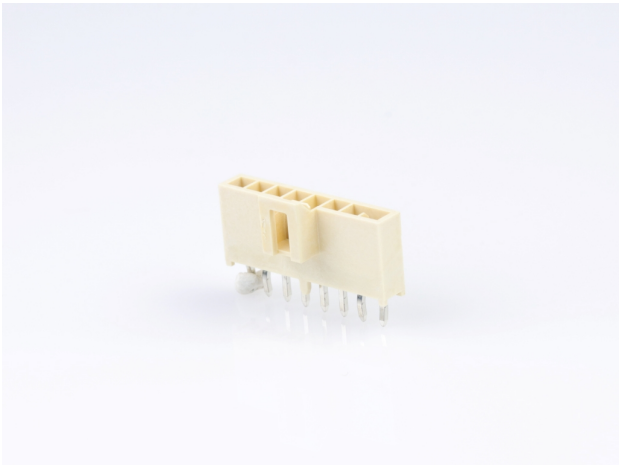




**Part Number :** [1053092208](#)  
**Product Description :** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 8 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray  
**Series Number :** 105309  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Packaging Alternative :** 1053094708 (Embossed Tape on Reel)



Documents & Resources

Drawings

[Drawing 1053092208\\_sd.pdf](#)  
[Packaging Design Drawing PK-105309-300-000.pdf](#)

3D Models and Design Files

[3D Model 1053092208\\_stp.zip](#)  
[Symbol Footprint Data SYM-105309-XX08-001.zip](#)

Specifications

[Application Specification AS-105300-100-001.pdf](#)  
[Product Specification 1053001000-PS-CH-000.pdf](#)  
[Product Specification 1053001000-PS-ES-000.pdf](#)  
[Product Specification 1053001000-PS-JP-000.pdf](#)  
[Product Specification 1053001000-PS-SK-000.pdf](#)  
[Product Specification PS-105300-100-001.pdf](#)  
[Test Summary 1053000000-TS-000.pdf](#)

Product Environment Compliance

Compliance

|                    |                                                |
|--------------------|------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                   |
| China RoHS         |                                                |
| EU ELV             | Not Relevant                                   |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                 |
| REACH SVHC         | Not Contained per D(2023)3788-DC (14 Jun 2023) |

|         |                           |
|---------|---------------------------|
| EU RoHS | Compliant per EU 2015/863 |
|---------|---------------------------|

#### Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

#### Multiple Part Industry Compliance Documents

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

#### EU RoHS Certificate of Compliance

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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, 8 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray |
| Application    | Power, Wire-to-Board                                                                                                                                       |
| Component Type | PCB Header                                                                                                                                                 |
| Product Family | Nano-Fit Power Connectors                                                                                                                                  |
| Product Name   | Nano-Fit                                                                                                                                                   |
| UPC            | 889056003049                                                                                                                                               |

### Agency

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

### Electrical

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

## Physical

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 8                      |
| Circuits (maximum)             | 8                      |
| Color - Resin                  | Natural                |
| 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                     | 0.870/g                |
| Number of Rows                 | 1                      |
| Orientation                    | Vertical               |
| Packaging Type                 | Tray                   |
| PC Tail Length                 | 3.20mm                 |
| PCB Locator                    | Yes                    |
| PCB Retention                  | Yes                    |
| PCB Thickness - Recommended    | 1.60mm, 2.40mm         |
| Pitch - Mating Interface       | 2.50mm                 |
| Pitch - Termination Interface  | 2.50mm                 |
| Plating min - Mating           | 0.381µm                |
| Plating min - Termination      | 1.524µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |
| Shrouded                       | Yes                    |
| Stackable                      | No                     |
| Temperature Range - Operating  | -40° to +115°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, 8 Circuits, Natural, Glow-Wire Capable | <u>1053072208</u> |

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