

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **0465561145**  
**Status:** **Active**  
**Description:** 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY\* Slim Plug, 40 Circuits, 2.00mm (.078") Unmated Height, 4 Rows, With Pegs, Solder Charge™ Lead-free

**Documents:**

[3D Model](#) [Product Specification PS-45970-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

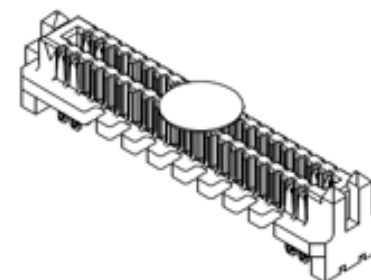
Product Family PCB Headers  
Series 46556  
Application Board-to-Board  
Product Name SEARAY\*

**Physical**

Breakaway No  
Circuits (Loaded) 40  
Circuits (maximum) 40  
Circuits Detail 40  
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 (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  
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**

CSA LR19980  
Current - Maximum 1A  
UL E29179



*Series image - Reference only*

**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

46556 Series

**Mates With**

46557 SEARAY\* Slim Receptacles

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**

**Reference - Drawing Numbers**

Product Specification	PS-45970-001
Sales Drawing	SD-46556-001

\*SEARAY is a trademark of Samtec, Inc.

This document was generated on 12/01/2009

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**