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Part Number: [0459713111](#)
Status: **Active**
Overview: [searay](#)
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 300 Circuits, 5.00mm (.197") Unmated Height, 10 Rows, with Pegs, Solder Charge™ Lead-Free

Documents:

3D Model	Application Specification AS-45970-002 (PDF)
Drawing (PDF)	Application Specification AS-45970-990 (PDF)
Product Specification PS-45970-001 (PDF)	Test Summary TS-45970-001 (PDF)
Product Specification PS-45970-002 (PDF)	Test Summary TS-45970-002 (PDF)
Application Specification AS-45970-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

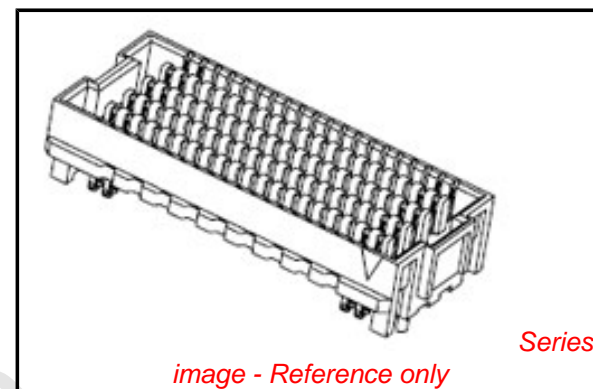
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	45971
Application	Board-to-Board, Signal
MolexKits	Yes
Overview	searay
Product Name	SEARAY*

Physical

Circuits (Loaded)	300
Circuits (maximum)	300
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
Number of Rows	10
Orientation	Vertical
PC Tail Length	2.18mm (.086")
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm (.063")
Packaging Type	Tray
Pitch - Mating Interface	1.27mm (.050")
Pitch - Termination Interface	1.27mm (.050")
Plating min - Mating	0.762µm (30µ")
Plating min - Termination	2.540µm (100µ")
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°C to +125°C



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Low-Halogen Status Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email 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

Termination Interface: Style

Surface Mount

Electrical

Current - Maximum per Contact

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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

Product Specification

PS-45970-001, PS-45970-002

Sales Drawing

SD-45971-001

Test Summary

TS-45970-001, TS-45970-002

*SEARAY is a trademark of Samtec, Inc.

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