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**Part Number:** [45970-4305](#)  
**Status:** **Active**  
**Overview:** SEARAY\* Plugs, Receptacles and Copper Flex Assemblies  
**Description:** 1.27mm by 1.27mm Pitch SEARAY\* Plug, 400 Circuits, 2.00mm Unmated Height, 10 Rows, Lead-Free, with Voids

**Documents:**

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

**Agency Certification**

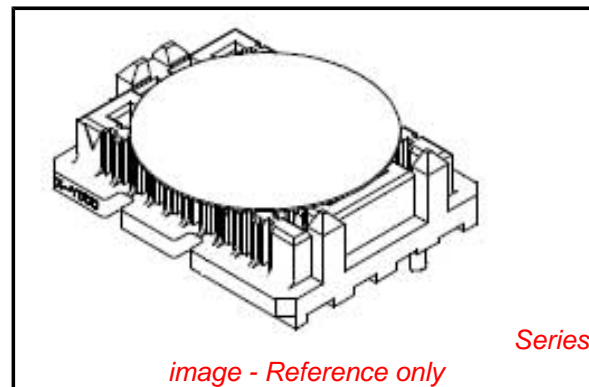
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">45970</a>
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	<a href="#">SEARAY* Plugs, Receptacles and Copper Flex Assemblies</a>
Product Name	SEARAY*
UPC	884982013131

**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 Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	3.702/g
Number of Rows	10
Orientation	Vertical
PC Tail Length	2.18mm
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



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Low-Halogen Status Low-Halogen**

**China RoHS**



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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[45970Series](#)

**Mates With**

[45971 SEARAY\\* Receptacles](#)

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
Unmated Height	2.00mm

### Electrical

Current - Maximum per Contact	2.7A
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

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Electrical Model Document	EE-45970-007, EE-45970-010, EE-45970-015
Product Specification	PS-45970-001, PS-45970-002
S-Parameter Model	SP-45970-007, SP-45970-010, SP-45970-015
Sales Drawing	SD-45970-001, SD-45970-057
Test Summary	TS-45970-001, TS-45970-002

\*SEARAY is a trademark of Samtec, Inc.

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