



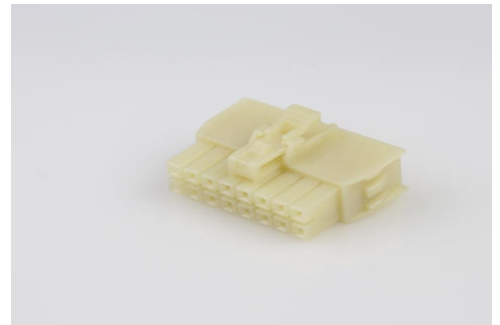
Part Number : [1053082216](#)

Product Description : Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Natural, Glow-Wire Capable

Series Number : 105308

Status : Active

Product Category : Connector Housings



Documents & Resources

Drawings

[1053082216_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](#)

Product Environment Compliance

Compliance

| | |
|------------|--|
| GADSL/IMDS | Not Relevant |
| China RoHS |  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 (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, 16 Circuits, Natural, Glow-Wire Capable |
| Application | Power, Wire-to-Board, Wire-to-Wire |
| Product Name | Nano-Fit |
| UPC | 889056023917 |

Agency

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

Physical

| | |
|-------------------------------|----------------|
| Circuits (maximum) | 16 |
| 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 | 1.463/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 |

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|---|-----------------------------------|
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray | <u>1053102116</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053102216</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053102316</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 | <u>1053102416</u> |

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|--|-------------------|
| Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray | |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray | <u>1053122116</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053122216</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053122316</u> |
| Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray | <u>1053122416</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray | <u>1053142116</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053142216</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray | <u>1053142316</u> |
| Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray | <u>1053142416</u> |
| Nano-Fit Vertical Header, Surface | <u>1054292116</u> |

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|--|-------------------|
| Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable | |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable | <u>1054292216</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable | <u>1054292316</u> |
| Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable | <u>1054292416</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable | <u>1054052116</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable | <u>1054052216</u> |
| Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable | <u>1054052316</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Natural, Glow-Wire Capable | <u>2014442116</u> |
| Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Natural, Panel Mount, Glow-Wire Capable | <u>2014442216</u> |
| Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Natural, Glow-Wire Capable | <u>2245561316</u> |
| Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Natural, Panel Mount, | <u>2245561416</u> |

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| Glow-Wire Capable | |
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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> |

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 ² Wire | <u>638244600</u> |