



## 1.27mm (.050") Pitch Slimline Serial ATA ODD Connectors

### FEATURES AND SPECIFICATIONS

[查询"47300-2010"供应商](#)

**Molex offers the Slimline version of the Serial ATA interconnect solutions for Optical Disc Drive applications.**

The demand for higher bandwidth electronic data transfer in compact storage applications has influenced the migration of parallel to serial bus architecture with a smaller overall product footprint design. Serial ATA International Organization (SATA-IO) in April 2007 released the new specs for the SATA interconnect solutions. The new 2.6 revision covers the addition of new features to the specs to make SATA available for new applications. One of the new features is the provision for the application of SATA optical drives in laptop computers. The new specs also includes Native Command Queuing (NCQ) Priority enhancement which provides better data priority in complex workload situations.

Molex's slimline SATA connector for the Optical Disk Drive (ODD) offers the standard blind mating with generous lead-in design for easier mating. This feature is compliant to the 2.6 version specs. The plug-to-ODD retention comes in various versions for manufacturers as options to ensure strong connector retention according to their design.

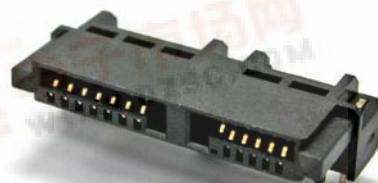
Molex is an active member of the Serial ATA International Organization (SATA-IO) which is the working group that is responsible for developing and specifying Serial ATA interconnect standards.

### Series

**47300-1xxx Plug**



**47300-2xxx Receptacle**



#### Features

- High-temperature housing
- Conform with SATA association's spec.
- Blind mate guide ears
- First-mate/last-break contacts
- Solderable metal pin

#### Benefits

- Withstands lead-free processing
- Ensure cross-function ability among SATA applications
- Provides easy connection
- Prevents electrical shorts in application
- Provides positive retention to the PCB

### SPECIFICATIONS

#### Reference Information

Packaging: Embossed Tape on Reel

UL File No.: Pending

CSA File No.: Pending

Mates With: Slimline Serial ATA ODD

Designed In: mm

#### Electrical

Voltage: 15V DC

Current: 1.5A

Contact Resistance: 30 milliohms max.

Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 20N (4.50lb) max.

Unmating Force: 4N (0.90lb) min.

Durability: 500 cycles

#### Physical

Housing: Thermoplastic, High Temperature

Shield case: Copper (Cu) Alloy

Contact: Copper (Cu) Alloy

#### Plating:

Contact Area — Gold

Solder Tail Area — Tin (Sn) Alloy

Underplating — Nickel (Ni)

Shield case— Tin (Sn) Alloy over Nickel (Ni)

Operating Temperature: -35°C to +85°C



**MARKETS AND APPLICATIONS**[查询"47300-2010"供应商](#)**1.27mm (.050") Pitch  
Slimline Serial ATA ODD  
Connectors****Markets and Applications**

- **Computer**
  - **Optical Disc Drive**

**Series****47300-1xxx****47300-2xxx****Plug  
Receptacle****ORDERING INFORMATION**

Description	Lead-free Order No.	Overall Height above PCB	Overall Connector Length	Retention Type
<b>1.27mm (.050") Pitch Slimline SATA Plug for Optical Disk Drive</b>	<b>47300-1000</b>	<b>5.40mm</b>	<b>35.60mm</b>	<b>Screw Type (Stainless steel, no Plating)</b>
	<b>47300-1010</b>	<b>4.00mm</b>	<b>35.60mm</b>	
	<b>47300-1020</b>	<b>5.40mm</b>	<b>28.70mm</b>	<b>Through Hole Solder Pins</b>
	<b>47300-1040</b>	<b>5.40mm</b>	<b>30.60mm</b>	<b>SMT</b>
<b>1.27mm (.050") Pitch Slimline SATA Receptacle for Optical Disk Drive</b>	<b>47300-2000</b>	<b>6.00mm</b>	<b>32.25mm</b>	<b>Screw Type</b>
	<b>47300-2010</b>	<b>6.00mm</b>	<b>26.14mm</b>	<b>Beveled Metal Pins</b>



**Americas Headquarters**  
2222 Wellington Ct.  
Lisle, Illinois 60532 USA  
1-800-78MOLEX  
amerinfo@molex.com

**Asia Pacific North Headquarters**  
Yamato, Kanagawa, Japan  
81-462-65-2324  
feninfo@molex.com

**Asia Pacific South Headquarters**  
Jurong, Singapore  
65-6-268-6868  
fesinfo@molex.com

**European Headquarters**  
Munich, Germany  
49-89-413092-0  
eurinfo@molex.com

**Corporate Headquarters**  
2222 Wellington Ct.  
Lisle, Illinois 60532 USA  
630-969-4550

Visit our Web site at <http://molex.com/product/sata.html>