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Part Number: [0459715115](#)
Status: **Active**
Overview: SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Description: SEARAY* Receptacle, 500 Circuits, 5.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge™ Lead-Free

Documents:

3D Model	Packaging Specification PK-45971-002 (PDF)
Drawing (PDF)	Packaging Specification RPK-45971-009 (PDF)
Packaging Specification PK-45971-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

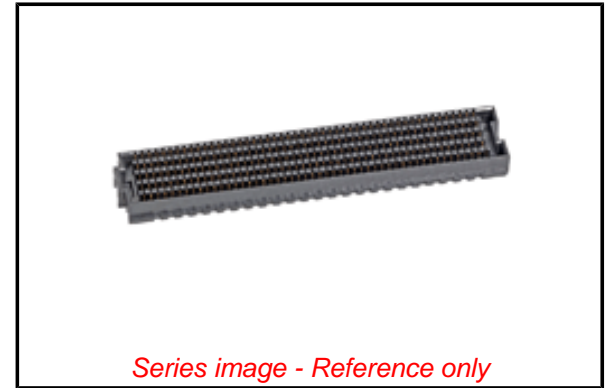
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	45971
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Product Name	SEARAY*
UPC	883906237707

Physical

Circuits (Loaded)	500
Circuits (maximum)	500
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	5.412/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
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount



EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
ED/21/2016 (20 June
2016)

Halogen-Free

Status

Low-Halogen

Need more information on product environmental compliance?

Email productcompliance@molex.com
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS

ELV

Green Image

Not Relevant

Search Parts in this Series

[45971](#) Series

Mates With

[45970](#) SEARAY* Plug

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-freeProcess Capability REFLOW
Max. Cycles at Max. Process Temperature 001
Process Temperature max. C 260

Material Info

Reference - Drawing Numbers

Electrical Model Document EE-45970-010, EE-46556-0085
Packaging Specification PK-45971-001, PK-45971-002, RPK-45971-009
S-Parameter Model SP-45970-010, SP-46556-0085
Sales Drawing SD-45971-001
Symbol/Footprint Data SYM-45971-5115

*SEARAY is a trademark of Samtec, Inc.

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