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Part Number: [0459700161](#)
Status: **Obsolete**
Overview: [searay](#)
Description: 1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 114 Circuits, 2.00mm (.078") Unmated Height, 6 Rows, Lead Free

Documents:
[Drawing \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Overview	searay
Product Name	SEARAY*

Physical

Breakaway	No
Circuits (Loaded)	114
Circuits (maximum)	114
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	6
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm (.063")
Packaging Type	Tray
Pitch - Mating Interface	1.27mm (.050")
Pitch - Termination Interface	1.27mm (.050")
Plating min - Mating	0.762µm (30µ")
Plating min - Termination	2.540µm (100µ")
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

Electrical



EU RoHS

ELV and RoHS Compliant
REACH SVHC
 Not Reviewed
Low-Halogen Status
Low-Halogen

China RoHS



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

Search Parts in this Series

[45970Series](#)

Mates With

[45971 SEARAY* Receptacle](#)

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-45970-001, AS-45970-002, AS-45970-990
Product Specification PS-45970-001, PS-45970-002
Sales Drawing SD-45970-001
Test Summary TS-45970-001, TS-45970-002

*SEARAY is a trademark of Samtec, Inc.

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