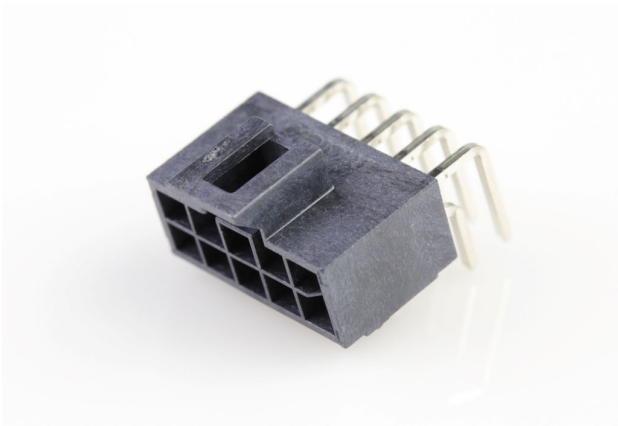




**Part Number :** [1053141610](#)  
**Product Description :** Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tape and Reel  
**Series Number :** 105314  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Packaging Alternative :** [1053141310 \(Tray\)](#)



## Documents & Resources

### Drawings

[Drawing 1053141610\\_sd.pdf](#)  
[Packaging Design Drawing 1053141000-PK-000.pdf](#)

### 3D Models and Design Files

[3D Model 1053141610\\_stp.zip](#)

### Specifications

[Product Specification 1053001000-PS-CH-000.pdf](#)  
[Product Specification 1053001000-PS-ES-000.pdf](#)  
[Product Specification 1053001000-PS-JP-000.pdf](#)  
[Product Specification 1053001000-PS-SK-000.pdf](#)  
[Product Specification PS-105300-100-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                          |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                        |
| REACH SVHC         | Not Contained per D(2024)4144-DC (27 June 2024)                                       |
| EU RoHS            | Compliant per EU 2015/863                                                             |

[Multiple Part Product Compliance Statements](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

#### Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### EU RoHS Certificate of Compliance

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## Part Details

### General

|                |                                                                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                                            |
| Category       | PCB Headers and Receptacles                                                                                                                       |
| Series         | 105314                                                                                                                                            |
| Description    | Nano-Fit Right-Angle Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, 0.76µm Gold (Au) Plating, Black, Glow-Wire Capable, Tape and Reel |
| Application    | Power, Wire-to-Board                                                                                                                              |
| Component Type | PCB Header                                                                                                                                        |
| Product Family | Nano-Fit Power Connectors                                                                                                                         |
| Product Name   | Nano-Fit                                                                                                                                          |
| UPC            | 193264582617                                                                                                                                      |

### Agency

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

### Electrical

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 7.5A             |
| Voltage - Maximum             | 250V AC (RMS)/DC |

### Physical

|                   |    |
|-------------------|----|
| Breakaway         | No |
| Circuits (Loaded) | 10 |

|                                |                        |
|--------------------------------|------------------------|
| Circuits (maximum)             | 10                     |
| Color - Resin                  | Black                  |
| Durability (mating cycles max) | 50                     |
| 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      | Gold                   |
| Material - Plating Termination | Tin                    |
| Material - Resin               | Liquid Crystal Polymer |
| Net Weight                     | 1.099/g                |
| Number of Rows                 | 2                      |
| Orientation                    | Right Angle            |
| Packaging Type                 | Embossed Tape on Reel  |
| PC Tail Length                 | 3.20mm                 |
| PCB Locator                    | Yes                    |
| PCB Retention                  | Yes                    |
| PCB Thickness - Recommended    | 1.60mm, 2.40mm         |
| Pitch - Mating Interface       | 2.50mm                 |
| Pitch - Termination Interface  | 2.50mm                 |
| Plating min - Mating           | 0.762µm                |
| Plating min - Termination      | 1.524µm                |
| Polarized to Mating Part       | Yes                    |
| Polarized to PCB               | Yes                    |
| Shrouded                       | Yes                    |
| Stackable                      | No                     |
| Temperature Range - Operating  | -40° to +115°C         |
| Termination Interface Style    | Through Hole           |

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## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|-------------|-------------|
|-------------|-------------|

|                                                                                                                  |                   |
|------------------------------------------------------------------------------------------------------------------|-------------------|
| Nano-Fit Receptacle Housing, TPA<br>Capable, 2.50mm Pitch, Dual Row,<br>10 Circuits, Black, Glow-Wire<br>Capable | <u>1053081210</u> |
|------------------------------------------------------------------------------------------------------------------|-------------------|