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**Part Number:** [0022281031](#)  
**Status:** **Active**  
**Overview:** [KK® Interconnect System - Molex](#)  
**Description:** KK® 254 Breakaway Header, Right-Angle with Friction Lock, 3 Circuits, 0.38µm Gold (Au) Selective Plating

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-10-07-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

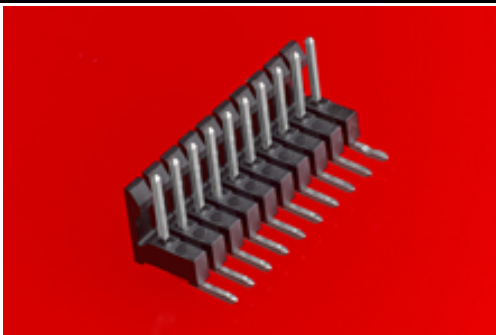
|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Product Family                | PCB Headers                                     |
| Series                        | <a href="#">42228</a>                           |
| Application                   | Signal, Wire-to-Board                           |
| Application Tooling Part Link | 11-20-1230                                      |
| Overview                      | <a href="#">KK® Interconnect System - Molex</a> |
| Product Name                  | KK® 254                                         |
| UPC                           | 800754940399                                    |

**Physical**

|                                |                           |
|--------------------------------|---------------------------|
| Breakaway                      | Yes                       |
| Circuits (Loaded)              | 3                         |
| Circuits (maximum)             | 3                         |
| Color - Resin                  | Black                     |
| Durability (mating cycles max) | 100                       |
| Flammability                   | 94V-0                     |
| Glow-Wire Compliant            | No                        |
| Lock to Mating Part            | Yes                       |
| Material - Metal               | Brass                     |
| Material - Plating Mating      | Gold                      |
| Material - Plating Termination | Tin                       |
| Material - Resin               | Nylon                     |
| Net Weight                     | 0.434/g                   |
| Number of Rows                 | 1                         |
| Orientation                    | Right Angle               |
| PC Tail Length                 | 3.05mm                    |
| PCB Locator                    | No                        |
| PCB Retention                  | None                      |
| PCB Thickness - Recommended    | 1.60mm                    |
| Packaging Type                 | Bag                       |
| Pitch - Mating Interface       | 2.54mm                    |
| Plating min - Mating           | 0.381µm                   |
| Plating min - Termination      | 2.540µm                   |
| Polarized to Mating Part       | Yes                       |
| Polarized to PCB               | No                        |
| Shrouded                       | Partial                   |
| Stackable                      | No                        |
| Temperature Range - Operating  | See Product Specification |
| Termination Interface: Style   | Through Hole              |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 4.0A |
| Voltage - Maximum             | 500V |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**China RoHS**

**REACH SVHC**

Not Contained Per -  
ED/30/2017 (7 July  
2017)

**Halogen-Free  
Status**

**Not Low-Halogen**

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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[42228](#) Series

**Mates With**

KK® Crimp Housing [2695](#) , [6471](#) , [7880](#) ,  
KK® PC Board Connector [4455](#)

**Solder Process Data**

|                                                |      |
|------------------------------------------------|------|
| Duration at Max. Process Temperature (seconds) | 005  |
| Lead-freeProcess Capability                    | WAVE |
| Max. Cycles at Max. Process Temperature        | 001  |
| Process Temperature max. C                     | 235  |

**Material Info**

|                    |            |
|--------------------|------------|
| Engineering Number | 42228-0038 |
|--------------------|------------|

**Reference - Drawing Numbers**

|                       |                                |
|-----------------------|--------------------------------|
| Product Specification | PS-10-07-001                   |
| Sales Drawing         | SD-42228-001, SD-42228-001-002 |

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