

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1053142308](#)  
**Status:** **Active**  
**Overview:** Nano-Fit Power Connectors  
**Description:** Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray

**Documents:**

|  |   |
|--|---|
| <a href="#">3D Model (PDF)</a>                                   | <a href="#">Product Specification PS-105300-100-001 (PDF)</a>     |
| <a href="#">3D Model</a>   | <a href="#">Application Specification AS-105300-100-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                    | <a href="#">Packaging Specification PK-105309-200-000 (PDF)</a>   |
| <a href="#">Product Specification 1053001000-PS-CH-000 (PDF)</a> | <a href="#">Test Summary 1053000000-TS-000 (PDF)</a>              |
| <a href="#">Product Specification 1053001000-PS-ES-000 (PDF)</a> | <a href="#">Datasheet (PDF)</a>                                   |
| <a href="#">Product Specification 1053001000-PS-JP-000 (PDF)</a> | <a href="#">Symbol Footprint Data SYM-105314-XX08-001 (PDF)</a>   |
| <a href="#">Product Specification 1053001000-PS-SK-000 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |

**Agency Certification**

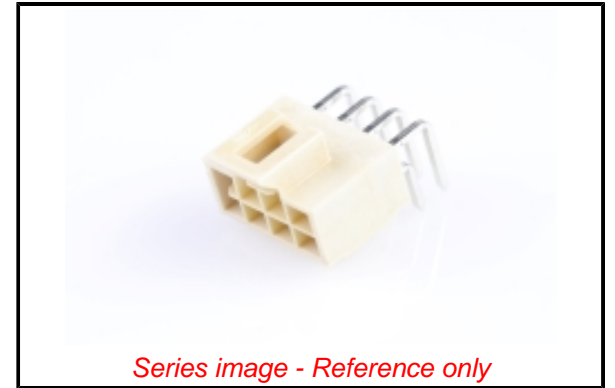
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                       |   |
|-----------------------|---|
| Product Family        | PCB Headers                               |
| Series                | <a href="#">105314</a>                    |
| Application           | Power, Wire-to-Board                      |
| Component Type        | PCB Header                                |
| Overview              | <a href="#">Nano-Fit Power Connectors</a> |
| Packaging Alternative | <a href="#">1053142608</a>                |
| Product Name          | Nano-Fit                                  |
| Taxonomy              | PCB Headers and Receptacles               |
| UPC                   | 887191928852                              |

**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                     | 0.900/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Right Angle            |
| PC Tail Length                 | 3.20mm                 |
| PCB Locator                    | Yes                    |
| PCB Retention                  | Yes                    |
| PCB Thickness - Recommended    | 1.60mm, 2.40mm         |
| Packaging Type                 | Tray                   |
| Pitch - Mating Interface       | 2.50mm                 |
| Pitch - Termination Interface  | 2.50mm                 |
| Plating min - Mating           | 0.762µm                |
| Plating min - Termination      | 1.524µm                |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[105314 Series](#)

**Mates With**

Nano-Fit Receptacle Housing [1053082208](#)

|                                |                |
|--------------------------------|----------------|
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |
| Shrouded                       | Yes            |
| Stackable                      | No             |
| Surface Mount Compatible (SMC) | Yes            |
| Temperature Range - Operating  | -40° to +115°C |
| Termination Interface: Style   | Through Hole   |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 7.5A             |
| Voltage - Maximum             | 250V AC (RMS)/DC |

**Material Info****Reference - Drawing Numbers**

|                           |   |
|---------------------------|---|
| Application Specification | AS-105300-100-001   |
| Packaging Specification   | PK-105309-200-000   |
| Product Specification     | 1053001000-PS-CH-000, 1053001000-PS-ES-000,<br>1053001000-PS-JP-000, 1053001000-PS-SK-000,<br>PS-105300-100-001 |
| Sales Drawing             | SD-105314-100-000   |
| Symbol/Footprint Data     | SYM-105314-XX08-001   |
| Test Summary              | 1053000000-TS-000   |

This document was generated on 02/07/2023

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