molex



**Part Number :** 22289101
**Product Description :** KK 254 Breakaway Header, Right-Angle Surface Mount Compatible, 10 Circuits, Tin (Sn) Plating, Mating Pin Length 8.23mm, with Kinked PC Tails
**Series Number :** 42377
**Status :** Active
**Product Category :** PCB Headers and Receptacles
**Engineering Number :** 42377-0185

## Documents & Resources

### Drawings

022289101_sd.pdf

PK-40873-0041-001.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-22-28-8101-001.zip

### Specifications

PS-10-07-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21 |
| REACH SVHC | Not Contained per D(2025)4165-DC (25 June 2025) |

| | |
|---|---|
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements
- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 42377 |
| Description | KK 254 Breakaway Header, Right-Angle Surface Mount Compatible, 10 Circuits, Tin (Sn) Plating, Mating Pin Length 8.23mm, with Kinked PC Tails |
| Application | Board-to-Board, Signal, Wire-to-Board |
| Component Type | PCB Header |
| Product Name | KK 254 |
| UPC | 800753822535 |

### Agency

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

### Electrical

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

**Physical**

| | |
|---|---|
| Breakaway | Yes |
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| First Mate / Last Break | No |
| Flammability | 94V-0 |
| Glow-Wire Capable | No |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Net Weight | 0.818/g |
| Number of Rows | 1 |
| Orientation | Right Angle |
| Packaging Type | Bag |
| PCB Locator | No |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 1.60mm |
| PC Tail Length | 3.43mm |
| Pitch - Mating Interface | 2.54mm |
| Plating min - Mating | 2.540µm |
| 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 |

### Solder Process Data

| | |
|---|---|
| Max-Duration | 5 |
| Lead-Free Process Capability | WAVE |
| Max-Cycle | 1 |
| Max-Temp | 235 |

## Mates With / Use With

### Mates with Part(s)

| Description | Part Number |
|---|---|
| KK 254 Single Row Crimp Housings | 2695 |
| KK 254 Receptacle Housings | 7880 |
| KK 254 PC Board Connector | 4455 |
| 2.54mm Pitch C-Grid Shunt Terminal Housings | 7859 |

## Application Tooling