

## Excellent Integrated System Limited

Stocking Distributor

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[Molex Connector Corporation](#)  
[76650-0234](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## Datasheet for 76650-0234

### General Information

<b>Kit Part Number:</b>	76650-0234
<b>Connector Type:</b>	Wire-to-Board
<b>Solution:</b>	Off the Board
<b>Molex Family:</b>	KK®-100, Milli-Grid™, Mini-Latch™, Mini-SPOX™
<b>Certificates:</b>	N/A
<b>Country of Origin:</b>	Kit assembled in U.S.A

### Specifications

<b>Circuit Size:</b>	10, 2, 3, 4, 6
<b>Current Rating:</b>	0.5-2A, 1.5-3A, 2.5A
<b>Mounting Style:</b>	PCB Through Hole
<b>Orientation:</b>	Receptacles, Right Angle Headers, Vertical Headers
<b>Pitch:</b>	2.00mm (.079"), 2.50mm (.098"), 2.54mm (.100")
<b>Tool Included:</b>	No
<b>Voltage Rating:</b>	125V, 250V
<b>Wire Gauge (AWG):</b>	28-22, 30-22, 30-24

### Product Highlights

Mini-Latch™ connectors provide a reliable interface for industry-standard 2.50mm (.098" ) wire-to-board applications. The system includes a box-style contact design and housing-side terminal latch to provide protection to the contact area during and after assembly. The durable housing also includes guide rails and molded tabs to facilitate mating and unmating. The KK® system of "building block" connectors can be used to create thousands of different configurations, allowing each user to build a system that is precisely suited to their application. KK® has become known as a versatile interconnecting system developed to meet the challenge of modularization. The name SPOX™ comes from the shape of the terminal, which is like a "spring box". This design style provides multiple points of contact, protects the mating interface area, and prevents fish-hooking from wires during handling. 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

- Box-style contact protects contact area
- Cantilever design provides high contact pressure
- Very low profile
- Locking ramps for improved retention
- Polarizing features ensures proper mating
- Fully shrouded to protect pins during mating/unmating
- Guide rails and molded ledges facilitates mating and unmating
- Anti-fishhooking design
- Early entry terminal design for superior contact

#### Applications

- Vending and Gaming Machines
- Production Equipment
- Industrial Instruments

- Energy and Power
- Computer / Peripherals: Disk Drives, Storage, Servers, Notebook PC, Modems, Motherboards, Monitors
- Automotive
- Data communication equipment
- Office Automation: Printers, Fax machines, Scanners, Copiers
- Brown Goods
- Telecom: Servers, Hubs, Switches, Routers
- Entertainment: Set-top boxes, Car stereos, Video / DVD products
- Measuring / Analyzing Equipment, Security systems / alarms, Medical monitoring, Lab equipment
- Fitness equipment

### Bill of Materials

Molex Part No.	Description	Quantity
08-50-0114	KK® Female Crimp Terminal, 30-22 AWG	100
22-01-2021	2.54mm (.100") Pitch, KK® Receptacle, 2 Circuits	5
22-01-2041	2.54mm (.100") Pitch, KK® Receptacle, 4 Circuits	5
22-01-2061	2.54mm (.100") Pitch, KK® Receptacle, 6 Circuits	5
22-03-2021	2 Circuit, Vertical Wire-to-Board Header	5
22-03-2041	4 Circuit, Vertical Wire-to-Board Header	5
22-03-2061	6 Circuit, Vertical Wire-to-Board Header	5
22-05-2021	2 Circuit, Right Angle Wire-to-Board Header	3
22-05-2041	4 Circuit, Right Angle Wire-to-Board Header	3
22-05-2061	6 Circuit, Right Angle Wire-to-Board Header	3
08-70-1040	Mini-SPOX™ Female Terminal, 28-22 AWG	100
50-37-5023	2 Circuit 2.50mm (.098") Mini-SPOX™ Housing	5
50-37-5033	3 Circuit 2.50mm (.098") Mini-SPOX™ Housing	5
50-37-5043	4 Circuit 2.50mm (.098") Mini-SPOX™ Housing	5
22-03-5025	2 Circuit 2.5mm Mini-SPOX™ Vertical Header	5
22-03-5035	3 Circuit 2.5mm Mini-SPOX™ Vertical Header	5
22-03-5045	4 Circuit 2.5mm Mini-SPOX™ Vertical Header	5
22-05-7025	2 Circuit 2.50mm (.098") Mini-SPOX™ Right Angle Header	3
22-05-7035	3 Circuit 2.50mm (.098") Mini-SPOX™ Right Angle Header	3
22-05-7045	4 Circuit 2.50mm (.098") Mini-SPOX™ Right Angle Header	3
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	5
51110-0660	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 6 Circuits, without Center Polarizing Key	5
51110-1060	2.00mm (.079") Pitch, Milli-Grid™ Receptacle, 10 Circuits, without Center Polarizing Key	5
87831-0420	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 4 Circuits, 0.38Åµm (15Åµ") Gold	5
87831-0620	2.00mm (.079") Pitch Milli-Grid™ Header, Vertical, Through Hole, 6 Circuits, 0.38Åµm (15Åµ") Gold	5
87831-1020	2.00mm (.079") Pitch 10 Circuit Milli-Grid™ Vertical Header	5
87833-1020	2.00mm (.079") Pitch Milli-Grid™ 10 Circuits, Milli-Grid Right Angle Header	3
50802-9101	Mini-Latch™ Female Crimp Terminal, 28-22 AWG	100
51191-0300	2.50mm (.098") Pitch Mini-Latch™ Receptacle, 3 Circuits	5
51191-0400	2.50mm (.098") Pitch Mini-Latch™ Receptacle, 4 Circuits	5
51191-0600	2.50mm (.098") Pitch Mini-Latch™ Receptacle, 6 Circuits	5
22-04-1031	2.50mm (.098") Pitch Vertical Header, 3 Circuits	5
22-04-1041	2.50mm (.098") Pitch Vertical Header, 4 Circuits	5
22-04-1061	2.50mm (.098") Pitch Vertical Header, 6 Circuits	5
22-05-1032	2.50mm (.098") Pitch Right Angle Header, 3 Circuits	3
22-05-1042	2.50mm (.098") Pitch Right Angle Header, 4 Circuits	3
22-05-1062	2.50mm (.098") Pitch Right Angle Header, 6 Circuits	3
87833-0420	32.00mm (079") Pitch 4 Circuit Milli-Grid™ Right Angle Head	3
87833-0620	2.00mm (.079") Pitch 6 Circuit Milli-Grid™ Right Angle Header	3

### Recommended Molex Tool

Molex Part No.	Description
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