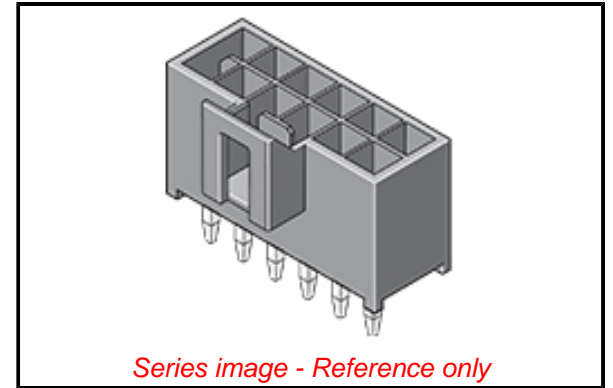


**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1053101108](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Kinked Pins, Tin (Sn) Plating, Black

**Documents:**

|   |  |
|---|--|
| <a href="#">3D Model</a>  | <a href="#">Test Summary 1053001000-TS-000 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                   | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Product Specification PS-105300-100-001 (PDF)</a>   | <a href="#">Product Literature (PDF)</a>             |
| <a href="#">Packaging Specification PK-105309-100-000 (PDF)</a> |  |



**Agency Certification**

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

**General**

|                             |   |
|-----------------------------|---|
| Product Family              | PCB Headers                               |
| Series                      | <a href="#">105310</a>                    |
| Application                 | Power, Wire-to-Board                      |
| Overview                    | <a href="#">Nano-Fit Power Connectors</a> |
| Product Literature Order No | 987651-1223                               |
| Product Name                | Nano-Fit                                  |
| UPC                         | 887191933474                              |

**Physical**

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 8                      |
| Circuits (maximum)             | 8                      |
| Color - Resin                  | Black                  |
| Durability (mating cycles max) | 25                     |
| Flammability                   | 94V-0                  |
| Glow-Wire Compliant            | No                     |
| Guide to Mating Part           | No                     |
| Keying to Mating Part          | Yes                    |
| Lock to Mating Part            | Yes                    |
| Material - Metal               | Brass                  |
| Material - Plating Mating      | Tin over Nickel        |
| Material - Plating Termination | Tin over Nickel        |
| Material - Resin               | Liquid Crystal Polymer |
| Net Weight                     | 0.750/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Vertical               |
| 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           | 1.524µm                |
| Plating min - Termination      | 1.524µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |
| Shrouded                       | Yes                    |
| Stackable                      | No                     |
| Surface Mount Compatible (SMC) | No                     |

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
ED/30/2017 (7 July  
2017)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[105310](#) Series

**Mates With**

Nano-Fit Receptacle Housing [105308](#)

Temperature Range - Operating -40°C to +105°C  
Termination Interface: Style Through Hole

**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification PK-105309-100-000  
Product Specification PS-105300-100-001  
Sales Drawing SD-105310-100-000  
Symbol/Footprint Data SYM-105310-XX08  
Test Summary 1053001000-TS-000

This document was generated on 11/15/2017

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