

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1053091105](#)  
**Status:** **Active**  
**Overview:** [Nano-Fit Power Connectors](#)  
**Description:** Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Single Row, 5 Circuits, with Kinked Pins, Tin (Sn) Plating, Black, Glow-Wire Capable, Tray

**Documents:**

<a href="#">3D Model (PDF)</a>	<a href="#">Product Specification PS-105300-100-001 (PDF)</a>
<a href="#">3D Model</a>	<a href="#">Application Specification AS-105300-100-001 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Packaging Specification PK-105309-300-000 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-CH-000 (PDF)</a>	<a href="#">Test Summary 1053001000-TS-000 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-ES-000 (PDF)</a>	<a href="#">Datasheet (PDF)</a>
<a href="#">Product Specification 1053001000-PS-JP-000 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-105309-XX05-001 (PDF)</a>
<a href="#">Product Specification 1053001000-PS-SK-000 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

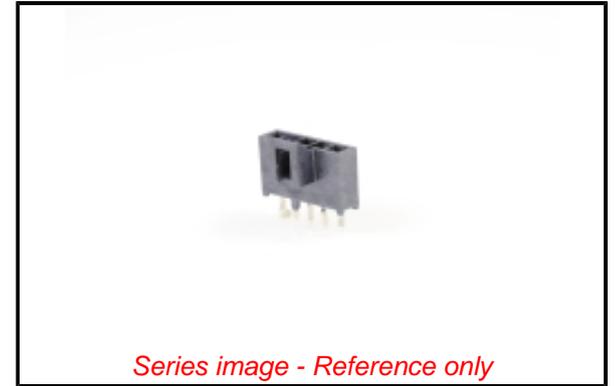
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">105309</a>
Application	Power, Wire-to-Board
Overview	<a href="#">Nano-Fit Power Connectors</a>
Packaging Alternative	<a href="#">1053093505</a>
Product Name	Nano-Fit
Taxonomy	PCB Headers and Receptacles
UPC	887191937397

**Physical**

Breakaway	No
Circuits (Loaded)	5
Circuits (maximum)	5
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
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	Tin
Material - Plating Termination	Tin
Material - Resin	Liquid Crystal Polymer
Net Weight	0.570/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	1.524µm
Plating min - Termination	1.524µm
Polarized to Mating Part	Yes



**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[105309](#) Series

**Mates With**

Nano-Fit Receptacle Housing [1053071205](#) .  
Nano-Fit Cable Assembly [145130](#)

Polarized to PCB	Yes
Shrouded	Yes
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40° to +105°C
Termination Interface: Style	Through Hole
<b>Electrical</b>	
Current - Maximum per Contact	8.0A
Voltage - Maximum	250V AC (RMS)/DC
<b>Material Info</b>	
<b>Reference - Drawing Numbers</b>	
Application Specification	AS-105300-100-001
Packaging Specification	PK-105309-300-000
Product Specification	1053001000-PS-CH-000, 1053001000-PS-ES-000, 1053001000-PS-JP-000, 1053001000-PS-SK-000, PS-105300-100-001
Sales Drawing	SD-105309-100-000
Symbol/Footprint Data	SYM-105309-XX05-001
Test Summary	1053001000-TS-000

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