

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0476500002

Status:

Active

Overview:

slimline_serial_ata_odd_connectors

Description:

1.00mm (.039"), 1.27mm (.050") Pitch Slimline Serial ATA Receptacle for Optical Disk Drives, Vertical, SMT, 0.38µm (15µ") Gold (Au) Plating, with Cover, Lead free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-47650-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR 19980

UL

E29179

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

47650

Board-to-Board

slimline_serial_ata_odd_connectors

Serial ATA, Slimline Serial ATA

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Polarized to Mating Part

Polarized to PCB

Robotic Placement

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

13

13

Black

500

94V-0

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

1

Vertical

No

Yes

Embossed Tape on Reel

0.039 In, 0.050 In

1.00 mm, 1.27 mm

0.039 In, 0.050 In

1.00 mm, 1.27 mm

15

0.38

Yes

Yes

Pick and Place Cap

No

N/A

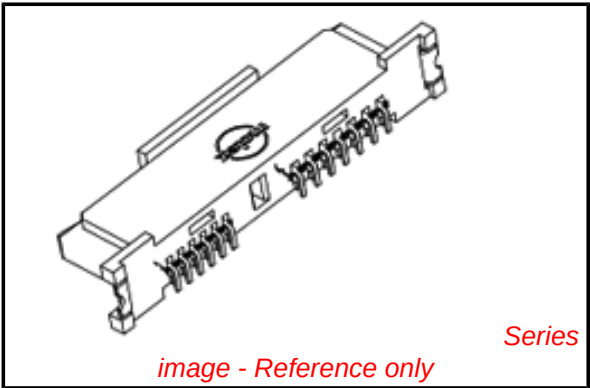
-35°C to +85°C

Surface Mount

Electrical

Current - Maximum per Contact

1.5A



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

47650Series

Mates With

473001xxx Slimline Serial ATA Plugs

Grounding to PCB

Voltage - Maximum

Yes

15V DC

Material Info

Reference - Drawing Numbers

Packaging Specification

Product Specification

Sales Drawing

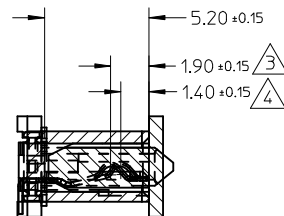
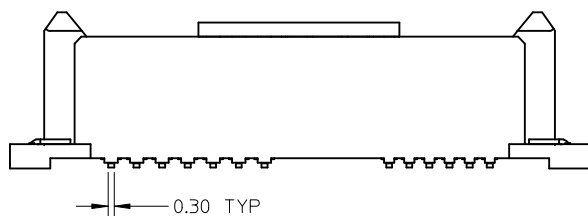
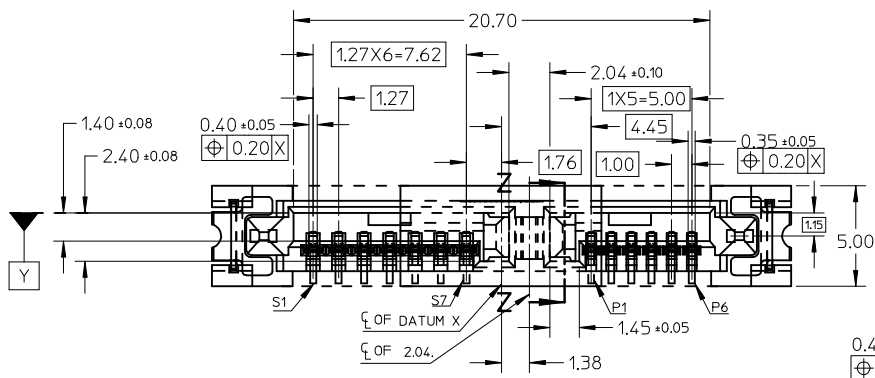
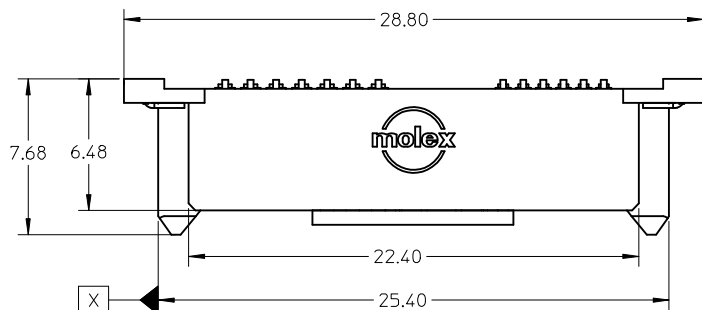
PK-47650-001

PS-47650-001

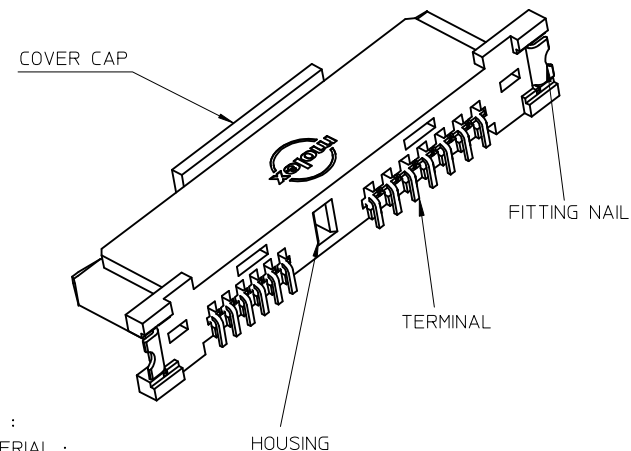
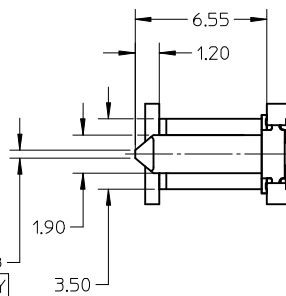
SD-47650-001

This document was generated on 05/31/2010

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SECTION Z-Z



NOTES :

- MATERIAL :
HOUSING : HIGH TEMPERATURE THERMOPLASTIC, UL94V-0, 30% G.F., BLACK.
TERMINAL : COPPER ALLOY
FITTING NAIL : COPPER ALLOY
COVER CAP:HIGH TEMPERATURE THERMOPLASTIC, UL94V-0, 30% G.F., BLACK.
- PLATING :
TERMINAL :
CONTACT AREA :SEE TABLE.
SOLDER AREA : TIN PLATING.
UNDERPLATING : NICKEL PLATING.
FITTING NAIL :
TIN PLATING 1.0 MICRONS MIN. OVER NICKEL PLATING 1.0 MICRONS MIN.
- FOR P1 PIN ONLY.
- FOR ALL OTHER PINS.
- PRODUCT SPECIFICATION:PER PS-47650-001.
- PRODUCT PACKAGE:PER PK-47650-001.
- TERMINAL AND NAIL COPLANARITY TO BE 0.15MAX.
- THE PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND 2000/53/EC.

TABLE

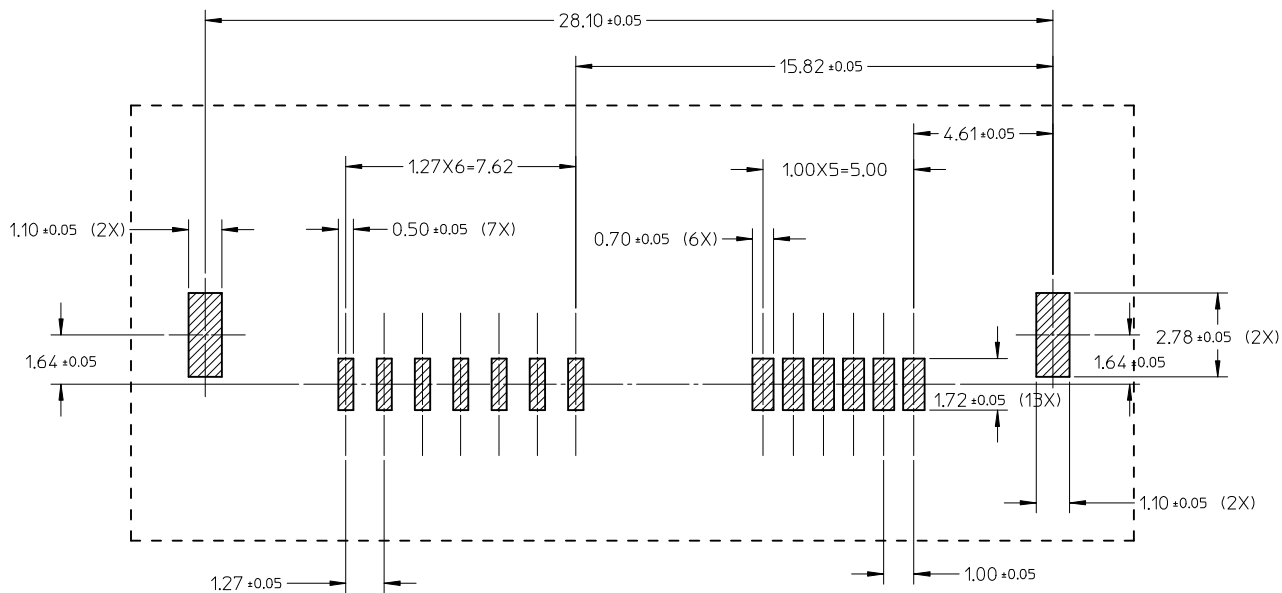
P/N	CONTACT AREA PLATING
47650-0001	0.1 MICRON MIN. GOLD
47650-0002	0.38 MICRON MIN. GOLD

UPDATE DRAWING	EC NO: SH2009-0756	2009/06/01
DRWN:XJ SONG	2009/06/02	
CHKD:XJ SONG	2009/06/02	
APPR:HWANG	2009/06/30	
REV	DESCRIPTION	

QUALITY SYMBOLS
▽=0
∇=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.20	± ---
ANGULAR ± 2 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
DRAWN BY LSONG	DATE 2008-2-16	TITLE SLIMLINE SATA RECEPTACLE CONNECTOR			
CHECKED BY JTIAN	DATE 2008-2-16				
APPROVED BY HWANG	DATE 2008-2-16	MOLEX INCORPORATED			
MATERIAL NO. SEE TABLE					
		DOCUMENT NO. SD-47650-001		SHEET NO. 1 OF 2	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



RECOMMENDED PCB LAYOUT DIMENSION

SEE SHEET 1 EC NO: SH2009-0756 DRWN:XJSONG 2009/06/01 CHKD:XJSONG 2009/06/02 APPR:HWANG 2009/06/30	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 6:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY LSONG	DATE 2008-2-16	TITLE SLIMLINE SATA RECEPTACLE CONNECTOR			
		4 PLACES	± ---	± ---	CHECKED BY JTIAN	DATE 2008-2-16				
		3 PLACES	± ---	± ---	APPROVED BY HWANG	DATE 2008-2-16				
		ANGULAR ± 2 °		MATERIAL NO.		DOCUMENT NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-47650-001				
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				