

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

**Part Number:** [1054052116](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable

**Documents:**

|  |   |
|--|---|
| <a href="#">3D Model (PDF)</a>                                   | <a href="#">Application Specification AS-105405-001-001 (PDF)</a> |
| <a href="#">3D Model</a>   | <a href="#">Packaging Specification PK-105405-004-000 (PDF)</a>   |
| <a href="#">Drawing (PDF)</a>                                    | <a href="#">Test Summary 1054050000-TS-000 (PDF)</a>              |
| <a href="#">Product Specification 1054051000-PS-CH-000 (PDF)</a> | <a href="#">Datasheet (PDF)</a>                                   |
| <a href="#">Product Specification 1054051000-PS-ES-000 (PDF)</a> | <a href="#">Symbol Footprint Data SYM-105405-XX16 (PDF)</a>       |
| <a href="#">Product Specification 1054051000-PS-SK-000 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |
| <a href="#">Product Specification PS-105405-001-001 (PDF)</a>    |   |

**General**

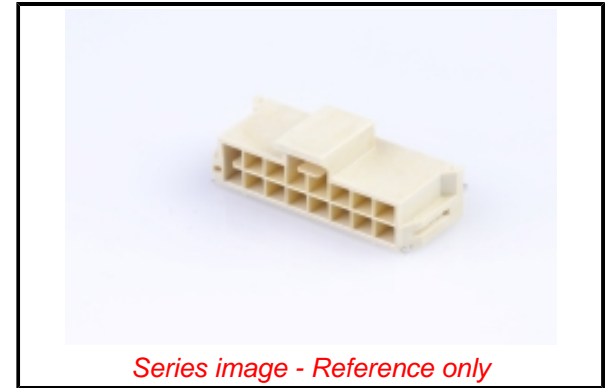
|                |   |
|----------------|---|
| Product Family | PCB Headers                               |
| Series         | 105405                                    |
| Application    | Power, Wire-to-Board                      |
| Overview       | <a href="#">Nano-Fit Power Connectors</a> |
| Product Name   | Nano-Fit                                  |
| UPC            | 889056259972                              |

**Physical**

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 16                     |
| Circuits (maximum)             | 16                     |
| Color - Resin                  | Natural                |
| Durability (mating cycles max) | 25                     |
| Glow-Wire Capable              | Yes                    |
| Keying to Mating Part          | Yes                    |
| Lock to Mating Part            | Yes                    |
| Material - Metal               | Brass                  |
| Material - Plating Mating      | Tin                    |
| Material - Plating Termination | Tin                    |
| Material - Resin               | Liquid Crystal Polymer |
| Net Weight                     | 1.960/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Right Angle            |
| PCB Locator                    | No                     |
| PCB Retention                  | Yes                    |
| PCB Thickness - Recommended    | 1.60mm                 |
| Packaging Type                 | Embossed Tape on Reel  |
| Pitch - Mating Interface       | 2.50mm                 |
| Pitch - Termination Interface  | 2.50mm                 |
| Plating min - Mating           | 0.762µm                |
| Plating min - Termination      | 0.762µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |
| Shrouded                       | Yes                    |
| Temperature Range - Operating  | -40° to +105°C         |
| Termination Interface: Style   | Surface Mount          |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 7.0A             |
| Voltage - Maximum             | 250V AC (RMS)/DC |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2020)4578-DC (25  
June 2020)

**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**

[105405 Series](#)

**Mates With**

Nano-Fit Receptacle Housing [1053082216](#)

## Material Info

### Reference - Drawing Numbers

|                           |  |
|---------------------------|--|
| Application Specification | AS-105405-001-001  |
| Packaging Specification   | PK-105405-004-000  |
| Product Specification     | 1054051000-PS-CH-000, 1054051000-PS-ES-000,<br>1054051000-PS-SK-000, PS-105405-001-001 |
| Sales Drawing             | SD-105405-001-000  |
| Symbol/Footprint Data     | SYM-105405-XX16  |
| Test Summary              | 1054050000-TS-000  |

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