

Datasheet for 76650-0175

General Information

Part Number:	76650-0175
Manufacturer:	Molex / Waldom
Title:	Milli-Grid Connector Kit
Description:	Vertical and Right Angle Header, IDT 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 and Right Angle
Circuit Sizes:	10,14, 30 and 40
Current Rating:	1 Amp
Voltage:	125 VoltsDC
Wire Size Style:	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
• Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination • 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 mechanical locking • Early-entry single-beam contact provides long wiping action during mating	• 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 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

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

Molex Part No.	Country of Origin	Description
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.