

## 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.

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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 mismating</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)**

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**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.