

Datasheet for 76650-0118

General Information

Kit Part Number:	76650-0118
Connector Type:	Board-to-Board
Solution:	High Speed Connectors
Molex Family:	SEARAY*
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	200, 300, 400
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 Highlights

The SEARAY* board-to-board connector is designed for computer, networking, telecom, storage and general market applications with high pin-count devices or memory modules that are mounted on mezzanine or module PC Boards (PCBs). The design of SEARAY* has superior electrical and mechanical features that are cost competitive. The unique, Molex patented, solder charge technology results in better process yields a lower applied cost versus equivalent BGA connector products. Circuit sizes range from 160 through 500 positions, and mated stack heights cover 7mm (.276") to 13mm (.512").

Features and Benefits

- Unique patented solder attach is more cost effective and reliable than BGA
- SEARAY* footprint is compatible with other 1.27mm(.050") by 1.27mm(.050") products
- Robust guidance and polarization aligns connectors to mate in correct position

Applications

- High and mid-range computers and servers
- Medical scanning equipment
- Military
- Network routers and switches
- Mobile base stations

*SEARAY is a trademark of Samtec, Inc.

<http://www.molexkits.com>

Bill of Materials

Molex Part No.	Description	Quantity
45970-2311	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Plug, 200 Circuits, 3.35mm (.132") Unmated Height, 10 Rows	1
45970-3211	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Plug, 300 Circuits, 2.85mm (.112") Unmated Height, 10 Rows	1
45970-4311	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Plug, 400 Circuits, 3.35mm (.132") Unmated Height, 10 Rows	1
45971-2311	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Receptacle, 200 Circuits, H = 6.55mm (.258") Unmated Height, 10 Rows	1
45971-3111	1.27mm (.050") by 1.27mm (.050") Pitch, SEARAY* Receptacle, 300 Circuits, H = 5.05mm (.199") Unmated Height, 10 Rows	1

Recommended Molex Tool

Molex Part No. **Description**