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Part Number: [0459703385](#)
Status: **Active**
Overview: [SEARAY](#)
Description: 1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 300 Circuits, 3.50mm (.137") Unmated Height, 8 Rows, Lead Free

Documents:

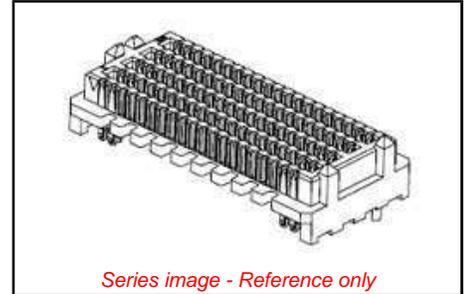
[Drawing \(PDF\)](#) [Product Specification PS-45970-002 \(PDF\)](#)
[Product Specification PS-45970-001 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

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

Physical

Breakaway No
 Circuits (Loaded) 300
 Circuits (maximum) 300
 Circuits Detail 300
 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 8
 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



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

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
 Please visit the [Contact Us](#) section for any 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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