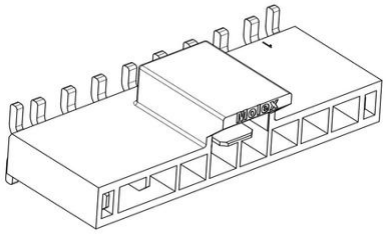
**Part Number :** 1054312405
**Product Description :** Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Tape, Lubricated, Natural, Glow-Wire Capable
**Series Number :** 105431
**Status :** Active
**Product Category :** PCB Headers and Receptacles



## Documents and Resources

### Drawings

1054312405_sd.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

AS-105405-001-001.pdf

1054051000-PS-CH-000.pdf

1054051000-PS-ES-000.pdf

1054051000-PS-SK-000.pdf

PS-105405-001-001.pdf

1054050000-TS-000.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | 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)7771-DC (04 Feb 2026) |
| EU RoHS | Compliant per EU 2015/863 |

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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

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 105431 |
| Description | Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Tape, Lubricated, Natural, Glow-Wire Capable |
| Application | Wire-to-Board |
| Component Type | PCB Header |
| Product Name | Nano-Fit |
| UPC | 191130009930 |

### Agency

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

### Electrical

| | |
|---|---|
| Current - Maximum per Contact | 6.5A |
| Voltage - Maximum | 250V AC (RMS)/DC |

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### Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 5 |
| Circuits (maximum) | 5 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 50 |
| First Mate / Last Break | No |
| Flammability | 94V-0 |
| Gender | Male |
| Glow-Wire Capable | Yes |
| Keying to Mating Part | Yes |
| Lock to Mating Part | Yes |
| Material - Metal | Brass |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Liquid Crystal Polymer (LCP) |
| Net Weight | 0.920/g |
| Number of Rows | 1 |
| Orientation | Vertical |
| Packaging Type | Embossed Tape on Reel |
| PCB Locator | No |
| PCB Thickness - Recommended | 1.60mm |
| Pitch - Mating Interface | 2.50mm |
| Pitch - Termination Interface | 2.50mm |
| Plating min - Mating | 0.762µm |
| Plating min - Termination | 0.762µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Robotic Placement | Vacuum Pick-Up Tape |
| Temperature Range - Operating | -40° to +125°C |
| Termination Interface Style | Surface Mount |

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## Mates With / Use With

### Mates with Part(s)

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| Description | Part Number |
| --- | --- |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Glow-Wire Capable | 1053072205 |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Glow-Wire Capable, for UL 1569/1007 Wire | 2263542205 |

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