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**Part Number:** [1053101212](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray

**Documents:**

|                                                                  |                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------|
| <a href="#">3D Model</a>                                         | <a href="#">Product Specification PS-105300-100-001 (PDF)</a>     |
| <a href="#">Drawing (PDF)</a>                                    | <a href="#">Application Specification AS-105300-100-001 (PDF)</a> |
| <a href="#">3D Model (PDF)</a>                                   | <a href="#">Packaging Specification PK-105309-100-000 (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-105310-XX12-001 (PDF)</a>   |
| <a href="#">Product Specification 1053001000-PS-SK-000 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |

**Agency Certification**

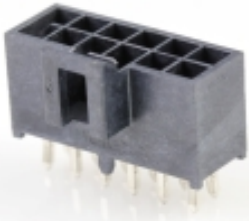
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                       |                                           |
|-----------------------|-------------------------------------------|
| Product Family        | PCB Headers                               |
| Series                | <a href="#">105310</a>                    |
| Application           | Power, Wire-to-Board                      |
| Overview              | <a href="#">Nano-Fit Power Connectors</a> |
| Packaging Alternative | <a href="#">1053103712</a>                |
| Product Name          | Nano-Fit                                  |
| UPC                   | 887191933566                              |

**Physical**

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 12                     |
| Circuits (maximum)             | 12                     |
| 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                     | 1.070/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           | 0.381µm                |
| Plating min - Termination      | 1.524µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |



Series image - Reference only

**EU ELV**  
**Compliant**

**EU RoHS**  
**Compliant**  
**REACH SVHC**  
Not Contained Per -  
D(2021)4569-DC (8  
July 2021)  
**Halogen-Free**  
**Status**  
**Low-Halogen**

**China RoHS**

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

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

**Search Parts in this Series**  
[105310](#) Series

**Mates With**  
Nano-Fit Receptacle Housing [1053081212](#)

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Shrouded                           | Yes                                                                                                             |
| 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      | 7.5A                                                                                                            |
| Voltage - Maximum                  | 250V AC (RMS)/DC                                                                                                |
| <b>Material Info</b>               |                                                                                                                 |
| <b>Reference - Drawing Numbers</b> |                                                                                                                 |
| Application Specification          | AS-105300-100-001                                                                                               |
| Packaging Specification            | PK-105309-100-000                                                                                               |
| 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-105310-100-000                                                                                               |
| Symbol/Footprint Data              | SYM-105310-XX12-001                                                                                             |
| Test Summary                       | 1053000000-TS-000                                                                                               |

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