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Part Number: [45971-3183](#)
Status: **Active**
Overview: [SEARAY*](#)
Description: 1.27mm by 1.27mm Pitch SEARAY* Receptacle, 240 Circuits, 5.00mm Unmated Height, 8 Rows, with Pegs, Solder Charge™ Lead

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

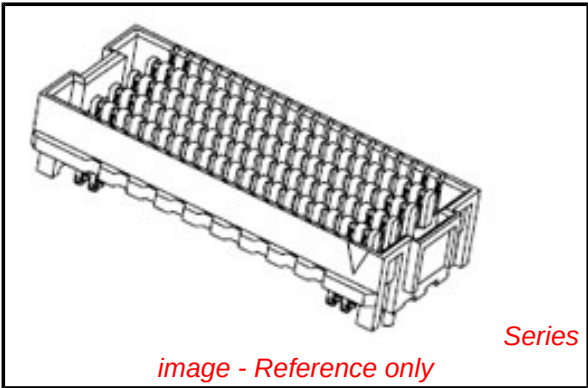
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	45971
Application	Board-to-Board, Signal
Overview	SEARAY*
Product Name	SEARAY*
UPC	800756786148

Physical

Circuits (Loaded)	240
Circuits (maximum)	240
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	Lead
Material - Resin	High Temperature Thermoplastic
Net Weight	2.768/g
Number of Rows	8
Orientation	Vertical
PC Tail Length	2.18mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Packaging Type	Tray
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



EU RoHS

Not RoHS Compliant
REACH SVHC
Not Reviewed
Low-Halogen Status
Low-Halogen

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](#)

Temperature Range - Operating	-55°C 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)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	230
Replacement RoHS Compliant Part Number	0459713181

Material Info

Reference - Drawing Numbers

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Electrical Model Document	EE-45970-010
Product Specification	PS-45970-001, PS-45970-002
S-Parameter Model	SP-45970-010_REVA
Sales Drawing	SD-45971-001
Test Summary	TS-45970-001, TS-45970-002

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