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**Part Number:** [0465562145](#)  
**Status:** **Active**  
**Overview:** SEARAY\* Slim  
**Description:** Searay Slim Plug, 80 Circuits, 2.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                     | <a href="#">Application Specification AS-45970-001-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                | <a href="#">Application Specification AS-45970-002-001 (PDF)</a> |
| <a href="#">Product Specification PS-45970-001-001 (PDF)</a> | <a href="#">Application Specification AS-45970-990-001 (PDF)</a> |
| <a href="#">Product Specification TS-45970-001-001 (PDF)</a> | <a href="#">Packaging Specification PK-45970-002 (PDF)</a>       |
| <a href="#">Product Specification TS-45970-002-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>             |

**Agency Certification**

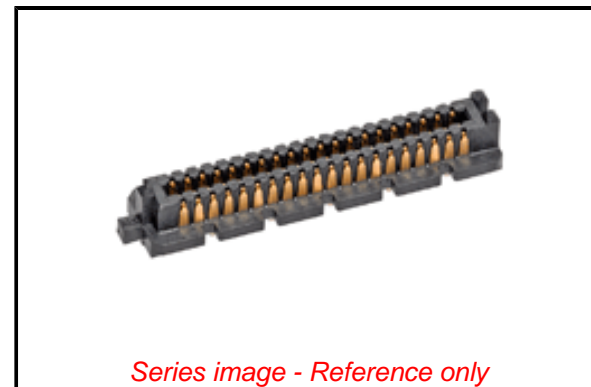
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                  |                              |
|------------------|------------------------------|
| Product Family   | PCB Headers                  |
| Series           | <a href="#">46556</a>        |
| Application      | Board-to-Board, Signal       |
| Electrical Model | Yes                          |
| Overview         | <a href="#">SEARAY* Slim</a> |
| Product Name     | SEARAY                       |
| UPC              | 800756911823                 |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 80                             |
| Circuits (maximum)             | 80                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 100                            |
| First Mate / Last Break        | No                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Guide to Mating Part           | Yes                            |
| 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                     | 1.166/g                        |
| Number of Rows                 | 4                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Embossed Tape on Reel          |
| Pitch - Mating Interface       | 1.27mm                         |
| Pitch - Termination Interface  | 1.27mm                         |
| Plating min - Mating           | 0.762µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Robotic Placement              | Pick and Place Cap             |
| Shrouded                       | No                             |
| Stackable                      | No                             |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/01/2018 (15  
January 2018)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[46556](#) Series

**Mates With**

[46557](#) SEARAY Slim Receptacles

|                                |                 |
|--------------------------------|-----------------|
| Surface Mount Compatible (SMC) | Yes             |
| Temperature Range - Operating  | -55°C to +125°C |
| Termination Interface: Style   | Surface Mount   |
| Unmated Height                 | 2.00mm          |

**Electrical**

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

**Solder Process Data**

|  |        |
|--|--------|
| Duration at Max. Process Temperature (seconds) | 020    |
| Lead-free Process Capability                   | REFLOW |
| Max. Cycles at Max. Process Temperature        | 003    |
| Process Temperature max. C                     | 260    |

**Material Info****Reference - Drawing Numbers**

|                           |   |
|---------------------------|---|
| Application Specification | AS-45970-001-001, AS-45970-002-001,<br>AS-45970-990-001 |
| Electrical Model Document | EE-45970-010  |
| Packaging Specification   | PK-45970-002  |
| Product Specification     | PS-45970-001-001, TS-45970-001-001,<br>TS-45970-002-001 |
| S-Parameter Model         | SP-45970-010  |
| Sales Drawing             | SD-46556-001  |
| Symbol/Footprint Data     | SYM-46556-2145  |

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