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Part Number: [0459704185](#)
Status: **Active**
Overview: [SEARAY](#)
Description: 1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 320 Circuits, 2.00mm (.078") Unmated Height, 8 Rows, Lead Free

Documents:

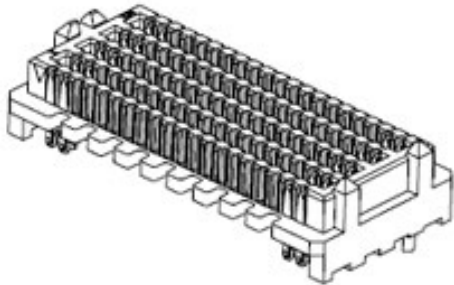
[Drawing \(PDF\)](#) [Product Specification PS-45970-002 \(PDF\)](#)
[Product Specification PS-45970-001 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

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

Physical

Breakaway No
Circuits (Loaded) 320
Circuits (maximum) 320
Circuits Detail 320
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 Embossed Tape on Reel
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
Termination Interface: Style Surface Mount



Series image - Reference only

EU RoHS

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

China RoHS



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non-product compliance questions.

Search Parts in this Series
[45970](#) Series

Mates With
[45971](#) SEARAY* Receptacle

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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