



Part Number : 529010874

Series Number : 52901

Product Category : Board-to-Board Connectors

Product Description : SlimStack Board-to-Board Connector, 0.635mm Pitch, 0.635 Series, Receptacle, 12.00 to 16.00mm Mated Height, 6.40mm Mated Width, 80 Circuits  
Status : Active

Documents & Resources

Drawings

Drawing 529010874\_sd.pdf

3D Models and Design Files

3D Model 529010874\_stp.zip


Specifications

Packaging Specification SPK-52901-001-001.pdf

Product Specification 527600000-000.pdf

Product Environment Compliance

Compliance

|                    |   |
|--------------------|---|
| GADSL/IMDS         | Compliant with Exemption 44; 33   |
| China RoHS         |  |
| EU ELV             | Not Relevant  |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21  |
| REACH SVHC         | Not Contained per D(2023)8585-DC (23 Jan 2024)  |
| EU RoHS            | Compliant per EU 2015/863   |

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen
  
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474

## Part Details

### General

|                |   |
|----------------|---|
| Status         | Active  |
| Category       | Board-to-Board Connectors   |
| Series         | 52901   |
| Description    | SlimStack Board-to-Board Connector, 0.635mm Pitch, 0.635 Series, Receptacle, 12.00 to 16.00mm Mated Height, 6.40mm Mated Width, 80 Circuits |
| Series Name    | 0.635, Rigid  |
| Application    | Board-to-Board, Signal  |
| Comments       | Stacking-Type   |
| Component Type | PCB Receptacle  |
| Product Family | SlimStack Board-to-Board/Board-to-FPC Connectors  |
| Product Name   | SlimStack   |
| UPC            | 822348176571  |

### Agency

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum             | 100V |

### Physical

|                                |       |
|--------------------------------|-------|
| Circuits (Loaded)              | 80    |
| Circuits (maximum)             | 80    |
| Color - Resin                  | White |
| Durability (mating cycles max) | 50    |
| Flammability                   | 94V-0 |
| Glow-Wire Capable              | No    |
| Lock to Mating Part            | None  |

|                                |   |
|--------------------------------|---|
| Mated Height                   | 12.00mm, 13.00mm, 14.00mm, 15.00mm, 16.00mm |
| Mated Width                    | 6.40mm                                      |
| Material - Metal               | Copper Alloy                                |
| Material - Plating Mating      | Gold  |
| Material - Plating Termination | Tin   |
| Material - Resin               | High Temperature Thermoplastic              |
| Net Weight                     | 1889.531/mg                                 |
| Number of Rows                 | 2   |
| Orientation                    | Vertical                                    |
| Packaging Type                 | Embossed Tape on Reel                       |
| PCB Locator                    | Yes   |
| PCB Retention                  | Yes   |
| PCB Thickness - Recommended    | 1.60mm                                      |
| Pitch - Mating Interface       | 0.635mm                                     |
| Polarized to PCB               | Yes   |
| Robotic Placement              | Pick and Place Cap                          |
| Temperature Range - Operating  | -55° to +105°C                              |
| Termination Interface Style    | Surface Mount                               |

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## Mates With / Use With

### Mates with Part(s)

| Description                            | Part Number  |
|--|--------------|
| 0.635mm Pitch Vertical SlimStack Plugs | <u>53625</u> |
| 0.635mm Pitch Vertical SlimStack Plugs | <u>53627</u> |
| 0.635mm Pitch Vertical SlimStack Plugs | <u>53647</u> |
| 0.635mm Pitch Vertical SlimStack Plugs | <u>53649</u> |
| 0.635mm Vertical SlimStack Plugs       | <u>55091</u> |