molex



**Part Number :** 1053092202
**Product Description :** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray
**Series Number :** 105309
**Status :** Active
**Product Category :** PCB Headers and Receptacles
**Engineering Part Number :** 105309-2102
**Packaging Alternative :** 1053094702 (Embossed Tape on Reel)

## Documents and Resources

### Drawings

1053092202_sd.pdf

PK-105309-300-000.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-105309-XX02-001.zip

### Specifications

AS-105300-100-001.pdf

1053001000-PS-CH-000.pdf

1053001000-PS-ES-000.pdf

1053001000-PS-JP-000.pdf

1053001000-PS-SK-000.pdf

PS-105300-100-001.pdf

1053000000-TS-000.pdf

## Product Environment Compliance

### Compliance

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| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33 |
| 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 |

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 | 105309 |
| Description | Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray |
| Application | Wire-to-Board |
| Component Type | PCB Header |
| Product Name | Nano-Fit |
| UPC | 889056002981 |

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## Agency

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 8.0A |
| Voltage - Maximum | 250V AC (RMS)/DC |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 2 |
| Circuits (maximum) | 2 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 50 |
| First Mate / Last Break | No |
| Gender | Male |
| Glow-Wire Capable | Yes |
| Guide to Mating Part | No |
| 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) |
| Mounting Style | Through Hole |
| Net Weight | 0.270/g |
| Number of Rows | 1 |
| Orientation | Vertical |
| Packaging Type | Tray |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 1.60mm, 2.40mm |
| PC Tail Length | 3.20mm |
| Pitch - Mating Interface | 2.50mm |
| Pitch - Termination Interface | 2.50mm |

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| | |
|---|---|
| Plating min - Mating | 0.381µm |
| Plating min - Termination | 1.524µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Shrouded | Shrouded |
| Stackable | No |
| Temperature Range - Operating | -40° to +125°C |
| Termination Interface Style | Through Hole |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Natural, Glow-Wire Capable | 1053072202 |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Natural, Glow-Wire Capable, for UL 1569/1007 Wire | 2263542202 |



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