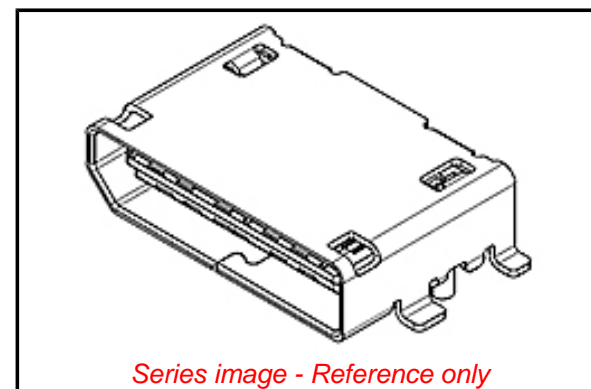


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**Part Number:** [1719820142](#)  
**Status:** **Active**  
**Overview:** Nano-Pitch I/O™ Interconnect System  
**Description:** Nano-Pitch I/O™ Connector, Right Angle Receptacle, Surface Mount, 42 Circuits

**Documents:**

<a href="#">3D Model</a>	<a href="#">Application Specification AS-173162-0002 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Test Summary TS-171982-0001 (PDF)</a>
<a href="#">Product Specification PS-173162-0001 (PDF)</a>	<a href="#">Test Summary TS-171982-0010 (PDF)</a>
<a href="#">Application Specification AS-173162-0001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>



**General**

Product Family	I/O Connectors
Series	171982
Application	Wire-to-Board
Component Type	Receptacle
Overview	Nano-Pitch I/O™ Interconnect System
Product Name	Nano-Pitch I/O™
Type	N/A
UPC	889056188364

**Physical**

Circuits (Loaded)	42
Circuits (maximum)	42
Color - Resin	Black
Durability (mating cycles max)	50
Gender	Receptacle
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold over Nickel
Material - Plating Termination	Tin over Nickel
Material - Resin	High Temperature Thermoplastic
Net Weight	1.070/g
Number of Rows	2
Orientation	Right Angle
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°C to +80°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

**Electrical**

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

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/79/2015 (17  
December 2015)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS  
ELV

Green Image  
Not Relevant

**Search Parts in this Series**

[171982 Series](#)

**Solder Process Data**

Lead-free Process Capability

N/A

**Material Info****Reference - Drawing Numbers**

Application Specification	AS-173162-0001, AS-173162-0002
Electrical Model Document	EE-171982-0010
Product Specification	PS-173162-0001
S-Parameter Model	SP-171982-0010
Sales Drawing	SD-171982-1000
Symbol/Footprint Data	SYM-171982-0142
Test Summary	TS-171982-0001, TS-171982-0010

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