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Part Number: [0781090001](#)
Status: **Active**
Overview: [micro_sata](#)
Description: 1.27mm (.050") Pitch Micro Serial ATA Device Receptacle for 1.8" HDD/SSD, Right Angle, SMT, Mid-Mount, 16 Circuits, Lead free

Documents:

[3D Model](#) [Product Specification PS-78109-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Receptacles
 Series [78109](#)
 Application Board-to-Board, Signal
 Comments With Optional Manufacturing Pins (S1 to S7, 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
 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")
 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

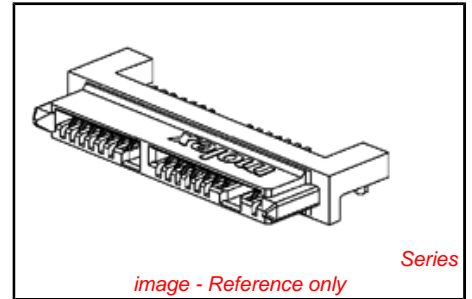
Electrical

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

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



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|--|--------------------------|
| <p>EU RoHS ELV and RoHS Compliant REACH SVHC Not Reviewed Low-Halogen Status Not Low-Halogen</p> | <p>China RoHS</p> |
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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
[78109Series](#)

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

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-78109-001
SD-78109-001

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