

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

**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

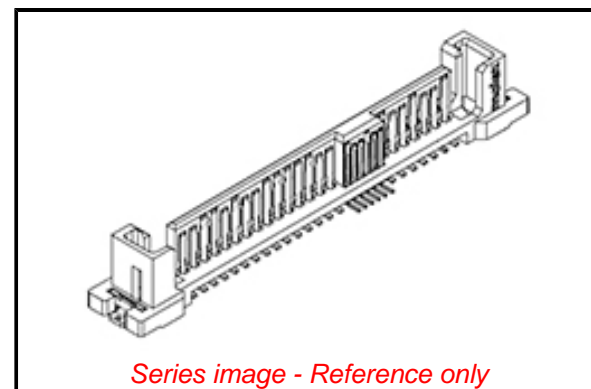
Plating min - Mating 0.762µm

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 -  
D(2020)4578-DC (25  
June 2020)

**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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