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Part Number: [0459705715](#)
Status: **Active**
Overview: SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Description: SEARAY* Plug, 500 Circuits, 7.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge™ Lead-Free

Documents:

3D Model	Product Specification TS-45970-002-001 (PDF)
Drawing (PDF)	Application Specification AS-45970-002-001 (PDF)
Product Specification PS-45970-001-001 (PDF)	Application Specification AS-45970-990-001 (PDF)
Product Specification PS-45970-002-001 (PDF)	Packaging Specification PK-45970-001 (PDF)
Product Specification TS-45970-0007-001 (PDF)	Packaging Specification PK-45970-002 (PDF)
Product Specification TS-45970-001-001 (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

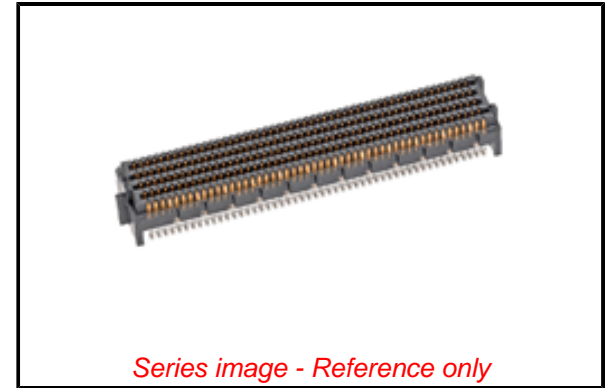
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Product Name	SEARAY*
UPC	883906608460

Physical

Breakaway	No
Circuits (Loaded)	500
Circuits (maximum)	500
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	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	11.394/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



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
ED/30/2017 (7 July
2017)

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	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

Search Parts in this Series

[45970](#) Series

Mates With

[45971](#) SEARAY* Receptacle

Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount
Unmated Height	7.00mm

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, EE-45970-010, EE-45970-015, EE-46556-0085
Packaging Specification	PK-45970-001, PK-45970-002
Product Specification	PS-45970-001-001, PS-45970-002-001, TS-45970-0007-001, TS-45970-001-001, TS-45970-002-001
S-Parameter Model	SP-45970-007, SP-45970-010, SP-45970-015
Sales Drawing	SD-45970-001-001
Symbol/Footprint Data	SYM-45970-5715

*SEARAY is a trademark of Samtec, Inc.

This document was generated on 08/04/2017

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