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Part Number:

0459704115

Status:

Active

Overview:

Description:

1.27mm Pitch, SEARAY Plug, 400 Circuits, 2.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free

|                                |                                |
|--------------------------------|--------------------------------|
| Agency Certification           |                                |
| CSA                            | LR19980                        |
| UL                             | E29179                         |
| General                        |                                |
| Product Family                 | PCB Headers                    |
| Series                         | 45970                          |
| Application                    | Board-to-Board, Signal         |
| Electrical Model               | Yes                            |
| Overview                       | searay                         |
| Product Name                   | SEARAY                         |
| UPC                            | 883906497330                   |
| Physical                       |                                |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 400                            |
| Circuits (maximum)             | 400                            |
| 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                     | 5.125/g                        |
| Number of Rows                 | 10                             |
| 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                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Robotic Placement              | Pick and Place Cap             |
| Shrouded                       | No                             |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -55° to +125°C                 |
| Termination Interface: Style   | Surface Mount                  |
| Unmated Height                 | 2.00mm                         |
| Electrical                     |                                |
| Current - Maximum per Contact  | 2.7A                           |

EU ELV

Not Relevant

EU RoHS

China RoHS

Compliant

REACH SVHC

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

Search Parts in this Series

45970 Series

Mates With

45971 SEARAY Receptacle

|                                                |                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------|
| Voltage - Maximum                              | 240V AC                                                                 |
| <b>Solder Process Data</b>                     |                                                                         |
| Duration at Max. Process Temperature (seconds) | 003                                                                     |
| Lead-freeProcess Capability                    | REFLOW                                                                  |
| Max. Cycles at Max. Process Temperature        | 001                                                                     |
| Process Temperature max. C                     | 260                                                                     |
| <b>Material Info</b>                           |                                                                         |
| <b>Reference - Drawing Numbers</b>             |                                                                         |
| Application Specification                      | AS-45970-001-001, AS-45970-002-001, AS-45970-990-001                    |
| Electrical Model Document                      | EE-45970-007-007, EE-45970-010-010, EE-45970-015-015, EE-46556-0085-001 |
| Packaging Specification                        | PK-45970-002-001                                                        |
| Product Specification                          | PS-45970-001-001, PS-45970-002-001, TS-45970-001-001                    |
| S-Parameter Model                              | SP-45970-007-001, SP-45970-010-010, SP-45970-015-015                    |
| Sales Drawing                                  | SD-45970-001-001                                                        |
| Symbol/Footprint Data                          | SYM-45970-4115-001                                                      |
| Test Summary                                   | TS-45970-0007-001, TS-45970-002-001                                     |

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