

## Datasheet for 76650-0150

### General Information

<b>Part Number:</b>	76650-0150
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	Micro Miniature Application Kit
<b>Description:</b>	Includes CLIK-Mate, PanelMate, Sherlock, Pico-Spox and MicroClasp Product Families. Pitches range: 1.25mm (.049") - 2.00mm (.079"). Positive and Friction Lock.
<b>Product Family:</b>	CLIK-Mate™, PanelMate™, Sherlock™, Pico-Spox™, and MicroClasp™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

<b>Design Configuration:</b>	Wire-to-Board and Wire-to-Wire
<b>Pitch:</b>	1.25mm (.049"), 1.50mm (.059"), and 2.00mm (.079")
<b>Connector Type:</b>	Receptacles, Plugs and Headers
<b>Mounting Orientation:</b>	Vertical and Right Angle
<b>Circuit Sizes:</b>	2, 3, 4, 6, 8, 9, 12 and 14
<b>Current Rating:</b>	1 Amp, 2 Amps, and 3 Amps
<b>Voltage:</b>	30, 50, 125, 250 Volts
<b>Wire size:</b>	(32-30), (30-28), (30-24), & (26-22) AWG

### Product Highlights

Molex's PanelMate™ series is an ultra low-profile connector system designed for tight packaging applications. - Molex's new CLIK-Mate™ connectors provide dual positive locks and a superior audible "click" to help ensure connectors are fully mated. - The Sherlock™ system utilizes Molex's proven 50212 terminal, along with a positive lock housing. - Molex's new MicroClasp™ system provides space savings and easy mating/unmating, plus, includes a unique inner positive lock that provides latch protection, secure retention and an audible mating "click". - Pico-Spox™ provides Anti-fishhooking box design protects contact area

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Features and Benefits	Applications
<ul style="list-style-type: none"> <li>• Tuning fork style contact design Secure contact, and avoids terminal stubbing</li> <li>• Flat area for pick-and-place Easy automatic board placement</li> <li>• Audible "click", low insertion force and secure mating / Inner positive lock Latch protection, secure mating, audible "click"</li> <li>• Box-style contact Protects contact area / Two-point contact design Secure electrical contact, High current capable</li> <li>• Polarizing features Ensures proper mating / Reinforced metal solder tabs Secure PCB</li> </ul>	<ul style="list-style-type: none"> <li>• Appliances White Goods</li> <li>• Automotive</li> <li>• Home Applications LCD/PDP TVs Consumer</li> <li>• Computer Data Communication equipment Vending and Gaming</li> <li>• Industrial and Business Equipment Office machines Medical</li> <li>• Any application requiring superior mating assurance</li> </ul>

**Bill of Materials for Part No. 76650-0150**

Molex Part No.	Country of Origin	Description	Quantity in Kit
50641-8141	Japan	PanelMate™ Female Terminal 30-28 AWG	25
50753-8141	Japan	PanelMate™ Female Terminal 32-30 AWG	25
51146-0200	Japan	1.25mm (.049") Pitch PanelMate™, 2 Circuit Ultra Low-Profile Receptacle	2
51146-0600	Japan	1.25mm (.049") Pitch PanelMate™, 6 Circuit Ultra Low-Profile Receptacle	2
51146-0900	Japan	1.25mm (.049") Pitch PanelMate™, 9 Circuit Ultra Low-Profile Receptacle	2
53780-0270-P	Japan	1.25mm (.049") Pitch PanelMate™, 2 Circuit Right Angle Header	2
53780-0670-P	Japan	1.25mm (.049") Pitch PanelMate™, 6 Circuit Right Angle Header	2
53780-0970-P	Japan	1.25mm (.049") Pitch PanelMate™, 9 Circuit Right Angle Header	2
502438-0100	Japan	CLIK-Mate™ Male Crimp Terminal 26-22 AWG Loose	50
502439-0400	Japan	2.0mm (.079") Pitch CLIK-Mate™, 4 Circuit Plug Housing	2
502439-0600	Japan	2.0mm (.079") Pitch CLIK-Mate™, 6 Circuit Plug Housing	2
502439-0800	Japan	2.0mm (.079") Pitch CLIK-Mate™, 8 Circuit Plug Housing	2
502443-0470	Japan	2.0mm (.079") Pitch CLIK-Mate™, 4 Circuit Receptacle Vertical SMT	2
502443-0670	Japan	2.0mm (.079") Pitch CLIK-Mate™, 6 Circuit Receptacle Vertical SMT	2
502443-0870	Japan	2.0mm (.079") Pitch CLIK-Mate™, 8 Circuit Receptacle Vertical SMT	2
502494-0470	Japan	2.0mm (.079") Pitch CLIK-Mate™, 4 Circuit Receptacle Right Angle SMT	2

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502494-0670	Japan	2.0mm (.079") Pitch CLIK-Mate™, 6 Circuit Receptacle Right Angle SMT	2
502494-0870	Japan	2.0mm (.079") Pitch CLIK-Mate™, 8 Circuit Receptacle Right Angle SMT	2
87421-0000-C	SINGAPORE	Pico-Spox™ Female Crimp Terminal, Tin (Sn), 24-30 AWG	100
87437-0343-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 3 Circuit, Vert., SMT, Header	2
87437-0443-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 4 Circuit, Vert., SMT, Header	2
87437-0643-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 6 Circuit, Vert., SMT, Header	2
87438-0343-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 3 Circuit, R/A, SMT, Header	2
87438-0443-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 4 Circuit, R/A, SMT, Header	2
87438-0643-P	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 6 Circuit, R/A, SMT, Header	2
87439-0300	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 3 Circuit, Receptacle Housing	2
87439-0400	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 4 Circuit, Receptacle Housing	2
87439-0600	SINGAPORE	1.50mm (.059") Pitch Pico-Spox™, 6 Circuit, Receptacle Housing	2
50212-8100	Japan	Female Loose Crimp Terminal 30-24 AWG	100
35507-0300	KOREA	2.0mm Pitch Sherlock™, 3 Circuit Receptacle Housing	2
35507-0400	KOREA	2.0mm Pitch Sherlock™, 4 Circuit Receptacle Housing	2
35507-0600	KOREA	2.0mm Pitch Sherlock™, 6 Circuit Receptacle Housing	2
35362-0350	KOREA	2.0mm Pitch Sherlock™, 3 Circuit Vertical Header	2
35362-0450	KOREA	2.0mm Pitch Sherlock™, 4 Circuit Vertical Header	2
35362-0650	KOREA	2.0mm Pitch Sherlock™, 6 Circuit Vertical Header	2
35363-0360	KOREA	2.0mm Pitch Sherlock™, 3 Circuit Right Angle Header	2
35363-0460	KOREA	2.0mm Pitch Sherlock™, 4 Circuit Right Angle Header	2
35363-0660	KOREA	2.0mm Pitch Sherlock™, 6 Circuit Right Angle Header	2
56134-9100	Japan	MicroClasp™ Female Terminal 26-22 AWG	25
51353-0800	Japan	2.00mm (.079") Pitch MicroClasp™ 8 Circuit Receptacle Dual Row	2
51353-1200	Japan	2.00mm (.079") Pitch MicroClasp™ 12 Circuit Receptacle Dual Row	2
51353-1400	Japan	2.00mm (.079") Pitch MicroClasp™ 14 Circuit Receptacle Dual Row	2
55959-0830	Japan	2.00mm (.079") Pitch MicroClasp™ 8 Circuit Right Angle Header Dual Row	2
55959-1230	Japan	2.00mm (.079") Pitch MicroClasp™ 12 Circuit Right Angle Header Dual Row	2

**For additional Molex / Waldom Design and Solution kits please go to [www.molexkits.com](http://www.molexkits.com)**

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55959-1430	Japan	2.00mm (.079") Pitch MicroClasp™ 14 Circuit Right Angle Header Dual Row	2
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**Recommended Molex Tool(s) for Part No. 76650-0150\***

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
63811-7900 *	SWEDEN	Hand Crimp Tool , UL Approved - PanelMate™
57352-5000 *	USA	JAPAN Hand Crimp Tool - PanelMate™
57352-5100 *	JAPAN	JAPAN Hand Crimp Tool - PanelMate™
63819-2800 *	SWEDEN	Hand Crimp Tool - (22-26 AWG Terminals) CLIK-Mate™
11-03-0043 *	USA	Extraction Tool - CLIK-Mate™
63811-6400 *	GERMANY	Hand Crimp Tool - Pico-Spox™
63819-0500 *	SWEDEN	Hand Crimp Tool - Sherlock™ / Micro-Latch™
57105-6000 *	USA	Extraction Tool - Sherlock™ / Micro-Latch™
63811-6300 *	GERMANY	Hand Crimp Tool - MicroClasp™
57404-5300 *	JAPAN	JAPAN Hand Crimp Tool - MicroClasp™
57399-6000 *	JAPAN	JAPAN Extraction Tool - MicroClasp™

\*Tool(s) not included in kit. Tool(s) ordered separately.