

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [1719832042](#)  
**Status:** **Active**  
**Overview:** Nano-Pitch I/O™ Interconnect System  
**Description:** Nano-Pitch I/O™ Connector, Vertical Receptacle, Through Hole, with Dust Cap, 42 Circuits

**Documents:**

|                                                                |                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------|
| <a href="#">3D Model</a>                                       | <a href="#">Packaging Specification PK-173307-0001 (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-171983-0005 (PDF)</a>            |
| <a href="#">Application Specification AS-173162-0001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>         |
| <a href="#">Application Specification AS-173162-0002 (PDF)</a> |                                                              |

**General**

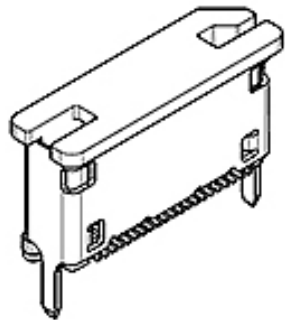
|                |                                                     |
|----------------|-----------------------------------------------------|
| Product Family | I/O Connectors                                      |
| Series         | <a href="#">171983</a>                              |
| Application    | 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) | 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                     | 0.934/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°C to +80°C                 |
| Termination Interface: Style   | Through Hole                   |
| Waterproof / Dustproof         | No                             |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 0.5A |
| Grounding to Panel            | None |



Series image - Reference only

**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**

[171983](#) Series

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Shielded                                       | No                             |
| Voltage - Maximum                              | 30V AC (RMS)/DC                |
| <b>Solder Process Data</b>                     |                                |
| Duration at Max. Process Temperature (seconds) | 020                            |
| Lead-freeProcess Capability                    | REFLOW                         |
| Max. Cycles at Max. Process Temperature        | 001                            |
| Process Temperature max. C                     | 260                            |
| <b>Material Info</b>                           |                                |
| <b>Reference - Drawing Numbers</b>             |                                |
| Application Specification                      | AS-173162-0001, AS-173162-0002 |
| Electrical Model Document                      | EE-171983-0005                 |
| Packaging Specification                        | PK-173307-0001                 |
| Product Specification                          | PS-173162-0001                 |
| S-Parameter Model                              | SP-171983-0005                 |
| Sales Drawing                                  | SD-171983-1000                 |
| Symbol/Footprint Data                          | SYM-171983-2042                |
| Test Summary                                   | TS-171982-0001, TS-171983-0005 |

This document was generated on 06/13/2016

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION