



**Part Number :** [1053082212](#)  
**Product Description :** Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Glow-Wire Capable  
**Series Number :** 105308  
**Status :** Active  
**Product Category :** Connector Housings



## Documents & Resources


**Drawings**  
[1053082212\\_sd.pdf](#)  
[PK-105308-100-000.pdf](#)

**3D Models and Design Files**  
[1053082212\\_stp.zip](#)

**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	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)7663-DC (21 Jan 2025)
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, 12 Circuits, Natural, Glow-Wire Capable
Application	Power, Wire-to-Board, Wire-to-Wire
Product Name	Nano-Fit
UPC	889056023894

### Agency

CSA	LR19980
UL	E29179

### Physical

Circuits (maximum)	12
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	1.050/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, 12 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102112</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102212</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102312</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	<u>1053102412</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122112</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122212</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122312</u>

Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	<u>1053122412</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142112</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142212</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142312</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	<u>1053142412</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	<u>1054292112</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054292212</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054292312</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable	<u>1054292412</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	<u>1054052112</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054052212</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054052312</u>

Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Glow-Wire Capable	<u>2014442112</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Panel Mount, Glow-Wire Capable	<u>2014442212</u>
Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Glow-Wire Capable	<u>2245561312</u>
Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Panel Mount, Glow-Wire Capable	<u>2245561412</u>

### 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
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Extraction Tool for Nano-Fit Power Connectors and Crimp Terminals, 26-20 AWG	<u>638244600</u>
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