

## General Information

<b>Part Number:</b>	76650-0119
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	SEARAY Slim Connector Kit
<b>Description:</b>	High Density Mezz Interconnect Plug and Receptacle
<b>Product Family:</b>	SEARAY Slim
<b>Certificates:</b>	RoHS Compliant, China RoHS, UL, CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

## Specifications

<b>Design</b>	
<b>Configuration:</b>	Board-to-Board
<b>Pitch:</b>	1.27mm (.050") by 1.27mm (.050") Pitch
<b>Connector Type:</b>	Receptacle and Plug
<b>Mounting</b>	
<b>Orientation:</b>	Vertical
<b>Circuit Sizes:</b>	80 and 160
<b>Current Rating:</b>	2.7 Amps
<b>Voltage:</b>	240 Volts

## Product Highlights

SEARAY Slim is a solution armed with the benefits of the standard SEARAY family but with a width similar to 2 row mezzanine products. The design gives a system a highly compact solution but with speed capabilities of 12.5 Gbps, a level of performance most other 2 row products cannot achieve today. As system level speeds approach 5Gbps and beyond, SEARAY is an enticing mezzanine architecture that provides headroom for future generation iterations as protocol speeds continue to increase.

### Features and Benefits

- Narrow body width comparable to 2 row SMT has a minimal PCB footprint for high density board designs
- Data rates up to 12.5Gbps provide excellent signal clarity and large bandwidth
- Robust contact design prevents stubbing and damage in mating interface

### Applications

- Mezzanine add-on cards
- Memory expansion
- I/O expansion
- Controller cards
- Motherboard personality cards

**For additional Molex / Waldom Design and Solution kits please go to [www.molexkits.com](http://www.molexkits.com)**

\*SEARAY is a trademark of Samtec, Inc.

**Bill of Materials for Part No. 76650-0119**

Molex Part No.	Country of origin	Description	Quantity in Kit
46556-2345	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim 4-Row Connector, 80 Circuits, 7.11mm (.280") Unmated Height, 4 Rows, With Pegs	1
46556-4145	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim 4-Row Connector, 160 Circuits, 5.61mm (.221") Unmated Height, 4 Rows, With Pegs	1
46557-2145	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim 4-Row Receptacle, 80 Circuits, 5.05mm (.199") Unmated Height, With Pegs	1
46557-4345	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim 4-Row Receptacle, 160 Circuits, 6.55mm (.258") Unmated Height, With Pegs	1

**No Recommended Molex Tool for Part No. 76650-0119**

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