



Part Number : [1053082208](#)
Product Description : Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 8 Circuits, Natural, Glow-Wire Capable
Series Number : 105308
Status : Active
Product Category : Connector Housings



Documents & Resources

Drawings

[Drawing 1053082208_sd.pdf](#)
[Packaging Design Drawing PK-105308-100-000.pdf](#)

3D Models and Design Files

[3D Model 1053082208_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

Part Details

General

Status	Active
Category	Connector Housings
Series	105308
Description	Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 8 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	889056023870

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	6.5A
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Physical

Circuits (maximum)	8
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	0.750/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

Mates With / Use With

Mates with Part(s)

Description	Part Number
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102108</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102208</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053102308</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122108</u>
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122208</u>

Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053122308</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142108</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142208</u>
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	<u>1053142308</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	<u>1054292108</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054292208</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054292308</u>
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable	<u>1054292408</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	<u>1054052108</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054052208</u>
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	<u>1054052308</u>
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 8 Circuits, Natural, Glow-Wire Capable	<u>2014442108</u>

Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 8 Circuits, Natural, Panel Mount, Glow-Wire Capable	<u>2014442208</u>
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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	/content/molex/molex-dot-com/us/en/products/product-page.html/797582129.html
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 300.00mm Length, 20 AWG, Black	/content/molex/molex-dot-com/us/en/products/product-page.html/797582130.html
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 150.00mm Length, 20 AWG, Black	/content/molex/molex-dot-com/us/en/products/product-page.html/797582139.html
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 300.00mm Length, 20 AWG, Black	/content/molex/molex-dot-com/us/en/products/product-page.html/797582140.html
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 and Crimp Terminals, 20-26 AWG	<u>0638244600</u>