



**Part Number :** [465577145](#)

**Product Description :** SEARAY Slim Receptacle, 100 Circuits, 5.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free

**Series Number :** 46557

**Status :** Active

**Product Category :** Board-to-Board Connectors

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## Documents & Resources

### Drawings

[465577145 sd.pdf](#)

[PK-45971-002-001.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[SYM-46557-7145-001.zip](#)

[EE-45970-010-010.pdf](#)

[EE-46556-0085-001.pdf](#)

[SP-45970-010-010.zip](#)

[SP-46556-0085-001.zip](#)

### Specifications

[AS-45970-001-001.pdf](#)

[AS-45970-002-001.pdf](#)

[AS-45970-990-001.pdf](#)

[PS-45970-001-001.pdf](#)

[TS-45970-001-001.pdf](#)


[TS-45970-002-001.pdf](#)

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## Product Environment Compliance

### Compliance

|            |              |
|------------|--------------|
| GADSL/IMDS | Not Relevant |
|------------|--------------|

|                    |   |
|--------------------|---|
| 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(2024)7663-DC<br>(21 Jan 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         | 46557   |
| Description    | SEARAY Slim Receptacle, 100 Circuits, 5.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free |
| Application    | Board-to-Board, Signal, Mezzanine   |
| Component Type | PCB Receptacle  |
| Product Name   | SEARAY  |
| UPC            | 800756931661  |

### Agency

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

## Electrical

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 2.7A    |
| Grounding to PCB              | No      |
| Voltage - Maximum             | 240V AC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 100                            |
| Circuits (maximum)             | 100                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 100                            |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | Yes                            |
| Lock to Mating Part            | None                           |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 1.292/g                        |
| Number of Rows                 | 4                              |
| Orientation                    | Vertical                       |
| Packaging Type                 | Embossed Tape on Reel          |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 2.18mm                         |
| Pitch - Mating Interface       | 1.27mm                         |
| Pitch - Termination Interface  | 1.27mm                         |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |

|                               |                    |
|-------------------------------|--------------------|
| Robotic Placement             | Pick and Place Cap |
| Stackable                     | No                 |
| Temperature Range - Operating | -55° to +125°C     |
| Termination Interface Style   | Surface Mount      |
| Unmated Height                | 5.00mm             |

### Solder Process Data

|                              |        |
|------------------------------|--------|
| Max-Duration                 | 20     |
| Lead-Free Process Capability | REFLOW |
| Max-Cycle                    | 3      |
| Max-Temp                     | 260    |

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### Mates With / Use With

#### Mates with Part(s)

| Description       | Part Number  |
|-------------------|--------------|
| Searay Slim Plugs | <u>46556</u> |