

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

**Part Number:** **0459703185**  
**Status:** **Active**  
**Overview:** SEARAY and SEARAY Slim Mezzanine Family  
**Description:** 1.27mm Pitch, SEARAY Plug, 240 Circuits, 2.00mm 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-45970-002-001 (PDF)</a>
<a href="#">3D Model (PDF)</a>	<a href="#">Test Summary TS-45970-0007-001 (PDF)</a>
<a href="#">Product Specification PS-45970-001-001 (PDF)</a>	<a href="#">Test Summary TS-45970-002-001 (PDF)</a>
<a href="#">Product Specification PS-45970-002-001 (PDF)</a>	<a href="#">Symbol Footprint Data SYM-45970-3185-001 (PDF)</a>
<a href="#">Product Specification TS-45970-001-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Application Specification AS-45970-002-001 (PDF)</a>	

**Agency Certification**

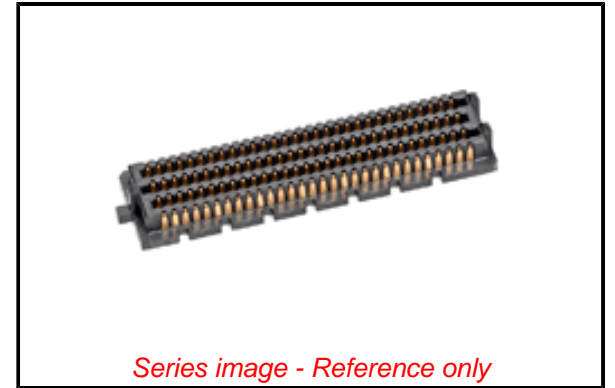
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	<a href="#">SEARAY and SEARAY Slim Mezzanine Family</a>
Product Name	SEARAY
Taxonomy	Board-to-Board Connectors
UPC	883906606930

**Physical**

Breakaway	No
Circuits (Loaded)	240
Circuits (maximum)	240
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	3.163/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



**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

**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**

[45970](#) Series

**Mates With**

[45971](#) SEARAY Receptacle

Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55° 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)	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-45970-002-001, AS-45970-990-001
Electrical Model Document	EE-45970-007-007, EE-45970-010-010, EE-45970-015-015, EE-46556-0085-001
Packaging Specification	PK-45970-002-001
Product Specification	PS-45970-001-001, PS-45970-002-001, TS-45970-001-001
S-Parameter Model	SP-45970-007-001, SP-45970-010-010, SP-45970-015-015
Sales Drawing	SD-45970-001-001
Symbol/Footprint Data	SYM-45970-3185-001
Test Summary	TS-45970-0007-001, TS-45970-002-001

This document was generated on 08/30/2022

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