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Part Number: [45970-3385](#)
Status: **Active**
Overview: SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Description: 1.27mm by 1.27mm Pitch SEARAY* Plug, 240 Circuits, 3.50mm Unmated Height, 8 Rows, 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

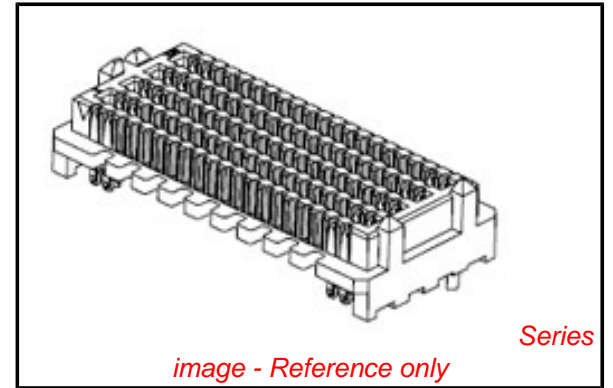
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Product Name	SEARAY*
UPC	883906034528

Physical

Breakaway	No
Circuits (Loaded)	240
Circuits (maximum)	240
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	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	3.482/g
Number of Rows	8
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



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
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

[45970Series](#)

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	3.50mm

Electrical

Current - Maximum per Contact	2.7A
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
Electrical Model Document	EE-45970-007, EE-45970-010, EE-45970-015
Product Specification	PS-45970-001, PS-45970-002
S-Parameter Model	SP-45970-007, SP-45970-010, SP-45970-015
Sales Drawing	SD-45970-001
Test Summary	TS-45970-001, TS-45970-002

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