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**Part Number:** [1053091204](#)  
**Status:** **Active**  
**Overview:** Nano-Fit™ Power Connectors  
**Description:** Nano-Fit™ Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 4 Circuits, with Kinked Pins, 0.38µm Gold (Au) Plating, Black

**Documents:**

<a href="#">3D Model</a>	<a href="#">Packaging Specification PK-105309-300-000 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Product Specification PS-105300-100-001 (PDF)</a>	<a href="#">Product Literature (PDF)</a>

**Agency Certification**

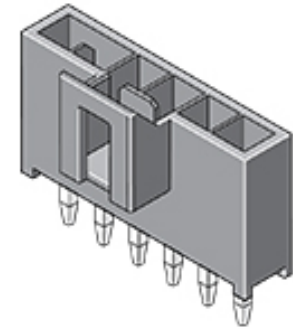
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">105309</a>
Application	Power, Wire-to-Board
Overview	<a href="#">Nano-Fit™ Power Connectors</a>
Product Literature Order No	987651-1223
Product Name	Nano-Fit™
UPC	887191937557

**Physical**

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
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	0.470/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



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Not Relevant**

**REACH SVHC**

Not Relevant

**Halogen-Free**

**Status**

**Not Relevant**

**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	Not Relevant
ELV	Not Relevant
RoHS Phthalates	Not Relevant

**China RoHS**

**Search Parts in this Series**

[105309](#) Series

**Mates With**

Nano-Fit™ Receptacle Housing [10530Z](#)

Termination Interface: Style

Through Hole

**Electrical**

Current - Maximum per Contact

6.5A

Voltage - Maximum

300V

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-105309-300-000

Product Specification

PS-105300-100-001

Sales Drawing

SD-105309-100-000

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