

LOW PROFILE & HIGH RELIABILITY SPRING LOADED CONTACTS

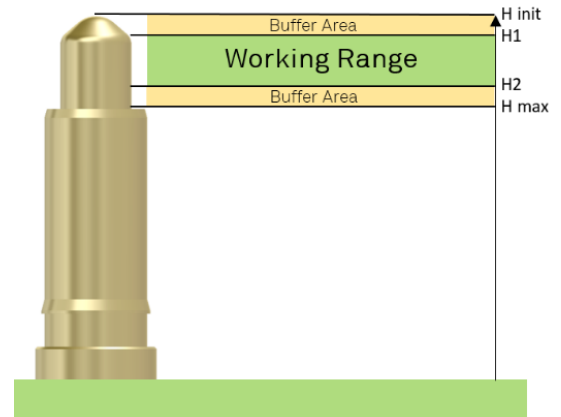


preci-dip

KEY DATA OF A SPRING PIN (H1, H2, WORKING RANGE ...)

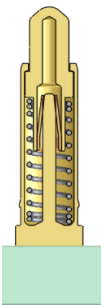
Spring loaded contacts are used to make reliable connections in case of misalignment and high tolerance issues between two boards. They are mainly defined by three characteristics: Working range, Height, and Operating force:

- The working range is equal to the tolerance present between the two boards; a standard working range is 1.4 mm (.055").
- The height of a spring pin is a little bit bigger than the maximum distance between the two boards, in order to have a buffer area to guarantee an operational contact in all cases.
- The operating force must be larger than 0.5N in order to guarantee the reliability of the contact between pad and piston.



LOW PROFIL MOUTING ALTERNATIVE

Standard Surface Mount Design



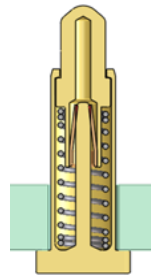
Advantage:

- Easy to implement with tape and reel option; see 0907-0-CLIP-02

Disadvantage:

- The entire height of the Spring Loaded Contact must remain over the board

Reverse Surface Mount Design



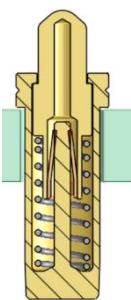
Advantage:

- Easy to implement with reverse tape and reel option.

Disadvantage:

- A portion of the height of the Spring Loaded Contact remains within the board

Pin and Paste Design



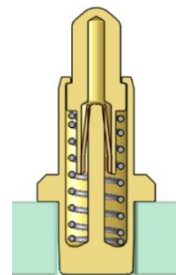
Advantage:

- The board height of this spring pin can be adapted easily by moving the shoulder over Spring Loaded Contact body.
- Board to board distance can be as little as 2.5mm

Disadvantage:

- Pin and Paste technology requires a portion of the Spring Loaded Contact body within the board

Surface Mount Design



Advantage:

- The stop shoulder can be moved up to have the bottom of the SLC flush with the board

Disadvantage:

- External diameter of the spring loaded needs to be increased to guaranty good soldering integrity.

MANY APLICATIONS OF PRECI-DIP OPEN BOTTOM CONTACTS



Spring loaded contact
with Beryllium copper spring
in docking station for e-cigarette



Spring loaded contact
with multi-finger clip technology
in Lidar system for autonomous vehicle

PRECI-DIP

Connection Technology

Custom design is our main strength, and your advantage when your ideas need a development partner. Vast experience with countless standard products and more than 20,000 references. Everything under one roof worldwide: We master all key processes in-house, from raw materials to finished goods.

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