



Part Number : 459712315

Series Number : 45971

Product Category : Board-to-Board  
Connectors

Product Description : 1.27mm Pitch, SEARAY  
Receptacle, 200 Circuits, 6.60mm Unmated  
Height, 10 Rows, with Pegs, Solder Charge  
Lead-Free

Status : Active

Documents & Resources

Drawings


Drawing 459712315\_sd.pdf  
Packaging Design Drawing PK-45971-002-001.pdf

Specifications

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

Product Environment Compliance

Compliance

|                    |   |
|--------------------|---|
| GADSL/IMDS         | Compliant with Exemption 44; 34;<br>33  |
| 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<br>(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         | 45971   |
| Description    | 1.27mm Pitch, SEARAY Receptacle, 200 Circuits, 6.60mm Unmated Height, 10 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            | 883906233839  |

#### Agency

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

#### Electrical

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

#### Physical

|                    |       |
|--------------------|-------|
| Circuits (Loaded)  | 200   |
| Circuits (maximum) | 200   |
| Color - Resin      | Black |

|                                |                                |
|--------------------------------|--------------------------------|
| Durability (mating cycles max) | 100                            |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Lock to Mating Part            | No                             |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 2.632/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             |
| Stackable                      | No                             |
| Temperature Range - Operating  | -55° to +125°C                 |
| Termination Interface Style    | Surface Mount                  |
| Unmated Height                 | 6.60mm                         |

## 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 Plugs | <u>45970</u> |