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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	Application Specification AS-151042-0001-001 (PDF)
Drawing (PDF)	Packaging Specification PK-151042-0001-001 (PDF)
3D Model (PDF)	Test Summary TS-151042-0001-001 (PDF)
Product Specification PS-151042-0001-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

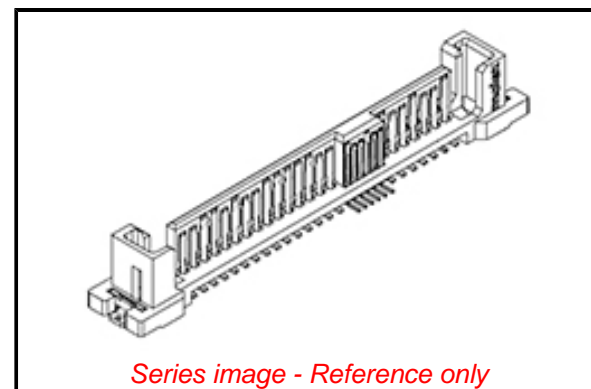
CSA	LR19980
UL	E29179

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)9139-DC (19
Jan 2021)

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-151042-0001-001
Packaging Specification	PK-151042-0001-001
Product Specification	PS-151042-0001-001
Sales Drawing	SD-151042-0001-001
Test Summary	TS-151042-0001-001

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