



**Part Number :** [5050060812](#)  
**Product Description :** SlimStack Board-to-Board Plug, 0.40mm Pitch, Battery Series, 0.75mm Mated Height, 2.50mm Mated Width, 8 Circuits, 6.0A  
**Series Number :** 505006  
**Status :** Active  
**Product Category :** Board-to-Board Connectors

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**Documents & Resources**

**Drawings**

[5050060812\\_sd.pdf](#)

**3D Models and Design Files**

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

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

**Specifications**

[5050040000-A00.pdf](#)

[5050069200-200.pdf](#)

[5050040000-003.pdf](#)

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**Product Environment Compliance**

**Compliance**

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>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)4165-DC<br>(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

## Part Details

### General

|                |                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                 |
| Category       | Board-to-Board Connectors                                                                                              |
| Series         | 6A, Battery                                                                                                            |
| Description    | SlimStack Board-to-Board Plug, 0.40mm Pitch, Battery Series, 0.75mm Mated Height, 2.50mm Mated Width, 8 Circuits, 6.0A |
| Application    | Board-to-Board                                                                                                         |
| Comments       | 6A of current per circuit is applicable if the circuit is constructed by two power pins via a PWB/FPC circuit          |
| Component Type | PCB Header                                                                                                             |
| Product Name   | SlimStack                                                                                                              |
| UPC            | 191128441100                                                                                                           |

### Electrical

|                               |                            |
|-------------------------------|----------------------------|
| Current - Maximum per Contact | 3.0A* (see comments above) |
| Voltage - Maximum             | 50V AC (RMS)/DC            |

### Physical

|           |    |
|-----------|----|
| Breakaway | No |
|-----------|----|

|                                |                        |
|--------------------------------|------------------------|
| Circuits (Loaded)              | 8                      |
| Circuits (maximum)             | 8                      |
| Color - Resin                  | Black                  |
| Durability (mating cycles max) | 10                     |
| Glow-Wire Capable              | No                     |
| Lock to Mating Part            | Yes                    |
| Mated Height                   | 0.75mm                 |
| Mated Width                    | 2.50mm                 |
| Material - Metal               | Copper Alloy           |
| Material - Plating Mating      | Gold                   |
| Material - Plating Termination | Gold                   |
| Material - Resin               | Liquid Crystal Polymer |
| Net Weight                     | 5.410/mg               |
| Number of Rows                 | 2                      |
| Orientation                    | Vertical               |
| Packaging Type                 | Embossed Tape on Reel  |
| PCB Locator                    | No                     |
| PCB Retention                  | Yes                    |
| Pitch - Mating Interface       | 0.40mm                 |
| Pitch - Termination Interface  | 0.40mm                 |
| Plating min - Mating           | 0.100µm                |
| Plating min - Termination      | 0.050µm                |
| Polarized to Mating Part       | No                     |
| Polarized to PCB               | No                     |
| (p)ower-(s)ignal Configuration | 4p - 4s                |
| Temperature Range - Operating  | -40° to +85°C          |
| Termination Interface Style    | Surface Mount          |

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## Mates With / Use With

### Mates with Part(s)

| Description                                       | Part Number   |
|---------------------------------------------------|---------------|
| 0.40mm Pitch SlimStack Board-to-Board Receptacles | <u>505004</u> |

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