molex



Part Number : 1053072205
Product Description : Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Glow-Wire Capable
Series Number : 105307
Status : Active
Product Category : Connector Housings

Documents and Resources

Drawings

1053072205_sd.pdf

PK-105307-100-000.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)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	105307
Description	Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Glow-Wire Capable
Application	Wire-to-Board, Wire-to-Wire
Component Type	Receptacle
Product Name	Nano-Fit
UPC	889056026628

Agency

CSA	LR19980
UL	E29179

Physical

Circuits (maximum)	5
Color - Resin	Natural
Gender	Receptacle
Glow-Wire Capable	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Nylon
Net Weight	0.550/g
Number of Rows	1
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, 10 Circuits	2251481110
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Kinked Pins, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053092105
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053092205
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053092305
Nano-Fit Vertical Header,	1053092405

Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Kinked Pins, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Solder Clips, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053112105
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053112205
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053112305
Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Solder Clips, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	1053112405
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Tin (Sn) Plating, with Pick-and-Place Tape, Natural, Glow-Wire Capable	1054312105
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.38µm Gold (Au) Plating, with Pick-and-Place Tape, Natural, Glow-Wire Capable	1054312205
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Tape, Natural, Glow-Wire Capable	1054312305
Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Single Row,	1054312405

5 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Tape, Lubricated, Natural, Glow-Wire Capable	
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, Tin (Sn) Plating, Natural, Glow-Wire Capable, Tray	1053132105
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053132205
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable, Tray	1053132305
Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, Lubricated, Natural, Glow-Wire Capable, Tray	1053132405
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Tin (Sn) Plating, Natural, Glow-Wire Capable	1054302105
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.38µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054302205
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, Natural, Glow-Wire Capable	1054302305
Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Single Row, 5 Circuits, 0.76µm Gold (Au) Plating, Lubricated,	1054302405

Natural, Glow-Wire Capable	
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Glow-Wire Capable	2002772105
Nano-Fit Plug Housing, TPA Capable, 2.50mm Pitch, Single Row, 5 Circuits, Natural, Panel Mount, Glow-Wire Capable	2002772205

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

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