

Datasheet for 76650-0163

General Information

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

Specifications

Design

| | |
|------------------------|---|
| Configuration: | Wire-to-Board |
| Pitch: | 4.20mm (.165") |
| Connector Type: | Receptacles and Headers |
| Mounting | |
| Orientation: | Vertical |
| Circuit Sizes: | 4, 6, 8, 10,12 and 24 |
| Current Rating: | 8 - 12 Amps - Dependent on AWG and Circuit Size |
| Voltage: | 600 VoltsAC RMS / VoltsDC |
| Wire size: | 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"> • Press-fit PCB pegs compatible with existing Mini-Fit receptacles and provide polarization during placement on the PCB • High-temperature LCP housing withstands RoHS lead-free processing up to 260°C peak (20 seconds) • Thumb latch for easy unmating • Positive housing lock for secure mating • Fully isolated terminals to protect contacts • Four gas-tight points of contact on Tin-plated contacts | <ul style="list-style-type: none"> • Desktop/tower computer • Power supplies • Networking: Hubs, Servers • Industrial • Medical • Transportation • Military Commercial Off-the-Shelf (COTS) • Mid-range power applications |

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

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www.molexkits.com



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

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