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Datasheet for 76650-0119

General Information	
Kit Part Number:	76650-0119
Connector Type:	Board-to-Board
Solution:	High Speed Connectors
Molex Family:	SEARAY* Slim
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications	
Circuit Size:	160, 80
Current Rating:	2.7A
Mounting Style:	SMT (Surface Mount Technology)
Orientation:	Plugs, Vertical Receptacles
Pitch:	1.27mm (.050") by 1.27mm (.050")
Speed:	<= 10Gbps (Gigabits Per Second)
Style:	Mezzanine
Voltage Rating:	240V

Product Hightlights

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
• Military

*SEARAY is a trademark of Samtec, Inc.

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Bill of Materials

Molex Part No.	Description	Quantity
46556-2345	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY*Slim 4-Row Plug, 80 Circuits, 3.50mm (.137") Unmated Height, 4 Rows, with Pegs	1
46556-4145	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY*Slim 4-Row Plug, 160 Circuits, 2.00mm (.078") Unmated Height, 4 Rows, with Pegs	1
46557-2145	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Slim 4 Row Receptacle, 80 Circuits, 5.00mm (.196") Unmated Height, with Pegs	1
46557-4345	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Slim 4 Row Receptacle, 160 Circuits, 6.50mm (.255") Unmated Height, with Pegs	1

Recommended Molex Tool

Molex Part No.	Description