1801 Morgan Street Rockford, Illinois 61102 800-435-2931 www.molexkits.com



## **Datasheet for 76650-0187**

#### **General Information**

**Part Number:** 76650-0187

Manufacturer: Molex / Waldom

Title: Milli-Grid Connector Kit

**Description:** Shrouded Gold Vertical Header and Receptacle

Product Family: Milli-Grid™

Certificates: (Molex Parts within this kit) - EU RoHS Compliant, UL and CSA

Country of Origin: Kit assembled in U.S.A.

### **Specifications**

Design

Configuration: Wire-to-Board

Pitch: 2.0mm (.079")

Connector Type: Receptacles and Headers

Mounting

Orientation: Vertical

Circuit Sizes: 4, 6, 10; Latching: 14 and 16

**Current Rating:** (0.5-2) Amps - Dependant on Wire Gauge

Voltage: 125 VoltsDC Wire Size: 30-24 AWG

## **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

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com



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## **Datasheet for 76650-0187**

#### Bill of Materials for Part No. 76650-0187 Quantity in Country Molex Part No. of Origin Description Kit Singapore Milli-Grid™ Female Crimp Gold Terminals (30-24) AWG 50394-8100-C 100 2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 4 Circuits, 51110-0460 Singapore without Cntr Pol Key, 3 2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, 51110-0660 Singapore without Cntr Pol Key, 3 2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, 51110-1060 Singapore without Cntr Pol Key, 3 2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 14 Circuits, Singapore with Cntr Pol Key, with Latching 3 51110-1451 2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 16 Circuits, Singapore with Cntr Pol Key, with Latching 3 51110-1651 2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Singapore Hole, 4 Circuits, 0.38µm (15µ") Gold 3 87831-0420 2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Singapore Hole, 6 Circuits, 0.38µm (15µ") Gold 3 87831-0620 2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through 3 87831-1020 Singapore Hole, 10 Circuits, 0.38µm (15µ") Gold 2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through 87831-1420 Singapore Hole, 14 Circuits, 0.38µm (15µ") Gold 3 2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through

# Recommended Molex Tool(s) for Part No. 76650-0187\*

Molex Part No.	Country of Origin	Description
63819-0100 *	Sweden	Hand Crimp Tool for Milli-Grid™ and MicroBlade Crimp Terminals

Singapore Hole, 16 Circuits, 0.38µm (15µ") Gold

87831-1620

<sup>\*</sup>Tool(s) not included in kit. Tool(s) ordered separately.