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Part Number: [0459702311](#)
Status: **Active**
Overview: [SEARAY](#)
Description: 1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 200 Circuits, 3.50mm (.137") Unmated Height, 10 Rows, Lead Free

Documents:

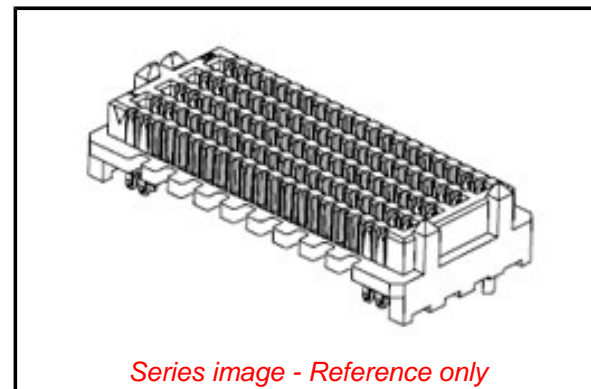
[Packaging Specification \(PDF\)](#) [Product Specification PS-45970-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-45970-001 \(PDF\)](#)

General

Product Family PCB Headers
 Series [45970](#)
 Application Board-to-Board
 Overview [SEARAY](#)
 Product Name SEARAY*

Physical

Breakaway No
 Circuits (Loaded) 200
 Circuits (maximum) 200
 Circuits Detail 200
 Color - Resin Black
 Durability (mating cycles max) 100
 First Mate / Last Break No
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part Yes
 Keying to Mating Part None
 Lock to Mating Part Yes
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 10
 Orientation Vertical
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.050 In
 Pitch - Mating Interface (mm) 1.27 mm
 Pitch - Term. Interface (in) 0.050 In
 Pitch - Term. Interface (mm) 1.27 mm
 Plating min: Mating (µin) 30
 Plating min: Mating (µm) 0.75
 Plating min: Termination (µin) 100
 Plating min: Termination (µm) 2.5
 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°C to +125°C



EU RoHS

**ELV and RoHS
 Compliant**
REACH SVHC
 Not Reviewed
**Halogen-Free
 Status**

China RoHS



Not Reviewed

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 non-product compliance questions.

Search Parts in this Series

[45970](#) Series

Mates With

[45971](#) SEARAY* Receptacle

Termination Interface: Style

Surface Mount

Electrical

| | |
|-------------------|---------|
| CSA | LR19980 |
| Current - Maximum | 2.7A |
| UL | E29179 |
| Voltage - Maximum | 240V AC |

Solder Process Data

| | |
|--|---------------------------|
| Duration at Max. Process Temperature (seconds) | 3 |
| Lead-free Process Capability | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 260 |

Material Info

Reference - Drawing Numbers

| | |
|-----------------------|--------------|
| Product Specification | PS-45970-001 |
| Product Specification | PS-45970-002 |
| Sales Drawing | SD-45970-001 |

*SEARAY is a trademark of Samtec, Inc.

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