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**Part Number:** [1719832042](#)  
**Status:** **Active**  
**Overview:** Nano-Pitch I/O Interconnect System  
**Description:** Nano-Pitch I/O Receptacle, Vertical, Through Hole, with Cap, 42 Circuits, Shell Tab Length 3.00mm, Black

**Documents:**

<a href="#">3D Model</a>	<a href="#">Application Specification AS-173162-0002-001 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Packaging Specification PK-171982-9000-001 (PDF)</a>
<a href="#">3D Model (PDF)</a>	<a href="#">Packaging Specification PK-173307-0001-001 (PDF)</a>
<a href="#">Product Specification PS-173162-0001-001 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-171983-2042-001 (PDF)</a>
<a href="#">Application Specification AS-173162-0001-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

UL E29179

**General**

Product Family	I/O Connectors
Series	<a href="#">171983</a>
Application	Wire-to-Board
Component Type	Receptacle
Overview	<a href="#">Nano-Pitch I/O Interconnect System</a>
Product Name	Nano-Pitch I/O
Type	N/A
UPC	889056257077

**Physical**

Circuits (Loaded)	42
Circuits (maximum)	42
Color - Resin	Black
Durability (mating cycles max)	250
Gender	Receptacle
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	0.750/g
Number of Rows	2
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.57mm
Packaging Type	Embossed Tape on Reel
Panel Mount	No
Pitch - Mating Interface	0.50mm
Pitch - Termination Interface	0.50mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-40° to +80°C
Termination Interface: Style	Through Hole
Waterproof / Dustproof	No



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
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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**

[171983 Series](#)

**Electrical**

Current - Maximum per Contact	0.5A
Grounding to Panel	None
Shielded	No
Voltage - Maximum	30V AC (RMS)/DC

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	020
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-173162-0001-001, AS-173162-0002-001
Electrical Model Document	EE-171983-0005-002
Packaging Specification	PK-171982-9000-001, PK-173307-0001-001
Product Specification	PS-173162-0001-001
S-Parameter Model	SP-171983-0005-001
Sales Drawing	SD-171983-1000-001
Symbol/Footprint Data	SYM-171983-2042-001

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