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Part Number: **0459704215**
Status: **Active**
Overview: SEARAY
Description: 1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 400 Circuits, 3.00mm (.118") Unmated Height, 8 Rows, Lead Free

Documents:

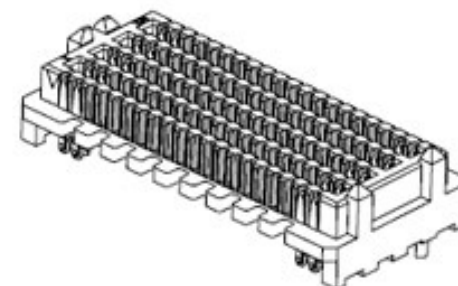
[Drawing \(PDF\)](#) [Product Specification PS-45970-002 \(PDF\)](#)
[Product Specification PS-45970-001 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board
Overview	<u>SEARAY</u>
Product Name	SEARAY*

Physical

Breakaway	No
Circuits (Loaded)	400
Circuits (maximum)	400
Circuits Detail	400
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
Number of Rows	10
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Polarized to PCB	Yes
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



Series image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
 Not Reviewed
**Halogen-Free
Status**

China RoHS



Not Reviewed
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environmental compliance?**

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 Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

45970 Series

Mates With

45971 SEARAY* Receptacle

Electrical

CSA	LR19980
Current - Maximum	2.7A
UL	E29179
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**

Product Specification	PS-45970-001
Product Specification	PS-45970-002
Sales Drawing	SD-45970-001

*SEARAY is a trademark of Samtec, Inc.

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