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**Part Number:** [171857-3009](#)  
**Status:** **Active**  
**Overview:** [KK® Interconnect System - Molex](#)  
**Description:** 2.54mm Pitch, KK® 254 RPC Wire-to-Board Right-Angle Header with Friction Lock, Tin (Sn) Plating, Tape and Reel, 9 Circuits

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                   | <a href="#">Test Summary TS-171856-0001 (PDF)</a>    |
| <a href="#">Drawing (PDF)</a>                              | <a href="#">Test Summary TS-171857-0001 (PDF)</a>    |
| <a href="#">Product Specification PS-171856-0001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Product Specification PS-171856-0002 (PDF)</a> |  |



**General**

|                |   |
|----------------|---|
| Product Family | PCB Headers                                     |
| Series         | <a href="#">171857</a>                          |
| Application    | Power, Signal, Wire-to-Board                    |
| Overview       | <a href="#">KK® Interconnect System - Molex</a> |
| Product Name   | KK® 254   |
| UPC            | 887191716367                                    |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 9                              |
| Circuits (maximum)             | 2                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| First Mate / Last Break        | No                             |
| Glow-Wire Compliant            | Yes                            |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Lock to Mating Part            | Yes                            |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Nickel                         |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 1.193/g                        |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Embossed Tape on Reel          |
| Pitch - Mating Interface       | 2.54mm                         |
| Plating min - Mating           | 1.524µm                        |
| Polarized to Mating Part       | Yes                            |
| Shrouded                       | Partial                        |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 4A   |
| Voltage - Maximum             | 250V |

**Solder Process Data**

|  |    |
|--|----|
| Duration at Max. Process Temperature (seconds) | 30 |
|--|----|

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Low-Halogen Status**  
**Low-Halogen**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[171857Series](#)

**Mates With**

[4455](#) , [2695](#) , [6471](#)

|   |                              |
|---|------------------------------|
| Lead-free Process Capability            | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 3                            |
| Process Temperature max. C              | 260                          |

### **Material Info**

### **Reference - Drawing Numbers**

|                       |                                |
|-----------------------|--------------------------------|
| Product Specification | PS-171856-0001, PS-171856-0002 |
| Sales Drawing         | SD-171857-0001                 |
| Test Summary          | TS-171856-0001, TS-171857-0001 |

This document was generated on 10/10/2014

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