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**Part Number:** [1053091303](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 3 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable

**Documents:**

|                                                                  |                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------|
| <a href="#">3D Model</a>                                         | <a href="#">Product Specification PS-105300-100-001 (PDF)</a>     |
| <a href="#">3D Model (PDF)</a>                                   | <a href="#">Application Specification AS-105300-100-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                    | <a href="#">Packaging Specification PK-105309-300-000 (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="#">Symbol Footprint Data SYM-105309-XX03 (PDF)</a>       |
| <a href="#">Product Specification 1053001000-PS-JP-000 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |
| <a href="#">Product Specification 1053001000-PS-SK-000 (PDF)</a> | <a href="#">Product Literature (PDF)</a>                          |

**Agency Certification**

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

**General**

|                |                                           |
|----------------|-------------------------------------------|
| Product Family | PCB Headers                               |
| Series         | <a href="#">105309</a>                    |
| Application    | Power, Wire-to-Board                      |
| Overview       | <a href="#">Nano-Fit Power Connectors</a> |
| Product Name   | Nano-Fit                                  |
| UPC            | 889056000338                              |

**Physical**

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 3                      |
| Circuits (maximum)             | 3                      |
| Color - Resin                  | Black                  |
| 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                     | 0.370/g                |
| Number of Rows                 | 1                      |
| 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           | 0.762µm                |
| Plating min - Termination      | 1.524µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |
| Shrouded                       | Yes                    |



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**

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

**Search Parts in this Series**

[105309](#) Series

**Mates With**

Nano-Fit Receptacle Housing [1053071203](#)

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Stackable                          | No                                                                                                              |
| Surface Mount Compatible (SMC)     | No                                                                                                              |
| Temperature Range - Operating      | -40° to +115°C                                                                                                  |
| Termination Interface: Style       | Through Hole                                                                                                    |
| <b>Electrical</b>                  |                                                                                                                 |
| Current - Maximum per Contact      | 8.0A                                                                                                            |
| Voltage - Maximum                  | 300V                                                                                                            |
| <b>Material Info</b>               |                                                                                                                 |
| <b>Reference - Drawing Numbers</b> |                                                                                                                 |
| Application Specification          | AS-105300-100-001                                                                                               |
| Packaging Specification            | PK-105309-300-000                                                                                               |
| 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-105309-100-000                                                                                               |
| Symbol/Footprint Data              | SYM-105309-XX03                                                                                                 |
| Test Summary                       | 1053000000-TS-000                                                                                               |

This document was generated on 07/31/2020

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