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Part Number: [0476281212](#)
Status: **Active**
Overview: [slimline_serial_ata_odd_connectors](#)
Description: 1.00mm(.039"), 1.27mm (.050") Pitch Slimline Serial ATA Plug for Optical Disk Drive, Vertical, Through hole, Bottom Mount, 0.10µm (4µ") Gold (Au) Plating, with Beveled Metal Pins, Lead-free

Documents:
[3D Model](#) [Product Specification PS-47628-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

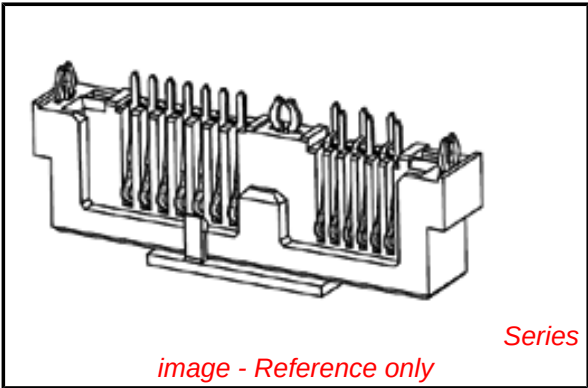
CSA LR 19980
UL E29179

General

Product Family PCB Headers
Series [47628](#)
Application Board-to-Board
Comments Through Hole Type
Overview [slimline_serial_ata_odd_connectors](#)
Product Name Serial ATA, Slimline Serial ATA

Physical

Breakaway No
Circuits (Loaded) 13
Circuits (maximum) 13
Durability (mating cycles max) 500
First Mate / Last Break Yes
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 Vertical
PCB Locator Yes
PCB Retention Yes
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) 4
Plating min: Mating (µm) 0.10
Plating min: Termination (µin) 39
Plating min: Termination (µm) 1
Polarized to Mating Part Yes
Polarized to PCB Yes
Stackable 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

**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.

China RoHS



Search Parts in this Series

[47628Series](#)

Mates With

[476393x00](#) Slimline SATA Receptacle

Electrical

Current - Maximum per Contact	1.5A
Voltage - Maximum	15V DC

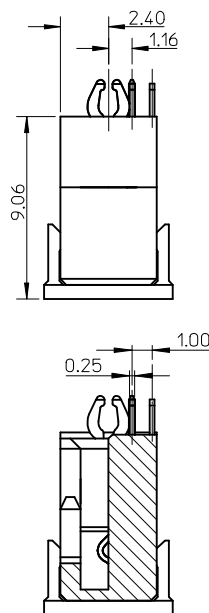
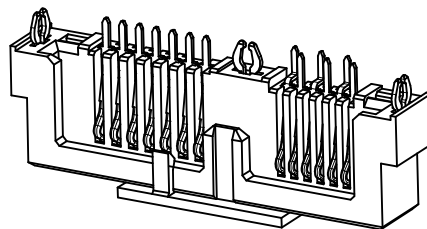
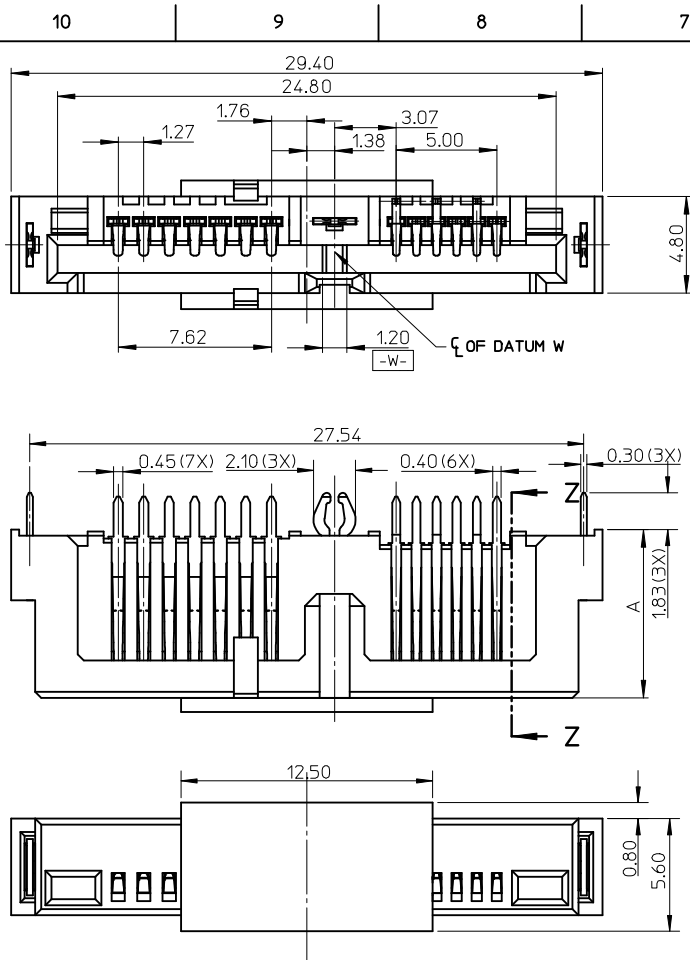
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-47628-012
Product Specification	PS-47628-001
Sales Drawing	SD-47628-200, SD-47639-400

This document was generated on 05/26/2010

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SECTION Z-Z

NOTES :

1.MATERIAL :

HOUSING : HIGH TEMPERATURE THERMOPLASTIC, UL94V-0, BLACK
TERMINAL : COPPER ALLOY
FORKLOCK : COPPER ALLOY

2.PLATING :

TERMINAL :

CONTACT AREA : GOLD PLATING SPEC REFER TO CHART.
SOLDER AREA : TIN PLATING 1 MICRONS MIN.
UNDERPLATING : NICKEL PLATING 1.25 MICRONS MIN.

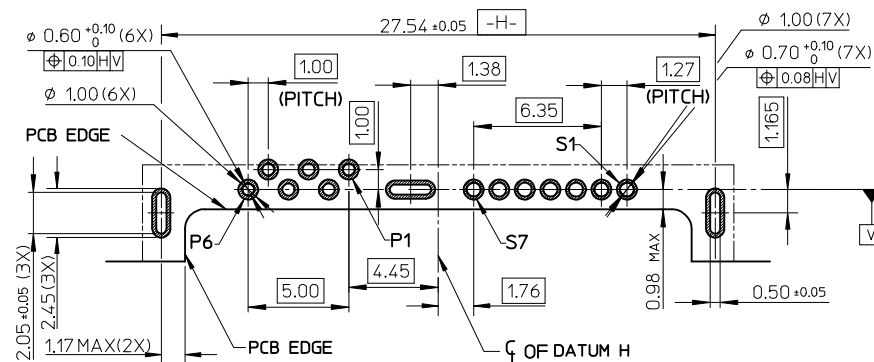
FORKLOCK :

TIN PLATING 1 MICRONS MIN. OVER NICKEL PLATING
1 MICRONS MIN.

3. PACKAGE: TAPE REEL, PK-47628-012.

4. PRODUCT SPEC: PS-47628-001.

5.THE PRODUCT COMPLIANT TO RoHS DIRECTIVES 2002/95/EC AND
ELV 2000/53/EC.



RECOMMENDED PCB LAYOUT (COMPONENT SIDE)

PCB THICKNESS = 1.2MM ± 0.05MM

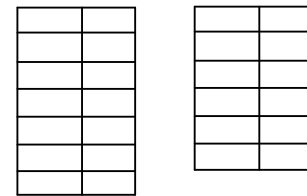
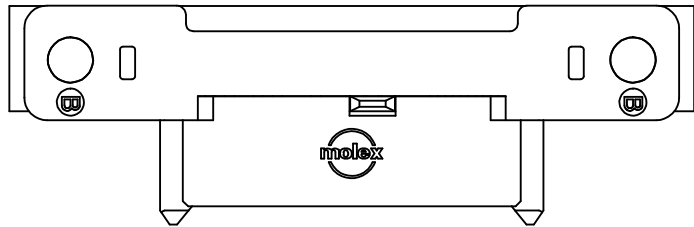
P/N	CONTACT GOLD PLATING SPEC	DIM'A'
47628-1012	0.76 MICRONS MIN	8.36
47628-1112	0.38 MICRONS MIN	
47628-1212	0.10 MICRONS MIN	
N/A		8.56
N/A		8.76
N/A		8.96
N/A		9.16
N/A		9.36
N/A		9.56
N/A		9.76
N/A		9.96
N/A		10.16
N/A		10.36
N/A		10.56
N/A		10.76
N/A		10.96

fb_frame_A3_P_AM_T
Rev. E 2006/04/15

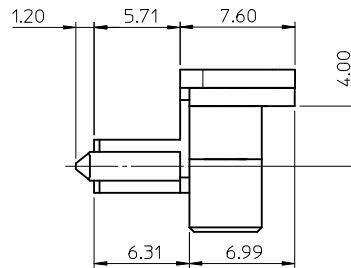
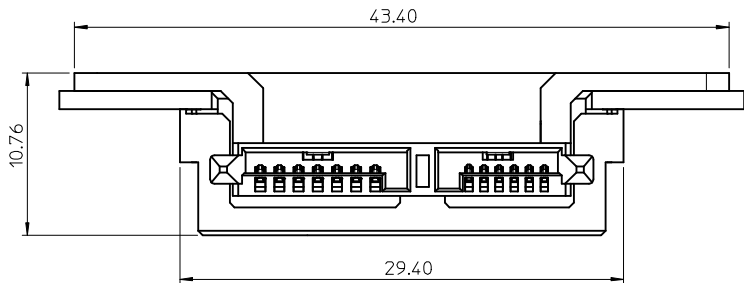
REVISED		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: SH2010-0070		DRWN:GLL		mm		MM ONLY		4:1		METRIC		THIRD ANGLE PROJECTION	
2009/08/21		2009/08/21		INCH		DRAWN BY		DATE		TITLE		THIRD ANGLE PROJECTION	
2009/08/21		2009/08/21		2 PLACES		DIXON LI		2007/11/23		HEADER OF 2 PIECES		THIRD ANGLE PROJECTION	
2009/09/23		2009/09/23		3 PLACES		CHECKED BY		DATE		SLIMLINE SATA		THIRD ANGLE PROJECTION	
				2 PLACES		JOHNSON TIAN		2007/11/23		VERTICAL, DIP TYPE		THIRD ANGLE PROJECTION	
				1 PLACE		APPROVED BY		DATE		MOLEX INCORPORATED		THIRD ANGLE PROJECTION	
				ANGULAR ± 3 °		HARVEY WANG		2007/11/23		MOLEX INCORPORATED		THIRD ANGLE PROJECTION	
				DRAFT WHERE APPLICABLE		MATERIAL NO.		DOCUMENT NO.		SD-47628-200		THIRD ANGLE PROJECTION	
				MUST REMAIN WITHIN DIMENSIONS		SEE CHART						THIRD ANGLE PROJECTION	
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						THIRD ANGLE PROJECTION	

10 9 8 7 6 5 4 3 2 1

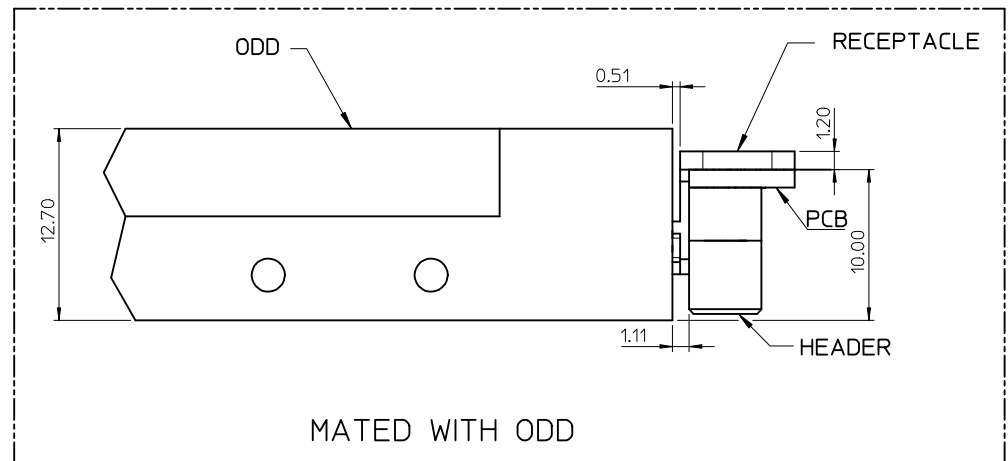
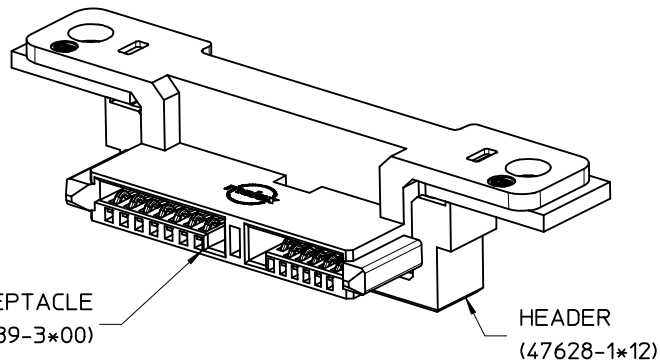
F



E



D



C

B

A

RTM EC NO: SH2010-0070 DRAWN:GLL CHKD:X JSONG APPR:RZHANG	2009/08/21 2009/08/21 2009/09/23	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						DRAWN BY DIXON LI	DATE 2008/11/27	TITLE 2 PIECES SLIMLINE SATA BOTTOM MOUNT TYPE (ASSEMBLY)			
						CHECKED BY STARY SONG	DATE 2008/11/27				
						APPROVED BY HARVEY WANG	DATE 2008/11/27				MOLEX INCORPORATED
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE REMARK		SD-47639-400			
REV	DESCRIPTION	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
		SIZE A3									

9 8 7 6 5 4 3 2 1