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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 76650-0163

### General Information

<b>Part Number:</b>	76650-0163
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	MINI-FIT RTC Power Connector Kit
<b>Description:</b>	Vertical Header and Receptacle
<b>Product Family:</b>	Mini-Fit RTC™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant, UL, and CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Board
<b>Pitch:</b>	4.20mm (.165")
<b>Connector Type:</b>	Receptacles and Headers
<b>Mounting</b>	
<b>Orientation:</b>	Vertical
<b>Circuit Sizes:</b>	4, 6, 8, 10,12 and 24
<b>Current Rating:</b>	8 - 12 Amps - Dependent on AWG and Circuit Size
<b>Voltage:</b>	600 VoltsAC RMS / VoltsDC
<b>Wire size:</b>	24-18 AWG

### Product Highlights

Mini-Fit Reflow Temperature Compatible (RTC) Headers can withstand high SMT solder-reflow temperatures to guarantee compatibility with lead-free RoHS reflow processes. Mini-Fit RTC headers mate with standard Mini-Fit® receptacles, and share the same design features of the Mini-Fit Jr. headers, ensuring compatibility and reliability. Mini-Fit products provide a cost-effective solution for mid-range power applications that require high-density and current-carrying capability.

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Features and Benefits	Applications
<ul style="list-style-type: none"> <li>• Press-fit PCB pegs compatible with existing Mini-Fit receptacles and provide polarization during placement on the PCB</li> <li>• High-temperature LCP housing withstands RoHS lead-free processing up to 260°C peak (20 seconds)</li> <li>• Thumb latch for easy unmating</li> <li>• Positive housing lock for secure mating</li> <li>• Fully isolated terminals to protect contacts</li> <li>• Four gas-tight points of contact on Tin-plated contacts</li> </ul>	<ul style="list-style-type: none"> <li>• Desktop/tower computer</li> <li>• Power supplies</li> <li>• Networking: Hubs, Servers</li> <li>• Industrial</li> <li>• Medical</li> <li>• Transportation</li> <li>• Military Commercial Off-the-Shelf (COTS)</li> <li>• Mid-range power applications</li> </ul>

**Bill of Materials for Part No. 76650-0163**

Molex Part No.	Country of Origin	Description	Quantity in Kit
39-00-0039-C	USA	Female Term 24-18 AWG Tin	100
46207-0004	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 4 Circuits	5
46207-0006	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 6 Circuits	4
46207-0008	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 8 Circuits	3
46207-0010	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 10 Circuits	2
46207-0012	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 12 Circuits	2
46207-0024	Mexico	4.20mm (.165") Pitch Mini-Fit RTC™ Vertical Header 24 Circuits	1
39-01-2040	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 4 Circuits	5
39-01-2060	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 6 Circuits	4
39-01-2080	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 8 Circuits	3
39-01-2100	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 10 Circuits	2
39-01-2120	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 12 Circuits	2
39-01-2240	USA	4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle 24 Circuits	1

**Recommended Molex Tool(s) for Part No. 76650-0163\***

Molex Part No.	Country of Origin	Description
63819-0900 *	Sweden	Hand Crimp Tool
11-03-0044 *	USA	Extraction Tool

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

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

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