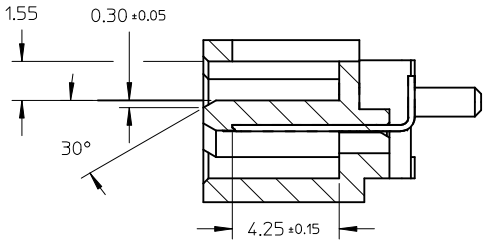
Reference - Drawing Numbers

Packaging Specification	PK-47306-002
Product Specification	PS-67491-001, RPS-67491-001
Sales Drawing	SD-47306-001

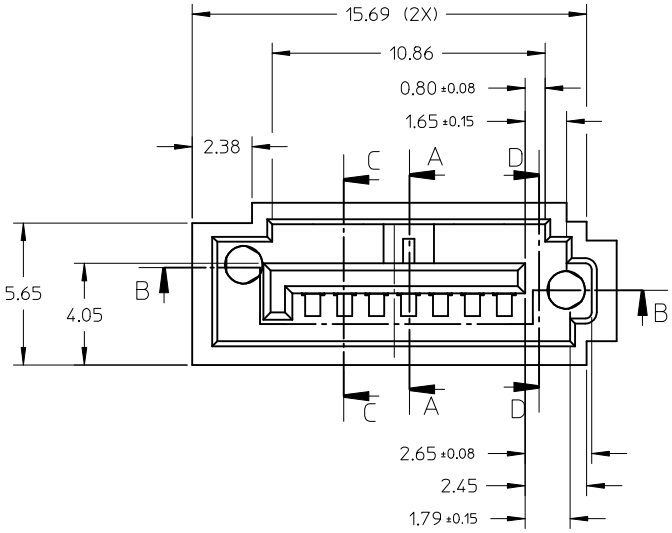


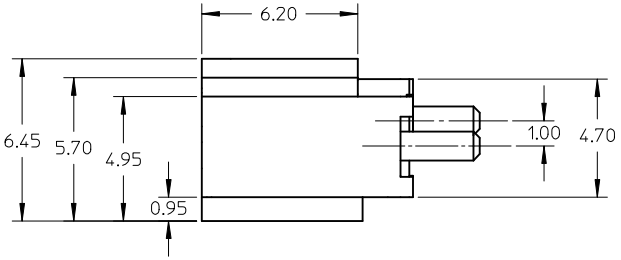


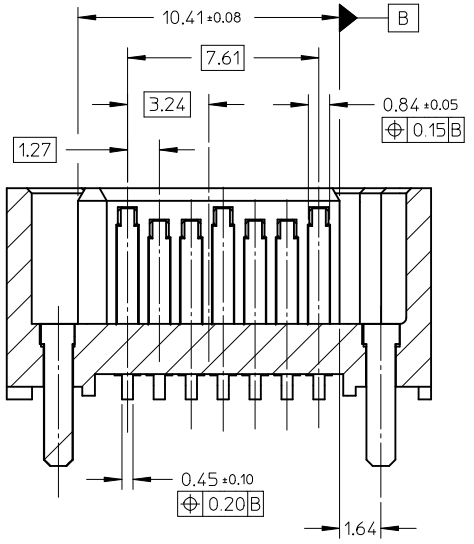
SECTION A-A



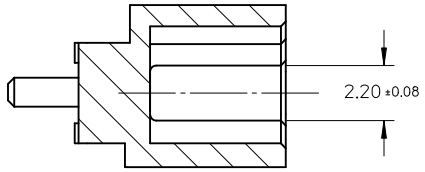
SECTION C-C







SECTION B-B



SECTION D-D

ADD PART NUMBER
EC NO: SH2010-0232
DRWN:X.SONG 2010/01/07
CHKD:X.SONG 2010/01/11
APPR:RZHANG 2010/01/14
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: JENNY DATE: 2005/07/22
CHECKED BY: GRMA DATE: 2005/07/22
APPROVED BY: YAP DATE: 2005/07/22

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

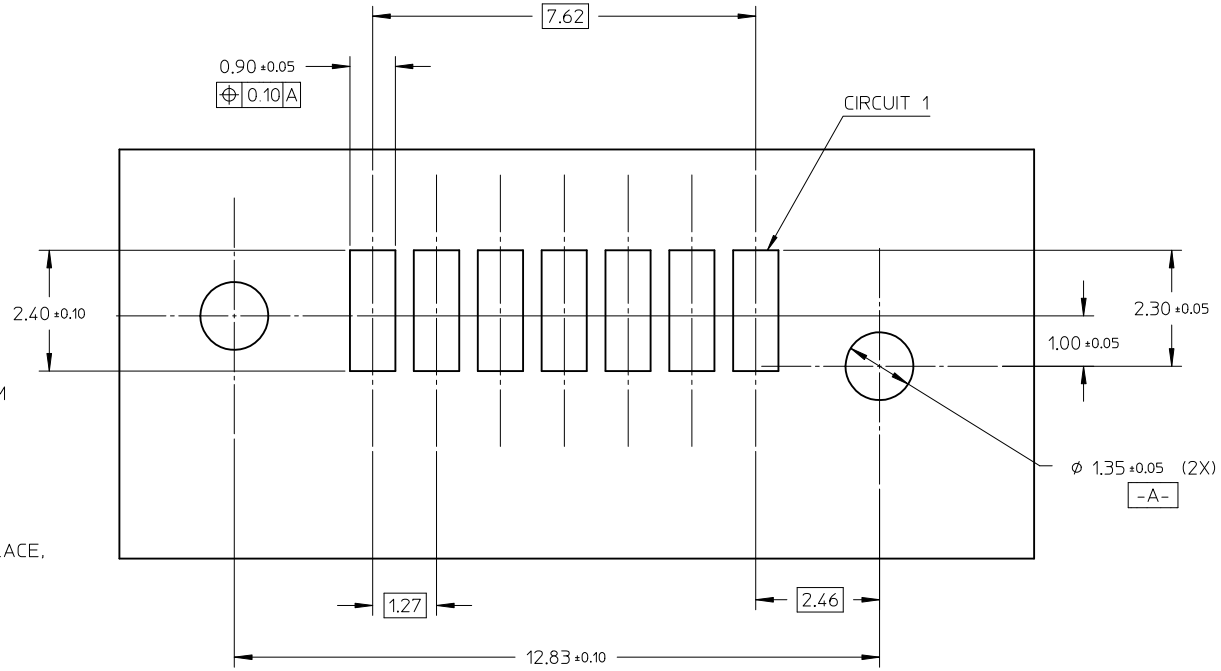
MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET2
DOCUMENT NO.: SD-47306-001
SHEET NO.: 1 OF 2
SIZE: A3

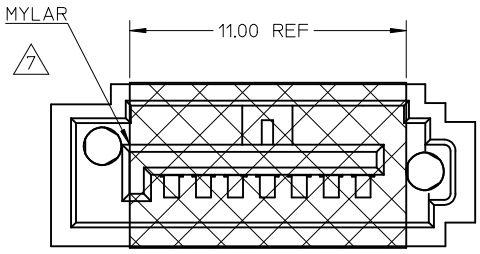
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

NOTES:

1. MATERIAL:
   HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, GLASS FILLED, UL94V-0, COLOR: BLACK
   TERMINAL: BRASS
   POST: 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, THICKNESS=1.27 MICRON MINIMUM
   UNDER PLATE: NICKEL, THICKNESS=1.27 MICRON MINIMUM
3. POST PLATING: UNDER PLATE: NICKEL, THICKNESS=1.25 MICRON MINIMUM
   TIN, THICKNESS=1.9 MICRON MINIMUM OVER ALL
4. PACKAGING: TAPE REEL
5. PRODUCT SPECIFICATION REFER TO PS-67491-001
6. RECOMMENDED SOLDERING PROCESS: IR PROCESS
7. THE MYLAR STICKED ON THE HOUSING IS JUST USED FOR PICK-UP PLACE, PLEASE REMOVE IT AFTER REFLOW

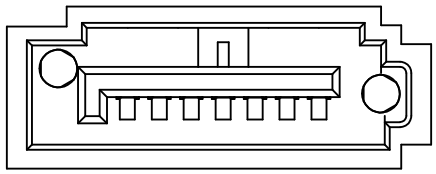


MATERIAL NO	PLATING TYPE	DIM A	MYLAR	PACKING
473062105	SEE NOTE2(c)	2.65	WITHOUT	PK-47306-002
473062102	SEE NOTE2(b)			
473062101	SEE NOTE2(a)			
473065025	SEE NOTE2(c)	3.45	WITH	PK-47306-001
473065022	SEE NOTE2(b)			
473065021	SEE NOTE2(a)			
473065015	SEE NOTE2(c)	3.05		
473065012	SEE NOTE2(b)			
473065011	SEE NOTE2(a)			
473065005	SEE NOTE2(c)	2.65		
473065002	SEE NOTE2(b)			
473065001	SEE NOTE2(a)			
473062025	SEE NOTE2(c)	3.45	WITHOUT	
473062022	SEE NOTE2(b)			
473062021	SEE NOTE2(a)			
473062015	SEE NOTE2(c)	3.05		
473062012	SEE NOTE2(b)			
473062011	SEE NOTE2(a)			
473062005	SEE NOTE2(c)	2.65		
473062002	SEE NOTE2(b)			
473062001	SEE NOTE2(a)			



WITH MYLAR TYPE

RECOMMENDED P.C.B LAYOUT
CONNECTOR SIDE



WITHOUT MYLAR TYPE

SEE SHEET1
EC NO: SH2010-0232 2010/01/07
DRWN:XJSONG 2010/01/11
CHKD:XJSONG 2010/01/14
APPR:RZHANG
DESCRIPTION
REV E

QUALITY SYMBOLS
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Ⓒ=0

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DRAWN BY: JENNY DATE: 2005/07/22
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APPROVED BY: YAP DATE: 2005/07/22

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

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-47306-001
SHEET NO.: 2 OF 2
SIZE: A3

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