



# Spring Contacts

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# Spring Contact Introduction

**These designs provide single contact points with high durability (number of mating cycles) and require no special shape of mating surface or connector.**

The Spring Contact family provides a choice of single contact options, that mate with flat metal surfaces. The spring force designed into the contact gives a positive connection, maintaining electrical connectivity between the assembled contact and another PCB, an antenna, a grounding plane, or the outer enclosure panels. Suitable for passing a full current, or for use as a grounding element with trickle current.

- ❖ Free heights from 1.23mm to 8.20mm, recommended working heights from 0.90mm to 7.10mm
- ❖ Total flexibility with multiple design styles and performance capabilities
- ❖ High mating durability, from 1,000 to 10,000 minimum operations
- ❖ Most designs supplied on Tape and Reel packaging, for fully automated assembly systems within high volume manufacturing applications
- ❖ Stocked in depth throughout Harwin's authorized distributor network

## Spring Contacts

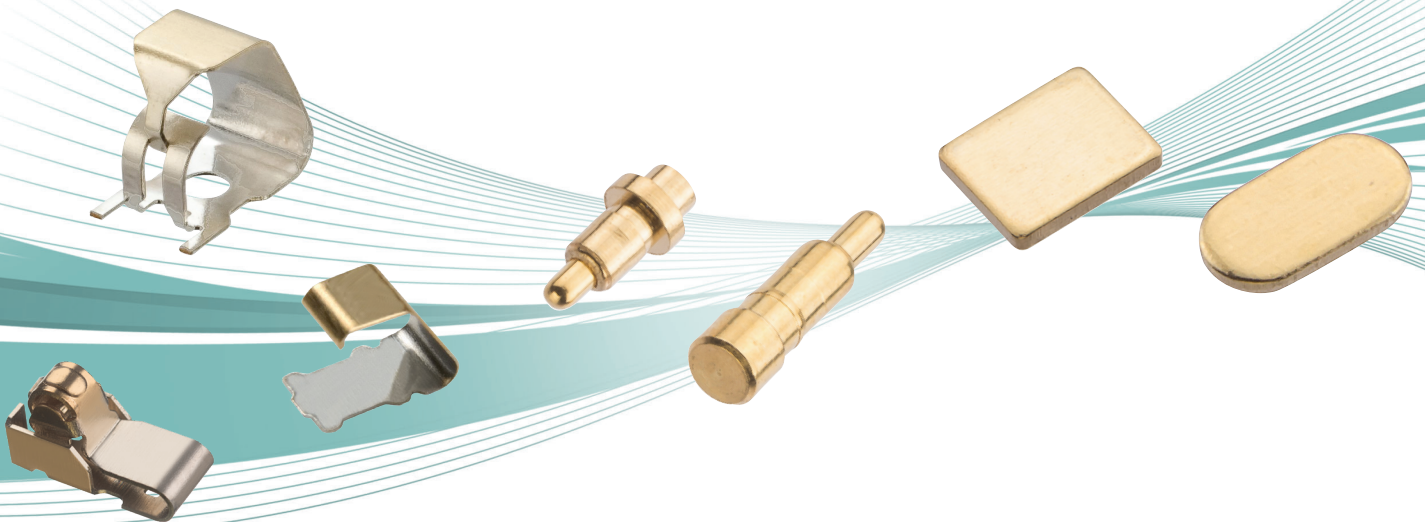
- ❖ Manufactured from various grades and compositions of Copper Alloy, these products utilise the inherent spring properties of the metal to provide the spring force.
- ❖ Rated from 1A to 9A max current, depending on design.
- ❖ Alternative uses include grounding contacts, antenna contacts, single or parallel connections. Also called Spring Fingers.

## Pogo Pins

- ❖ Precision construction consisting of plunger, barrel and inner miniature stainless steel spring.
- ❖ Provides robust connections with high mating cycle durability of 10,000 operations.
- ❖ Design options for heights and additional locating peg to assist with SMT mating and vertical stability.

## SMT Contact Pads

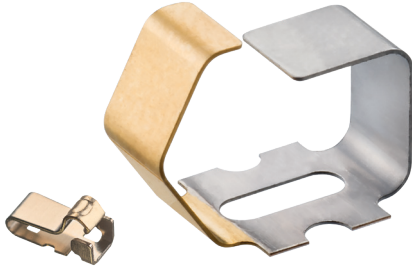
- ❖ Provides a mating connection surface with a compatible gold finish for either the spring contact or pogo pin designs.
- ❖ Choice of three shapes and pad depths up to 0.5mm.
- ❖ Supplied in Tape and reel for easy automation during assembly.



# Spring Contact Product Features

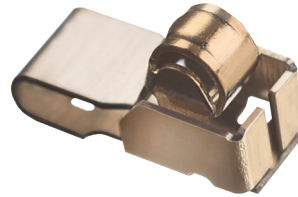
## Spring Contacts – Simple flexible designs

Single piece contact designs with a variety of additional features. Small and compact, down to ultra-miniature for mobile antenna connection.



## Spring Contacts – Positive Stop design

Rigid upstands on the lower contact surface prevent the mating surface from completely flattening the contact.



## Spring Contacts – Anti-hooking design

Full 360 degree loop, to prevent the end of the upper contact surface from getting snagged during or after production and installation. Known as a Box style.



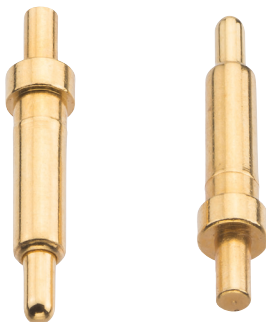
## Spring Contacts & SMT Pads – Automated placement

Supplied as standard in tape and reel for fast and easy high volume automated assembly. Pick and place location built into the design.



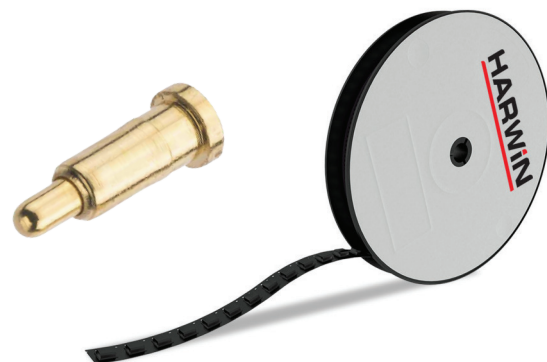
## Pogo Pins – SMT Locating Peg

Additional locating peg on base of contact, to assist with SMT location during assembly, and also maintain vertical stability during all assembly operations.



## Pogo Pins – Automated placement

Most designs supplied as standard in tape and reel for high volume automated assembly. Pick and place caps pre-assembled to provide vacuum nozzle location.



All dimensions in mm.

# Spring Contact Specifications

## Materials

### Base Metal

S1741, S7131 to S7191:  
S1941, S1951, S7061-46R:  
Others:

Phosphor Bronze  
Beryllium Copper  
Titanium Copper

### Finish:

See individual product

## Environmental

### Operating temperature

S1001: -40°C to +150°C  
S7131 to S7191: -20°C to +70°C  
S7221 to S7271: -40°C to +85°C  
Others: -55°C to +125°C

ORDER CODE	CURRENT (MAX)	DURABILITY (OPERATIONS)	WORKING HEIGHT	FORCE AT WORKING HEIGHT
S1741-46R	6A	5,000	1.75mm	1.50N
S1761-XXR	4A	1,500	2.50mm	1.50N
S1791-42R	3A	1,500	3.00mm	1.00N
S1941-XXR	9A	5,000	6.95mm	1.20N
S1951-46R	7A	5,000	6.75mm	1.20N
S7041-42R	5A	1,500	3.40mm	1.20N
S7051-42R	4A	2,500	4.50mm	1.20N
S7061-XXR	4A	2,500	4.60mm	1.20N
S7071-46R	5A	3,500	2.10mm	1.20N
S7081-42R	4A	1,000	2.10mm	1.20N
S7091-42R	6A	2,000	2.30mm	1.20N
S7101-42R	3A	2,500	3.00mm	1.20N
S7111-42R	6A	2,000	3.80mm	1.20N
S7121-42R	4A	3,000	1.50mm	1.20N
S7131-45R	1A	10,000	1.20mm	0.49N
S7141-45R	1A	10,000	1.65mm	0.49N
S7151-45R	1A	10,000	2.15mm	0.49N
S7161-45R	1A	10,000	2.65mm	0.49N
S7171-45R	1A	10,000	3.15mm	0.49N
S7181-45R	1A	10,000	3.65mm	0.49N
S7191-45R	1A	10,000	4.15mm	0.49N
S7221-45R	1A	10,000	0.90mm	0.39N
S7231-45R	1A	10,000	0.98mm	0.39N
S7241-45R	1A	10,000	1.00mm	0.39N
S7251-45R	1A	10,000	1.20mm	0.58N
S7261-45R	1A	10,000	1.20mm	0.78N
S7271-45R	1A	10,000	1.70mm	0.39N

All dimensions in mm.

# Spring Contacts

## Antenna Contacts with Positive Stop

- Extended beam miniature spring contacts, ultra-low profile.
- Ideal for antenna feed in mobile devices, LED lamp connections or RFID tags.
- Ultra-low connection system - free height from just 1.23mm to 2mm.
- Positive Stop to prevent over-compression and permanent set.
- Surface Mount with Pick and Place area for automated placement.



1.23mm HIGH	1.28mm HIGH								
<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7221-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7221-45R	Gold	<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7231-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7231-45R	Gold
ORDER CODE	FINISH								
S7221-45R	Gold								
ORDER CODE	FINISH								
S7231-45R	Gold								
1.3mm HIGH	1.5mm HIGH, 1.5mm WIDE								
<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7241-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7241-45R	Gold	<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7251-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7251-45R	Gold
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S7241-45R	Gold								
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S7251-45R	Gold								
1.5mm HIGH, 2mm WIDE	2mm HIGH								
<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7261-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7261-45R	Gold	<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7271-45R</td><td>Gold</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7271-45R	Gold
ORDER CODE	FINISH								
S7261-45R	Gold								
ORDER CODE	FINISH								
S7271-45R	Gold								

All dimensions in mm.

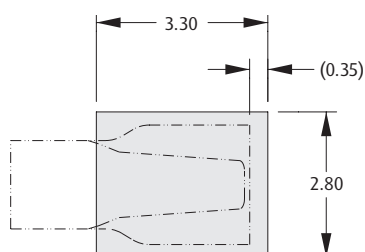
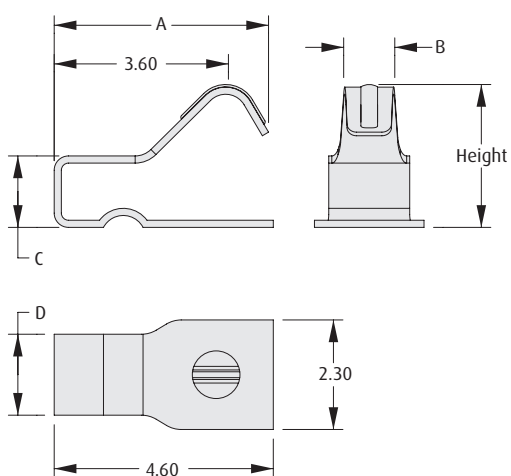
# Spring Contacts

## Extended Antenna Contacts

- Extended beam miniature spring contacts, ideal for antenna feed in mobile devices.
- Identical footprint contacts, with incremental step heights from 2mm to 5mm.
- Suitable for both wiping and sliding actions.
- Surface Mount with Pick and Place area for automated placement.
- Packaged in standard (EIA 481) Tape & Reel format.



### EXTENDED ANTENNA CONTACTS



Recommended PC Board Pattern

### HOW TO ORDER

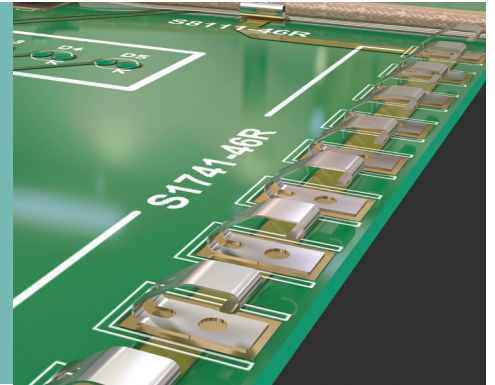
PART NO.	HEIGHT	DIM A	DIM B	DIM C	DIM D	FINISH
<b>S7131-45R</b>	2.00	4.30	0.80	1.00	1.55	Gold
<b>S7141-45R</b>	2.50	4.50	0.80	1.00	1.55	Gold
<b>S7151-45R</b>	3.00	4.50	0.90	1.50	1.70	Gold
<b>S7161-45R</b>	3.50	4.50	1.05	2.00	1.95	Gold
<b>S7171-45R</b>	4.00	4.50	1.36	2.50	2.30	Gold
<b>S7181-45R</b>	4.50	4.50	1.82	3.00	2.50	Gold
<b>S7191-45R</b>	5.00	4.50	2.08	3.50	3.00	Gold

All dimensions in mm.

# Spring Contacts

## Grounding/RFI Contacts

- ❖ SMT devices for use in shielding and grounding applications.
- ❖ For use on surface mount PCBs, in contact with metal shields or frames.
- ❖ Suitable for both wiping and sliding actions.
- ❖ Ideal for automated requirements, using standard placement equipment.



<p><b>1.7mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S7121-42R</td> <td>Gold</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S7121-42R	Gold	<p><b>2.5mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S1741-46R</td> <td>Tin</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S1741-46R	Tin		
ORDER CODE	FINISH										
S7121-42R	Gold										
ORDER CODE	FINISH										
S1741-46R	Tin										
<p><b>2.7mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S7091-42R</td> <td>Gold + Tin</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S7091-42R	Gold + Tin	<p><b>3.5mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S1761-42R</td> <td>Gold + Tin</td> </tr> <tr> <td>S1761-46R</td> <td>Tin</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S1761-42R	Gold + Tin	S1761-46R	Tin
ORDER CODE	FINISH										
S7091-42R	Gold + Tin										
ORDER CODE	FINISH										
S1761-42R	Gold + Tin										
S1761-46R	Tin										
<p><b>4.0mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S1791-42R</td> <td>Gold</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S1791-42R	Gold	<p><b>5.6mm HIGH</b></p> <p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th> <th>FINISH</th> </tr> </thead> <tbody> <tr> <td>S7061-42R</td> <td>Gold + Tin</td> </tr> <tr> <td>S7061-46R</td> <td>Tin</td> </tr> </tbody> </table>	ORDER CODE	FINISH	S7061-42R	Gold + Tin	S7061-46R	Tin
ORDER CODE	FINISH										
S1791-42R	Gold										
ORDER CODE	FINISH										
S7061-42R	Gold + Tin										
S7061-46R	Tin										

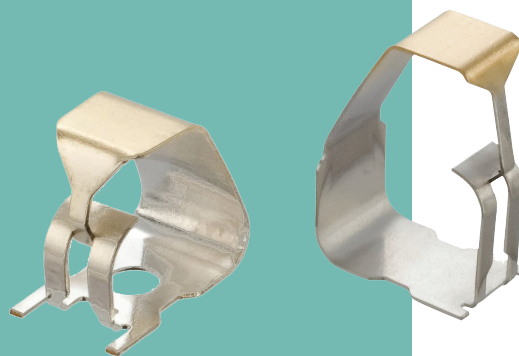
All dimensions in mm.



# Spring Contacts

## Grounding/RFI Contacts

- ❖ Prevents EMC noise and static.
- ❖ Simple and effective method for connecting multiple PCBs.
- ❖ No special tooling required, uses standard Pick and Place equipment.
- ❖ Protected tips prevent product from hooking.



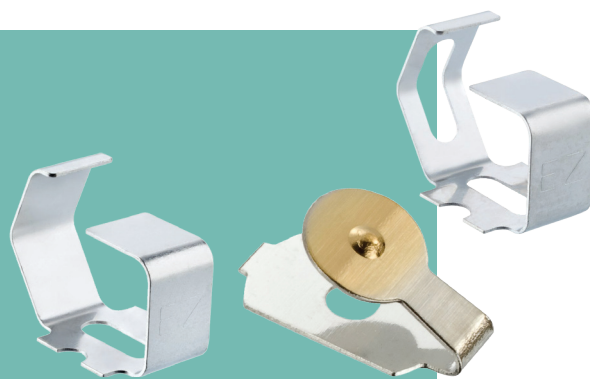
3.5mm HIGH	4.0mm HIGH								
<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7101-42R</td><td>Gold + Tin</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7101-42R	Gold + Tin	<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7041-42R</td><td>Gold + Tin</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7041-42R	Gold + Tin
ORDER CODE	FINISH								
S7101-42R	Gold + Tin								
ORDER CODE	FINISH								
S7041-42R	Gold + Tin								
4.5mm HIGH	6.0mm HIGH								
<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7111-42R</td><td>Gold + Tin</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7111-42R	Gold + Tin	<p>Recommended PC Board Pattern</p> <table border="1"> <thead> <tr> <th>ORDER CODE</th><th>FINISH</th></tr> </thead> <tbody> <tr> <td>S7051-42R</td><td>Gold + Tin</td></tr> </tbody> </table>	ORDER CODE	FINISH	S7051-42R	Gold + Tin
ORDER CODE	FINISH								
S7111-42R	Gold + Tin								
ORDER CODE	FINISH								
S7051-42R	Gold + Tin								

All dimensions in mm.

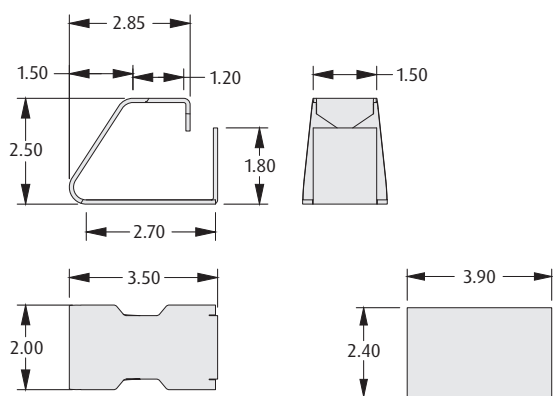


## SPRING CONTACTS

- ❖ Packaged in standard (EIA 481) Tape & Reel format.
- ❖ Spring contacts maintain a positive force and stable electrical contact.
- ❖ Small PCB footprint.
- ❖ Multi-Directional contacts can be used in either vertical or horizontal orientations.

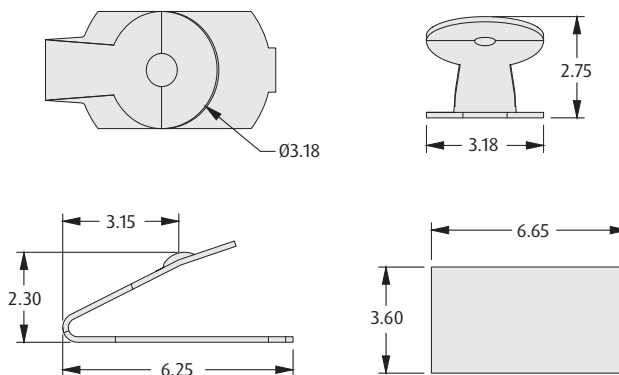


2.75mm HIGH



### Recommended PC Board Pattern

ORDER CODE	FINISH
<b>S7071-46R</b>	Tin



### Recommended PC Board Pattern

ORDER CODE	FINISH
<b>S7081-42R</b>	Gold + Tin

Technical drawings of the S1951 component showing dimensions and deflection points:

- Top View:** Shows a rectangular component with a rounded top-left corner. Dimensions include a total width of 6.57, a height of 7.25, and a distance of 4.45 from the bottom-left corner to the center of the rounded top-left corner. A horizontal arrow labeled "Horizontal deflection" points to the right edge, and a vertical arrow labeled "Vertical deflection" points to the top edge.
- Side View:** Shows a cross-section of the component with a total width of 3.50. A slot is present on the low force version (S1951), indicated by a label "Slot present on Low Force version (S1951)".
- Bottom View:** Shows a cross-section of the component with a total width of 9.59 and a height of 5.70. A slot is present on the low force version (S1951), indicated by a label "Slot present on Low Force version (S1951)".

### Recommended PC Board Pattern

ORDER CODE	TYPE	FINISH
<b>S1941-42R</b>	Normal Force	Gold + Tin
<b>S1941-46R</b>	Normal Force	Tin
<b>S1951-46R</b>	Low Force	Tin

[www.harwin.com](http://www.harwin.com)

# Spring Contacts

## Development Kit

- ❖ Selection of 16 different Spring Contacts in one box.
- ❖ Ideal for prototyping on new projects.
- ❖ Free refills available on all Spring Contacts.
- ❖ For individual contact details, see previous catalog pages or search for the part number on [www.harwin.com](http://www.harwin.com).



- ❖ External box dimensions are 338mm x 261mm, 57mm high
- ❖ Free refills available - registration card included with each box with further details on claiming your spring contact replacements.



### ❖ Box Contents

ORDER CODE	CONTACT STYLE	QUANTITY
<b>S7221-45R</b>	Positive Stop	20
<b>S7271-45R</b>	Positive Stop	20
<b>S7121-42R</b>	C Style	20
<b>S1741-46R</b>	C Style	20
<b>S1761-42R</b>	C Style	20
<b>S1761-46R</b>	C Style	20
<b>S1791-42R</b>	C Style	20
<b>S7061-42R</b>	C Style	20
<b>S7061-46R</b>	C Style	20
<b>S7131-45R</b>	Extended Antenna	20
<b>S7161-45R</b>	Extended Antenna	20
<b>S7101-42R</b>	Box Style	20
<b>S7051-42R</b>	Box Style	20
<b>S7071-46R</b>	C/Box Style	20
<b>S7081-42R</b>	Point Contact	20
<b>S1941-46R</b>	Multi-Direction	20

**ORDER CODE**  
**DEV-001**

All dimensions in mm.

# Pogo Pin Specification

## ✦ Materials

Plunger:	Brass, Gold finish
Barrel:	Brass, Gold finish
Spring:	Stainless Steel

## ✦ Electrical

Current:	2A or 1A (see individual pages)
Contact resistance:	50mΩ max

## ✦ Mechanical

Durability:	10,000 operations
Spring force at working height:	See individual pages

## ✦ Environmental

Operating temperature:	-40°C to +85°C
Solderability:	235°C for 5 seconds
Soldering heat resistance:	260°C for 10 seconds

# Pogo Pins

## Single Spring Loaded Contacts – SMT with Peg

- ❖ These pogo pins are intended to be used as surface mount with a location peg, but they can also be used as a throughboard tail version.
- ❖ Available in Tape and Reeled packaging format for automated assembly methods.
- ❖ Gold finish for improved wear resistance.
- ❖ Additional height options shown on following page.



### ❖ Packaging

#### Reel quantity

P70-6000045R:	1,800 on a Ø330mm reel
P70-2000045R:	800 on a Ø330mm reel
P70-2010045R:	700 on a Ø330mm reel

### ❖ Electrical

#### Current

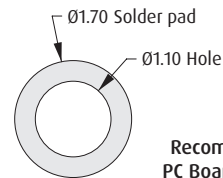
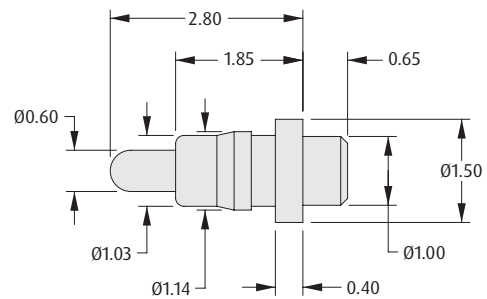
P70-6000045R:	1A
P70-2000045R:	2A
P70-2010045R:	2A

### ❖ Mechanical

#### Spring force at working height

P70-6000045R:	0.39N ±0.09N at 2.10mm working height
P70-2000045R:	1.27N ±0.34N at 2.90mm working height
P70-2010045R:	1.32N +0.39/-0.29N at 4.00mm working height

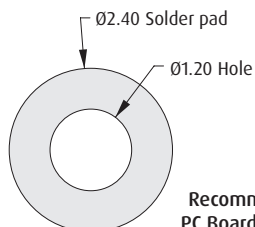
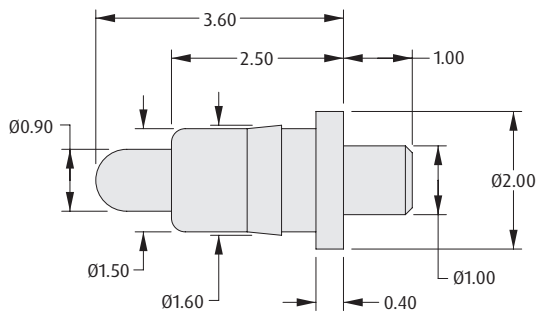
### 2.8mm FREE HEIGHT



Recommended  
PC Board Pattern

**ORDER CODE**  
**P70-6000045R**

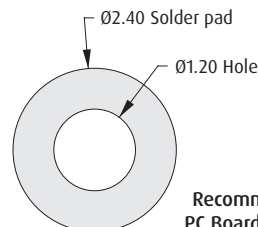
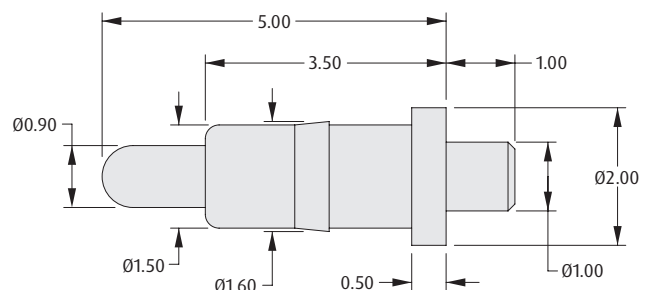
### 3.6mm FREE HEIGHT



Recommended  
PC Board Pattern

**ORDER CODE**  
**P70-2000045R**

### 5.0mm FREE HEIGHT



Recommended  
PC Board Pattern

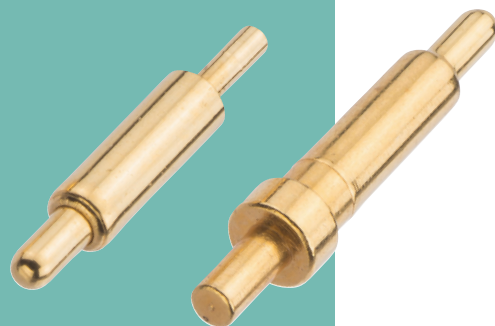
**ORDER CODE**  
**P70-2010045R**

All dimensions in mm.

# Pogo Pins

## Single Spring Loaded Contacts – SMT with Peg

- ❖ These pogo pins are intended to be used as surface mount with a location peg, but they can also be used as a throughboard tail version.
- ❖ Available in Tape and Reeled packaging format for automated assembly methods.
- ❖ Gold finish for improved wear resistance.
- ❖ Additional height options shown on previous page.



POGO PINS

### ❖ Packaging

#### Reel quantity

P70-2100045R:	600 on a Ø330mm reel
P70-2300045R:	580 on a Ø330mm reel
P70-2200045:	Loose

### ❖ Electrical

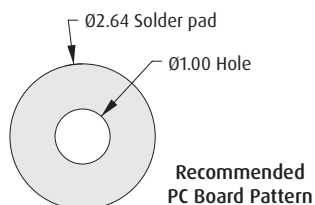
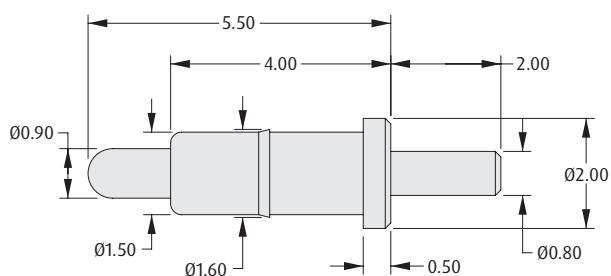
Current: 2A

### ❖ Mechanical

#### Spring force at working height

P70-2100045R:	0.68N ±0.24N at 4.50mm working height
P70-2300045R:	0.83N ±0.25N at 4.90mm working height
P70-2200045:	0.98 ±0.19N at 7.10mm working height

### 5.5mm FREE HEIGHT

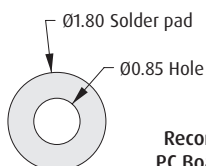
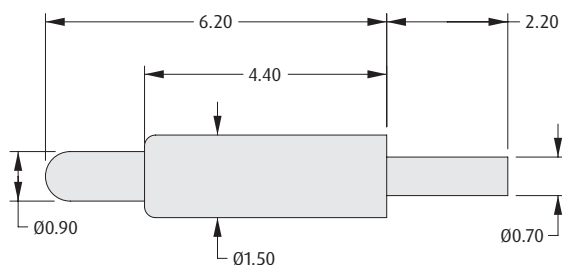


Recommended  
PC Board Pattern

#### ORDER CODE

P70-2100045R

### 6.2mm FREE HEIGHT

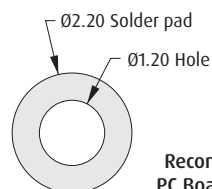
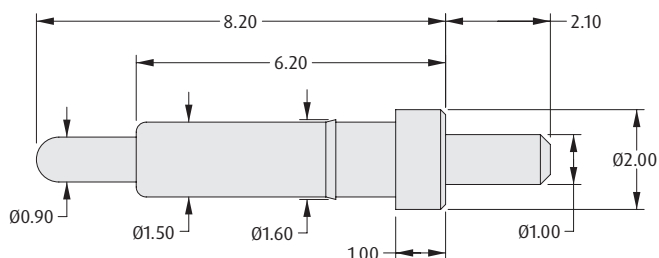


Recommended  
PC Board Pattern

#### ORDER CODE

P70-2300045R

### 8.2mm FREE HEIGHT



Recommended  
PC Board Pattern

#### ORDER CODE

P70-2200045

All dimensions in mm.

# Pogo Pins

## Single Spring Loaded Contacts – Surface Mount

- ❖ Used for individual contacts or irregular layout requirements.
- ❖ Available in Tape and Reeled packaging format for automated assembly methods.
- ❖ Gold finish for improved wear resistance.
- ❖ Additional height options shown on following page.



### ❖ Packaging

#### Reel quantity

P70-5000045R:	2,000 on a Ø330mm reel
P70-7000045:	Loose
P70-5100045:	Loose

### ❖ Electrical

#### Current

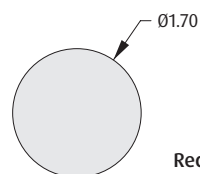
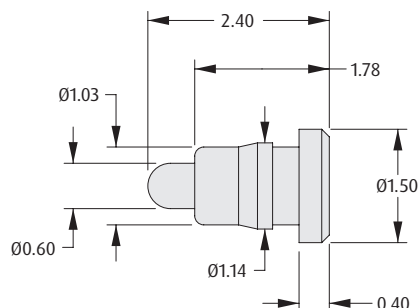
P70-5000045R:	1A
P70-7000045:	2A
P70-5100045:	2A

### ❖ Mechanical

#### Spring force at working height

P70-5000045R:	0.68N ±0.19N at 1.90mm working height
P70-7000045:	0.68N ±0.19N at 2.00mm working height
P70-5100045:	0.98N ±0.29N at 4.00mm working height

### 2.4mm FREE HEIGHT

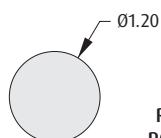
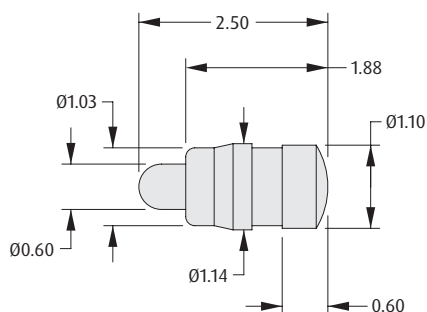


Recommended  
PC Board Pattern

#### ORDER CODE

P70-5000045R

### 2.5mm FREE HEIGHT

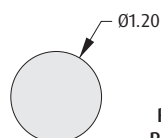
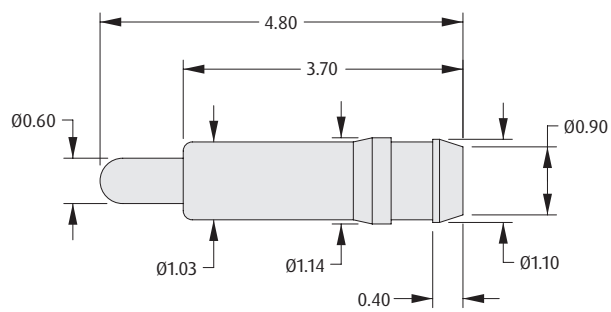


Recommended  
PC Board Pattern

#### ORDER CODE

P70-7000045

### 4.8mm FREE HEIGHT



Recommended  
PC Board Pattern

#### ORDER CODE

P70-5100045

All dimensions in mm.

# Pogo Pins

## Single Spring Loaded Contacts – Surface Mount

- Used for individual contacts or irregular layout requirements.
- Available in Tape and Reeled packaging format for automated assembly methods.
- Gold finish for improved wear resistance.
- Additional height options shown on following page.



POGO PINS

### ➤ Packaging

#### Reel Quantity

P70-1100045R:	650 on a Ø330mm reel
P70-1030045R:	650 on a Ø330mm reel
P70-1000045R:	1,400 on a Ø330mm reel
P70-1010045R:	800 on a Ø330mm reel
P70-1020045R:	700 on a Ø330mm reel

### ➤ Electrical

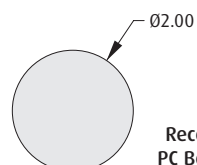
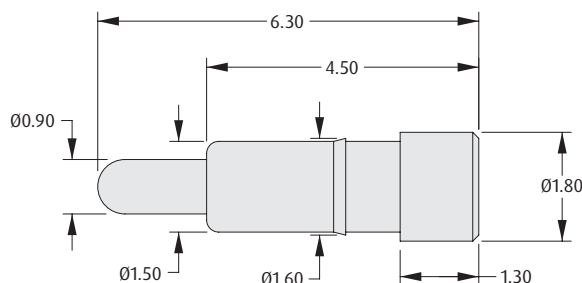
Current: 2A

### ➤ Mechanical

#### Spring force at working height

P70-1100045R:	1.23N ±0.34N at 5.00mm working height
P70-1000045R:	0.88N ±0.29N at 2.90mm working height
P70-1010045R:	1.17N ±0.29N at 4.00mm working height
P70-1020045R:	1.17N ±0.29N/-0.19N at 4.50mm working height
P70-1030045R:	1.29N ±0.29N at 6.20mm working height

### 6.3mm FREE HEIGHT

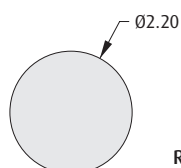
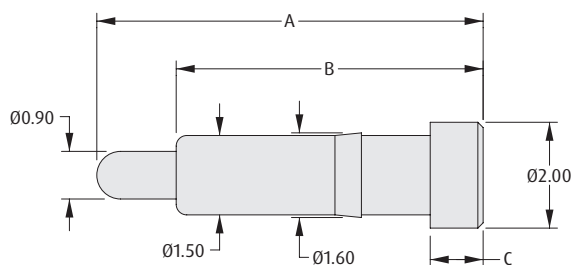


Recommended  
PC Board Pattern

#### ORDER CODE

P70-1100045R

### 3.5mm TO 7.3mm FREE HEIGHT



Recommended PC Board Pattern

ORDER CODE	DIM A	DIM B	DIM C
P70-1000045R	3.50	2.50	0.40
P70-1010045R	5.00	3.50	0.50
P70-1020045R	5.50	4.00	0.50
P70-1030045R	7.30	5.80	1.00

All dimensions in mm.



# Contact Pads

## Surface Mount Contacts

- ❖ Surface mountable contact pad, ideal as a mating area for spring contacts and pogo pins.
- ❖ Supplied in Tape and Reeled packaging format for automated assembly methods.
- ❖ Gold finish for improved wear resistance.
- ❖ Available in 3 shapes, with a choice of pad dimensions.



### Materials

Base material: Beryllium Copper  
Finish: Gold

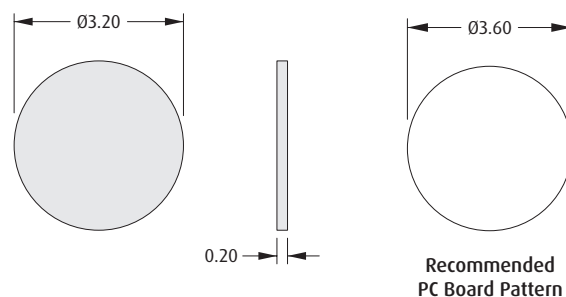
### Electrical

Current: 6A  
Contact resistance: 0.15mΩ max

### Environmental

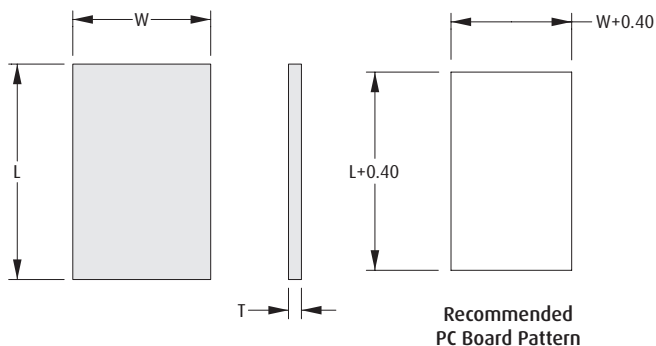
Operating temperature: -40°C to +180°C

### CIRCULAR



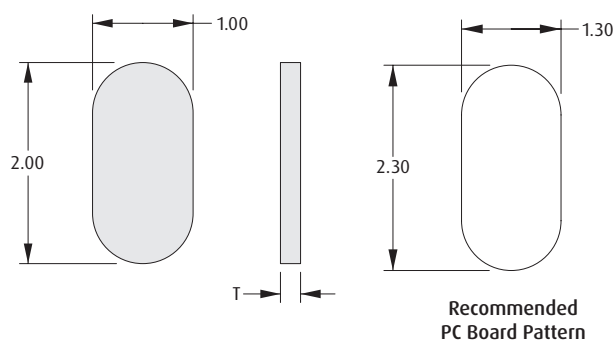
ORDER CODE	TAPE & REEL
S70-332002045R	2,000 on a Ø178 reel

### RECTANGULAR



ORDER CODE	DIM L	DIM W	DIM T	TAPE & REEL
S70-125161545R	2.50	1.60	0.15	4,000 on a Ø178 reel
S70-138181045R	3.80	1.80	0.10	2,000 on a Ø178 reel
S70-138305045R	3.80	3.00	0.50	2,000 on a Ø178 reel

### OVAL



ORDER CODE	DIM T	TAPE & REEL
S70-220101045R	0.10	9,000 on a Ø178 reel
S70-220102045R	0.20	9,000 on a Ø178 reel

All dimensions in mm.