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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.

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Datasheet for 76650-0188

General Information

Part Number:	76650-0188
Manufacturer:	Molex / Waldom
Title:	Milli-Grid Connector Kit
Description:	Vertical Header and 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
Circuit Sizes:	10,14, 16, 20, 24, 30, 40, 44 and 50
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.

Datasheet for 76650-0188

Features and Benefits	Applications
<ul style="list-style-type: none"> • 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 mechanical locking • Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination • Early-entry single-beam contact provides long wiping action during mating 	<ul style="list-style-type: none"> • 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. 76650-0188

Molex Part No.	Country of Origin	Description	Quantity in Kit
87568-1073	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 10 Circuits, Gold, without Center Polarization Key, with Locking Ramp	3
87568-1493	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 14 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	3
87568-1693	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 16 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-2093	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 20 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-2493	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 24 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-3093	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 30 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-4093	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 40 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	2
87568-4443	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 44 Circuits, Gold, with Center Polarization Key, without Locking Ramp	1
87568-5093	Singapore	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 50 Circuits, Gold, with Center Polarization Key and Locking Friction Ramp	1
87831-1020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 10 Circuits, Gold	3
87831-1420	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 14 Circuits, Gold	3
87831-1620	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, Gold	2
87831-2020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 20 Circuits, Gold	2

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com

Datasheet for 76650-0188

Bill of Materials for Part No. 76650-0188 continued

Molex Part No.	Country of Origin	Description	Quantity in Kit
87831-2420	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 24 Circuits, Gold	2
87831-3020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 30 Circuits, Gold	2
87831-4020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 40 Circuits, Gold	2
87831-4420	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 44 Circuits, Gold	1
87831-5020	Singapore	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 50 Circuits, Gold	1

Recommended Molex Tool(s) for Part No. 76650-0188*

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.