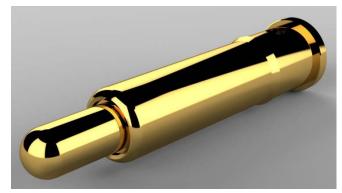
## 90203-AS

#### SMT SPRING LOADED CONTACT

## **Engineered for Success**

Visit us at WWW.PRECI-DIP.COM Temperature rise [°C]





Assembly: SMT

Height: 8.2mm (.323")

Stroke: 1.8mm (.071")

**ORDER AS:** 

90203-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:

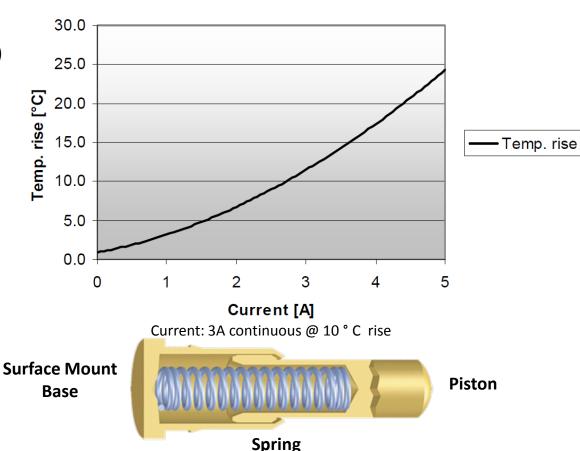
This product is sold in bulk or on tape and reel. It can be supplied assembled in an insulator. Let us help you with your custom packaging request.

#### **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.



WWW.DIGIKEY.COM

**Engineered for Success** 

#### **SPECIFICATIONS:**

#### MATERIAL:

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

Spring: Stainless Steel

### **ELECTRICAL:**

Current: 2A continuous, 3A 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

This product can be assembled in SIP or STRIP, and provided on Tape and Reel. Please inquire if interested.

# Ø 0.5 5 15 0 $\infty$ 999999999999 0 1.8 6.3 8.2

#### **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: 1.8mm (.071")

Working Travel: 8.2-6.45mm

(.323 - .254")

Force: Initial .5N

Half-Stroke 1.05N

#### **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