



Part Number : [1053081216](#)

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

Series Number : 105308

Status : Active

Product Category : Connector Housings



Documents and Resources

Drawings

[1053081216_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	Compliant with Exemption 44; 34; 33
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

Part Details

General

Status	Active
Category	Connector Housings
Series	105308
Description	Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Black, Glow-Wire Capable
Application	Power, Wire-to-Board, Wire-to-Wire
Product Name	Nano-Fit
UPC	889056023771

Agency

CSA	LR19980
UL	E29179

Physical

Circuits (maximum)	16
Color - Resin	Black
Gender	Receptacle
Glow-Wire Capable	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Nylon
Net Weight	1.325/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 Test Plug, Dual Row, 16 Circuits	<u>2251481116</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray	<u>1053101116</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053101216</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053101316</u>

Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	<u>1053101416</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, Tin (Sn) Plating, Black, Glow- Wire Capable, Tray	<u>1053121116</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053121216</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray	<u>1053121316</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	<u>1053121416</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray	<u>1053141116</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Black, Glow- Wire Capable, Tray	<u>1053141216</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Black, Glow- Wire Capable, Tray	<u>1053141316</u>
Nano-Fit Right-Angle Header,	<u>1053141416</u>

Through Hole, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow-Wire Capable, Tray	
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable	<u>1054291116</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable	<u>1054291216</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable	<u>1054291316</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Black, Glow- Wire Capable	<u>1054291416</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable	<u>1054051116</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.38µm Gold (Au) Plating, Black, Glow- Wire Capable	<u>1054051216</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 16 Circuits, 0.76µm Gold (Au) Plating, Black, Glow- Wire Capable	<u>1054051316</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Black, Glow-Wire Capable	<u>2014441116</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Black, Panel	<u>2014441216</u>

Mount, Glow-Wire Capable	
Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Black, Glow-Wire Capable	<u>2245561116</u>
Nano-Fit BMI Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 16 Circuits, Black, Panel Mount, Glow-Wire Capable	<u>2245561216</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/Terminals and DuraClik Robust Connectors/ Terminals, 26-20 AWG and 0.30-0.50mm ² Wire	<u>638244600</u>
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