



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 mismatching
- 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

Datasheet for 76650-0187

Bill of Materials for Part No. 76650-0187

Molex Part No.	Country of Origin	Description	Quantity in Kit
50394-8100-C	Singapore	Milli-Grid™ Female Crimp Gold Terminals (30-24) AWG	100
51110-0460	Singapore	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 4 Circuits, without Cntr Pol Key,	3
51110-0660	Singapore	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, without Cntr Pol Key,	3
51110-1060	Singapore	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, without Cntr Pol Key,	3
51110-1451	Singapore	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 14 Circuits, with Cntr Pol Key, with Latching	3
51110-1651	Singapore	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 16 Circuits, with Cntr Pol Key, with Latching	3
87831-0420	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 4 Circuits, 0.38µm (15µ") Gold	3
87831-0620	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 6 Circuits, 0.38µm (15µ") Gold	3
87831-1020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 10 Circuits, 0.38µm (15µ") Gold	3
87831-1420	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 14 Circuits, 0.38µm (15µ") Gold	3
87831-1620	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, 0.38µm (15µ") Gold	3

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

*Tool(s) not included in kit. Tool(s) ordered separately.