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**Part Number:** [0459713515](#)  
**Status:** **Active**  
**Overview:** [searay](#)  
**Description:** 1.27mm by 1.27mm Pitch SEARAY\* Receptacle, 300 Circuits, 8.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge™ Lead-Free

**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**

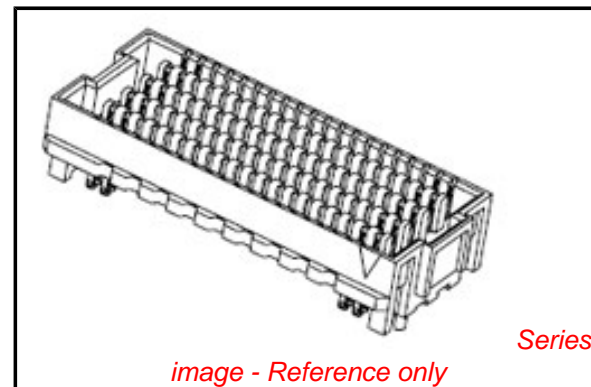
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Receptacles
Series	<a href="#">45971</a>
Application	Board-to-Board, Signal
Overview	<a href="#">searay</a>
Product Name	SEARAY*

**Physical**

Circuits (Loaded)	300
Circuits (maximum)	300
Color - Resin	Black
Durability (mating cycles max)	100
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
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
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
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 Contains SVHC: No**  
**Low-Halogen Status Not Reviewed**

**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**

[45971Series](#)

**Mates With**

[45970 SEARAY\\* Plug](#)

Unmated Height 8.50mm

### **Electrical**

Current - Maximum per Contact 2.7A  
Grounding to PCB No  
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  
Product Specification PS-45970-001, PS-45970-002  
Sales Drawing SD-45971-001  
Test Summary TS-45970-001, TS-45970-002

\*SEARAY is a trademark of Samtec, Inc.

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