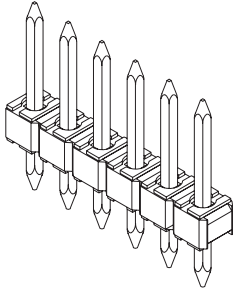


# 2.54mm (.100") Pitch KK<sup>®</sup> Breakaway Header

**42375**  
Vertical



### Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked PC tails
- .240, .295 and .320" standard mating lengths
- Voided circuits available (contact Molex)

### Reference Information

Product Specification: PS-10-07  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 2695, 4455, 6471, 7720, 7859, 7880,  
 40556, 70066A, 70400A, 70430, 90147  
 and 90148  
 Designed In: Inches

### Electrical

Voltage: 250V  
 Current: 4.0A  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1500V  
 Insulation Resistance: 50K Megohms min.

### Mechanical

Durability: Tin—25 cycles max.  
 Gold—100 cycles max.

### Physical

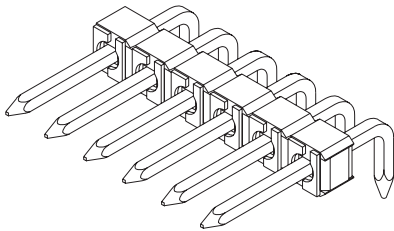
Housing: Glass-filled nylon, UL 94V-0  
 Contact: Phosphor Bronze, 0.64mm (.025") square  
 Plating: See Table  
 Operating Temperature: 0 to +75°C

| Plating Option   | Order No.                          |   |                                    |   |                                    |   | Lead-free |
|------------------|------------------------------------|---|------------------------------------|---|------------------------------------|---|-----------|
|                  | Mating End Length = 6.09mm (.240") |   | Mating End Length = 7.49mm (.295") |   | Mating End Length = 8.13mm (.320") |   |           |
|                  | PC Tail Length = 3.18mm (.125")    | PC Tail Length = 3.43mm (.135")<br>Kinked PC Tail | PC Tail Length = 3.05mm (.120")    | PC Tail Length = 3.43mm (.135")<br>Kinked PC Tail | PC Tail Length = 3.05mm (.130")    | PC Tail Length = 3.43mm (.135")<br>Kinked PC Tail |           |
| Tin              | 22-28-4XX0                         | 22-28-5XX0  | 22-28-4XX2                         | 22-28-5XX2  | 22-28-4XX1                         | 22-28-5XX1  | Yes       |
| 15µ" select Gold | 22-28-4XX3                         | 22-28-5XX3  | 22-28-4XX5                         | 22-28-5XX5  | 22-28-4XX4                         | 22-28-5XX4  |           |
| 30µ" select Gold | 22-28-4XX6                         | 22-28-5XX6  | 22-28-4XX8                         | 22-28-5XX8  | 22-28-4XX7                         | 22-28-5XX7  |           |

Replace XX with no. of circuits, 02-36

# 2.54mm (.100") Pitch KK<sup>®</sup> Breakaway Header

**42377**  
Right Angle



### Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked PC tails
- .244 or .324" standard mating lengths
- Voided circuits available (contact Molex)
- Various pin lengths available

### Reference Information

Product Specification: PS-10-07  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With\*: 2695, 4455, 6471, 7720, 7859, 7880,  
 40556, 70066A, 70400A, 70430, 90147 and 90148  
 Designed In: Inches

### Electrical

Voltage: 250V  
 Current: 4.0A  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1500V  
 Insulation Resistance: 50K Megohms min.

### Mechanical

Durability: Tin—25 cycles max.  
 Gold—100 cycles max.

### Physical

Housing: Glass-filled nylon, UL 94V-0  
 Contact: Phosphor Bronze, 0.64mm (.025") square  
 Plating: See Table  
 Operating Temperature: 0 to +75°C

| Plating Option   | Order No.                          |   |                                    |   | Lead-free |
|------------------|------------------------------------|---|------------------------------------|---|-----------|
|                  | Mating End Length = 6.20mm (.244") |   | Mating End Length = 8.23mm (.324") |   |           |
|                  | PC Tail Length = 3.05mm (.120")    | PC Tail Length = 3.43mm (.135")<br>Kinked PC Tail | PC Tail Length = 3.05mm (.120")    | PC Tail Length = 3.43mm (.135")<br>Kinked PC Tail |           |
| Tin              | 22-28-8XX0                         | 22-28-9XX0  | 22-28-8XX1                         | 22-28-9XX1  | Yes       |
| 15µ" select Gold | 22-28-8XX2                         | 22-28-9XX2  | 22-28-8XX3                         | 22-28-9XX3  |           |
| 30µ" select Gold | 22-28-8XX4                         | 22-28-9XX4  | 22-28-8XX5                         | 22-28-9XX5  |           |

Replace XX with no. of circuits, 02-36

\* 2695, 4455 and 7880 mate when 42377 is at board edge only  
 Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.