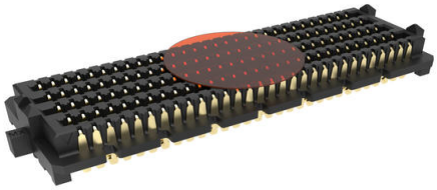
Part Number : 459703115
Product Description : 1.27mm Pitch, SEARAY Plug, 300 Circuits, 2.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free
Series Number : 45970
Status : Active
Product Category : Board-to-Board Connectors



Documents and Resources

Drawings

459703115_sd.pdf

PK-45970-002-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

SYM-45970-3115-001.zip

EE-45970-007-007.pdf

EE-45970-010-010.pdf

EE-45970-015-015.pdf

EE-46556-0085-001.pdf

SP-45970-007-001.zip

SP-45970-010-010.zip

SP-45970-015-015.zip

Specifications

AS-45970-002-001.pdf

AS-45970-990-001.pdf

PS-45970-001-001.pdf

PS-45970-002-001.pdf

TS-45970-001-001.pdf

TS-45970-0007-001.pdf

TS-45970-002-001.pdf

Product Environment Compliance

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Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)7771-DC (04 Feb 2026)
EU RoHS	Compliant per EU 2015/863

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	Board-to-Board Connectors
Series	45970
Description	1.27mm Pitch, SEARAY Plug, 300 Circuits, 2.00mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free
Application	Board-to-Board, Mezzanine
Component Type	Plug
Product Name	SEARAY
UPC	883906606886

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Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	2.7A
Voltage - Maximum	240V AC

Physical

Breakaway	No
Circuits (Loaded)	300
Circuits (maximum)	300
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	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	3.926/g
Number of Rows	10
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Pitch - Mating Interface	1.27mm
Pitch - Termination Interface	1.27mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm

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Polarized to Mating Part	Yes
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Shrouded	Unshrouded
Stackable	No
Temperature Range - Operating	-55° to +125°C
Termination Interface Style	Surface Mount
Unmated Height	2.00mm

Solder Process Data

Max-Duration	3
Lead-Free Process Capability	REFLOW
Max-Cycle	1
Max-Temp	260

Mates With / Use With

Mates with Part(s)

Description	Part Number
1.27mm Pitch, SEARAY Receptacles	45971

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