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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 76650-0175

### General Information

<b>Part Number:</b>	76650-0175
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	Milli-Grid Connector Kit
<b>Description:</b>	Vertical and Right Angle Header, IDT Receptacle
<b>Product Family:</b>	Milli-Grid™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant, UL and CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Board
<b>Pitch:</b>	2.0mm (.079")
<b>Connector Type:</b>	Receptacles and Headers

#### Mounting

<b>Orientation:</b>	Vertical and Right Angle
<b>Circuit Sizes:</b>	10,14, 30 and 40
<b>Current Rating:</b>	1 Amp
<b>Voltage:</b>	125 VoltsDC
<b>Wire Size Style:</b>	IDT Style (UL2651 and UL2678) flat ribbon cable

### 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. IDT (Insulation Displacement Technology) makes for cable-to-board connections.

**Datasheet for 76650-0175**

Features and Benefits	Applications
<ul style="list-style-type: none"> <li>• Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination</li> <li>• Locking ramps provide strong retention force to header</li> <li>• Fully shrouded to protect pins during mating/unmating</li> <li>• Center polarization slot, prevents mismatching</li> <li>• Locking windows, secures firm locking to receptacle</li> <li>• Front latches for mechanical locking</li> <li>• Early-entry single-beam contact provides long wiping action during mating</li> </ul>	<ul style="list-style-type: none"> <li>• Office Automation: Printers, Fax machines, Scanners, Copiers</li> <li>• Telecom: Servers, Hubs, Switches, Routers</li> <li>• Other applications: Vending machines, Gaming machines, Fitness equipment</li> <li>• Computer / Peripherals: Disk Drives, Storage, Servers, Notebook PC, Modems, Motherboards, Monitors</li> <li>• Measuring / Analyzing Equipment: Security systems / alarms, Medical monitoring, Lab equipment</li> <li>• Entertainment: Set-top boxes, Car stereos, Video / DVD products</li> <li>• Brown Goods</li> </ul>

**Bill of Materials for Part No. 76650-0175**

Molex Part No.	Country of Origin	Description	Quantity in Kit
87568-1063	Singapore	2.0mm (.079") Pitch 10 Circuit Milli-Grid IDT Receptacle	8
87568-1493	Singapore	2.0mm (.079") Pitch 14 Circuit Milli-Grid IDT with Polarization & Lock Ramp Receptacle	6
87568-3093	Singapore	2.0mm (.079") Pitch 30 Circuit Milli-Grid IDT with Polarization & Lock Ramp Receptacle	4
87568-4093	Singapore	2.0mm (.079") Pitch 40 Circuit Milli-Grid IDT with Polarization & Lock Ramp Receptacle	4
87831-1020	Singapore	2.0mm (.079") Pitch 10 Circuit Milli-Grid Vertical Header	4
87831-1420	Singapore	2.0mm (.079") Pitch 14 Circuit Milli-Grid Vertical Header	3
87831-3020	Singapore	2.0mm (.079") Pitch 30 Circuit Milli-Grid Vertical Header	2
87831-4020	Singapore	2.0mm (.079") Pitch 40 Circuit Milli-Grid Vertical Header	2
87833-1020	Singapore	2.0mm (.079") Pitch 10 Circuit Milli-Grid Right Angle Header	4
87833-1420	Singapore	2.0mm (.079") Pitch 14 Circuit Milli-Grid Right Angle Header	3
87833-3020	Singapore	2.0mm (.079") Pitch 30 Circuit Milli-Grid Right Angle Header	2
87833-4020	Singapore	2.0mm (.079") Pitch 40 Circuit Milli-Grid Right Angle Header	2

**For additional Molex / Waldom Design and Solution Kits please go to [www.molexkits.com](http://www.molexkits.com)**



### Datasheet for 76650-0175

**Recommended Molex Tool(s) for Part No. 76650-0175\***

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
62100-2000 *	USA	IDT - Manual - Tool
62100-3200 *	USA	IDT - Manual - Tool Kit
62100-2400 *	USA	IDT Ribbon Cable Adapter Kit For 2.00mm Milli-Grid™ - Semi-Automatic

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