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Molex 09-48-1054

Molex KK 396 Series Connector Instruction Manual

Model: 09-48-1054

PRODUCT OVERVIEW

This manual provides detailed instructions for the proper use, installation, and maintenance of the Molex KK 396 Series Connector, Model 09-48-1054. This connector is a 5-position, single-row receptacle with a 3.96mm pitch, designed for board-to-board applications and through-hole right-angle mounting. It is part of the KK 396 41815 Series and is RoHS compliant.



Image: A Molex KK 396 Series 5-position connector receptacle (Model 09-48-1054). This image shows the white plastic housing with five contact points, designed for through-hole right-angle mounting.

SAFETY INFORMATION

Always observe the following safety precautions when handling and installing the connector:

- Ensure power is disconnected from the circuit before installation or removal.
- Handle components with care to avoid damage to pins or housing.
- Refer to relevant industry standards and local regulations for electrical installations.
- Do not modify the connector. Use only as intended.

SETUP AND INSTALLATION

The Molex KK 396 Series Connector (09-48-1054) is designed for through-hole right-angle mounting on a printed circuit

board (PCB). Follow these steps for proper installation:

- 1. Prepare the PCB:** Ensure the PCB has the correct hole pattern and dimensions for the 5-position, 3.96mm pitch connector.
- 2. Orient the Connector:** Carefully align the connector pins with the corresponding holes on the PCB. Note the right-angle orientation.
- 3. Insert the Connector:** Gently push the connector into the PCB holes until it sits flush with the board surface. Avoid excessive force.
- 4. Solder Connections:** Solder each pin to its respective pad on the PCB. Ensure good solder joint integrity, free from bridges or cold joints. Use appropriate soldering techniques and equipment.
- 5. Inspect Installation:** Visually inspect all solder joints and the connector's seating on the PCB to ensure proper installation.

For optimal performance, ensure the mating connector (e.g., Molex KK 396 Series header) is correctly aligned and engaged.

OPERATING PRINCIPLES

The Molex KK 396 Series Connector facilitates reliable electrical connections between two circuit boards or between a board and a wire harness. Its operation is passive, serving as a conduit for electrical signals and power.

- Connection:** The receptacle (Model 09-48-1054) mates with a compatible Molex KK 396 Series header. Ensure proper alignment before mating to prevent pin bending or damage.
- Disconnection:** To disconnect, gently pull the mating connector straight away from the receptacle. Avoid twisting or prying, which can damage the contacts or housing.
- Current and Voltage:** Adhere to the specified current and voltage ratings for the KK 396 series to prevent overheating or electrical failure. Consult the Molex datasheet for detailed electrical characteristics.

MAINTENANCE

The Molex KK 396 Series Connector is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure continued performance.

- Cleaning:** If necessary, clean the connector contacts using a lint-free cloth and a suitable electronic contact cleaner. Ensure the cleaner is non-residue and safe for plastics.
- Inspection:** Periodically inspect the connector for signs of physical damage, corrosion, or loose connections. Check for bent or broken pins, cracks in the housing, or discoloration due to overheating.
- Storage:** Store unused connectors in a dry, clean environment, away from direct sunlight and extreme temperatures, to prevent degradation of materials.

TROUBLESHOOTING

This section addresses common issues that may arise with electrical connectors.

Problem	Possible Cause	Solution
Intermittent Connection	Poorly soldered joint, bent pin, debris in contact area, loose mating connector.	Re-solder joint, straighten/replace bent pin, clean contacts, ensure mating connector is fully seated.
No Connection	Open circuit, incorrect wiring, damaged connector, incompatible mating connector.	Check circuit continuity, verify wiring diagram, replace damaged connector, ensure correct mating part.

Problem	Possible Cause	Solution
Connector Overheating	Exceeding current rating, poor contact resistance, short circuit.	Verify current draw is within specifications, inspect contacts for corrosion, check for short circuits in the system.

If issues persist, consult a qualified electronics technician or contact Molex technical support.

SPECIFICATIONS

Key specifications for the Molex KK 396 Series Connector, Model 09-48-1054:

- **Product Type:** Receptacle Connector
- **Number of Positions:** 5
- **Number of Rows:** 1
- **Pitch Spacing:** 3.96mm
- **Connector System:** Board-to-Board
- **Mounting Type:** Through Hole Mount Right Angle
- **Contact Material:** Phosphor Bronze
- **Contact Plating:** Tin
- **Product Range:** KK 396 41815 Series
- **RoHS Compliant:** Yes

For complete technical specifications, refer to the official Molex datasheet for part number 09-48-1054.

WARRANTY AND SUPPORT

This product is manufactured by Molex. For information regarding product warranty, technical support, or specific application guidance, please refer to the official Molex website or contact their customer service department.

Note: The return policy for this item is non-cancelable and non-returnable as per the seller's terms at the time of purchase. This does not affect any manufacturer's warranty that may apply.

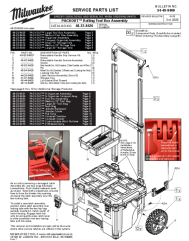
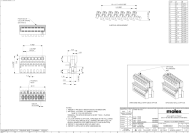
Molex Official Website: www.molex.com



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Related Documents - 09-48-1054

Titol del document i descripció breu del contingut. Philips 5-Year Commercial Warranty Terms and Conditions for Bagged and Bagless Vacuum Cleaners Este documento describe los términos y condiciones de la garantía comercial de 5 años para aspiradoras con bolsa y sin bolsa de Philips. Incluye información sobre elegibilidad del producto, período de garantía, derechos del consumidor y datos de procesamiento de información.	Philips 5-Year Commercial Warranty Terms and Conditions for Bagged and Bagless Vacuum Cleaners This document outlines the terms and conditions for Philips' 5-year commercial warranty for bagged and bagless vacuum cleaners, including product eligibility, warranty period, consumer rights, and data processing information.
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	Milwaukee Li-Ion Battery Pack Safety, Operation, and Warranty Information Comprehensive guide to safe operation, charging, maintenance, and warranty details for Milwaukee Li-Ion battery packs, including model numbers and important safety warnings.
	Milwaukee PACKOUT Service Parts List Detailed service parts list for Milwaukee PACKOUT tool storage systems, including tool boxes, organizers, totes, and dollies. Find part numbers, descriptions, and assembly instructions for various PACKOUT models.
	Milwaukee Lithium-Ion Battery Packs: Safety, Operation, and Warranty Information Comprehensive safety instructions, operating guidelines, functional descriptions, and warranty details for Milwaukee Lithium-Ion battery packs, including model numbers and troubleshooting tips.
	Molex Appli-Mate 2.5 Female Connector Specifications Detailed specifications and part number configurations for the Molex Appli-Mate 2.5 Female Connector series, including various circuit counts, end wall options, and terminal configurations.
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[\[pdf\]](#) Specifications Datasheet

Datasheet Molex 09 48 1054 Headers and Wire Housings IBS Electronics 009481054 datasheet octopart 13792093 |||

Part Number: Status: Overview: Description: This document was generated on 02/22/2013 PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION **09-48-1054** Active KK Interconnection System 3.96mm Pitch KK PC Board Connector, Right Angle, Polyester Connector, 5.00m Tin Sn , 5 Circuits Documents: 3D Mo...

lang:en score:22 filesize: 59.05 K page_count: 2 document date: 2013-02-22

	www.molex.com	
	Sales@molex.com	
PLEASE CHECK WITH MOLEX.COM FOR LATEST PART INFORMATION		
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Part Number: Status: Overview: Description: This document was generated on 05/14/2020 PLEASE CHECK ... ication PS-08-50-001 PDF Packaging Specification PK-41815-001-000 PDF Symbol Footprint Data SYM-09-48-1054 PDF RoHS Certificate of Compliance PDF Series image - Reference only Agency Certifi... lang:en score:20 filesize: 47.94 K page_count: 2 document date: 2020-05-14



EST. 1939/1942 IN U.S.A. & WORLDWIDE

RoHS Certificate of Compliance

06/104/2013

Molex is committed to managing the use of chemical substances in accordance with governmental regulations, industry standards, and customer specific requirements in order to protect the environment. For each part listed, the document provides:

- **EU RoHS Compliance Status.** EU RoHS status is declared per Directive 2011/65/EU and its subsequent amendments. Homogeneous materials of parts that are compliant to this legislation have less than 0.1% by weight each of lead, mercury, hexavalent chromium, PBBs, and PFDE, and 0.01% by weight of cadmium. In situations where an exemption applies, the preceding limits, corresponding to the exempted substance(s), may be higher.

Molex's sole liability for incorrectly certifying a product shall be either replacement of the Molex product or, alternatively and in the sole discretion of Molex, return of the purchase price paid for the relevant Molex product.

For additional information regarding Molex's environmental initiatives and further explanation of this information, please visit www.molex.com



DAVID J. SMITH
Director, Global Environmental Health & Safety (GHEHS)

Table A

Molex Part Number	Part Description	RoHS Compliance Status
00-004110-24	2.0mm Pitch Pin Header, 20 Positions, Right Angle, Polyester Connector, 2.0mm Pin Spacing, 0.5mm Pitch	ELV and RoHS Compliant

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statement sigma octopart 16270063 |||

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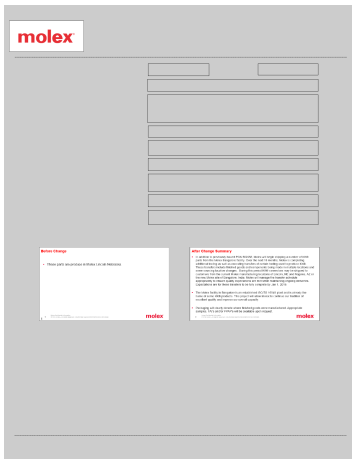
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09 48 1054 molex pdm docs adobe3D

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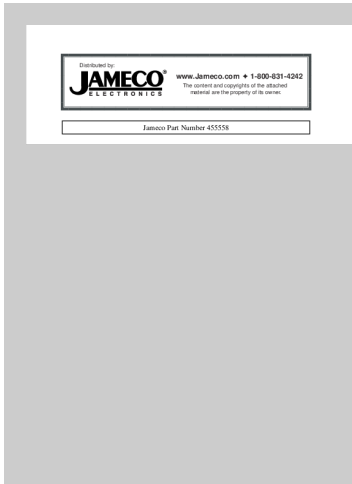
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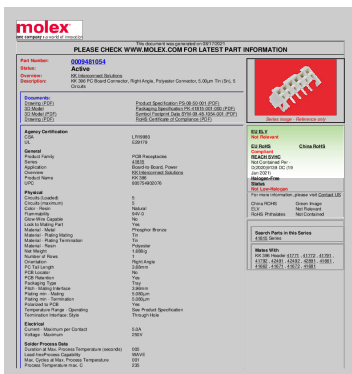
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MOLEX INC 09 48 1044 Molex 156 K Connectors Data Sheet current 4CKT PCB SIDE ENTRY

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Distributed by: www.Jameco.com 1-800-831-4242 The content and copyrights of the attached material Tin Select Gold 09-48-1024 09-48-3025 09-48-1034 09-48-3035 09-48-1044 09-48-3045 **09-48-1054** 09-48-3055 09-48-1064 09-48-3065 09-48-1074 09-48-3075 09-48-1084 09-48-308...

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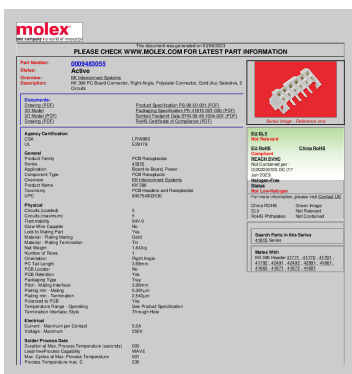
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Datasheet 2446752 Molex Built in receptacles standard Total number of pins 5 Contact spacing 3 96 mm

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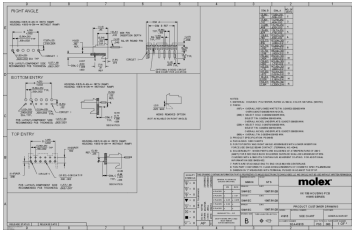


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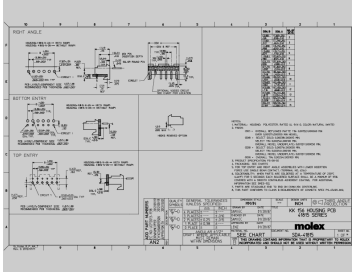


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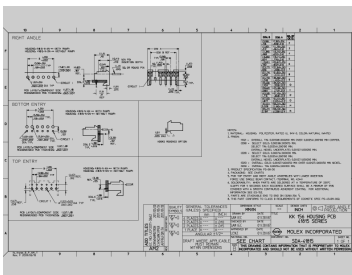


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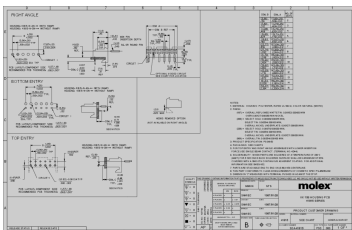


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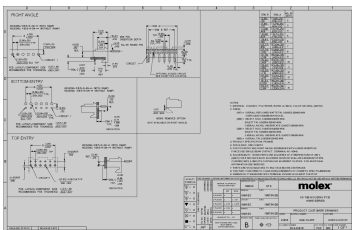


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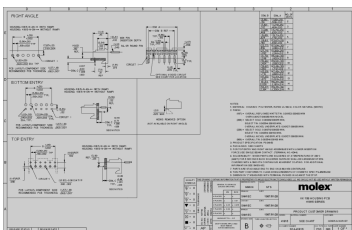


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