THE DATASHEET OF

0766500195

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Datasheet for 76650-0195

General Information	
Kit Part Number:	76650-0195
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, 4, 40, 44, 50, 6
Current Rating:	0.5-2A
Mounting Style:	PCB Through Hole, SMT (Surface Mount Technology)
Orientation:	IDT Receptacles, Right Angle Headers
Pitch:	2.00mm (.079")
Tool Included:	No
Voltage Rating:	125V
Wire Gauge (AWG):	30-24
Product Hightlights	

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.

Features and Benefits

- Early entry terminal design for superior contact
- 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 added retention forces after mating
- Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination

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
50394-8100	Milli-Grid™ Female Crimp Gold Terminal (30-24) AWG	100
51110-0460	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 4 Circuits, without Center Polarizing Key	2
51110-0660	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, without Center Polarizing Key	2
51110-1060	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, without Center Polarizing Key	2
51110-1451	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 14 Circuits, with Center Polarizing Key and Latching	2
51110-1651	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 16 Circuits, with Center Polarizing Key and Latching	2
87568-1063	2.00mm (.079") Pitch 10 Circuits Milli-Grid™ IDT Receptacle	2
87568-1073	2.00mm (.079") Pitch Milli-Grid™ IDT Receptacle, 10 Circuits, Gold, without Center Polarization Key, with Locking Ramp	2
87568-1493	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ IDT with Polarization and Lock Ramp Receptacle	2
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	1
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
87831-0420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 4 Circuits, 0.38Âµm (15Âµ") Gold	2
87831-0620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 6 Circuits, 0.38Âµm (15Âµ") Gold	2
87831-1620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 16 Circuits, 0.38Âµm (15Âµ") 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
87833-4020	2.00mm (.079") Pitch 40 Circuit Milli-Grid™ Right Angle Header	1
87831-1020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 10 Circuits, 0.38µm (15µ") Gold	2
87831-1420	2.00mm (.079") Pitch 14 Circuit Milli-Grid™ Vertical Header	2
87832-1020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 10 Circuits, Gold	2
87832-1420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 14 Circuits, Gold	2
87832-3020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 30 Circuits, Gold	2
87832-4020	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, SMT, 40 Circuits, Gold	1
87833-1020	2.00mm (.079") Pitch Milli-Grid™ 10 Circuits, Milli-Grid Right Angle Header	2
87833-1420	2.00mm (.079") Pitch Milli-Grid™ 14 CircuitsMilli-Grid Right Angle Header	2
87833-3020	2.00mm (.079") Pitch 30 Circuit Milli-Grid™ Right Angle Header	2

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

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