

Datasheet for 76650-0165

General Information

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

Specifications

Design

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

Mounting

Orientation:	Right Angle
Circuit Sizes:	2, 4, 5, 6, 9 and 14
Current Rating:	1 Amp
Voltage:	125 Volts
Wire:	(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

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- 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

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Recommended Molex Tools for Part No. 76650-0165*

Molex Part No.	Country of Origin	Description
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.