



Home: PCB Headers >

Part Number: 45970-4511

SEARAY* Plug, 400 Circuits, 4.50mm Unmated Height, 10 Rows, Lead-Free



Series image - Reference only

Status:	OBSOLETE
Replacement:	Contact Molex
Series:	45970
Category:	PCB Headers
Overview:	SEARAY* Plugs, Receptacles and Copper Flex Assemblies

CHECK DISTRIBUTOR INVENTORY

[Add to My Parts](#) [Email this page](#)Go to [Part Detail](#) ▾**Mates With Part(s):**[45971](#) SEARAY* Receptacle**Product Environmental Compliance**[EU ELV](#):Product not active[EU RoHS](#):Product not active[EU RoHS Phthalates](#):Product not active[China RoHS](#):[REACH SVHC](#):Product not active[Low-Halogen Status](#):Product not active [EU RoHS Certificate of Compliance \(PDF\)](#) [Multiple Part Product Compliance Statements](#)

EU RoHS, REACH SVHC, & Low-Halogen

[Multiple Part Industry Compliance Documents](#)

*IPC 1752A Class C

*IPC 1752A Class D

*Molex Product Compliance Declaration

Application Tooling**FAQ**

Tooling specifications and manuals are found by selecting the products below.

Crimp Height Specifications are then contained in the Application Tooling Specification document.

Previously Available Application Tooling[Check our list of old tooling that used to be available for this part](#)Questions on Product Environmental Compliance? Email ProductCompliance@molex.comRequest Molex's CMRT from conflictminerals@molex.com**Part Detail****COLLAPSE ALL****▼ General**

Status	Obsolete
Category	PCB Headers
Series	45970
Application	Board-to-Board, Signal
Overview	SEARAY* Plugs, Receptacles and Copper Flex Assemblies
Product Name	SEARAY*
Trademark Attribution	*SEARAY is a trademark of Samtec, Inc.
UPC	883906607746

▼ Physical

Breakaway	No
Circuits (Loaded)	400
Circuits (maximum)	400
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
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
Net Weight	7.501/g
Number of Rows	10
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Packaging Type	Tray
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
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount

▼ Electrical

(Please review the Product Specification for specific details.)

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

▼ Solder Process Data

Solderability Shelf Life Statement	
Duration at Max. Process Temperature (seconds)	003
Lead-free Process Capability	REFLOW
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	260

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