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**Part Number:** [1053091206](#)  
**Status:** **Active**  
**Overview:** Nano-Fit™ Power Connectors  
**Description:** Nano-Fit™ Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 6 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black

**Documents:**

[3D Model](#) [Packaging Specification PK-105309-300 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

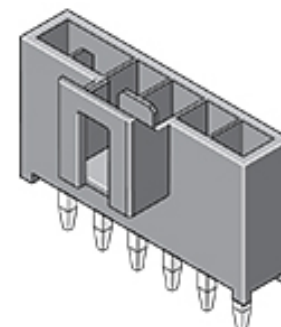
CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [105309](#)  
 Application Power, Wire-to-Board  
 Overview [Nano-Fit™ Power Connectors](#)  
 Product Name Nano-Fit™  
 UPC 887191937571

**Physical**

Breakaway No  
 Circuits (Loaded) 6  
 Circuits (maximum) 6  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part Yes  
 Lock to Mating Part Yes  
 Material - Metal Brass  
 Material - Plating Mating Gold over Nickel  
 Material - Plating Termination Tin over Nickel  
 Material - Resin Liquid Crystal Polymer  
 Net Weight 0.670/g  
 Number of Rows 1  
 Orientation Vertical  
 PC Tail Length 3.20mm  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness - Recommended 1.60mm, 2.40mm  
 Packaging Type Tray  
 Pitch - Mating Interface 2.50mm  
 Pitch - Termination Interface 2.50mm  
 Plating min - Mating 0.381µm  
 Plating min - Termination 1.524µm  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Shrouded Yes  
 Stackable No  
 Surface Mount Compatible (SMC) No  
 Temperature Range - Operating -40°C to +115°C  
 Termination Interface: Style Through Hole



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
 -ED/79/2015 (17  
 December 2015)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS

ELV

Green Image

Not Relevant

**Search Parts in this Series**

[105309](#) Series

**Mates With**

Nano-Fit™ Receptacle Housing [105307](#)

**Electrical**

Current - Maximum per Contact

6.5A

Voltage - Maximum

300V

**Material Info****Reference - Drawing Numbers**

Packaging Specification

PK-105309-300

Sales Drawing

SD-105309-100

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