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**Part Number:** [22-28-9101](#)  
**Status:** **Active**  
**Overview:** [KK® Interconnection System](#)  
**Description:** 2.54mm Pitch KK® Header, Breakaway, Right Angle Surface Mount Compatible, 10 Circuits, Tin (Sn) Plating, Mating Pin Length 8.23mm, with Kinked PC Tails

**Documents:**

[3D Model](#) [Product Specification PS-10-07 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

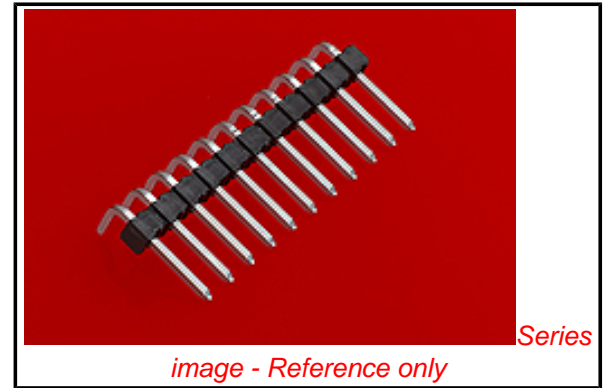
**General**

Product Family PCB Headers  
 Series [42377](#)  
 Application Board-to-Board, Signal, Wire-to-Board  
 Application Tooling Part Link 11-20-1230  
 Overview [KK® Interconnection System](#)  
 Product Name KK®  
 UPC 800753822535

**Physical**

Breakaway Yes  
 Circuits (Loaded) 10  
 Circuits (maximum) 10  
 Color - Resin Black  
 Durability (mating cycles max) 25  
 Flammability 94V-0  
 Glow-Wire Compliant 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  
 PC Tail Length 3.43mm  
 PCB Locator No  
 PCB Retention Yes  
 PCB Thickness - Recommended 1.60mm  
 Packaging Type Bag  
 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  
 Surface Mount Compatible (SMC) Yes  
 Temperature Range - Operating See Product Specification  
 Termination Interface: Style Through Hole

**Electrical**



**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

Not Reviewed

**Low-Halogen Status**

**Not 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**

[42377Series](#)

**Mates With**

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

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

**Solder Process Data**

|  |                        |
|--|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 235                    |

**Material Info**

|                 |            |
|-----------------|------------|
| Old Part Number | 42377-0185 |
|-----------------|------------|

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-10-07     |
| Sales Drawing         | SD-42377-001 |

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