# 90152-AS

# SMT SPRING LOADED CONTACT

**Engineered for Success** 

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Temperature rise [°C]





Assembly: SMT

Height: 7mm (.276")

Stroke: 1.4mm (.055")

ORDER AS:

90152-AS

# **APPLICATION NOTES:**

### PRODUCT DESCRIPTION:

Preci-Dip Spring Loaded contact SMT termination for reflow soldering. Every Preci-Dip spring contact is Swiss precision machined and assembled for highest quality, performance and long product life.

# **PRODUCT PACKAGING:**

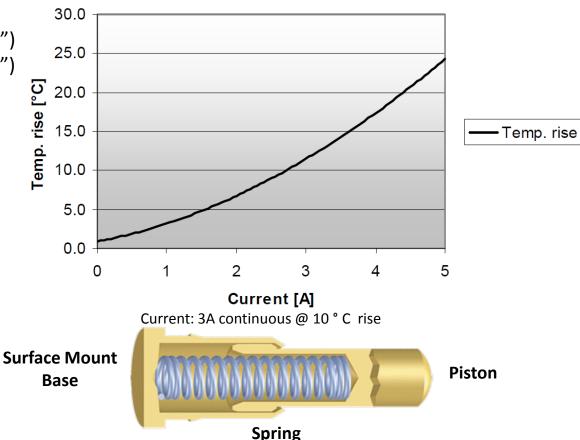
This product is sold in bulk or on tape and reel. It can be supplied assembled in an insulator. Let us help you with your custom packaging request.

## **HOW TO USE THIS PRODUCT:**

This product is ideal for PCB surface mount applications on .100" grid. With solid one-piece body construction, These spring loaded contacts are typically used in docking stations, recharging stations, module stacking and pluggable SLC requirements.

# **CAN I CUSTOMIZE THIS PRODUCT?**

Preci-Dip welcomes custom design requests. Please provide us your spring force and packaging requirements. Call today to discuss your application.



### **HOW IT WORKS:**

Strong, secure and featuring one piece solid body construction, there are no capped components at the bottom of this spring contact. No seams for solder to wick inside the shell.



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# **SPECIFICATIONS:**

# MATERIAL:

Piston: Brass Alloy, plated 0.5um (20μ") Gold Barrel: Brass Alloy, plated 0.25um (10μ") Gold

Spring: Music wire plated Gold Flash

# **ELECTRICAL:**

Current: 3A continuous @ @ 10 ° C rise. 5A Peak.

Rated Voltage: 100Vrms 150Vdc Contact Resistance:  $20m\Omega$  max...

## SPRING CONTACT FEATURES:

- \* Swiss Experience
- \* Swiss Quality
- \* Swiss precision machined components
- \* Seamless shell construction
- \* Press-fit barb on barrel for packaging
- \* Gold plating for corrosion resistance.
- \* Smooth piston travel
- \* High quality, smooth surface finish on tip of piston.
- \* Strong and durable construction
- \* RoHs

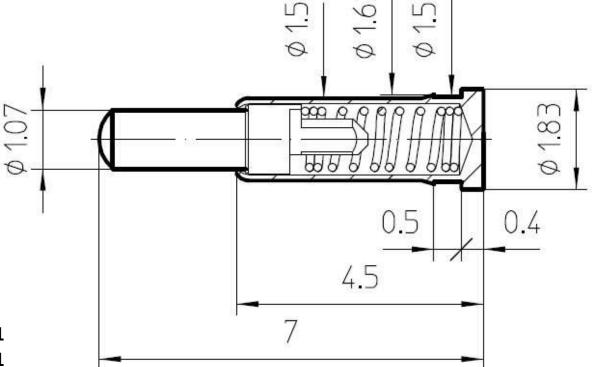
# See 90152-AS in an insulator:

811-S1-NNN-30-016101 813-S1-NNN-30-016101

Note about S1 plating:

Barrel = 0.25um Gold

Piston= 0.50um Gold



### **ENVIRONMENTAL**

Operating Temperature: -55 to 125° C Passed Vibration Test Sinusoidal per

IEC 512.6d / IEC 68-2-6

Passed Shock Test per IEC 512.6d / IEC 68-2-27 No electrical discontinuity greater than 1µs.

# **MECHANICAL**

Durability: Minimum 40,000 cycles.

Stroke: 1.4mm (.055") Working Travel: 7-5.65mm (.276 - .222")

Force: Initial .25N Half-Stroke .85N

# **HOW TO CUSTOMIZE A SPRING CONTACT** Specify:

- 1. Stacking distance between boards
- 2. Desired piston stroke
- 3. Desired spring force
- 4. Desired current rating.
- 5. Termination style SMT, Solder tail, Wire
- 6. Desired Cycle life





preci-dip