

Datasheet for 76650-0188

General Information

Kit Part Number:	76650-0188
Connector Type:	Wire-to-Board
Solution:	Off the Board Connectors
Molex Family:	Milli-Grid™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	10, 14, 16, 20, 24, 30, 40, 44, 50
Current Rating:	1A
Mounting Style:	PCB Through Hole
Orientation:	IDT Receptacles, Vertical Headers
Pitch:	2.00mm (.079")
Tool Included:	No
Voltage Rating:	125V

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.

Features and Benefits

- 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
- 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

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
87568-1073	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 10 Circuits, Gold, without Center Polarization Key, with Locking Ramp	3
87568-1493	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ IDT with Polarization and Lock Ramp Receptacle	3
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	2
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
87831-1020	2.00mm (.079") Pitch 10 Circuit Milli-Grid™ Vertical Header	3
87831-1420	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ Vertical Header	3
87831-1620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, 0.38Âµm (15Âµm) 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

Recommended Molex Tool

Molex Part No.	Description
62100-2000 (not included in kit)	Click for more info
62100-3200 (not included in kit)	Click for more info