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Part Number: [1053121210](#)
Status: **Active**
Overview: [Nano-Fit Power Connectors](#)
Description: Nano-Fit Vertical Header, Through Hole, 2.50mm Pitch, Dual Row, 10 Circuits, with Solder Clips, 0.38µm Gold (Au) Plating, Black, Glow-Wire Capable, Tray

Documents:

| | |
|--|---|
| 3D Model | Product Specification PS-105300-100-001 (PDF) |
| Drawing (PDF) | Application Specification AS-105300-100-001 (PDF) |
| 3D Model (PDF) | Packaging Specification PK-105309-100-000 (PDF) |
| Product Specification 1053001000-PS-CH-000 (PDF) | Test Summary 1053000000-TS-000 (PDF) |
| Product Specification 1053001000-PS-ES-000 (PDF) | Datasheet (PDF) |
| Product Specification 1053001000-PS-JP-000 (PDF) | Symbol Footprint Data SYM-105312-XX10-001 (PDF) |
| Product Specification 1053001000-PS-SK-000 (PDF) | RoHS Certificate of Compliance (PDF) |

Agency Certification

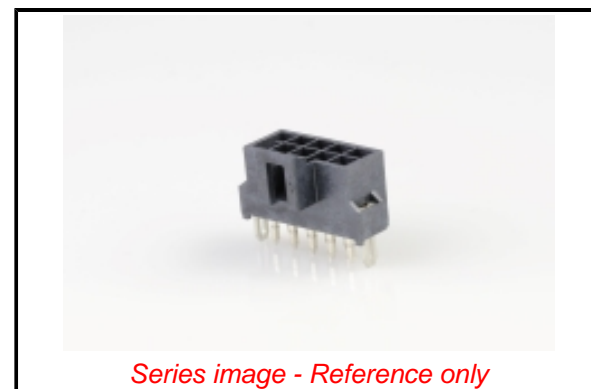
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|-----|---------|
| CSA | LR19980 |
| UL | E29179 |

General

| | |
|-----------------------|---|
| Product Family | PCB Headers |
| Series | 105312 |
| Application | Power, Wire-to-Board |
| Overview | Nano-Fit Power Connectors |
| Packaging Alternative | 1053123710 |
| Product Name | Nano-Fit |
| UPC | 887191930886 |

Physical

| | |
|--------------------------------|------------------------|
| Breakaway | No |
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Color - Resin | Black |
| Durability (mating cycles max) | 50 |
| 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 | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | Liquid Crystal Polymer |
| Net Weight | 1.040/g |
| Number of Rows | 2 |
| 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 |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2021)4569-DC (8
July 2021)

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

[105312 Series](#)

Mates With

Nano-Fit Receptacle Housing [1053081210](#) .
Nano-Fit Cable Assembly [45130](#)

| | |
|------------------------------------|---|
| Shrouded | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -40° to +115°C |
| Termination Interface: Style | Through Hole |
| Electrical | |
| Current - Maximum per Contact | 8.0A |
| Voltage - Maximum | 250V AC (RMS)/DC |
| Material Info | |
| Reference - Drawing Numbers | |
| Application Specification | AS-105300-100-001 |
| Packaging Specification | PK-105309-100-000 |
| 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-105312-100-000 |
| Symbol/Footprint Data | SYM-105312-XX10-001 |
| Test Summary | 1053000000-TS-000 |

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