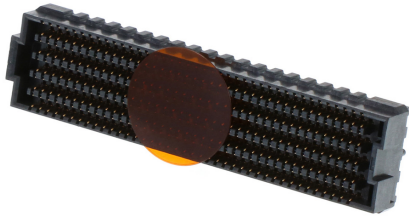




Part Number : [459714515](#)
Product Description : 1.27mm Pitch, SEARAY Receptacle, 400 Circuits, 8.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free
Series Number : 45971
Status : Active
Product Category : Board-to-Board Connectors



Documents & Resources

Drawings
[459714515_sd.pdf](#)
[PK-45971-002-001.pdf](#)

3D Models and Design Files
[459714515_stp.zip](#)
[EE-45970-010-010.pdf](#)
[SP-45970-010-010.zip](#)
[SYM-45971-4515-001.zip](#)

Specifications
[AS-45970-001-001.pdf](#)
[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-45970-002-001.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(2024)4144-DC (27 June 2024) |
| 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

Part Details

General

| | |
|----------------|---|
| Status | Active |
| Category | Board-to-Board Connectors |
| Series | 45971 |
| Description | 1.27mm Pitch, SEARAY Receptacle, 400 Circuits, 8.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free |
| Application | Board-to-Board, Signal |
| Component Type | PCB Receptacle |
| Product Name | SEARAY |
| UPC | 883906237387 |

Agency

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

Electrical

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

Physical

| | |
|-------------------|-----|
| Circuits (Loaded) | 400 |
|-------------------|-----|

| | |
|--------------------------------|--------------------------------|
| Circuits (maximum) | 400 |
| 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 | 7.125/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 | 8.00mm |

Solder Process Data

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

| | |
|----------|-----|
| Max-Temp | 260 |
|----------|-----|

Mates With / Use With

Mates with Part(s)

| Description | Part Number |
|----------------------------|--------------|
| 1.27mm Pitch, SEARAY Plugs | <u>45970</u> |