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Part Number: [78320-0001](#)
Status: **Active**
Overview: Micro Serial ATA Connectors
Description: 1.27mm Pitch High Speed Micro Serial ATA Device Receptacle for 45.72mm 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 Serial ATA Connectors](#)
 Product Name Micro Serial ATA, Serial ATA
 UPC 800756962511

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
 Net Weight 1.503/g
 Number of Rows 1
 Orientation Right Angle
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Tray
 Pitch - Mating Interface 1.27mm, 5.08mm
 Pitch - Termination Interface 1.27mm, 5.08mm
 Plating min - Mating 0.762µm
 Plating min - Termination 2.540µm
 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

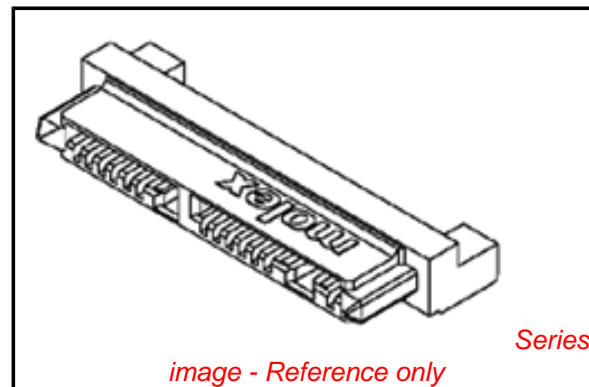


image - Reference only

EU RoHS

ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Low-Halogen Status
Not Low-Halogen

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

[78320Series](#)

Mates With

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

| | |
|-------------------|-----|
| Grounding to PCB | Yes |
| Voltage - Maximum | 30V |

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

| | |
|---------------------------|----------------------------|
| Electrical Model Document | EE-78285-001, EE-78320-001 |
| Product Specification | PS-78320-002 |
| Sales Drawing | SD-78320-001 |

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