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**Part Number:** [0459712385](#)  
**Status:** **Active**  
**Overview:** SEARAY and SEARAY Slim Mezzanine Family  
**Description:** 1.27mm Pitch, SEARAY Receptacle, 160 Circuits, 6.60mm Unmated Height, 8 Rows, with Pegs, Solder Charge Lead-Free

**Documents:**

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

**Agency Certification**

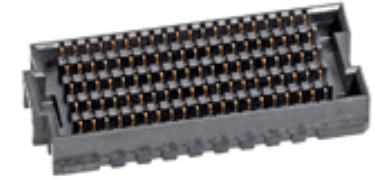
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Receptacles
Series	<a href="#">45971</a>
Application	Board-to-Board, Signal
Overview	<a href="#">SEARAY and SEARAY Slim Mezzanine Family</a>
Product Name	SEARAY
UPC	883906234072

**Physical**

Circuits (Loaded)	160
Circuits (maximum)	160
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	2.170/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
Temperature Range - Operating	-55° to +125°C
Termination Interface: Style	Surface Mount



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2020)9139-DC (19  
Jan 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

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

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[45971](#) Series

**Mates With**

[45970](#) SEARAY Plug

Unmated Height 6.60mm

**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-45970-001-001, AS-45970-002-001,  
AS-45970-990-001  
Electrical Model Document 459700004REVA-000  
Packaging Specification PK-45971-002-001  
Product Specification PS-45970-001-001, PS-45970-002-001,  
TS-45970-001-001  
S-Parameter Model 459700004REVA-000  
Sales Drawing SD-45971-001-001  
Test Summary TS-45970-002-001

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