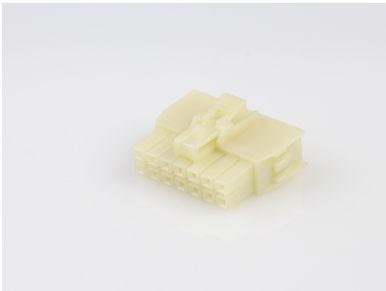




**Part Number :** [1053082214](#)  
**Product Description :** Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 14 Circuits, Natural, Glow-Wire Capable  
**Series Number :** 105308  
**Status :** Active  
**Product Category :** Connector Housings



## Documents & Resources

### Drawings

[Drawing 1053082214\\_sd.pdf](#)  
[Packaging Design Drawing PK-105308-100-000.pdf](#)

### 3D Models and Design Files

[3D Model 1053082214\\_stp.zip](#)

### Specifications

[Application Specification AS-105300-100-001.pdf](#)  
[Product Specification 1053001000-PS-CH-000.pdf](#)  
[Product Specification 1053001000-PS-ES-000.pdf](#)  
[Product Specification 1053001000-PS-JP-000.pdf](#)  
[Product Specification 1053001000-PS-SK-000.pdf](#)  
[Product Specification PS-105300-100-001.pdf](#)  
[Test Summary 1053000000-TS-000.pdf](#)  
[Test Summary 1053001000-TS-000.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                          |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                        |
| REACH SVHC         | Not Contained per D(2023)3788-DC (14 Jun 2023)                                        |
| EU RoHS            | Compliant per EU 2015/863                                                             |

[Multiple Part Product Compliance Statements](#)  
- Eu RoHS

- REACH SVHC

- Low-Halogen

#### Multiple Part Industry Compliance Documents

- IPC 1752A Class C

- IPC 1752A Class D

- Molex Product Compliance Declaration

- IEC-62474

- chemSHERPA (xml)

#### EU RoHS Certificate of Compliance

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## Part Details

### General

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                    |
| Category       | Connector Housings                                                                                        |
| Series         | 105308                                                                                                    |
| Description    | Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 14 Circuits, Natural, Glow-Wire Capable |
| Application    | Power, Wire-to-Board                                                                                      |
| Comments       | Operating temperature is -40° to +105° for tin and -40° to +115° for gold                                 |
| Product Family | Nano-Fit Power Connectors                                                                                 |
| Product Name   | Nano-Fit                                                                                                  |
| UPC            | 889056023900                                                                                              |

### Agency

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

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 6.5A |
|-------------------------------|------|

### Physical

|                    |         |
|--------------------|---------|
| Circuits (maximum) | 14      |
| Color - Resin      | Natural |

|                               |                                |
|-------------------------------|--------------------------------|
| Flammability                  | 94V-0                          |
| Gender                        | Receptacle                     |
| Glow-Wire Capable             | Yes                            |
| Keying to Mating Part         | Yes                            |
| Lock to Mating Part           | Yes                            |
| Material - Resin              | Nylon                          |
| Net Weight                    | 1.190/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 +105°C, -40° to +115°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, 14 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray          | <u>1053102114</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray  | <u>1053102214</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray  | <u>1053102314</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray         | <u>1053122114</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053122214</u> |

|                                                                                                                                                            |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053122314</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray                         | <u>1053142114</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray                 | <u>1053142214</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray                 | <u>1053142314</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable                          | <u>1054292114</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable                         | <u>1054292214</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable                         | <u>1054292314</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable             | <u>1054292414</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable                       | <u>1054052114</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable                      | <u>1054052214</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 14 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable                      | <u>1054052314</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 14 Circuits, Natural, Glow-Wire Capable                                                        | <u>2014442114</u> |

|                                                                                                                  |                   |
|------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 14 Circuits, Natural, Panel Mount, Glow-Wire Capable | <u>2014442214</u> |
|------------------------------------------------------------------------------------------------------------------|-------------------|

#### Use with Part(s)

| Description                                                                                                 | Part Number                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 150.00mm Length, 20 AWG, Black      | <a href="/content/molex/molex-dot-com/us/en/products/product-page.html/797582129.html">/content/molex/molex-dot-com/us/en/products/product-page.html/797582129.html</a> |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 300.00mm Length, 20 AWG, Black      | <a href="/content/molex/molex-dot-com/us/en/products/product-page.html/797582130.html">/content/molex/molex-dot-com/us/en/products/product-page.html/797582130.html</a> |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 150.00mm Length, 20 AWG, Black | <a href="/content/molex/molex-dot-com/us/en/products/product-page.html/797582139.html">/content/molex/molex-dot-com/us/en/products/product-page.html/797582139.html</a> |
| Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 300.00mm Length, 20 AWG, Black | <a href="/content/molex/molex-dot-com/us/en/products/product-page.html/797582140.html">/content/molex/molex-dot-com/us/en/products/product-page.html/797582140.html</a> |
| Nano-Fit Female Crimp Terminals                                                                             | <u>105300</u>                                                                                                                                                           |
| Nano-Fit Terminal Position Assurance (TPA) Retainers                                                        | <u>105325</u>                                                                                                                                                           |