SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

**0900-0**
0900-0-15-20-76-14-11-0
"Legacy P/N 0900-0-00-00-00-11-0"
Short stroke, Surface mount. Also available on 16mm wide carrier tape: 2,000 parts 13" reel. See page 28.2 for Tape & Reel details.

**0900-1**
0900-1-4,8-72 or 75
0900-X-15-20-76-14-11-0
Standard stroke, Surface mount. Also available on 16mm wide carrier tape: 700 parts per 13" reel (0900-1) or 24mm wide carrier tape: 1,100 parts per 13" reel (0900-2) and (0900-3). See page 28.2 for Tape & Reel details.

**0907-0**
0907-0-15-20-76-14-11-0
Standard stroke, Surface mount, Mid profile
Also available with insulated sleeve, see page 19.4

**0934**
0934-0-15-20-74-14-26-0
Standard stroke, Surface mount

**0936**
0936-0-15-20-7X-14-11-0
Standard stroke, Surface mount

**0907-0**
0907-X-15-20-75-14-11-0
Standard stroke, Surface mount, Mid profile
Also available with insulated sleeve, see page 19.4

**0928**
0928-0-15-20-77-14-11-0
Long stroke, Surface mount

**0913-0**
0913-0-15-20-77-14-11-0
Long stroke, Surface mount, Mid profile
Also available on 24mm wide carrier tape: 1,000 parts 13" reel. See page 28.8 for Tape & Reel details.

**0925**
0925-0-15-20-7X-14-11-0
Standard stroke, Surface mount
Reduced plunger

**0927**
0927-0-15-20-7X-14-11-0
Standard stroke, Surface mount, Mid profile

**0905**
0905-0-15-20-7X-14-11-0
"Legacy P/N 0905-0-00-00-00-11-0"
Standard stroke, Surface mount, High profile

---

**Material Specifications:**

| Sleeve & Plunger Material | Copper Alloy |
| Spring Material           | Beryllium Copper |
| Sleeve & Plunger Finish   | 20 µ" Gold over Nickel |
| Spring Finish             | 10 µ" Gold over Nickel |
| Dimensions: Inches       | |

**Tolerances On:**

| Lengths: ± .006 |
| Diameters: ± .002 |
| Angles: ± 2° |

---

**Mechanical & Electrical Specifications:**

| Durability: Up to 1,000,000 cycles |
| Current Rating: 2A continuous, 3A peak |
| Contact Resistance: 20 mΩ max. |
| Environmental Specifications: |
| Operating temperature range: -55°/+125°C (discontinuous) |

**74, 75, 76, 77 Springs are not interchangeable**

---

**Order Code: 09XX - X - 15 - 20 - 7X - 14 - XX - 0**

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>74</td>
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<td>75</td>
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<td>.055</td>
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<td>25 g</td>
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<td>.039</td>
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</tr>
<tr>
<td>77</td>
<td>.045</td>
<td>.090</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

---

**Reel:**

- 7X or 75 or 76 or 77 wide carrier tape: 1,100 parts per 13" reel.

---

See page 28.8 for Tape & Reel details.
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

0967
0967-0-15-20-7X-14-11-0
Standard stroke, horizontal surface mount
Also available on 16mm wide carrier tape: 2,800 parts per 13” reel
See page 28.2 for tape & reel details

0964
0964-0-15-20-8S-14-11-0
Long stroke, surface mount, mid profile
* Stainless steel spring

0937
0937-0-15-20-77-14-11-0
Long stroke, surface mount

0987
0987-0-15-20-89-14-11-0
Long stroke, horizontal surface mount
Also available on 24mm wide carrier tape: 2,800 parts per 13” reel
See page 28.8 for tape & reel details

0919-X
0919-X-15-20-89-14-11-0
3mm (.118”) long stroke, surface mount
* Stainless steel spring

Material Specifications:
Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ” Gold over Nickel
Spring Finish: 10 μ” Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± 0.006
Diameters: ± 0.002
Angles: ± 2°

Mechanical & Electrical Specifications:
Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:
Operating temperature range: -55/+125°C
Springs are not interchangeable

Order Code: X9XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number | Mid. Stroke | Max. Stroke | Force @ Mid. Stroke | Initial Force (Pre-Load)
--- | --- | --- | --- | ---
72 | .0275 | .055 | 35 g | 15 g
75 | .0275 | .055 | 60 g | 25 g
77 | .045 | .090 | 60 g | 25 g
85 | .040 | .080 | 60 g | 25 g
89 | .059 | .118 | 100 g | 25 g

---

70 g, 25 g

---

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SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

<table>
<thead>
<tr>
<th>Basic Part Number</th>
<th>Length</th>
<th>A</th>
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<tr>
<td>7945-1</td>
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<tr>
<td>7945-2</td>
<td>.1181</td>
<td></td>
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</table>

Material Specifications:
- **Sleeve & Plunger Material**: Copper Alloy
- **Spring Material**: Beryllium Copper
- **Sleeve & Plunger Finish**: 20μ Gold over Nickel
- **Spring Finish**: 10μ Gold over Nickel
- **Dimensions**: Inches
- **Tolerances On**:
  - **Lengths**: ± .006
  - **Diameters**: ± .002
  - **Angles**: ± 2°

Mechanical & Electrical Specifications:
- **Durability**: Up to 1,000,000 cycles
- **Current Rating**:
  - (09 spring): 2A continuous, 3A peak
  - (09 spring): 3.5A continuous, 5A peak
- **Contact Resistance**: 20 mΩ max.
- **Environmental Specifications**:
  - **Operating temperature range**: -55°F to +125°F (discontinuous)
  - **Rolling Ball Stroke**
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015

Order Code: XXXX - 0 - 15 - 20 - XX - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>.015</td>
<td>.030</td>
<td>55 g</td>
<td>30 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

**Material Specifications**:
- **Sleeve & Plunger Material**: Copper Alloy
- **Spring Material**: Beryllium Copper
- **Sleeve & Plunger Finish**: 20μ Gold over Nickel
- **Spring Finish**: 10μ Gold over Nickel
- **Dimensions**: Inches
- **Tolerances On**:
  - **Lengths**: ± .006
  - **Diameters**: ± .002
  - **Angles**: ± 2°

**Mechanical & Electrical Specifications**:
- **Durability**: Up to 1,000,000 cycles
- **Current Rating**:
  - (09 spring): 2A continuous, 3A peak
  - (09 spring): 3.5A continuous, 5A peak
- **Contact Resistance**: 20 mΩ max.
- **Environmental Specifications**:
  - **Operating temperature range**: -55°F to +125°F (discontinuous)
  - **Rolling Ball Stroke**
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015
    - **Rolling Ball Diameter**: .015

**Order Code**: XXXX - 0 - 15 - 20 - XX - 14 - 11 - 0

**Spring Number**

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
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<tbody>
<tr>
<td>09</td>
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<td>.030</td>
<td>55 g</td>
<td>30 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>
**SPRING-LOADED PINS**

**DISCRETE SPRING-LOADED CONTACTS**

**0921-0**  
0921-0-15-20-76-14-11-0  
Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole  
Also available on 24mm wide carrier tape: 1,700 parts per 13” reel  
See page 28.3 for Tape & Reel details

**0926-0**  
0926-0-15-20-76-14-11-0  
Low profile, Short stroke. Solder mount in .074 min. mounting hole  
Also available on 16mm wide carrier tape: 3,000 parts per 13” reel  
See page 28.4 for Tape & Reel details

**0926-1**  
0926-1-15-20-7X-14-11-0  
Low profile, Standard stroke. Solder mount in .076 min. mounting hole  
Also available on 24mm wide carrier tape: 1,450 parts per 13” reel  
See page 28.4 for Tape & Reel details

**0977**  
0977-0-15-20-7X-14-11-0  
Standard stroke, Surface mount  
Also available on 24mm wide carrier tape: 1,100 parts per 13” reel  
See page 28.3 for Tape & Reel details

**0965**  
0965-0-15-20-80-14-11-0  
Ultra low profile, Surface mount, * Stainless steel spring  
Also available on 16mm wide carrier tape: 3,000 parts per 13” reel  
See page 28.4 for Tape & Reel details

**7911**  
7911-0-15-20-86-14-11-0  
Standard stroke, suitable for 2mm spacing  
* Stainless steel spring

---

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy  
- **Spring Material:** BeCu or Stainless Steel 302  
- **Sleeve & Plunger Finish:** 20 µ” Gold over Nickel  
- **Spring Finish:** 10 µ” Gold over Nickel  
- **Dimensions:** Inches  
- **Tolerances On:** Lengths: ± .006  
  Diameters: ± .002  
  Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles  
- **Current Rating:** 2A continuous, 3A peak  
- **Contact Resistance:** 20 mΩ max.  
- **Operating temperature range:** -55°/+125° C (discontinuous)  
  75, 76, 80, 86 Springs are not interchangeable

**Environmental Specifications:**
- **Environmental Specifications:**
- **RoHS - 2**

---

**Order Code:** 09XX - X - 15 - 20 - XX - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>60 g</td>
<td>25 g</td>
</tr>
<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
<tr>
<td>80</td>
<td>.012</td>
<td>.024</td>
<td>115 g</td>
<td>25 g</td>
</tr>
<tr>
<td>86</td>
<td>.0275</td>
<td>.055</td>
<td>100 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>
**SPRING-LOADED PINS**

**DISCRETE SPRING-LOADED CONTACTS • THROUGH-HOLE MOUNT**

**0906-0**
0906-0-15-20-76-14-11-0
Short stroke, Solder mount in .020 min. mounting hole. Also available with insulated sleeve, see page 19.2.

**0906-1→4,8**
0906-X-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole. Also available on 24mm wide carrier tape: 0906-1 & 0906-2 1,200 parts per reel. 0906-3 & 0906-4 900 parts per reel. See page 28.3 for Tape & Reel details

**0908-0→9**
0908-X-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole. ONLY 0908-4 currently available on 12mm wide carrier tape: 450 parts per 13" reel. See page 28.8 for Tape & Reel details.

**0901**
0901-0-15-20-7X-14-11-0
Legacy P/N 0901-0-00-00-00-11-0
Solder mount in .029 min. mounting hole

**0929**
0929-X-15-20-7X-14-11-0
Standard stroke, Solder mount in .029 min. mounting hole

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Beryllium Copper
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel
- **Dimensions:** Inches

**Tolerances On:**
- Lengths: ± .006
- Diameters: ± .002
- Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - Operating temperature range: -55/+125°C (discontinuous)
  - 75, 76, 77 Springs are not interchangeable

**Order Code:** 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

**Material Specifications:**
- **Basic Part Number:** Length A
  0906-1 .177
  0906-2 .197
  0906-3 .217
  0906-4 .236
  0906-8 .155

  * 0906-8 has a .019 Mid. Stroke & .039 Max. Stk.

  Also available with insulated sleeve. See page 19.5.

**Basic Part Number:** Length A
  0914-0 .274
  0914-1 .304
  0914-2 .334
  0914-3 .364

**Basic Part Number:** Length A
  0932-0 .275
  0932-1 .275
  0932-2 .275
  0932-3 .275
  0932-4 .275
  0932-5 .275
  0932-6 .275
  0932-7 .275

**Basic Part Number:** Length A
  0908-0 .255
  0908-1 .275
  0908-2 .295
  0908-3 .315
  0908-4 .335
  0908-5 .350
  0908-6 .370
  0908-7 .390
  0908-8 .410
  0908-9 .430

**Basic Part Number:** Length A
  0929-0 .340
  0929-7 .480

**See page 28.5 for Tape & Reel details.**
**Spring-Loaded Pins**

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Beryllium Copper
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel
- **Dimensions:** Inches
  - **Tolerances On:**
    - Lengths: ± .006
    - Diameters: ± .002
    - Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - **Operating temperature range:** -55° to 125°C (discontinuous)
  - Springs are not interchangeable

### Order Code: XXXX - X - XX - 20 - XX - 14-11-0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>25 g</td>
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<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

### Table

<table>
<thead>
<tr>
<th>Basic Part Number</th>
<th>Length A</th>
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<tr>
<td>0910-1</td>
<td>.197</td>
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<tr>
<td>0910-2</td>
<td>.217</td>
</tr>
<tr>
<td>0910-3</td>
<td>.236</td>
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### Table

<table>
<thead>
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<th>Basic Part Number</th>
<th>Tape Width</th>
<th>Quantity per Reel</th>
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<tbody>
<tr>
<td>0910-1</td>
<td>16mm</td>
<td>1,500</td>
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<td>0910-2</td>
<td>24mm</td>
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<tr>
<td>0910-3</td>
<td>24mm</td>
<td>1,100</td>
</tr>
<tr>
<td>0910-4</td>
<td>24mm</td>
<td>1,100</td>
</tr>
</tbody>
</table>

**0910-8**

- Short stroke, Surface mount
- Packaged on 16mm wide carrier tape: 1,800 parts per 13" reel
- See page 28.5 for Tape & Reel details

### Table

<table>
<thead>
<tr>
<th>Basic Part Number</th>
<th>Length A</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>0990-9</td>
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### Table

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<th>Length A</th>
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<tbody>
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<tr>
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<tr>
<td>0997-9</td>
<td>.195</td>
</tr>
</tbody>
</table>

**0990-4**

- Short stroke, Surface mount
- Packaged on 16mm wide carrier tape: 2,150 parts per 13" reel
- See page 28.4 for Tape & Reel details

---

**Discrete Spring-Loaded Contacts • Surface Mount**

- **0910-0**
  - 0910-57-20-76-14-11-0
  - Short stroke, Surface mount
  - Packaged on 16mm wide carrier tape: 2,000 parts per 13" reel
  - See page 28.5 for Tape & Reel details

- **0910-4**
  - 0910-X-57-20-7X-14-11-0
  - Standard stroke, Surface mount
  - Packaged on carrier tape. See chart for tape width & qty. per reel
  - See page 28.5 for Tape & Reel details

- **0990-0**
  - 0990-0-50-20-76-14-11-0
  - Short stroke, Surface mount, Large base
  - Also available on 16mm wide carrier tape: 2,150 parts per 13" reel
  - See page 28.4 for Tape & Reel details

- **0997-0**
  - 0997-X-50-20-7X-14-11-0
  - Standard stroke, Surface mount, Large base, Mid profile
  - ONLY 0990-4 currently available. See page 28.4 for Tape & Reel details

---

**Spring-Loaded Connectors**

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**SPRING-LOADED PINS**

**DISCRETE SPRING-LOADED CONTACTS**

<table>
<thead>
<tr>
<th>Basic Part Number</th>
<th>Length (A)</th>
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<tr>
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<td>.150</td>
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<tr>
<td>0985-2</td>
<td>.190</td>
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</table>

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** BeCu or Stainless Steel 302 *
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel
- **Dimensions:** Inches
- **Tolerances On:** Lengths: ± .006
  Diameters: ± .002
  Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles **
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - Operating temperature range: -55°/-125° C (discontinuous)
  - 71, 75, 77, 86 Springs are not interchangeable

**Order Code:** X9XX - X - 15 - 20 - XX - 14 - 11 - 0

**Spring Number**

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
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<tbody>
<tr>
<td>71</td>
<td>.0275</td>
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<td>77</td>
<td>.045</td>
<td>.090</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

* 86

**Notes:**
- Spring material BeCu or Stainless Steel 302.
- Tolerances on length ± .006, diameter ± .002, angles ± 2°.
- Durability: Up to 100,000 cycles.
- Spring stroke: MID.
- Spring materials: BeCu or Stainless Steel 302.
- Spring finish: 10 μ" Gold over Nickel.
- Dimensions: Inches.
- Accepts wire sizes up to 24 AWG.
- Accepts wire sizes up to 26 AWG.
- Accepts wire sizes up to 22 AWG.

**Approximate Dimension:**
- Spring stroke: MID.
- Spring materials: BeCu or Stainless Steel 302.
- Spring finish: 10 μ" Gold over Nickel.
- Dimensions: Inches.
- Accepts wire sizes up to 24 AWG.
- Accepts wire sizes up to 26 AWG.
- Accepts wire sizes up to 22 AWG.
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

0851
0851-0-15-20-82-14-11-0
Solder Mount in .090 min. mounting hole or Surface Mount, .087” Ø minimum pad
Also available on 24mm wide carrier tape: 540 parts per 13” reel
See page 28.6 for Tape & Reel details

0853
0853-0-15-20-82-14-11-0
Solder Mount in .090 min. mounting hole or Surface Mount, .087” Ø minimum pad
Also available on 24mm wide carrier tape: 500 parts per 13” reel
See page 28.6 for Tape & Reel details

0855
0855-0-15-20-82-14-11-0
Power spring pin, Wire crimp termination for wire sizes 16 AWG Max. / 20 AWG Min.

0856
0856-0-15-20-82-14-11-0
Power spring pin
Solder Mount in .045 min. mounting hole

0859
0859-0-15-20-82-14-11-0
Power spring pin, Surface Mount
100” Ø suggested pad size. Also available on 24mm wide carrier tape: 500 parts per 13” reel. See page 28.6 for Tape & Reel details

0873
0873-0-15-20-82-14-11-0
Solder Mount in .090 min. mounting hole or Surface Mount, .087” Ø min. pad size. Also on 24mm wide carrier tape: 500 parts per 13” reel. See page 28.6 for Tape & Reel details

0850
0850-0-15-20-83-14-11-0
Power spring pin, Solder Mount in .090 min. mounting hole
Also available on 32mm wide carrier tape: 500 parts per 13” reel
See page 28.7 for Tape & Reel details

0858
0858-0-15-20-82-14-11-0
Power spring pin
Solder Mount in .045 min. mounting hole

0878
0878-0-15-20-82-14-11-0
Power spring pin
Solder Mount in .045 min. mounting hole

Material Specifications:
- **Sleeve & Plunger Material**: Copper Alloy
- **Spring Material**: Stainless Steel 302
- **Sleeve & Plunger Finish**: 20 μ” Gold over Nickel
- **Spring Finish**: 10 μ” Gold over Nickel
- **Dimensions**: Inches
- **Tolerances On**: Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2°

Mechanical & Electrical Specifications:
- **Durability**: Up to 1,000,000 cycles
- **Rated Current (Free air)**: Continuous 9 amps @ 10°C temperature rise
- **Contact Resistance**: 20 mΩ max.

Environmental Specifications:
- **Operating temperature range**: -55/+125°C (discontinuous)

Order Code: 08XX - X - XX - 20 - 8X - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>0.045</td>
<td>0.090</td>
<td>120 g</td>
<td>25 g</td>
</tr>
<tr>
<td>83</td>
<td>0.045</td>
<td>0.090</td>
<td>120 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>
**Material Specifications:**

- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Stainless Steel 302
- **Sleeve & Plunger Finish:** 20 μ Gold over Nickel
- **Spring Finish:** 10 μ Gold over Nickel
- **Dimensions:** Inches
- **Tolerances On:**
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2°

**Mechanical & Electrical Specifications:**

- **Durability:** Up to 1,000,000 cycles
- **Rated Current (Free air):** Continuous 9 amperes @ 10° C temperature rise
- **Contact Resistance:** 20 mΩ max.

**Environmental Specifications:**

- **Operating temperature range:** -55°/+125° C (discontinuous)
- **Springs are not interchangeable**

**Order Code:** 08XX - X - XX - 20 - 8X - 14 - 11 - 0

**Spring Number**

<table>
<thead>
<tr>
<th>Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>.045</td>
<td>.090</td>
<td>120 g</td>
<td>25 g</td>
</tr>
<tr>
<td>83</td>
<td>.045</td>
<td>.090</td>
<td>120 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

See page 28.6 for Tape & Reel details

See page 28.7 for Tape & Reel details

Also available on 44mm wide carrier tape: 425 parts per 13” reel

See page 28.7 for Tape & Reel details
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

**0900-0**
0900-0-57-20-76-14-11-0
Short stroke, Surface mount
16mm wide x 8mm pitch carrier tape: 2,000 parts per 13" reel.

**0900-1**
0900-1-57-20-7X-14-11-0
72 or 75
Standard stroke, Surface mount
16mm wide x 8mm pitch carrier tape: 1,500 parts per 13" reel.

**0900-2**
0900-2-57-20-7X-14-11-0
72 or 75
Standard stroke, Surface mount
24mm wide x 8mm pitch carrier tape: 1,100 parts per 13" reel.

**0900-3**
0900-3-57-20-7X-14-11-0
72 or 75
Standard stroke, Surface mount
24mm wide x 8mm pitch carrier tape: 1,100 parts per 13" reel.

**0967**
0967-0-58-20-7X-14-11-0
72 or 75
Standard stroke, Horizontal surface mount.
16mm wide x 8mm pitch carrier tape: 2,800 parts per 13" reel.

---

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Beryllium Copper
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel

**Dimensions:** Inches
- **Tolerances On:**
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2 °

---

**Mechanical & Electrical Specifications:**
- **Durability:** 1,000,000 cycles
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - Operating temperature range: -55°/+125°C

**Order Code:** 09XX - X - 5X - 20 - 7X - 14 - 11 - 0

**Spring Number**

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>60 g</td>
<td>25 g</td>
</tr>
<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

---

** Springs are NOT interchangeable**
- 72, 75 Springs are interchangeable

---

**P.C.B. Layout**
## SPRING-LOADED PINS ON TAPE & REEL PACKAGING

### Material Specifications:
- **Sleeve & Plunger Material**: Copper Alloy
- **Spring Material**: Beryllium Copper
- **Sleeve & Plunger Finish**: 20 μ" Gold over Nickel
- **Spring Finish**: 10 μ" Gold over Nickel
- **Dimensions**: Inches
- **Tolerances On**:
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2 °

### Mechanical & Electrical Specifications:
- **Durability**: Up to 1,000,000 cycles
- **Current Rating**: 2A continuous, 3A peak
- **Contact Resistance**: 20 mΩ max.
- **Operating temperature range**: -55/+125° C (discontinuous)

#### 75, 76 Springs are NOT interchangeable

#### 72, 75 Springs are interchangeable

### Environmental Specifications:
- **Springs are NOT interchangeable**
- **72 or 75 Springs are interchangeable**

### Order Code:
- **09XX - X - 57 - 20 - XX - 14 - 11 - 0**

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>25 g</td>
</tr>
<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

---

### SPRING-LOADED PINS

**0921-0**
- **0921-0-57-20-76-14-11-0**
- Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,700 parts per 13" reel

**0921-1**
- **0921-1-57-20-7X-14-11-0**
- Low profile, Standard stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,500 parts per 13" reel

**0906-1**
- **0906-1-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-2**
- **0906-2-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-3**
- **0906-3-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel

**0906-4**
- **0906-4-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel

---

**72 or 75**

**0921-0**
- **0921-0-57-20-76-14-11-0**
- Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,700 parts per 13" reel

**0921-1**
- **0921-1-57-20-7X-14-11-0**
- Low profile, Standard stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,500 parts per 13" reel

**0906-1**
- **0906-1-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-2**
- **0906-2-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-3**
- **0906-3-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel

**0906-4**
- **0906-4-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel

---

**72 or 75**

**0921-0**
- **0921-0-57-20-76-14-11-0**
- Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,700 parts per 13" reel

**0921-1**
- **0921-1-57-20-7X-14-11-0**
- Low profile, Standard stroke. Solder mount in .070 min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,500 parts per 13" reel

**0906-1**
- **0906-1-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-2**
- **0906-2-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel

**0906-3**
- **0906-3-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel

**0906-4**
- **0906-4-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020 min mounting hole
- 24mm wide X 12mm pitch carrier tape: 600 parts per 13" reel
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0977  0977-0-57-20-7X-14-11-0
Standard stroke, Surface mount
24mm wide X 8mm pitch carrier tape: 1,100 parts per 13” reel

0926-0  0926-0-57-20-76-14-11-0
Low Profile, Short Stroke. Solder mount in .074 min. mounting hole:
16mm wide X 8mm pitch carrier tape: 1,700 parts per 13” reel.

0926-1  0926-1-57-20-7X-14-11-0
Low profile, Standard stroke. Solder mount in .074 min. mounting hole:
24mm wide X 8mm pitch carrier tape: 1,450 parts per 13” reel

0965  0965-0-57-20-80-14-11-0
Ultra low profile, Surface mount, * Stainless steel spring
16mm wide X 8mm pitch carrier tape: 3,000 parts per 13” reel

0990-0  0990-0-57-20-76-14-11-0
Short stroke, Surface mount, Large base
16mm wide X 8 mm pitch carrier tape: 2,150 parts per 13” reel.

0990-4  0990-4-57-20-7X-14-11-0
Standard stroke, Surface mount, Large base
16mm wide X 12mm pitch carrier tape: 850 parts per 13” reel.

Material Specifications:
Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ” Gold over Nickel
Spring Finish: 10 μ” Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
              Diameters: ± .002
              Angles: ± 2°

Mechanical & Electrical Specifications:
Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Operating temperature range: -55/+125° C (discontinuous)
75, 76, 80 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Environmental Specifications:
Order Code: 09XX - X - 57 - 20 - XX - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>.0275</td>
<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
<td>.0275</td>
<td>.055</td>
<td>60 g</td>
<td>25 g</td>
</tr>
<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
<tr>
<td>80</td>
<td>.012</td>
<td>.024</td>
<td>115 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

* 80 Stainless steel spring
**SPRING-LOADED PINS**

**SPRING-LOADED PINS ON TAPE & REEL PACKAGING**

---

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Beryllium Copper
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel

**Dimensions:** Inches
- **Tolerances On:**
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2 °

---

**Mechanical & Electrical Specifications:**
- **Durability:** 1,000,000 cycles
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.

**Environmental Specifications:**
- **Operating temperature range:** -55/+125°C
- **Springs range:** -55/+125°C

**Order Code:** 09XX - X - 57 - 20 - 7X - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Spring Number</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
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<tbody>
<tr>
<td>72</td>
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<td>.055</td>
<td>35 g</td>
<td>15 g</td>
</tr>
<tr>
<td>75</td>
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<td>25 g</td>
</tr>
<tr>
<td>76</td>
<td>.0195</td>
<td>.039</td>
<td>60 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

---

**0910-0**

**0910-0-57-20-76-14-11-0**
- Short stroke, Surface mount
- 16mm wide X 8mm pitch carrier tape: 2,000 parts per 13" reel

---

**0910-1**

**0910-1-57-20-7X-14-11-0**
- Standard stroke, Surface mount
- 16mm wide X 8mm pitch carrier tape: 1,500 parts per 13" reel

---

**0910-2**

**0910-2-57-20-7X-14-11-0**
- Standard stroke, Surface mount
- 24mm wide X 8mm pitch carrier tape: 1,100 parts per 13" reel

---

**0910-3**

**0910-3-57-20-7X-14-11-0**
- Standard stroke, Surface mount
- 24mm wide X 8mm pitch carrier tape: 1,100 parts per 13" reel

---

**0910-4**

**0910-4-57-20-7X-14-11-0**
- Standard stroke, Surface mount
- 24mm wide X 8mm pitch carrier tape: 1,100 parts per 13" reel

---

**0930**

**0930-0-57-20-7X-14-11-0**
- Standard stroke, Solder mount in .020" min. mounting hole
- 24mm wide X 8mm pitch carrier tape: 1,500 parts per 13" reel

---

**72**
- Springs are NOT interchangeable

**75, 76**
- Springs are interchangeable

---

**516-922-6000 • Fax: 516-922-9253 • www.mill-max.com**
**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Stainless Steel 302
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel
- **Dimensions:** Inches
- **Tolerances On:**
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles
- **Rated Current (Free air):** Continuous 9 amps @ 10° C temperature rise
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - Operating temperature range: -55°/+125° C (discontinuous)

**Order Code:**
- 08XX - 0 - 5X - 20 - 8X - 14 - 11 - 0
- **Spring Number**
- **Mid. Stroke**
- **Max. Stroke**
- **Force @ Mid. Stroke**
- **Initial Force (Pre-Load)**

**Part Numbers:**
- **0851**
  - 0851-0-57-20-82-14-11-0
  - Solder Mount in .090 min. mounting hole or Surface Mount, 087° Ø minimum pad
  - 24mm wide X 12mm pitch carrier tape: 540 parts per 13" reel

- **0871**
  - 0871-0-57-20-82-14-11-0
  - Long stroke, Surface mount
  - 0.095 Force @ Mid. Stroke 100g
  - 24mm wide X 16mm pitch carrier tape: 330 parts per 13" reel

- **0853**
  - 0853-0-57-20-82-14-11-0
  - Solder Mount in .090 min. mounting hole or Surface Mount, 087° Ø minimum pad
  - 24mm wide X 12mm pitch carrier tape: 500 parts per 13" reel

- **0873**
  - 0873-0-57-20-82-14-11-0
  - Solder Mount in .090 min. mounting hole or Surface Mount, 087° Ø minimum pad
  - 24mm wide X 12mm pitch carrier tape: 500 parts per 13" reel

- **0859**
  - 0859-0-57-20-82-14-11-0
  - Power spring pin, Surface Mount, 100° Ø suggested pad size
  - 24mm wide X 12mm pitch carrier tape: 500 parts per 13" reel

- **0879**
  - 0879-0-57-20-82-14-11-0
  - Solder Mount in .090 min. mounting hole or Surface Mount, 087° Ø minimum pad
  - 24mm wide X 12mm pitch carrier tape: 500 parts per 13" reel
**Spring-Loaded Pins on Tape & Reel Packaging**

**0850**

*0850-0-57-20-83-14-11-0*

Power spring pin, Solder Mount in .090 min. mounting hole
32mm wide X 12mm pitch carrier tape: 500 parts per 13” reel

**0852**

*0852-0-57-20-83-14-11-0*

Power spring pin, Solder Mount in .045 min. mounting hole
44mm wide X 12mm pitch carrier tape: 425 parts per 13” reel

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** Stainless Steel 302
- **Sleeve & Plunger Finish:** 20 μ” Gold over Nickel
- **Spring Finish:** 10 μ” Gold over Nickel
- **Dimensions:** Inches
- **Tolerances On:** Lengths: ±.006
  - Diameters: ±.002
  - Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** Up to 1,000,000 cycles
- **Rated Current (Free air):** Continuous 9 amps @ 10° C temperature rise
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - **Operating temperature range:** -55/+125° C (discontinuous)

**Order Code:** 0XXX - 0 - 57 - 20 - **8X** - 14 - 11 - 0

<table>
<thead>
<tr>
<th>Springs</th>
<th>Mid. Stroke</th>
<th>Max. Stroke</th>
<th>Force @ Mid. Stroke</th>
<th>Initial Force (Pre-Load)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>83</strong></td>
<td>.045</td>
<td>.090</td>
<td>120 g</td>
<td>25 g</td>
</tr>
</tbody>
</table>

**RoHS-2**

2011/65/EU
SPRING-LOADED PINS

**Material Specifications:**
- **Sleeve & Plunger Material:** Copper Alloy
- **Spring Material:** BeCu or Stainless Steel 302 *
- **Sleeve & Plunger Finish:** 20 μ" Gold over Nickel
- **Spring Finish:** 10 μ" Gold over Nickel
- **Dimensions:** Inches
- **Tolerances On:**
  - Lengths: ± .006
  - Diameters: ± .002
  - Angles: ± 2°

**Mechanical & Electrical Specifications:**
- **Durability:** 1,000,000 cycles
- **Current Rating:** 2A continuous, 3A peak
- **Contact Resistance:** 20 mΩ max.
- **Environmental Specifications:**
  - Operating temperature range: -55/+125°C
- **Spring Number:**
  - 72, 77, 89 Springs are not interchangeable

**Order Code:** 0XXX - 0 - 57 - 20 - XX - 14 - 11 - 0
- **Spring Number**
  - Mid. Stroke
  - Max. Stroke
  - Force @ Mid. Stroke
  - Initial Force (Pre-Load)
  - 72
    - .0275
    - .055
    - 35 g
    - 15 g
  - 77
    - .045
    - .090
    - 60 g
    - 25 g
  - 89
    - .059
    - .118
    - 85 g
    - 25 g

---

**0908-4**
0908-5-72-14-11-0
Standard stroke, Solder mount in .020 min, mounting hole
32mm wide X 12mm pitch carrier tape: 450 parts per 13" reel.

**0913-0**
0913-0-57-20-77-14-11-0
Long stroke, Surface mount, Mid profile
24mm wide X 8mm pitch carrier tape: 1,000 parts per 13" reel.

**0987**
0987-0-58-20-89-14-11-0
Long stroke, Horizontal surface mount, 24mm wide X 8mm pitch carrier tape: 2,800 parts per 13" reel.