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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 76650-0165

### General Information

<b>Part Number:</b>	76650-0165
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	PanelMate Connector Kit
<b>Description:</b>	Ultra Low Profile SMT Right Angle Header and Receptacle
<b>Product Family:</b>	PanelMate™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Board
<b>Pitch:</b>	1.25mm (.049")
<b>Connector Type:</b>	Receptacles and Headers

#### Mounting

<b>Orientation:</b>	Right Angle
<b>Circuit Sizes:</b>	2, 4, 5, 6, 9 and 14
<b>Current Rating:</b>	1 Amp
<b>Voltage:</b>	125 Volts
<b>Wire:</b>	(32-30) and (30-28) AWG

### Product Highlights

Molex's 1.25mm (.049") pitch PanelMate™ series is an ultra low-profile connector system designed for tight packaging applications, requiring profile heights below 2.0mm (.079"). The PanelMate name derives from the original flat-panel LCD display applications for which it was designed.

### Features and Benefits

### Applications

**Datasheet for 76650-0165**

- Very thin Receptacle design (1.80mm)
- Housing lance, extra terminal retention
- Friction lock provides secure mating
- Polarized design
- Ultra low mating profile of 1.90mm (.075")
- Durable blade-type pins, protection
- Metal solder tabs provide PCB retention and strain relief for SMT tails
- Solder-conducting fillet SMT tail design helps ensure stable solder joints
- Fully-shrouded anti-flux wicking design protects contacts during soldering
- Box-style contact design protection
- Locking tang latches into housing window

- LCD
- Mini PCI Module\*
- Mobile Phones
- Camcorder
- Digital Camera
- Handy Terminal
- Medical Equipment
- Base Stations
- Notebook PC/PDA
- Any low-profile application

\*Certain PanelMate parts have been adopted as part of the Mini PCI module standard.

**Bill of Materials for Part No. 76650-0165**

Molex Part No.	Country of Origin	Description	Quantity in Kit
50641-8141	Japan	PanelMate™ Female Gold Terminal 30-28 AWG	25
50753-8141	Japan	PanelMate™ Female Gold Terminal 32-30 AWG	25
51146-0200	Japan	1.25mm (.049") Pitch PanelMate™, 2 Circuit Ultra Low-Profile Receptacle	5
51146-0400	Japan	1.25mm (.049") Pitch PanelMate™, 4 Circuit Ultra Low-Profile Receptacle	5
51146-0500	Japan	1.25mm (.049") Pitch PanelMate™, 5 Circuit Ultra Low-Profile Receptacle	5
51146-0600	Japan	1.25mm (.049") Pitch PanelMate™, 6 Circuit Ultra Low-Profile Receptacle	5
51146-0900	Japan	1.25mm (.049") Pitch PanelMate™, 9 Circuit Ultra Low-Profile Receptacle	5
51146-1400	Japan	1.25mm (.049") Pitch PanelMate™, 14 Circuit Ultra Low-Profile Receptacle	5
53780-0270	Japan	1.25mm (.049") Pitch PanelMate™, 2 Circuit Right Angle SMT Header	5
53780-0470	Japan	1.25mm (.049") Pitch PanelMate™, 4 Circuit Right Angle SMT Header	5
53780-0570	Japan	1.25mm (.049") Pitch PanelMate™, 5 Circuit Right Angle SMT Header	5
53780-0670	Japan	1.25mm (.049") Pitch PanelMate™, 6 Circuit Right Angle SMT Header	5
53780-0970	Japan	1.25mm (.049") Pitch PanelMate™, 9 Circuit Right Angle SMT Header	5
53780-1470	Japan	1.25mm (.049") Pitch PanelMate™, 14 Circuit Right Angle SMT Header	5

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



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#### Recommended Molex Tools for Part No. 76650-0165\*

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
63811-7900 *	Sweden	Hand Crimp Tool, UL Approved
57352-5000 *	USA	Hand Crimp Tool - Japan
57352-5100 *	USA	Hand Crimp Tool - Japan

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