



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 76650-0195

### General Information

<b>Kit Part Number:</b>	76650-0195
<b>Connector Type:</b>	Wire-to-Board
<b>Solution:</b>	Off the Board Connectors
<b>Molex Family:</b>	Milli-Grid™
<b>Certificates:</b>	N/A
<b>Country of Origin:</b>	Kit assembled in U.S.A

### Specifications

<b>Circuit Size:</b>	10, 14, 16, 20, 24, 30, 4, 40, 44, 50, 6
<b>Current Rating:</b>	0.5-2A
<b>Mounting Style:</b>	PCB Through Hole, SMT (Surface Mount Technology)
<b>Orientation:</b>	IDT Receptacles, Right Angle Headers
<b>Pitch:</b>	2.00mm (.079")
<b>Tool Included:</b>	No
<b>Voltage Rating:</b>	125V
<b>Wire Gauge (AWG):</b>	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
- Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination

#### 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

**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	2
51110-0660	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, without Center Polarizing Key	2
51110-1060	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, without Center Polarizing Key	2
51110-1451	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 14 Circuits, with Center Polarizing Key and Latching	2
51110-1651	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 16 Circuits, with Center Polarizing Key and Latching	2
87568-1063	2.00mm (.079") Pitch 10 Circuits Milli-Grid™ IDT Receptacle	2
87568-1073	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 10 Circuits, Gold, without Center Polarization Key, with Locking Ramp	2
87568-1493	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ IDT with Polarization and Lock Ramp Receptacle	2
87568-1693	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 16 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-2093	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 20 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-2493	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 24 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-3093	2.00mm (.079") Pitch 30 Circuit Milli-Grid™ IDT with Polarization and Lock Ramp Receptacle	2
87568-4093	2.00mm (.079") Pitch 40 Circuit Milli-Grid™ IDT with Polarization and Lock Ramp Receptacle	1
87568-4443	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 44 Circuits, Gold, with Center Polarization Key, without Locking Ramp	1
87568-5093	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 50 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	1
87831-0420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 4 Circuits, 0.38Åµm (15Åµm) Gold	2
87831-0620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 6 Circuits, 0.38Åµm (15Åµm) Gold	2
87831-1620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, 0.38Åµm (15Åµm) Gold	2
87831-2020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 20 Circuits, Gold	2
87831-2420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 24 Circuits, Gold	2
87831-3020	2.00mm (.079") Pitch 30 Circuit Milli-Grid™ Vertical Header	2
87831-4020	2.00mm (.079") Pitch 40 Circuit Milli-Grid™ Vertical Header	2
87831-4420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 44 Circuits, Gold	1
87831-5020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 50 Circuits, Gold	1
87833-4020	2.00mm (.079") Pitch 40 Circuit Milli-Grid™ Right Angle Header	1
87831-1020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 10 Circuits, 0.38µm (15µ") Gold	2
87831-1420	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ Vertical Header	2
87832-1020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 10 Circuits, Gold	2
87832-1420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 14 Circuits, Gold	2
87832-3020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 30 Circuits, Gold	2
87832-4020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 40 Circuits, Gold	1
87833-1020	2.00mm (.079") Pitch Milli-Grid™ 10 Circuits, Milli-Grid Right Angle Header	2
87833-1420	2.00mm (.079") Pitch Milli-Grid™ 14 CircuitsMilli-Grid Right Angle Header	2
87833-3020	2.00mm (.079") Pitch 30 Circuit Milli-Grid™ Right Angle Header	2

**Recommended Molex Tool**

Molex Part No.	Description
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<http://www.molexkits.com>

62100-2000 (not included in kit)	<a href="#">Click for more info</a>
62100-3200 (not included in kit)	<a href="#">Click for more info</a>