



**Part Number :** 465574545

**Series Number :** 46557

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

**Product Description :** SEARAY Slim Receptacle, 160 Circuits, 8.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free

**Status :** Active

Documents & Resources


**Drawings**  
Drawing 465574545\_sd.pdf  
Packaging Design Drawing PK-45971-002-001.pdf

**3D Models and Design Files**  
3D Model 465574545\_stp.zip  
Electrical Model Document EE-45970-010-010.pdf  
S-Parameter Model SP-45970-010-010.zip  
Symbol Footprint Data SYM-46557-4545-001.zip

**Specifications**  
Application Specification AS-45970-002-001.pdf  
Application Specification AS-45970-990-001.pdf  
Application Specification AS-45970-001-001.pdf  
Product Specification PS-45970-001-001.pdf  
Product Specification TS-45970-001-001.pdf  
Test Summary TS-45970-002-001.pdf

Product Environment Compliance

Compliance

|                    |   |
|--------------------|---|
| GADSL/IMDS         | Not Relevant  |
| China RoHS         |  |
| EU ELV             | Not Relevant  |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21  |
| REACH SVHC         | Not Contained per D(2023)3788-DC (14 Jun 2023)  |
| EU RoHS            | Compliant per EU 2015/863   |

Multiple Part Product Compliance Statements  
- Eu RoHS

- REACH SVHC

- Low-Halogen

#### Multiple Part Industry Compliance Documents

- IPC 1752A Class C

- IPC 1752A Class D

- Molex Product Compliance Declaration

- IEC-62474

- chemSHERPA (xml)

#### EU RoHS Certificate of Compliance

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## Part Details

### General

|                |   |
|----------------|---|
| Status         | Active  |
| Category       | Board-to-Board Connectors   |
| Series         | 46557   |
| Description    | SEARAY Slim Receptacle, 160 Circuits, 8.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free |
| Application    | Board-to-Board, Signal  |
| Component Type | PCB Receptacle  |
| Product Family | SEARAY and SEARAY Slim Mezzanine Family   |
| Product Name   | SEARAY  |
| UPC            | 800756842851  |

### Agency

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

### Electrical

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

### Physical

|                   |     |
|-------------------|-----|
| Circuits (Loaded) | 160 |
|-------------------|-----|

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (maximum)             | 160                            |
| 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            | No                             |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 3.237/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                 | 8.00mm                         |

## 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> |