

Datasheet for 76650-0163

General Information

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