

## 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**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Very thin Receptacle design (1.80mm)</li> <li>• Housing lance, extra terminal retention</li> <li>• Friction lock provides secure mating</li> <li>• Polarized design</li> <li>• Ultra low mating profile of 1.90mm (.075")</li> <li>• Durable blade-type pins, protection</li> <li>• Metal solder tabs provide PCB retention and strain relief for SMT tails</li> <li>• Solder-conducting fillet SMT tail design helps ensure stable solder joints</li> <li>• Fully-shrouded anti-flux wicking design protects contacts during soldering</li> <li>• Box-style contact design protection</li> <li>• Locking tang latches into housing window</li> </ul> | <ul style="list-style-type: none"> <li>• LCD</li> <li>• Mini PCI Module*</li> <li>• Mobile Phones</li> <li>• Camcorder</li> <li>• Digital Camera</li> <li>• Handy Terminal</li> <li>• Medical Equipment</li> <li>• Base Stations</li> <li>• Notebook PC/PDA</li> <li>• Any low-profile application</li> </ul> |
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\*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)**

### Datasheet for 76650-0165

**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.

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