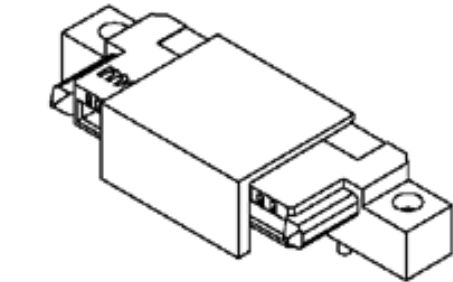


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0483254003](#)
Status: **Active**
Overview: [slimline_serial_ata_odd_connectors](#)
Description: 1.00mm (.039"), 1.27mm (.050") Pitch Slimline Serial ATA Receptacle, Right Angle, Reverse Type, Through Hole, 0.76µm (30µ") Gold (Au) Plating, Mounted Height: 5.80mm (.228"), with Cap and Screw, Lead free



Series

image - Reference only

Documents:

[3D Model](#) [Product Specification PS-48321-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [48325](#)
Application Board-to-Board
Comments Screw version
Overview [slimline_serial_ata_odd_connectors](#)
Product Name Serial ATA, Slimline Serial ATA

Physical

Circuits (Loaded) 13
Circuits (maximum) 13
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Keying to Mating Part Yes
Lock to Mating Part No
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 1
Orientation Right Angle
PC Tail Length (in) 0.071 In
PC Tail Length (mm) 1.80 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.047 In
PCB Thickness Recommended (mm) 1.20 mm
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.039 In, 0.050 In
Pitch - Mating Interface (mm) 1.00 mm, 1.27 mm
Pitch - Term. Interface (in) 0.039 In, 0.050 In
Pitch - Term. Interface (mm) 1.00 mm, 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

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

[48325Series](#)

Mates With

[473001xxx](#) Slimline Serial ATA Plugs

Robotic Placement	Pick and Place Cap
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	1A
Grounding to PCB	Yes
Voltage - Maximum	15V (RMS)
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	260
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-48325-001
Product Specification	PS-48321-001
Sales Drawing	SD-48325-001
Test Summary	TS-48325-001

This document was generated on 05/31/2010

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10 9 8 7 6 5 4 3 2 1

F

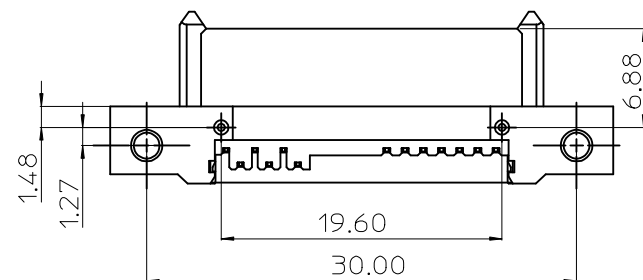
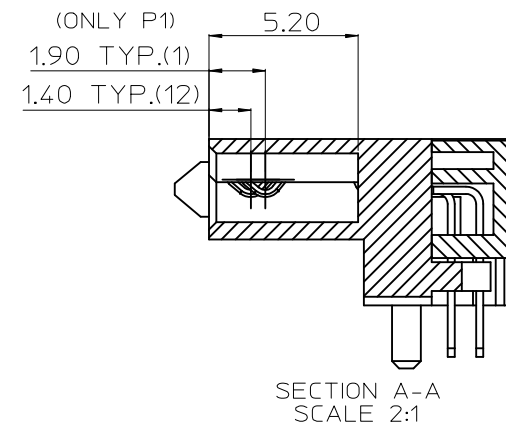
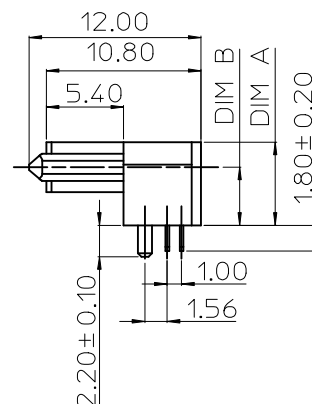
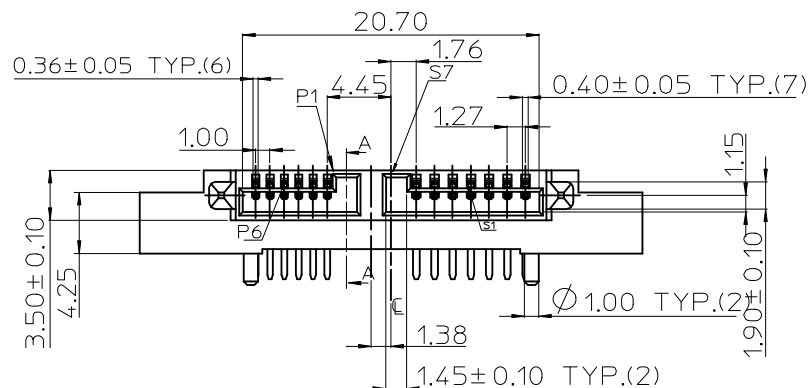
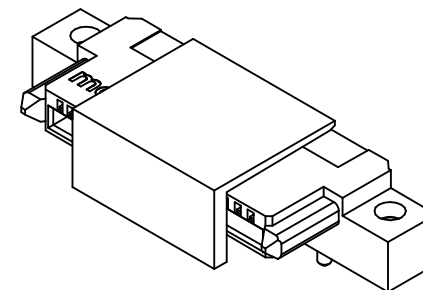
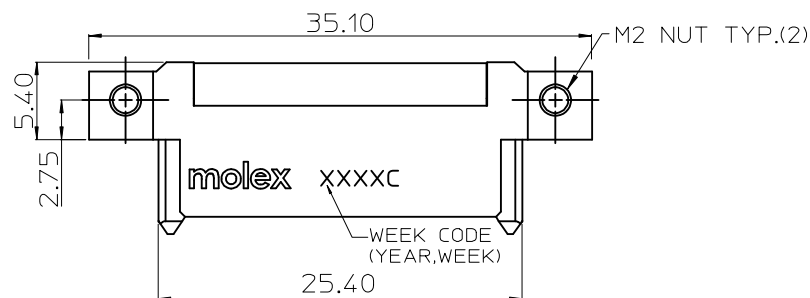
E

D

C

B

A



CHANGE NUT MATERIAL
EC NO: SH2008-0643
DRW: LLIU10
CHK: DAVID
APPR: HWANG
2008/10/13

QUALITY SYMBOLS
▽=0
▽=0
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
LINDA	2008/01/04
CHECKED BY	DATE
ALLEN LIN	2008/01/07
APPROVED BY	DATE
ERICK LAN	2008/01/07

MATERIAL NO.
SEE TABLE

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	METRIC	THIRD ANGLE PROJECTION

TITLE
SLIMLINE SATA RECEPTACLE
REVERSE RIGHT ANGLE
WITH SCREW

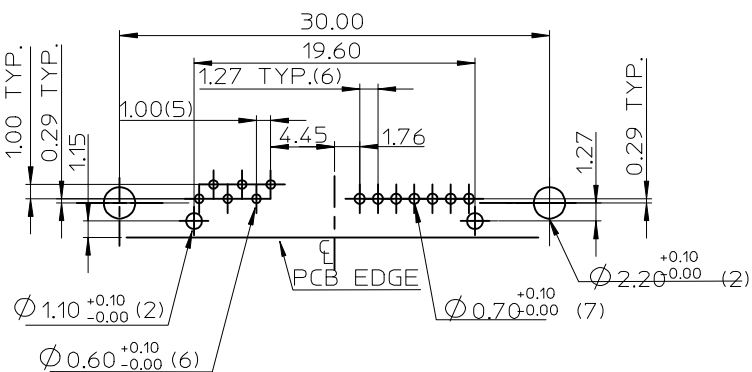
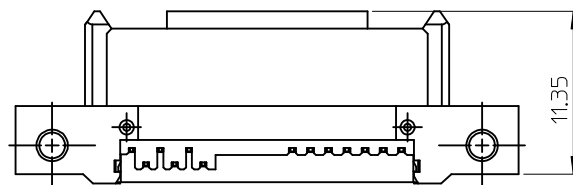
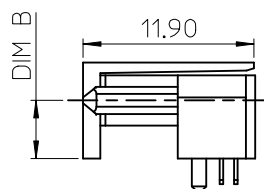
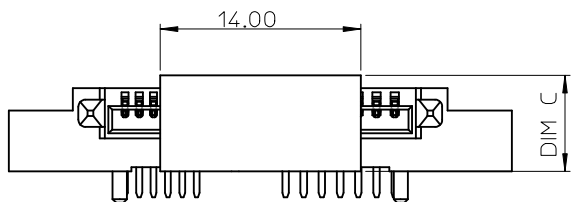
MOLEX INCORPORATED

DOCUMENT NO. SD-48325-001

SHEET NO. 1 OF 2

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

9 8 7 6 5 4 3 2 1



RECOMMENDED PC BOARD LAYOUT
TOLERANCE: $\pm 0.05\text{mm}$ (TOP VIEW)

P/N	PLATING OPTIONS	DIM A	DIM B	DIM C	WITHSTANDING MFG TEST
48325-4001	GOLD FLASH	5.80	4.05	6.70	NO
48325-4002	15 MICROINCH				NO
48325-4003	30 MICROINCH				YES
48325-5001	GOLD FLASH	10.80	9.05	11.70	NO
48325-5002	15 MICROINCH				NO
48325-5003	30 MICROINCH				YES
48325-6001	GOLD FLASH	7.30	5.55	8.20	NO
48325-6002	15 MICROINCH				NO
48325-6003	30 MICROINCH				YES

NOTES:

1.MATERIAL:

HOUSING & CAP: LIQUID CRYSTAL POLYMER, GLASS FIBER FILLED,
UL94V-0, COLOR: BLACK.

TERMINAL: COPPER ALLOY.

NUT: ZINC ALLOY.

2.PLATING:

TERMINAL:

CONTACT AREA: SEE TABLE

SOLDER TAIL: MATTE TIN, THICKNESS = 100 MICROINCH MIN / 2.54 MICROMETER MIN.

UNDER PLATE: NICKEL (Ni).

NUT: NICKEL (Ni), THICKNESS = 50 MICROINCH MIN / 1.27 MICROMETER MIN.

3.MATES WITH: SERIES 47300.

4.RECOMMENDED PCB THICKNESS: $1.20 \pm 0.05\text{mm}$

5.PRODUCT SPECIFICATION REFER TO PS-48321-001

6.TEST SUMMARY REFER TO TS-48325-001

7.PACKAGING SPECIFICATION REFER TO PK-48325-001

8.LEAD FREE & RoHS COMPLIANT PRODUCT.

SEE SHEET1 EC NO: SH2008-0643 DRW: LLIU10 CHKD: DAVID APPR: HWANG	2008/09/18
	2008/10/13

QUALITY SYMBOLS	DESCRIPTION
	=0
	=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	
	MM ONLY	INCH
4 PLACES	± 0.25	± 0.010
3 PLACES	± 0.25	± 0.010
2 PLACES	± 0.25	± 0.010
1 PLACE	± 0.25	± 0.010
ANGULAR $\pm 3^\circ$		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DRAWN BY	DATE
LINDA	2008/01/04
CHECKED BY	DATE
ALLEN LIN	2008/01/07
APPROVED BY	DATE
ERICK LAN	2008/01/07
MATERIAL NO.	

SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE SLIMLINE SATA RECEPTACLE REVERSE RIGHT ANGLE WITH SCREW		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-48325-001		SHEET NO. 2 OF 2