

Datasheet for 76650-0187

General Information

Kit Part Number:	76650-0187
Connector Type:	Wire-to-Board
Solution:	Off the Board Connectors
Molex Family:	Milli-Grid™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	10, 14, 16, 4, 6
Current Rating:	0.5-2A
Mounting Style:	PCB Through Hole
Orientation:	Receptacles, Vertical Headers
Pitch:	2.00mm (.079")
Tool Included:	No
Voltage Rating:	125V
Wire Gauge (AWG):	30-24

Product Highlights

Molex's Milli-Grid™ family of high density connectors is based on a 2.00 by 2.00mm (.079 by .079") grid pattern. Compared to traditional 2.54mm (.100") pitch connectors, Milli-Grid™ connectors offer up to 40% savings in PCB real estate.

Features and Benefits

- Early entry terminal design for superior contact
- Locking ramps provide strong retention force to header
- Fully shrouded to protect pins during mating/unmating
- Center polarization slot, prevents mismating
- Locking windows, secures firm locking to receptacle
- Front latches for added retention forces after mating

Applications

- Office Automation: Printers, Fax machines, Scanners, Copiers
- Telecom: Servers, Hubs, Switches, Routers
- Other applications: Vending machines, Gaming machines, Fitness equipment
- Computer / Peripherals: Disk Drives, Storage, Servers, Notebook PC, Modems, Motherboards, Monitors
- Measuring / Analyzing Equipment: Security systems / alarms, Medical monitoring, Lab equipment
- Entertainment: Set-top boxes, Car stereos, Video / DVD products
- Brown Goods

<http://www.molexkits.com>

Bill of Materials

Molex Part No.	Description	Quantity
50394-8100	Milli-Grid™ Female Crimp Gold Terminal (30-24) AWG	100
51110-0460	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 4 Circuits, without Center Polarizing Key	3
51110-0660	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, without Center Polarizing Key	3
51110-1060	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, without Center Polarizing Key	3
51110-1451	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 14 Circuits, with Center Polarizing Key and Latching	3
51110-1651	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 16 Circuits, with Center Polarizing Key and Latching	3
87831-0420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 4 Circuits, 0.38Âµm (15Âµ") Gold	3
87831-0620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 6 Circuits, 0.38Âµm (15Âµ") Gold	3
87831-1020	2.00mm (.079") Pitch 10 Circuit Milli-Grid™ Vertical Header	3
87831-1420	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ Vertical Header	3
87831-1620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, 0.38Âµm (15Âµ") Gold	3

Recommended Molex Tool

Molex Part No.	Description
63819-0100 (not included in kit)	Click for more info