**Part Number :** 533091670
**Product Description :** SlimStack Board-to-Board Connector, 0.80mm Pitch, Plug, 5.65mm Mated Height, 16 Circuits, Right-Angle, without Boss
**Series Number :** 53309
**Status :** Active
**Product Category :** Board-to-Board Connectors



## Documents & Resources

### Drawings

533091670_sd.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

SPK-53309-001-001.pdf

PS-52465-014-001.pdf

PS-52588-031-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant with Exemption 44; 33 |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21 |
| REACH SVHC | Not Contained per D(2025)4165-DC (25 June 2025) |
| 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 | Board-to-Board Connectors |
| Series | 0.8 and above |
| Description | SlimStack Board-to-Board Connector, 0.80mm Pitch, Plug, 5.65mm Mated Height, 16 Circuits, Right-Angle, without Boss |
| Application | Board-to-Board, Signal |
| Component Type | PCB Header |
| Product Name | SlimStack |
| UPC | 822348124268 |

### Electrical

| | |
|---|---|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum | 50V |

### Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 16 |
| Circuits (maximum) | 16 |

| | |
|---|---|
| Color - Resin | Natural |
| Durability (mating cycles max) | 30 |
| First Mate / Last Break | No |
| Glow-Wire Capable | No |
| Guide to Mating Part | No |
| Keying to Mating Part | Yes |
| Lock to Mating Part | None |
| Mated Height | 5.65mm |
| Mated Width | 4.70mm |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 294.824/mg |
| Number of Rows | 2 |
| Orientation | Right Angle |
| Packaging Type | Embossed Tape on Reel |
| PCB Locator | No |
| PCB Retention | None |
| Pitch - Mating Interface | 0.80mm |
| Plating min - Mating | 1.016µm |
| Plating min - Termination | 1.016µm |
| Polarized to PCB | No |
| Shrouded | Fully |
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface Style | Surface Mount |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| 0.80mm Pitch Vertical SlimStack Receptacles | 52465 |