



**Part Number :** [1053091302](#)

**Product Description :** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray

**Series Number :** 105309

**Status :** Active

**Product Category :** PCB Headers and Receptacles

**Packaging Alternative :** [1053093602](#) (Embossed Tape on Reel)



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## Documents & Resources

### Drawings

[1053091302 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](#)

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## Product Environment Compliance

### Compliance

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| 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)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

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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, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray |
| Application    | Power, Wire-to-Board                                                                                                                                     |
| Component Type | PCB Header                                                                                                                                               |
| Product Name   | Nano-Fit                                                                                                                                                 |
| UPC            | 889056000321                                                                                                                                             |

## 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                  | Black                  |
| Durability (mating cycles max) | 50                     |
| Flammability                   | 94V-0                  |
| 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 |
| 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                 |
| Plating min - Mating           | 0.762µm                |
| Plating min - Termination      | 1.524µm                |

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

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## Mates With / Use With

### Mates with Part(s)

| Description                                                                                                                     | Part Number       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Black, Glow-Wire Capable                        | <u>1053071202</u> |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Black, Glow-Wire Capable, for UL 1569/1007 Wire | <u>2263541202</u> |
| Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assemblies                                                                       | <u>45130</u>      |