



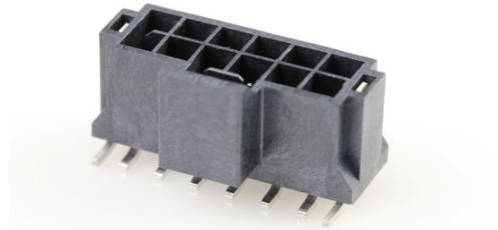
Part Number : [1054291112](#)

Product Description : Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable

Series Number : 105429

Status : Active

Product Category : PCB Headers and Receptacles



Documents and Resources

Drawings

[1054291112_sd.pdf](#)

[1054291000-PK-000.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

Specifications

[AS-105405-001-001.pdf](#)

[1054051000-PS-CH-000.pdf](#)

[1054051000-PS-ES-000.pdf](#)


[1054051000-PS-SK-000.pdf](#)

[PS-105405-001-001.pdf](#)

[1054051000-TS-000.pdf](#)

Product Environment Compliance

Compliance

| | |
|------------|---|
| GADSL/IMDS | Compliant with Exemption 44; 34; 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 | 105429 |
| Description | Nano-Fit Vertical Header, Surface Mount, 2.50mm Pitch, Dual Row, 12 Circuits, 0.76µm Tin (Sn) Plating, Black, Glow-Wire Capable |
| Application | Wire-to-Board |
| Component Type | PCB Header |
| Product Name | Nano-Fit |
| UPC | 191130010158 |

Agency

| | |
|----|--------|
| UL | E29179 |
|----|--------|

Electrical

| | |
|-------------------------------|------------------|
| Current - Maximum per Contact | 7.0A |
| Voltage - Maximum | 250V AC (RMS)/DC |

Physical

| | |
|--------------------------------|------------------------------|
| Breakaway | No |
| Circuits (Loaded) | 12 |
| Circuits (maximum) | 12 |
| Color - Resin | Black |
| Durability (mating cycles max) | 50 |
| First Mate / Last Break | No |
| Flammability | 94V-0 |
| Gender | Male |
| Glow-Wire Capable | Yes |
| 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) |
| Net Weight | 1.540/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| Packaging Type | Embossed Tape on Reel |
| PCB Locator | No |
| PCB Thickness - Recommended | 1.60mm |
| Pitch - Mating Interface | 2.50mm |
| Pitch - Termination Interface | 2.50mm |
| Plating min - Mating | 0.762µm |
| Plating min - Termination | 0.762µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Temperature Range - Operating | -40° to +125°C |
| Termination Interface Style | Surface Mount |

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|--|-------------------|
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Black, Glow-Wire Capable | <u>1053081212</u> |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 12 Circuits, Black, Glow-Wire Capable, for UL 1569/1007 Wire | <u>2263621212</u> |

This document was generated on May 20, 2026