



**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

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## Documents & 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](#)

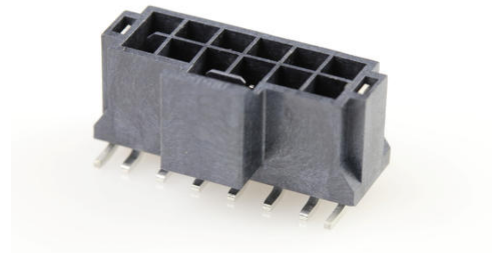
[1054051000-TS-000.pdf](#)

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## Product Environment Compliance

### Compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS | Compliant with Exemption 44; 34; 33                                                                          |
| China RoHS | <br>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(2024)7663-DC<br>(21 Jan 2025) |
| 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

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**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    | Power, 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                     |
| 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 |
| 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          |

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## 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> |