

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

45970-4130

Status:

Active

Overview:

SEARAY* Plugs, Receptacles and Copper Flex Assemblies

Description:

SEARAY* Plug, 320 Circuits, 2.00mm Unmated Height, 8 Rows, with Pegs, Solder Charge™ Lead-Free

Documents:

Drawing (PDF)

Product Specification PS-45970-001 (PDF)

Product Specification PS-45970-002 (PDF)

Application Specification AS-45970-002 (PDF)

Application Specification AS-45970-990 (PDF)

Test Summary TS-45970-001 (PDF)

Test Summary TS-45970-002 (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

887191723266

Physical

Breakaway

No

Circuits (Loaded)

320

Circuits (maximum)

320

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

17.250/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

Robotic Placement

Pick and Place Cap

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Low-Halogen Status

Low-Halogen



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

Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount
Unmated Height	2.00mm

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-45970-002, 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	RSD-45970-4130
Test Summary	TS-45970-001, TS-45970-002

*SEARAY is a trademark of Samtec, Inc.