molex



Part Number : 1053091106
Product Description : Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 6 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray
Series Number : 105309
Status : Active
Product Category : PCB Headers and Receptacles
Packaging Alternative : 1053093506 (Embossed Tape on Reel)

Documents and Resources

Drawings

1053091106_sd.pdf

PK-105309-300-000.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-105309-XX06-001.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

1053001000-TS-000.pdf

Product Environment Compliance

Compliance

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GADSL/IMDS	Compliant with Exemption 44; 33
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	PCB Headers and Receptacles
Series	105309
Description	Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 6 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray
Application	Wire-to-Board
Component Type	PCB Header
Product Name	Nano-Fit
UPC	887191937403

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Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	8.0A
Voltage - Maximum	250V AC (RMS)/DC

Physical

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	25
First Mate / Last Break	No
Gender	Male
Glow-Wire Capable	Yes
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Liquid Crystal Polymer (LCP)
Mounting Style	Through Hole
Net Weight	0.670/g
Number of Rows	1
Orientation	Vertical
Packaging Type	Tray
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm, 2.40mm
PC Tail Length	3.20mm
Pitch - Mating Interface	2.50mm
Pitch - Termination Interface	2.50mm

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Plating min - Mating	1.524µm
Plating min - Termination	1.524µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Shrouded
Stackable	No
Temperature Range - Operating	-40° to +125°C
Termination Interface Style	Through Hole

Mates With / Use With

Mates with Part(s)

Description	Part Number
Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 6 Circuits, Black, Glow-Wire Capable	1053071206
Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Single Row, 6 Circuits, Black, Glow-Wire Capable, for UL 1569/1007 Wire	2263541206
Nano-Fit-to-Nano-Fit Single Row Off-the-Shelf (OTS) Cable Assemblies	145130

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