



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Datasheet for 76650-0002

General Information

Part Number:	76650-0002
Manufacturer:	Molex / Waldom
Title:	Mini-Fit Sr. Power Connector Kit
Description:	Fully Polarized Single Row Plug and Receptacle
Product Family:	Mini-Fit Sr.™
Certificates:	(Molex Parts within this kit) - EU RoHS Compliant, UL, CSA and TUV
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design

Configuration:	Wire-to-Wire
Pitch:	10mm (.393")
Connector Type:	Plugs and Receptacles
Circuit Sizes:	2, 3, 4 and 6
Current Rating:	(23 - 33) Amps - Depending on circuit size and wire gauge
Voltage:	600 Volts
Wire size:	(12-10) AWG

Product Highlights

Need for power connectors above 20 Amps. Lower mating forces with increased reliability. More current packed into fewer lines. The system is UL, CSA and TUV approved. -40 Degrees C to +105 Degrees C

Datasheet for 76650-0002

Features and Benefits	Applications
<ul style="list-style-type: none"> • High current • Fully polarized, Prevents Mis-Mating • Positive Locks, Secure Mating, guards against accidental disengagement of housings • Low engagement force for greater ease in mating • Includes mandatory Terminal Position Assurance (TPA) clip • Fully-Isolated Contacts, Withstand Reflow Process • Four points of electrical contact provide high reliability • Design Flexibility 	<ul style="list-style-type: none"> • High-end Computers • Power Supplies, Generators, Battery Chargers • Factory Automation Machines • Cellular Base Station • Air Conditioners • Telecom Backplane • Stadium Lighting and Scoreboards • Medical Equipment • Power Station • Deep Well Pumps • Welders • Construction Signs • Other High Amperage Devices • HVAC

Bill of Materials for Part No. 76650-0002

Molex Part No.	Country of Origin	Description	Quantity in Kit
42815-0011	USA	Mini-Fit Sr.™ Female Socket Terminals, 12-10 AWG	25
42816-0212	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 2 Circuit	3
42816-0312	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 3 Circuit	3
42816-0412	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 4 Circuit	2
42816-0612	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 6 Circuit	2
42817-0011	USA	Mini-Fit Sr.™ Male Pin Terminals, 12-10 AWG	25
42818-0212	USA	10mm (.393") Mini-Fit Sr.™ Plug 2 Circuit	3
42818-0312	USA	10mm (.393") Mini-Fit Sr.™ Plug 3 Circuit	3
42818-0412	USA	10mm (.393") Mini-Fit Sr.™ Plug 4 Circuit	2
42818-0612	USA	10mm (.393") Mini-Fit Sr.™ Plug 6 Circuit	2

Recommended Molex Tool(s) for Part No. 76650-0002*

Molex Part No.	Country of Origin	Description
63811-1600 *	Germany	Hand Crimper
63813-0400 *	USA	Extraction Tool

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