



**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         | <br>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

## 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                             |
| 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  |

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## Mates With / Use With

### Mates with Part(s)

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

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## Application Tooling