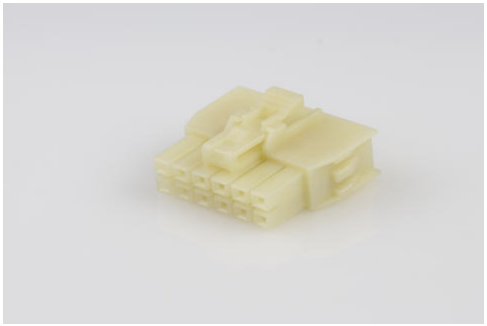
molex



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 and Resources

Drawings

1053082212_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

Downloaded from Arrow.com.

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, 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

Downloaded from Arrow.com.

Physical

Circuits (maximum)	12
Color - Resin	Natural
Gender	Receptacle
Glow-Wire Capable	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Nylon
Net Weight	1.046/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, 12 Circuits	2251481112
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053102112
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	1053102212
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	1053102312

Downloaded from Arrow.com.

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	1053102412
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053122112
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	1053122212
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	1053122312
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	1053122412
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053142112
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053142212
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053142312
Nano-Fit Right-Angle Header,	1053142412

Downloaded from Arrow.com.

Through Hole, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row,12 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	1054292112
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054292212
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054292312
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable	1054292412
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	1054052112
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054052212
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054052312
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Natural, Glow-Wire Capable	2014442112

Downloaded from Arrow.com.

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

Use with Part(s)

Description	Part Number
Nano-Fit Connector Position Assurance (CPA) Retainer, UL 94V-0, Red	2171401000
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 150.00mm Length, 20 AWG, Black	797582129
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Gold (Au) Plating, 300.00mm Length, 20 AWG, Black	797582130
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 150.00mm Length, 20 AWG, Black	797582139
Pre-Crimped Lead Nano-Fit Female-to-Nano-Fit Female, Matte Tin (Sn) Plating, 300.00mm Length, 20 AWG, Black	797582140
Nano-Fit Female Crimp Terminals	105300
Nano-Fit Terminal Position Assurance (TPA) Retainers	105325

Application Tooling

Downloaded from Arrow.com.

Global

Description	Part Number
Extraction Tool for Nano-Fit Power Connectors/Terminals and DuraClik Robust Connectors/ Terminals, 26-20 AWG and 0.30-0.50mm2 Wire	638244600

Downloaded from Arrow.com.