



**Part Number :** [1719820142](#)  
**Product Description :** Nano-Pitch I/O Connector,  
Right-Angle, Surface Mount, without Cap, 42 Circuits  
**Series Number :** 171982  
**Status :** Active  
**Product Category :** High-Speed I/O Connectors



## Documents & Resources

### Drawings

- [1719820142\\_sd.pdf](#)
- [PK-171982-9000-001.pdf](#)
- [PK-173307-0001-001.pdf](#)

### 3D Models and Design Files

- [STEP AP242](#)
- [SOLIDWORKS](#)
- [Creo](#)
- [SYM-171982-0142-001.zip](#)
- [EE-171982-0010-001.pdf](#)
- [SP-171982-0010-001.zip](#)

### Specifications

- [AS-173162-0001-001.pdf](#)
- [AS-173162-0002-001.pdf](#)
- [PS-173162-0001-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                               |
| REACH SVHC         | Not Contained per D(2025)4165-DC                                                                             |

|         |                           |
|---------|---------------------------|
|         | (25 June 2025)            |
| EU RoHS | Compliant per EU 2015/863 |

#### Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

#### Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### Substances of Interest

- PFAS

#### EU RoHS Certificate of Compliance

#### Additional Product Compliance Information

## Part Details

### General

|                |                                                                                |
|----------------|--------------------------------------------------------------------------------|
| Status         | Active                                                                         |
| Category       | High-Speed I/O Connectors                                                      |
| Series         | 171982                                                                         |
| Description    | Nano-Pitch I/O Connector, Right-Angle, Surface Mount, without Cap, 42 Circuits |
| Application    | Wire-to-Board                                                                  |
| Component Type | Receptacle                                                                     |
| Product Name   | Nano-Pitch I/O                                                                 |
| Type           | Internal                                                                       |
| UPC            | 889056188364                                                                   |

### Agency

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 0.5A |
|-------------------------------|------|

|                    |                 |
|--------------------|-----------------|
| Data Rate          | 16.0 Gbps       |
| Grounding to Panel | None            |
| Shielded           | No              |
| Voltage - Maximum  | 30V AC (RMS)/DC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 42                             |
| Circuits (maximum)             | 42                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| Gender                         | Receptacle                     |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 1.070/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| Packaging Type                 | Embossed Tape on Reel          |
| Panel Mount                    | No                             |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.57mm                         |
| 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    | Surface Mount                  |

## Solder Process Data

|                              |     |
|------------------------------|-----|
| Lead-Free Process Capability | N/A |
|------------------------------|-----|

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