

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0459704315

Status:

Active

Overview:

SEARAY and SEARAY Slim Mezzanine Family

Description:

1.27mm Pitch, SEARAY Plug, 400 Circuits, 3.50mm Unmated Height, 10 Rows, with Pegs, Solder Charge Lead-Free

- Documents:
- 3D Model

Application Specification AS-45970-990-001 (PDF)
- Drawing (PDF)

Packaging Specification PK-45970-002-001 (PDF)
- 3D Model (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-45970-4315-001 (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

883906607593

Physical

Breakaway

No

Circuits (Loaded)

400

Circuits (maximum)

400

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

4.924/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

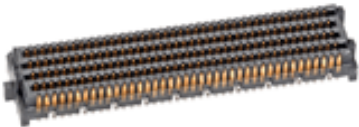
2.540µm

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 -
D(2021)4569-DC (8
July 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	3.50mm
Electrical	
Current - Maximum per Contact	2.7A
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	
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, SP-46556-0085-001
Sales Drawing	SD-45970-001-001
Symbol/Footprint Data	SYM-45970-4315-001
Test Summary	TS-45970-0007-001, TS-45970-002-001

This document was generated on 02/07/2022

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION