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**Part Number:** [46556-4145](#)  
**Status:** **Active**  
**Overview:** SEARAY\* Slim  
**Description:** 1.27mm by 1.27mm Pitch SEARAY\* Slim Plug, 160 Circuits, 2.00mm Unmated Height, 4 Rows, with Pegs, Solder Charge™ Lead-Free

**Documents:**

<a href="#">3D Model</a>	<a href="#">Application Specification AS-45970-990 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Test Summary TS-45970-001 (PDF)</a>
<a href="#">Product Specification PS-45970-001 (PDF)</a>	<a href="#">Test Summary TS-45970-002 (PDF)</a>
<a href="#">Application Specification AS-45970-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Application Specification AS-45970-002 (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">46556</a>
Application	Board-to-Board, Signal
MolexKits	Yes
Overview	<a href="#">SEARAY* Slim</a>
Product Name	SEARAY*

**Physical**

Breakaway	No
Circuits (Loaded)	160
Circuits (maximum)	160
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	None
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
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
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	No
Surface Mount Compatible (SMC)	Yes



Series

image - Reference only

**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

**Contains SVHC: No Low-Halogen Status Not Reviewed**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[46556Series](#)

**Mates With**

[46557 SEARAY\\* Slim Receptacles](#)

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)	20
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

### **Material Info**

UPC	800756842844
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### **Reference - Drawing Numbers**

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Product Specification	PS-45970-001
Sales Drawing	SD-46556-001
Test Summary	TS-45970-001, TS-45970-002

\*SEARAY is a trademark of Samtec, Inc.

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