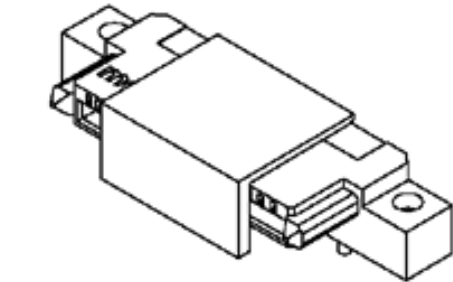


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0483255001](#)
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, Gold (Au) Flash Plating, Mounted Height: 10.80mm (.425"), 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) 2
Plating min: Mating (µm) 0.05
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
Not Reviewed**

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)

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

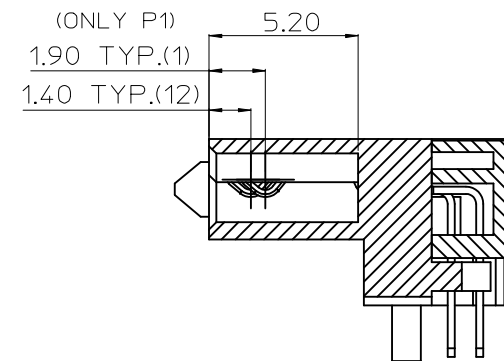
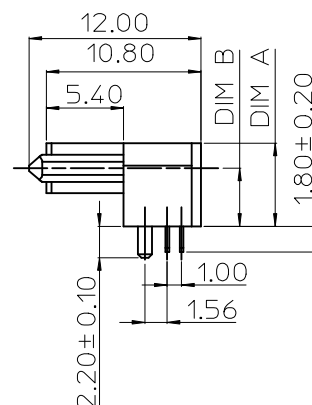
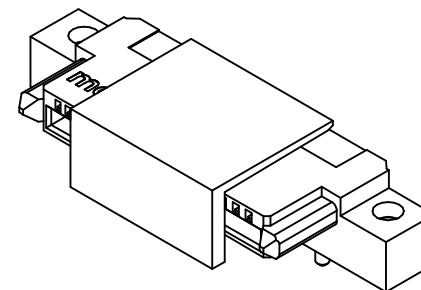
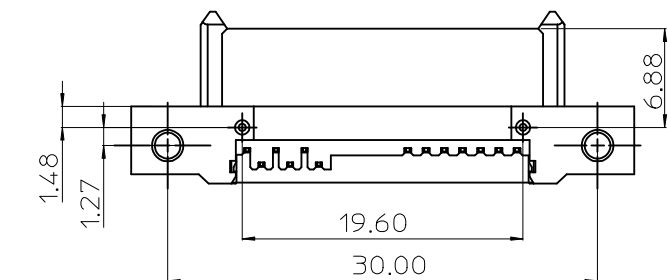
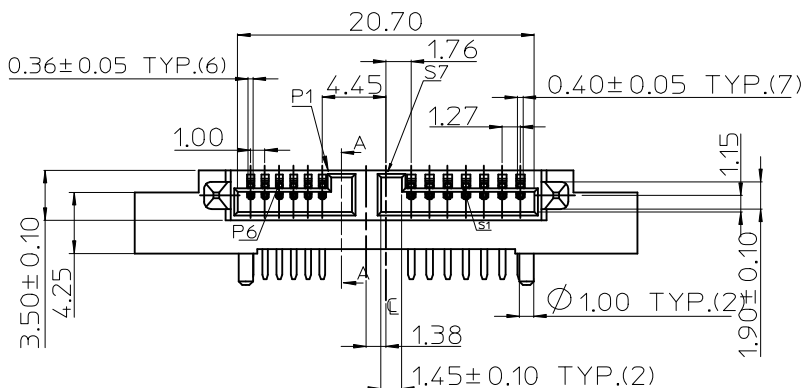
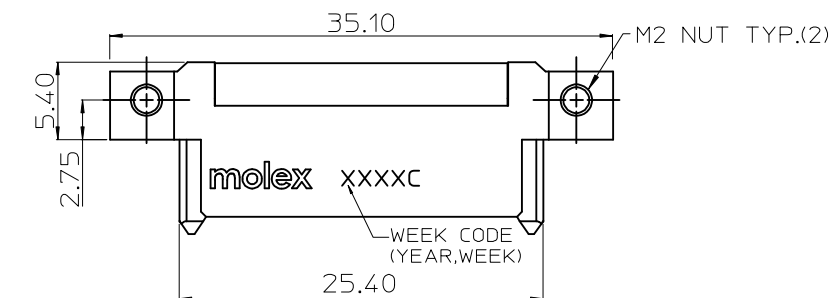
E

D

C

B

A



SECTION A-A
SCALE 2:1

CHANGE NUT MATERIAL
EC NO: SH2008-0643
DRAWN BY: DRW:LLIU10
CHKD BY: CHY:DAVID
APPR: HFWANG
2008/10/13

QUALITY SYMBOLS
▽=0
▽=0

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

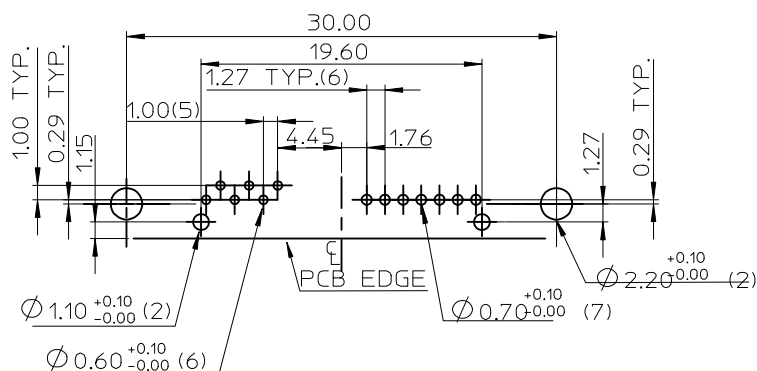
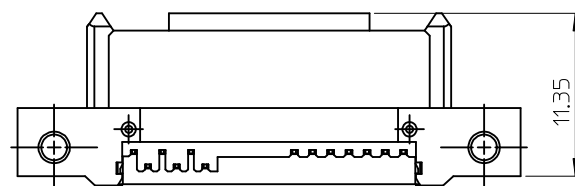
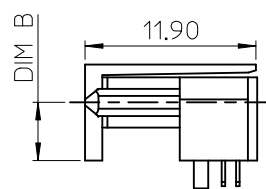
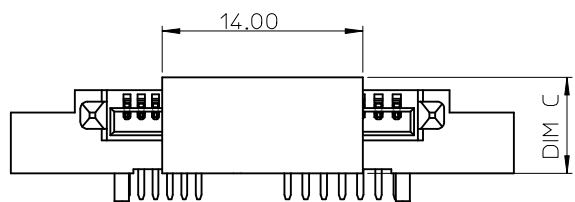
SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	METRIC	THIRD ANGLE PROJECTION

TITLE
SLIMLINE SATA RECEPTACLE
REVERSE RIGHT ANGLE
WITH SCREW

MOLEX INCORPORATED

DOCUMENT NO.
SD-48325-001

SHEET NO.
1 OF 2



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
$\nabla = 0$	
$\nabla = 0$	

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	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		

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 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