

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

**Part Number:** [0459714185](#)  
**Status:** **Active**  
**Overview:** SEARAY and SEARAY Slim Mezzanine Family  
**Description:** 1.27mm Pitch, SEARAY Receptacle, 320 Circuits, 5.00mm Unmated Height, 8 Rows, with Pegs, Solder Charge Lead-Free

**Documents:**

<a href="#">3D Model</a>	<a href="#">Application Specification AS-45970-990-001 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Packaging Specification PK-45971-001 (PDF)</a>
<a href="#">Product Specification PS-45970-001-001 (PDF)</a>	<a href="#">Packaging Specification PK-45971-002-001 (PDF)</a>
<a href="#">Product Specification PS-45970-002-001 (PDF)</a>	<a href="#">Packaging Specification RPK-45971-009 (PDF)</a>
<a href="#">Application Specification AS-45970-001 (PDF)</a>	<a href="#">Test Summary TS-45970-002-001 (PDF)</a>
<a href="#">Application Specification AS-45970-002-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

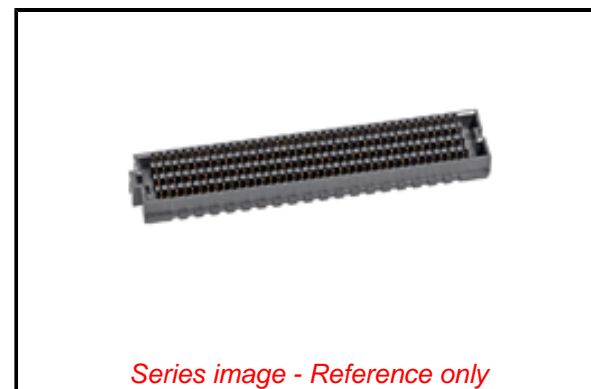
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Receptacles
Series	<a href="#">45971</a>
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	<a href="#">SEARAY and SEARAY Slim Mezzanine Family</a>
Product Name	SEARAY
UPC	883906236403

**Physical**

Circuits (Loaded)	320
Circuits (maximum)	320
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Capable	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	3.597/g
Number of Rows	8
Orientation	Vertical
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



*Series image - Reference only*

**EU ELV  
Compliant**

**EU RoHS  
Compliant**

**China RoHS**

**REACH SVHC**  
Not Contained Per  
-ED/88/2018 (15  
January 2019)

**Halogen-Free  
Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS	Green Image
ELV	Compliant
RoHS Phthalates	Not Contained

**Search Parts in this Series**  
[45971](#) Series

**Mates With**  
[45970](#) SEARAY Plug

Temperature Range - Operating	-55° 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)	003
Lead-free Process Capability	REFLOW
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	260

**Material Info****Reference - Drawing Numbers**

Application Specification	AS-45970-001, AS-45970-002-001, AS-45970-990-001
Electrical Model Document	EE-45970-010, EE-46556-0085
Packaging Specification	PK-45971-001, PK-45971-002-001, RPK-45971-009
Product Specification	PS-45970-001-001, PS-45970-002-001
S-Parameter Model	SP-45970-010, SP-46556-0085
Sales Drawing	SD-45971-001-001
Symbol/Footprint Data	SYM-45971-4185
Test Summary	TS-45970-002-001

This document was generated on 07/19/2019

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