



**Part Number :** [465564345](#)

**Series Number :** 46556

**Product Category :** Board-to-Board Connectors

**Product Description :** Searay Slim Plug, 160 Circuits, 3.50mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free

**Status :** Active

Documents & Resources


**Drawings**  
[Drawing 465564345\\_sd.pdf](#)  
[Packaging Design Drawing PK-45970-002-001.pdf](#)

**3D Models and Design Files**  
[3D Model 465564345\\_stp.zip](#)  
[Electrical Model Document EE-45970-010-010.pdf](#)  
[Electrical Model Document EE-46556-0085-001.pdf](#)  
[S-Parameter Model SP-45970-010-010.zip](#)  
[S-Parameter Model SP-46556-0085-001.zip](#)  
[Symbol Footprint Data SYM-46556-4345-001.zip](#)

**Specifications**  
[Application Specification AS-45970-001-001.pdf](#)  
[Application Specification AS-45970-002-001.pdf](#)  
[Application Specification AS-45970-990-001.pdf](#)  
[Product Specification PS-45970-001-001.pdf](#)  
[Product Specification TS-45970-001-001.pdf](#)  
[Test Summary TS-45970-002-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

## 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
- IEC-62474
- chemSHERPA (xml)

## EU RoHS Certificate of Compliance

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### Part Details

#### General

Status	Active
Category	Board-to-Board Connectors
Series	46556
Description	Searay Slim Plug, 160 Circuits, 3.50mm Unmated Height, 4 Rows, with Pegs, Solder Charge Lead-Free
Application	Board-to-Board, Signal
Component Type	PCB Header
Product Family	SEARAY and SEARAY Slim Mezzanine Family
Product Name	SEARAY
UPC	800756832579

#### Agency

CSA	LR19980
UL	E29179

#### Electrical

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

#### Physical

Breakaway	No
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Circuits (Loaded)	160
Circuits (maximum)	160
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	2.383/g
Number of Rows	4
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
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
Temperature Range - Operating	-55° to +125°C
Termination Interface Style	Surface Mount
Unmated Height	3.50mm

#### Solder Process Data

Max-Duration	20
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Lead-Free Process Capability	REFLOW
Max-Cycle	3
Max-Temp	260

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**Mates With / Use With**

**Mates with Part(s)**

Description	Part Number
SEARAY Slim Receptacles	<u>46557</u>