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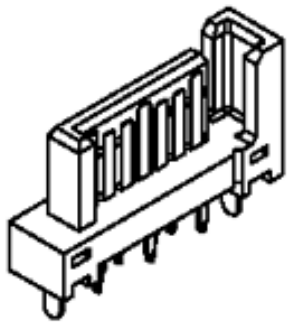
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Part Number: 0674910021

Status: Active

Overview: Serial ATA Products

Description: 1.27mm (.050") Pitch Serial ATA High Speed Header, Through Hole, Vertical, 7 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, with 2.05mm (.081") PC Tail Length, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-67491-001 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	67491
Application	Board-to-Board, Wire-to-Board
Overview	Serial ATA Products
Product Name	Serial ATA

Physical

Breakaway	No
Circuits (Loaded)	7
Color - Resin	Black
Durability (mating cycles max)	50
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.081 In
PC Tail Length (mm)	2.05 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)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	50.8
Plating min: Termination (µm)	1.27
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Through Hole

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
67491Series

Mates With
Serial ATA Signal Connector 67489 , 88755

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

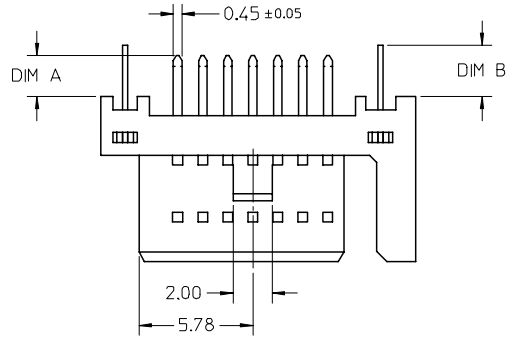
Material Info

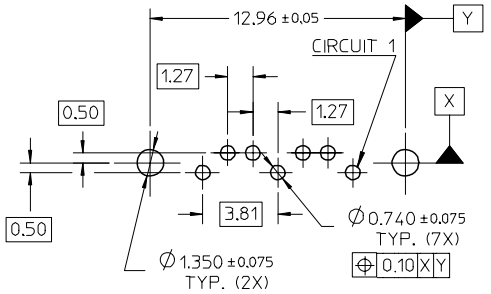
Reference - Drawing Numbers

Product Specification	PS-67491-001
Sales Drawing	SD-67491-001

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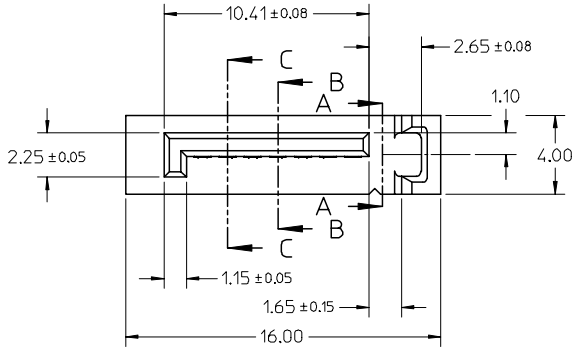
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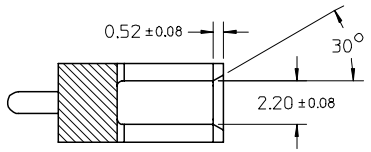




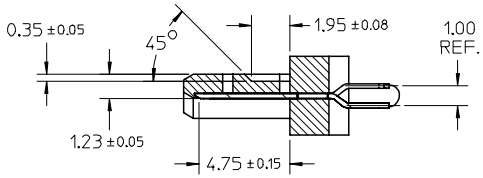
RECOMMENDED P.C.B. LAYOUT (T=1.6mm/2.0mm/2.4mm)

NOTES:
1. MATERIAL:
   HOUSING: THERMAL PLASTIC, UL94V-0, COLOR: SEE SHEET2
   TERMINAL/PEG: COPPER ALLOY, THICKNESS=0.25MM
2. TERMINAL PLATING:
   CONTACT AREA: (a) GOLD FLASH
   (b) 0.76 MICRON GOLD PLATED
   (c) 0.38 MICRON GOLD PLATED
   SOLDER TAIL:
   1.27 MICRON MIN. MATTE TIN PLATED
   UNDER PLATE:
   1.27 MICRON MIN. NICKEL PLATED
3. PEG PLATING:
   1.27 MICRON MIN. MATTE TIN PLATED OVERALL
   1.27 MICRON MIN. NICKEL UNDER PLATED
4. PACKAGING SPECIFICATION REFER TO PK-67491-001
5. PRODUCT SPECIFICATION REFER TO PS-67491-001
6. MATING PART: 67489
7. RECOMMENDED PROCESS: WAVE SOLDERING

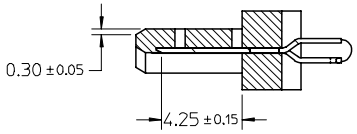




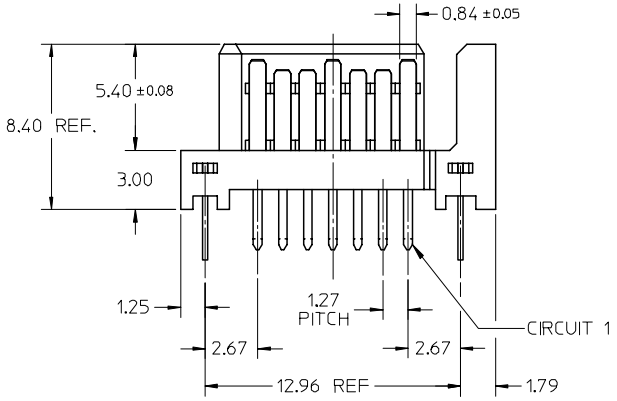
SECTION A-A

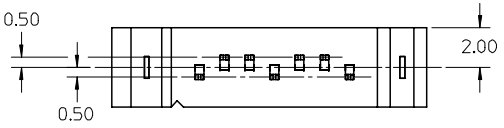


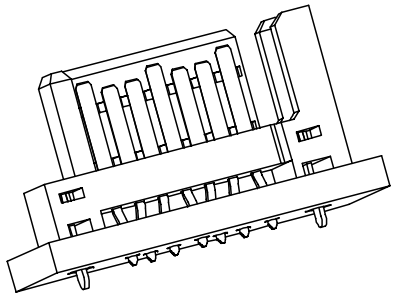
SECTION B-B

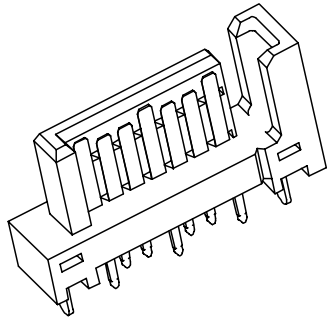


SECTION C-C









ADD PART NUMBER				
EC NO: SH2007-0895				
DRWN:BCHEN26	2007/06/15			
CHKD:JTIAN	2007/06/18			
APPR: JNCHEN	2007/06/22			
DESCRIPTION				
REV				
G				

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 4:1	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: GRATE MA — DATE: 2004/02/02	TITLE: 1.27MM HIGH SPEED PLUG VERTICAL TYPE		
CHECKED BY: YAJUN — DATE: 2004/02/02			
APPROVED BY: SAM — DATE: 2004/02/02	MOLEX INCORPORATED		
MATERIAL NO.: SEE SHEET2	DOCUMENT NO.: SD-67491-001	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		

P/N	PLATING TYPE	DIM "A"	DIM "B"	COLOR	SOLDE AREA PLATING
67491-0020	SEE NOTE 2(a)	2.05	2.57	BLACK	PURE TIN MATTE FINISH
67491-0021	SEE NOTE 2(b)				
67491-0022	SEE NOTE 2(c)				
67491-0025	SEE NOTE 2(a)	2.35			
67491-0026	SEE NOTE 2(b)				
67491-0027	SEE NOTE 2(c)				
67491-2020	SEE NOTE 2(a)	2.05		BLUE PANTONE NO. 293C △E<3	
67491-2021	SEE NOTE 2(b)				
67491-2022	SEE NOTE 2(c)				
67491-2025	SEE NOTE 2(a)	2.35			
67491-2026	SEE NOTE 2(b)				
67491-2027	SEE NOTE 2(c)				
67491-3010	SEE NOTE 2(a)	3.00	3.20	BLACK	
67491-3011	SEE NOTE 2(b)				
67491-3012	SEE NOTE 2(c)				
67491-3110	SEE NOTE 2(a)	3.00	3.20	BLUE PANTONE NO. 293C △E<3	
67491-3111	SEE NOTE 2(b)				
67491-3112	SEE NOTE 2(c)				

▽G

ADD PART NUMBER
EC NO: SH2007-0895 2007/06/15
DRWN:BCHEN26 2007/06/18
CHKD:JTIAN 2007/06/22
APPR: JNCHEN
DESCRIPTION
G
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
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: 1.27MM HIGH SPEED PLUG VERTICAL TYPE

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-67491-001
SHEET NO.: 2 OF 2

SIZE A3

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