

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0783200001](#)  
**Status:** **Active**  
**Overview:** [micro\\_sata](#)  
**Description:** 1.27mm (.050") Pitch High Speed Micro Serial ATA Device Receptacle for 1.8" HDD/SSD, SMT, Right Angle, Top Mount, 16 Circuits, Tray, Lead free

**Documents:**

[3D Model](#) [Product Specification PS-78320-002 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

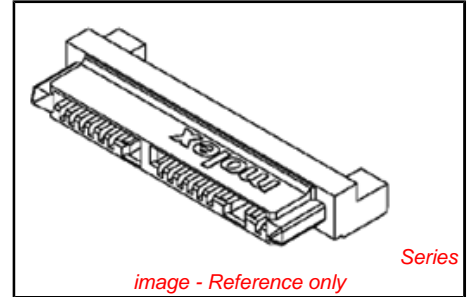
Product Family PCB Receptacles  
 Series [78320](#)  
 Application Board-to-Board, Signal  
 Comments With Optional Manufacturing Pins (S1 to S7 and P1 to P9)  
 Overview [micro\\_sata](#)  
 Product Name Micro Serial ATA, Serial ATA

**Physical**

Circuits (Loaded) 16  
 Circuits (maximum) 16  
 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 Yes  
 Material - Metal Copper Alloy  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin Nylon  
 Number of Rows 1  
 Orientation Right Angle  
 PCB Locator Yes  
 PCB Retention Yes  
 Packaging Type Tray  
 Pitch - Mating Interface 1.27mm (.050"), 5.08mm (.200")  
 Pitch - Termination Interface 1.27mm (.050"), 5.08mm (.200")  
 Plating min - Mating 0.762µm (30µ")  
 Plating min - Termination 2.540µm (100µ")  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Stackable No  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 1.5A  
 Grounding to PCB Yes  
 Voltage - Maximum 30V



|  |                          |
|--|--------------------------|
| <p><b>EU RoHS</b><br/> <b>ELV and RoHS</b><br/> <b>Compliant</b><br/> <b>REACH SVHC</b><br/> <b>Contains SVHC: No</b><br/> <b>Low-Halogen Status</b><br/> <b>Not Low-Halogen</b></p> | <p><b>China RoHS</b></p> |
|--|--------------------------|

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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**  
[78320Series](#)

**Mates With**  
[78103](#) , [78283](#) and [78285](#) Micro SATA Device Plugs

**Solder Process Data**

|  |                           |
|--|---------------------------|
| Duration at Max. Process Temperature (seconds) | 10                        |
| 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**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-78320-002 |
| Sales Drawing         | SD-78320-001 |

This document was generated on 05/06/2011

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