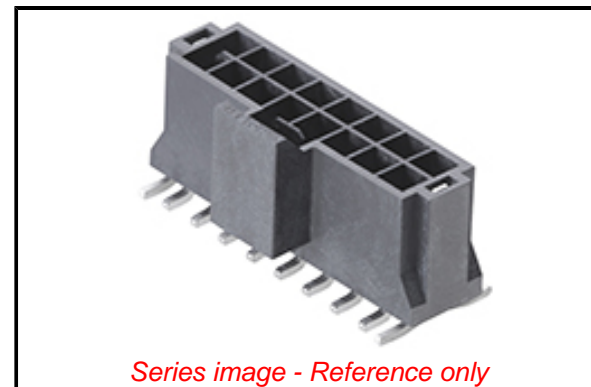


**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1054291108](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable

**Documents:**

|   |   |
|---|---|
| <a href="#">3D Model</a>  | <a href="#">Packaging Specification 1054291000-PK-000 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                     | <a href="#">Test Summary 1054050000-TS-000 (PDF)</a>            |
| <a href="#">Product Specification PS-105405-001-001 (PDF)</a>     | <a href="#">RoHS Certificate of Compliance (PDF)</a>            |
| <a href="#">Application Specification AS-105405-001-001 (PDF)</a> |   |



Series image - Reference only

**General**

|                      |   |
|----------------------|---|
| Product Family       | PCB Headers                               |
| Series               | <a href="#">105429</a>                    |
| 3D Viewer            | Yes                                       |
| Application          | Power, Wire-to-Board                      |
| CURRENT-MAX-NUMERIC  | 6.5                                       |
| Overview             | <a href="#">Nano-Fit Power Connectors</a> |
| PITCH-MATING-NUMERIC | 2.50                                      |
| Product Name         | Nano-Fit                                  |
| UPC                  | 191130010134                              |

**Physical**

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 8                      |
| Circuits (maximum)             | 8                      |
| Color - Resin                  | Black                  |
| Durability (mating cycles max) | 50                     |
| Glow-Wire Capable              | Yes                    |
| 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                     | 1.146/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Vertical               |
| PCB Locator                    | No                     |
| 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               | No                     |
| Temperature Range - Operating  | -40° to +115°C         |
| Termination Interface: Style   | Surface Mount          |

**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/88/2018 (15  
January 2019)

**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**

[105429](#) Series

**Mates With**

Nano-Fit Receptacle Housing [105308](#)

**Use With**

Nano-Fit Crimp Terminal [105300](#)

Application Specification  
Packaging Specification  
Product Specification  
Sales Drawing  
Test Summary

AS-105405-001-001  
1054291000-PK-000  
PS-105405-001-001  
SD-105429-001-000  
1054050000-TS-000

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