

General Information

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

Specifications

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