



**Part Number :** [1053081206](#)

**Product Description :** Nano-Fit Receptacle Housing,  
TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits,  
Black, Glow-Wire Capable

**Series Number :** 105308

**Status :** Active

**Product Category :** Connector Housings



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## Documents & Resources

### Drawings

[1053081206\\_sd.pdf](#)

[PK-105308-100-000.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

### Specifications

[AS-105300-100-001.pdf](#)

[1053001000-PS-CH-000.pdf](#)

[1053001000-PS-ES-000.pdf](#)

[1053001000-PS-JP-000.pdf](#)

[1053001000-PS-SK-000.pdf](#)

[PS-105300-100-001.pdf](#)


[1053000000-TS-000.pdf](#)

[1053001000-TS-000.pdf](#)

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## Product Environment Compliance

### Compliance

|            |  |
|------------|--|
| GADSL/IMDS | Not Relevant   |
| China RoHS | <br>per SJ/T 11365-2006 |
| EU ELV     | Not Relevant   |

|                    |  |
|--------------------|--|
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                     |
| REACH SVHC         | Not Contained per D(2025)4165-DC<br>(25 June 2025) |
| EU RoHS            | Compliant per EU 2015/863                          |

#### Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

#### Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### Substances of Interest

- PFAS

#### EU RoHS Certificate of Compliance

#### Additional Product Compliance Information

## Part Details

### General

|              |  |
|--------------|--|
| Status       | Active   |
| Category     | Connector Housings   |
| Series       | 105308   |
| Description  | Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits, Black, Glow-Wire Capable |
| Application  | Power, Wire-to-Board, Wire-to-Wire   |
| Product Name | Nano-Fit   |
| UPC          | 889056023726   |

### Agency

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

### Physical

|                               |                |
|-------------------------------|----------------|
| Circuits (maximum)            | 6              |
| Color - Resin                 | Black          |
| Flammability                  | 94V-0          |
| Gender                        | Receptacle     |
| Glow-Wire Capable             | Yes            |
| Keying to Mating Part         | Yes            |
| Lock to Mating Part           | Yes            |
| Material - Resin              | Nylon          |
| Net Weight                    | 0.610/g        |
| Number of Rows                | 2              |
| Packaging Type                | Bag            |
| Panel Mount                   | No             |
| Pitch - Mating Interface      | 2.50mm         |
| Pitch - Termination Interface | 2.50mm         |
| Polarized to Mating Part      | Yes            |
| Temperature Range - Operating | -40° to +125°C |

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## Mates With / Use With

### Mates with Part(s)

| Description  | Part Number                       |
|--|-----------------------------------|
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray         | <a href="#"><u>1053101106</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053101206</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053101306</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6  | <a href="#"><u>1053101406</u></a> |

|   |                                   |
|---|-----------------------------------|
| Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray  |                                   |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Solder Clips, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray                     | <a href="#"><u>1053121106</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray             | <a href="#"><u>1053121206</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray             | <a href="#"><u>1053121306</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053121406</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray                                     | <a href="#"><u>1053141106</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray                             | <a href="#"><u>1053141206</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray                             | <a href="#"><u>1053141306</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray                 | <a href="#"><u>1053141406</u></a> |
| Nano-Fit Vertical Header, Surface   | <a href="#"><u>1054291106</u></a> |

|   |                                   |
|---|-----------------------------------|
| Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable  |                                   |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable             | <a href="#"><u>1054291206</u></a> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable             | <a href="#"><u>1054291306</u></a> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable | <a href="#"><u>1054291406</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable           | <a href="#"><u>1054051106</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable          | <a href="#"><u>1054051206</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 6 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable          | <a href="#"><u>1054051306</u></a> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits, Black, Glow-Wire Capable  | <a href="#"><u>2014441106</u></a> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits, Black, Panel Mount, Glow-Wire Capable                               | <a href="#"><u>2014441206</u></a> |
| Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits, Black, Glow-Wire Capable  | <a href="#"><u>2245561106</u></a> |
| Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 6 Circuits, Black, Panel Mount, Glow-Wire Capable                           | <a href="#"><u>2245561206</u></a> |

## Use with Part(s)

| Description   | Part Number       |
|---|-------------------|
| Nano-Fit Connector Position Assurance (CPA) Retainer, UL 94V-0, Red   | <u>2171401000</u> |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 150.00mm Length, 20 AWG, Black      | <u>797582129</u>  |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 300.00mm Length, 20 AWG, Black      | <u>797582130</u>  |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 150.00mm Length, 20 AWG, Black | <u>797582139</u>  |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 300.00mm Length, 20 AWG, Black | <u>797582140</u>  |
| Nano-Fit Female Crimp Terminals   | <u>105300</u>     |
| Nano-Fit Terminal Position Assurance (TPA) Retainers  | <u>105325</u>     |

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## Application Tooling

### Global

| Description   | Part Number      |
|---|------------------|
| Extraction Tool for Nano-Fit Power Connectors/Terminals and DuraClik Robust Connectors/Terminals, 26-20 AWG and 0.30-0.50mm <sup>2</sup> Wire | <u>638244600</u> |