

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0459713115](#)
Status: **Active**
Overview: SEARAY and SEARAY Slim Mezzanine Family
Description: 1.27mm Pitch, SEARAY Receptacle, 300 Circuits, 5.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free

Documents:

3D Model	Application Specification AS-45970-002-001 (PDF)
Drawing (PDF)	Application Specification AS-45970-990-001 (PDF)
3D Model (PDF)	Packaging Specification PK-45971-002-001 (PDF)
Product Specification PS-45970-001-001 (PDF)	Test Summary TS-45970-002-001 (PDF)
Product Specification PS-45970-002-001 (PDF)	Symbol Footprint Data SYM-45971-3115-001 (PDF)
Product Specification TS-45970-001-001 (PDF)	RoHS Certificate of Compliance (PDF)
Application Specification AS-45970-001-001 (PDF)	

Agency Certification

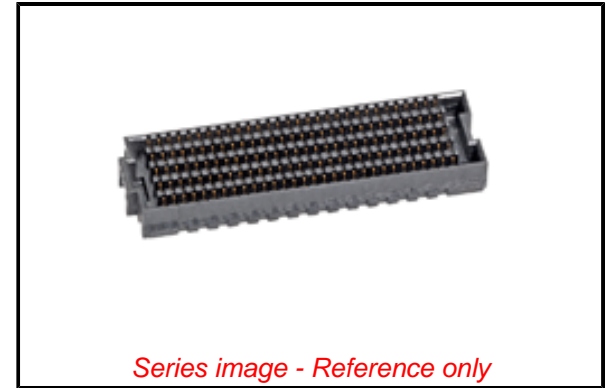
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	45971
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY and SEARAY Slim Mezzanine Family
Product Name	SEARAY
Taxonomy	Board-to-Board Connectors
UPC	883906234751

Physical

Circuits (Loaded)	300
Circuits (maximum)	300
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	3.372/g
Number of Rows	10
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



Series image - Reference only

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

[45971](#) Series

Mates With

[45970](#) SEARAY Plug

Stackable	No
Surface Mount Compatible (SMC)	Yes
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-45970-001-001, AS-45970-002-001, AS-45970-990-001
Electrical Model Document	EE-45970-010-010, EE-46556-0085-001
Packaging Specification	PK-45971-002-001
Product Specification	PS-45970-001-001, PS-45970-002-001, TS-45970-001-001
S-Parameter Model	SP-45970-010-010, SP-46556-0085-001
Sales Drawing	SD-45971-001-001
Symbol/Footprint Data	SYM-45971-3115-001
Test Summary	TS-45970-002-001

This document was generated on 08/30/2022

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION