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Part Number: [1510420001](#)

Status: **Active**

Overview: Serial Attached SCSI (SAS) Connectors

Description: 1.27mm Signal Pitch, 0.80mm Signal Pitch, 1.27mm Power Pitch SAS-3/PCIe-3 Plug, Vertical, Surface Mount, with Solder Tab, 7.00mm Height, 0.60mm Peg Length, 1.40mm PCB Thickness, 68 Circuits, with Cap, Embossed Tape and Reel, Lead-Free

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[3D Model \(PDF\)](#)

[Product Specification PS-151042-0001-001 \(PDF\)](#)

[Application Specification AS-151042-0001-001 \(PDF\)](#)

[Test Summary TS-151042-0001-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980

UL E29179

General

Product Family I/O Connectors

Series [151042](#)

Application Board-to-Board

Comments With Cap

Component Type Plug

Electrical Model Yes

Overview [Serial Attached SCSI \(SAS\) Connectors](#)

Product Name SAS-3/PCIe-3, U.2 (SFF-8639)

Type N/A

UPC 889056146388

Physical

Circuits (Loaded) 68

Circuits Detail Signal 53, Power 15

Color - Resin Black

Durability (mating cycles max) 500

Flammability 94V-0

Gender Male

Keying to Mating Part Yes

Lock to Mating Part None

Material - Metal Copper Alloy

Material - Plating Mating Gold

Material - Plating Termination Gold

Material - Resin Liquid Crystal Polymer

Net Weight 1.281/g

Number of Rows 2

Orientation Vertical

PCB Locator Yes

PCB Retention Yes

PCB Thickness - Recommended 1.40mm

Packaging Type Embossed Tape on Reel

Panel Mount No

Pitch - Mating Interface 0.80mm, 1.27mm

Pitch - Termination Interface 0.80mm, 1.27mm

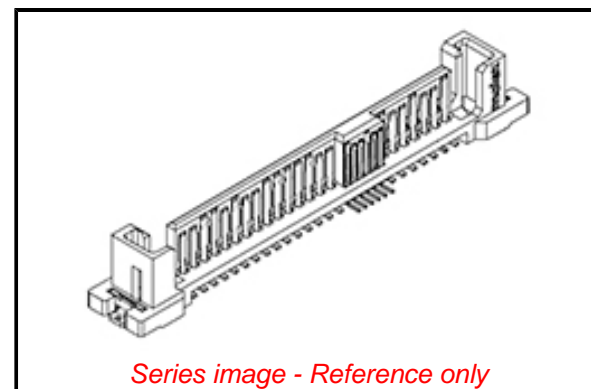
Plating min - Mating 0.762µm

Plating min - Termination 0.076µm

Polarized to Mating Part Yes

Polarized to PCB Yes

Surface Mount Compatible (SMC) Yes



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -

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Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

Not Contained

Search Parts in this Series

[151042 Series](#)

Mates With

U.2 (SFF-8639) Receptacles|SFF-8482 and SFF-8680 Receptacles|SAS / SATA Receptacles

| | |
|-------------------------------|---------------|
| Temperature Range - Operating | 0° to +55°C |
| Termination Interface: Style | Surface Mount |

Electrical

| | |
|-------------------------------|------|
| Current - Maximum per Contact | 1.5A |
| Voltage - Maximum | 30V |

Solder Process Data

| | |
|--|--------|
| Duration at Max. Process Temperature (seconds) | 010 |
| Lead-free Process Capability | REFLOW |
| Max. Cycles at Max. Process Temperature | 001 |
| Process Temperature max. C | 260 |

Material Info**Reference - Drawing Numbers**

| | |
|---------------------------|--------------------|
| Application Specification | AS-151042-0001-001 |
| Electrical Model Document | EE-151042-0001 |
| Product Specification | PS-151042-0001-001 |
| S-Parameter Model | SP-151042-0001 |
| Sales Drawing | SD-151042-0001-001 |
| Test Summary | TS-151042-0001-001 |

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