



**Part Number :** [1053071202](#)

**Product Description :** Nano-Fit Receptacle Housing,  
TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits,  
Black, Glow-Wire Capable

**Series Number :** 105307

**Status :** Active

**Product Category :** Connector Housings



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## Documents and Resources

### Drawings

[1053071202\\_sd.pdf](#)

[PK-105307-100-000.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 |  per SJ/T 11365-2006 |
| EU ELV     | Compliant per 2000/53/EC                                                                                |

|                    |                                                |
|--------------------|------------------------------------------------|
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                 |
| REACH SVHC         | Not Contained per D(2025)7771-DC (04 Feb 2026) |
| 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

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**Part Details**

**General**

|              |                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------|
| Status       | Active                                                                                                   |
| Category     | Connector Housings                                                                                       |
| Series       | 105307                                                                                                   |
| Description  | Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Black, Glow-Wire Capable |
| Application  | Power, Wire-to-Board, Wire-to-Wire                                                                       |
| Product Name | Nano-Fit                                                                                                 |
| UPC          | 889056026437                                                                                             |

**Agency**

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

## Physical

|                               |                |
|-------------------------------|----------------|
| Circuits (maximum)            | 2              |
| Color - Resin                 | Black          |
| Gender                        | Receptacle     |
| Glow-Wire Capable             | Yes            |
| Keying to Mating Part         | Yes            |
| Lock to Mating Part           | Yes            |
| Material - Resin              | Nylon          |
| Net Weight                    | 0.374/g        |
| Number of Rows                | 1              |
| 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 Test Plug, Dual Row, 4 Circuits                                                                                                                 | <a href="#"><u>2251481104</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray         | <a href="#"><u>1053091102</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053091202</u></a> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053091302</u></a> |

|                                                                                                                                                                                      |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Single Row, 2 Circuits, with Kinked<br>Pins, 0.76µm Gold (Au) Plating,<br>Lubricated, Black, Glow-Wire<br>Capable, Tray  | <u>1053091402</u> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Single Row, 2 Circuits, with Solder<br>Clips, Tin (Sn) Plating, Black, Glow-<br>Wire Capable, Tray                       | <u>1053111102</u> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Single Row, 2 Circuits, with Solder<br>Clips, 0.38µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                | <u>1053111202</u> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Single Row, 2 Circuits, with Solder<br>Clips, 0.76µm Gold (Au) Plating,<br>Black, Glow-Wire Capable, Tray                | <u>1053111302</u> |
| Nano-Fit Vertical Header,<br>Through Hole, 2.50mm Pitch,<br>Single Row, 2 Circuits, with Solder<br>Clips, 0.76µm Gold (Au) Plating,<br>Lubricated, Black, Glow-Wire<br>Capable, Tray | <u>1053111402</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Single Row,<br>2 Circuits, 0.76µm Tin (Sn) Plating,<br>with Pick-and-Place Tape, Black,<br>Glow-Wire Capable               | <u>1054311102</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Single Row,<br>2 Circuits, 0.38µm Gold (Au)<br>Plating, with Pick-and-Place Tape,<br>Black, Glow-Wire Capable              | <u>1054311202</u> |
| Nano-Fit Vertical Header, Surface<br>Mount, 2.50mm Pitch, Single Row,<br>2 Circuits, 0.76µm Gold (Au)<br>Plating, with Pick-and-Place Tape,<br>Black, Glow-Wire Capable              | <u>1054311302</u> |
| Nano-Fit Vertical Header, Surface                                                                                                                                                    | <u>1054311402</u> |

|                                                                                                                                                       |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Mount, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Tape, Lubricated, Black, Glow-Wire Capable                 |                                   |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray                     | <a href="#"><u>1053131102</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray             | <a href="#"><u>1053131202</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray             | <a href="#"><u>1053131302</u></a> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray | <a href="#"><u>1053131402</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable                   | <a href="#"><u>1054301102</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 2 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable                  | <a href="#"><u>1054301202</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable                  | <a href="#"><u>1054301302</u></a> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 2 Circuits, 0.76µm                                                              | <a href="#"><u>1054301402</u></a> |

|                                                                                                                 |                                   |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable                                                         |                                   |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Black, Glow-Wire Capable              | <a href="#"><u>2002771102</u></a> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Single Row, 2 Circuits, Black, Panel Mount, Glow-Wire Capable | <a href="#"><u>2002771202</u></a> |

### Use with Part(s)

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

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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> |