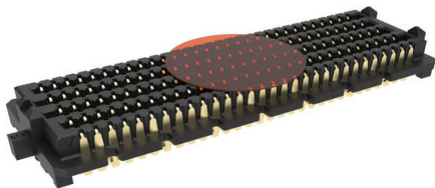




**Part Number :** [459703215](#)  
**Product Description :** 1.27mm Pitch, SEARAY Plug,  
300 Circuits, 3.00mm Unmated Height, 10 Rows, with  
Pegs, Solder Charge Lead-Free  
**Series Number :** 45970  
**Status :** Active  
**Product Category :** Board-to-Board Connectors



## Documents and Resources

### Drawings

- [459703215 sd.pdf](#)
- [PK-45970-002-001.pdf](#)
- [EE-45970-007-007.pdf](#)
- [EE-45970-015-015.pdf](#)
- [EE-46556-0085-001.pdf](#)
- [SP-45970-007-001.zip](#)
- [SP-45970-015-015.zip](#)

### Specifications

- [AS-45970-002-001.pdf](#)
- [AS-45970-990-001.pdf](#)
- [PS-45970-001-001.pdf](#)
- [PS-45970-002-001.pdf](#)
- [TS-45970-001-001.pdf](#)
- [TS-45970-0007-001.pdf](#)
- [TS-45970-002-001.pdf](#)

## 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(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         | 45970                                                                                                       |
| Description    | 1.27mm Pitch, SEARAY Plug, 300 Circuits, 3.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free |
| Application    | Board-to-Board, Signal, Mezzanine                                                                           |
| Component Type | PCB Header, Plug                                                                                            |
| Product Name   | SEARAY                                                                                                      |
| UPC            | 883906606947                                                                                                |

**Agency**

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

## Electrical

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 2.7A    |
| Voltage - Maximum             | 240V AC |

## Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 300                            |
| Circuits (maximum)             | 300                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 100                            |
| First Mate / Last Break        | No                             |
| 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                     | 3.990/g                        |
| Number of Rows                 | 10                             |
| Orientation                    | Vertical                       |
| Packaging Type                 | Embossed Tape on Reel          |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| 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             |
| Shrouded                       | No                             |

|                               |                |
|-------------------------------|----------------|
| Stackable                     | No             |
| Temperature Range - Operating | -55° to +125°C |
| Termination Interface Style   | Surface Mount  |
| Unmated Height                | 3.00mm         |

### Solder Process Data

|                              |        |
|------------------------------|--------|
| Max-Duration                 | 3      |
| Lead-Free Process Capability | REFLOW |
| Max-Cycle                    | 1      |
| Max-Temp                     | 260    |

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### Mates With / Use With

#### Mates with Part(s)

| Description                         | Part Number  |
|-------------------------------------|--------------|
| 1.27mm Pitch, SEARAY<br>Receptacles | <u>45971</u> |

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