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Part Number: **0459701615**
Status: **Active**
Overview: SEARAY and SEARAY Slim Mezzanine Family
Description: 1.27mm Pitch, SEARAY Plug, 100 Circuits, 5.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free

Documents:

3D Model	Application Specification AS-45970-990-001 (PDF)
3D Model (PDF)	Packaging Specification PK-45970-002-001 (PDF)
Drawing (PDF)	Test Summary TS-45970-0007-001 (PDF)
Product Specification PS-45970-001-001 (PDF)	Test Summary TS-45970-002-001 (PDF)
Product Specification PS-45970-002-001 (PDF)	Symbol Footprint Data SYM-45970-1615-001 (PDF)
Product Specification TS-45970-001-001 (PDF)	RoHS Certificate of Compliance (PDF)
Application Specification AS-45970-002-001 (PDF)	

Agency Certification

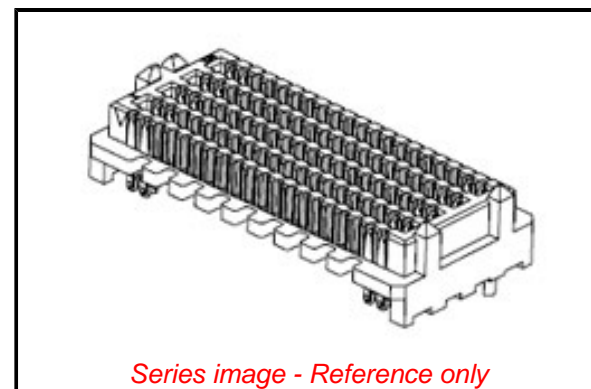
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Electrical Model	Yes
Overview	SEARAY and SEARAY Slim Mezzanine Family
Product Name	SEARAY
UPC	883906606190

Physical

Breakaway	No
Circuits (Loaded)	100
Circuits (maximum)	100
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	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	2.445/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



EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2020)9139-DC (19
Jan 2021)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

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° to +125°C
Termination Interface: Style	Surface Mount
Unmated Height	5.00mm

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-45970-007-007, EE-45970-010-010, EE-45970-015-015, EE-46556-0085-001
Packaging Specification	PK-45970-002-001
Product Specification	PS-45970-001-001, PS-45970-002-001, TS-45970-001-001
S-Parameter Model	SP-45970-007-001, SP-45970-010-010, SP-45970-015-015
Sales Drawing	RSD-45970-4130-001, SD-45970-001-001
Symbol/Footprint Data	SYM-45970-1615-001
Test Summary	TS-45970-0007-001, TS-45970-002-001

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