



**Part Number :** [1054051308](#)

**Product Description :** Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable

**Series Number :** 105405

**Status :** Active

**Product Category :** PCB Headers and Receptacles



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## Documents & Resources

### Drawings

[1054051308\\_sd.pdf](#)

[PK-105405-003-000.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

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

[SYM-105405-XX08-001.zip](#)

### 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](#)

[1054050000-TS-000.pdf](#)

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## Product Environment Compliance

### Compliance

|            |  |
|------------|--|
| GADSL/IMDS | Not Relevant   |
| 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

## Part Details

### General

|                |  |
|----------------|--|
| Status         | Active   |
| Category       | PCB Headers and Receptacles  |
| Series         | 105405   |
| Description    | Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 8 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable |
| Application    | Power, Wire-to-Board   |
| Component Type | PCB Header   |
| Product Name   | Nano-Fit   |
| UPC            | 889056259859   |

### Agency

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

### Electrical

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

## Physical

|                                |                        |
|--------------------------------|------------------------|
| Breakaway                      | No                     |
| Circuits (Loaded)              | 8                      |
| Circuits (maximum)             | 8                      |
| 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      | Gold                   |
| Material - Plating Termination | Tin                    |
| Material - Resin               | Liquid Crystal Polymer |
| Net Weight                     | 1.140/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Right Angle            |
| Packaging Type                 | Embossed Tape on Reel  |
| PCB Locator                    | No                     |
| PCB Retention                  | Yes                    |
| 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               | Yes                    |
| Shrouded                       | Yes                    |
| 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, 8 Circuits, Black, Glow-Wire Capable                        | <u>1053081208</u> |
| Nano-Fit Receptacle Housing, TPA Capable, 2.50mm Pitch, Dual Row, 8 Circuits, Black, Glow-Wire Capable, for UL 1569/1007 Wire | <u>2263621208</u> |
| Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assemblies   | <u>45130</u>      |

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