

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [45971-3185](#)  
**Status:** **Active**  
**Overview:** [SEARAY\\*](#)  
**Description:** 1.27mm by 1.27mm Pitch SEARAY\* Receptacle, 240 Circuits, 5.00mm Unmated Height, 8 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**

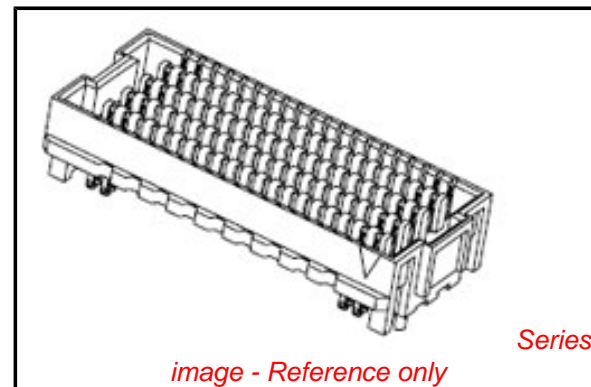
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Receptacles
Series	<a href="#">45971</a>
Application	Board-to-Board, Signal
Overview	<a href="#">SEARAY*</a>
Product Name	SEARAY*
UPC	883906234959

**Physical**

Circuits (Loaded)	240
Circuits (maximum)	240
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
Net Weight	2.768/g
Number of Rows	8
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



**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**

[45971Series](#)

**Mates With**

[45970 SEARAY\\* Plug](#)

Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount
Unmated Height	5.00mm

### **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
Electrical Model Document	EE-45970-010
Product Specification	PS-45970-001, PS-45970-002
S-Parameter Model	SP-45970-010
Sales Drawing	SD-45971-001
Test Summary	TS-45970-001, TS-45970-002

\*SEARAY is a trademark of Samtec, Inc.

This document was generated on 07/08/2013

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**