



**Part Number :** [1054051210](#)  
**Product Description :** Nano-Fit Right-Angle Header, Surface Mount, 2.50mm Pitch, Dual Row, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable  
**Series Number :** 105405  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles



Documents & Resources

**Drawings**  
[1054051210\\_sd.pdf](#)  
[PK-105405-003-000.pdf](#)

**3D Models and Design Files**  
[1054051210\\_stp.zip](#)  
[SYM-105405-XX10-001.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](#)

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

---

### 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, 10 Circuits, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable
Application	Power, Wire-to-Board
Component Type	PCB Header
Product Name	Nano-Fit
UPC	889056258135

#### Agency

UL	E29179
----	--------

#### Electrical

Current - Maximum per Contact	7.0A
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
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	1.340/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	0.381µm
Plating min - Termination	0.762µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Yes
Temperature Range - Operating	-40° to +115°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, 10 Circuits, Black, Glow-Wire Capable	<u>1053081210</u>
Nano-Fit-to-Nano-Fit Off-the-Shelf (OTS) Cable Assemblies	<u>45130</u>

---

