



**Part Number :** [10321091](#)  
**Product Description :** 5.08mm Pitch SPOX Wire-to-Board Header, Vertical, with Friction Lock, 9 Circuits  
**Series Number :** 5281  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Engineering Part Number :** 5281-09A

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**Documents and Resources**

**Drawings**

[010321091\\_sd.pdf](#)

**3D Models and Design Files**

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

**Specifications**

[PS-5197-001-001.pdf](#)

[PS-5197-003-001.pdf](#)

[PS-5197-004-001.pdf](#)

[PS-5281-002-001.pdf](#)

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**Product Environment Compliance**

**Compliance**

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44                                                                             |
| China RoHS         |  per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                            |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                          |
| REACH SVHC         | Not Contained per D(2025)7771-DC (04 Feb 2026)                                                          |
| EU RoHS            | Compliant per EU 2015/863                                                                               |

## Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

## Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

## Substances of Interest

- PFAS

## EU RoHS Certificate of Compliance

## Additional Product Compliance Information

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## Part Details

### General

|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Status         | Active                                                                           |
| Category       | PCB Headers and Receptacles                                                      |
| Series         | 5281                                                                             |
| Description    | 5.08mm Pitch SPOX Wire-to-Board Header, Vertical, with Friction Lock, 9 Circuits |
| Application    | Wire-to-Board                                                                    |
| Component Type | PCB Header                                                                       |
| Product Name   | SPOX                                                                             |
| UPC            | 800753611078                                                                     |

### Agency

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

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 7.0A |
| Voltage - Maximum             | 250V |

### Physical

|                                |                    |
|--------------------------------|--------------------|
| Breakaway                      | No                 |
| Circuits (Loaded)              | 9                  |
| Circuits (maximum)             | 9                  |
| Color - Resin                  | Natural            |
| Durability (mating cycles max) | 30                 |
| First Mate / Last Break        | No                 |
| Flammability                   | 94V-2              |
| Gender                         | Male               |
| Glow-Wire Capable              | No                 |
| Guide to Mating Part           | No                 |
| Keying to Mating Part          | No                 |
| Lock to Mating Part            | Yes                |
| Material - Metal               | Brass              |
| Material - Plating Mating      | Tin                |
| Material - Plating Termination | Tin                |
| Material - Resin               | Nylon              |
| Mounting Style                 | Through Hole       |
| Net Weight                     | 3582.200/mg        |
| Number of Rows                 | 1                  |
| Orientation                    | Vertical           |
| Packaging Type                 | Bag                |
| PCB Locator                    | No                 |
| PCB Retention                  | No                 |
| PCB Thickness - Recommended    | 1.60mm             |
| PC Tail Length                 | 3.60mm             |
| Pitch - Mating Interface       | 5.08mm             |
| Pitch - Termination Interface  | 5.08mm             |
| Plating min - Mating           | 5.080µm            |
| Plating min - Termination      | 5.080µm            |
| Polarized to PCB               | No                 |
| Shrouded                       | Partially Shrouded |
| Stackable                      | No                 |
| Temperature Range - Operating  | -40° to +105°C     |
| Termination Interface Style    | Through Hole       |

# Mates With / Use With

## Mates with Part(s)

| Description                                      | Part Number |
|--------------------------------------------------|-------------|
| SPOX 5.08mm Pitch Single Row Receptacle Housings | <u>5197</u> |

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