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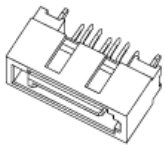
Part Number: 0471554001
Status: Active
Overview: serial_ata_signal_plugs
Description: 1.27mm (.050") Pitch Serial ATA High Speed Header, Vertical, Through Hole, with Locking Latch, 7 Circuits, Gold (Au) Flash, for 1.60mm (.063") PCB, Tail Length 2.10mm (.083"), Black, Footprint A, with PCB Locator Pegs, Lead-free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-67490-001 (PDF)
- RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	47155
Application	Board-to-Board, Wire-to-Board
Comments	Footprint A
MolexKits	Yes
Overview	serial_ata_signal_plugs
Product Name	Serial ATA

Physical

Breakaway	No
Circuits (Loaded)	7
Circuits (maximum)	7
Color - Resin	Black
Durability (mating cycles max)	500
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
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)	0.083 In
PC Tail Length (mm)	2.10 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
Plating min: Mating (µin)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	76
Plating min: Termination (µm)	1.9
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-35°C to +85°C

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
47155Series

Mates With
67489 Serial ATA Signal Connector

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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)
Process Temperature max. C	230

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-67800-002
Product Specification	PS-67490-001, RPS-67490-002
Sales Drawing	SD-47155-004

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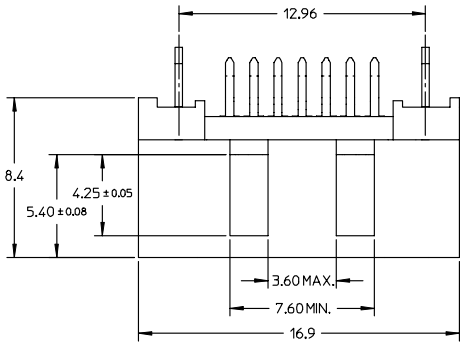
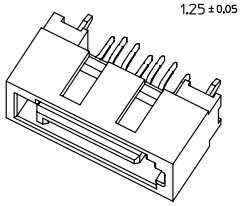
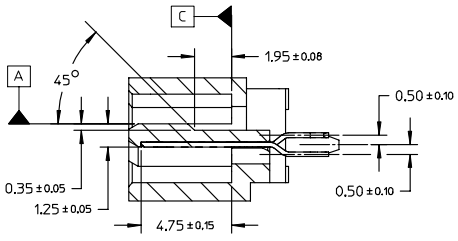
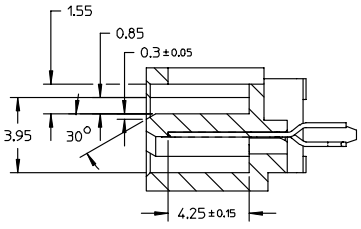


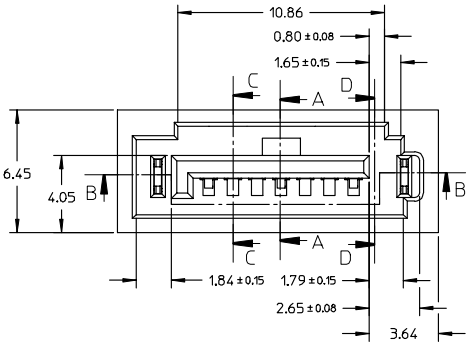


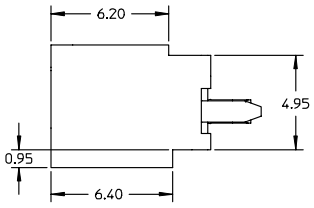


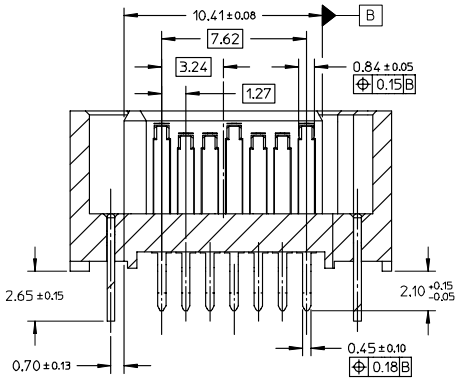
SECTION A-A



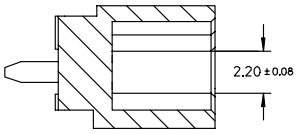
SECTION C-C







SECTION B-B



SECTION D-D

ADD PART NUMBER
EC NO: SH2007-0134
DRWN:BCHEN26 2006/09/01
CHKD:JTIAN 2006/09/01
APPR: JNCHEN 2006/09/08
DESCRIPTION
REV
B

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: 2004/08/05
CHECKED BY: GRATE DATE: 2004/08/05
APPROVED BY: VINCENT DATE: 2004/08/05

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

MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET2
DOCUMENT NO.: SD-47155-004
SHEET NO.: 1 OF 2

SIZE: A3

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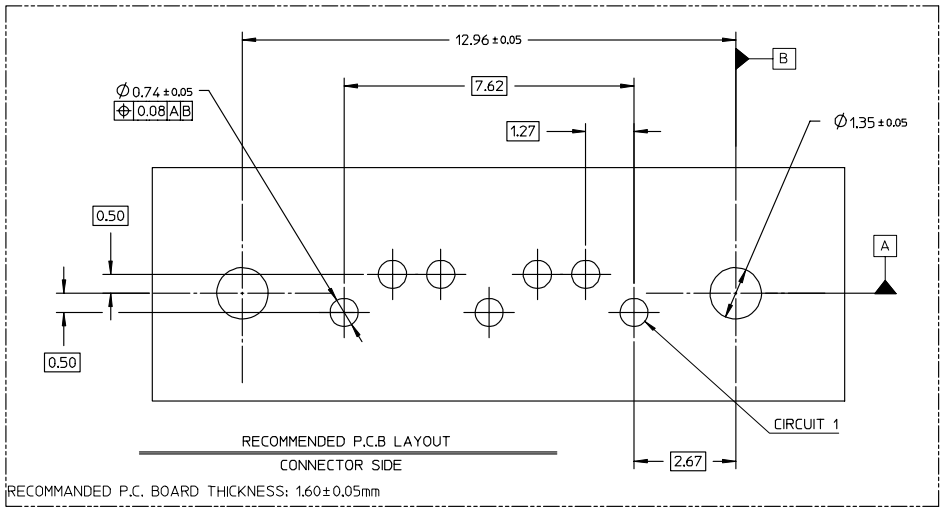

RECOMMENDED P.C.B LAYOUT
CONNECTOR SIDE

RECOMMANDED P.C. BOARD THICKNESS: 1.60±0.05mm

NOTES:
1. MATERIAL:
   HOUSING: THERMAL PLASTIC, COLOR: SEE CHART
   GLASS FILLED: UL94V-0
   TERMINAL/PEG: BRASS
2. TERMINAL PLATING:
   CONTACT AREA: GOLD FLASH
   SOLDER TAIL:
   TIN PLATED 1.27 MICRON MINIMUM OVER
   1.27 MICRON MINIMUM NICKEL UNDER PLATE
3. PEG PLATING:
   TIN PLATED 1.8 MICRON MINIMUM OVER
   1.27 MICRON MINIMUM NICKEL UNDER PLATE
4. PACKAGING: PK-67800-002
5. PRODUCT SPECIFICATION REFER TO PS-67490-001
6. RECOMMENDED PROCESS: WAVE SOLDERING
7. PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC*

MATERIAL NUMBER	PLATING TYPE	PLASTIC COLOR
471554061	SEE NOTE2	IVORY
471554051	SEE NOTE2	LIGHT BLUE
471554041	SEE NOTE2	NATURE COLOR
471554031	SEE NOTE2	PROCESS BLUE C DELTA E<3
471554001	SEE NOTE2	BLACK

B

ADD PART NUMBER
EC NO: SH2007-0134
DRWN:BCHEN26 2006/09/01
CHKD:JTIAN 2006/09/01
APPR: JNCHEN 2006/09/08
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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3 PLACES	± ---	± ---
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1 PLACE	± 0.25	± ---

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	2004/08/05
CHECKED BY	GRATE	2004/08/05
APPROVED BY	VINCENT	2004/08/05

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-47155-004
SHEET NO.: 2 OF 2
SIZE: A3

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