

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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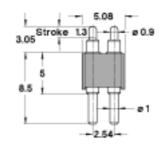
## SPRING-LOADED CONNECTORS & PAD CONNECTORS

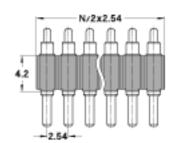
SERIES 813 813-SS-NNN-10-474101

Double Row

2.54 mm, Straight solder tail

Low resistance modular connectors with spring-loaded contacts (SLC), solder tail. Contacts with improved, shaped piston design.





## **TECHNICAL SPECS.:**

Flammability UL 94V-O

Piston and barrelBrass CuZn36Pb3 (C36000)Contact clipBeryllium copper (C17200)

Spring Music wire DIN 17223, gold plated

Max. stroke1.4 mmForces initial0.25 NForces initial at 1/2 stroke0.85 N

Mechanical life 50'000 cycles

Max. operating current 3.5 A

Contact resistance 10 m (static measurement, halfway position)

Plating S1: Barrel 0.25 μm gold and Piston 0.5 μm gold / SS: Barrel

and Piston 0.5 µm gold

## **ORDERING INFORMATION:**

Initial height A (mm)	Height plastic body B (mm)	XXX code
6	4	014
6.5	4	015
7	4	016
7.5	4	017

NNN number of poles. Replace NNN with the requested number of poles, e.g. 813-S1-NNN-10-014101 for a double row version with 16 pins becomes 813-S1-016-10-014101.

## TECHNICAL ASSISTANCE

### **GENERAL SPECIFICATIONS:**

The values listed below are general specs applying for PRECI-DIP spring-loaded connectors. Please see individual catalog page for additional and product specific technical data.

Operating temperature range -55 ... +125 °C

Climatic category (IEC) 55/85/21

Operating humidity range annual mean 75 %

Max working voltage 100 VRMS/150 VDC (2.54 mm grid)

PRECI-DIP products are recognized by Underwriters Laboratories Inc. and listed under "Connectors for Use in Data, Signal, Control and Power Applications", File Nr. E174442.

#### **ELECTRICAL CHARACTERISTICS:**

Insulation resistance between any two adjacent contacts Min. 10'000 M at 500 V AC

Capacitance between any two adjacent contacts

Max. 1 pF

#### **ENVIRONMENTAL CHARACTERISTICS:**

The sockets withstand the following environmental tests without mechanical and electrical defects:

- Dry heat steady state IEC 60512-11-9.11i / 60068-2-2.Bb: 125 °C, 16h
- Damp heat cyclic IEC 60512-11-12.11m / 60068-2-30.Db: 25/55 °C, 90 100 %rH, 1 cycle of 24 h
- Cold steady state IEC 60512-11-10.11j / 60068-2-1.A: -55 °C, 2 h
- Thermal shock IEC 60512-11-4.11d / 60068-2-14.Na: -55/125 °C, 5 cycles 30 min
- Sinusoidal vibrations IEC 60512-6-4.6d / 60068-2-6.Fc: 10 to 500 Hz, 10 g, 1 octave/min, 10 cycles for each axis
- Shock IEC 60512-6-3.6c / 60068-2-27.Ea: 50 g, 11 ms, 3 shocks in three axis

During the above two tests no contact interruption >50 ns does appear.

- Solderability J-STD-002A, Test A, 245°C, 5 s solder alloy SnAg3.8Cu0.7
- Resistance to soldering heat J-STD-0020C, 260°C, 20 s
- Moisture sensitivity J-STD-020C level 1
- Resistance to corrosion :
- 1) Salt spray test IEC 60068-2-11.Ka: 48 h
- 2) Sulfur dioxide (SO2) test IEC 60068-2-42 Kc: 96 h at 25 ppm SO2, 25 °C, 75 %rH
- 3) Hydrogen sulfide (H2S) test IEC 60068-2-43 Kd: 96 h at 12 ppm H2S, 25 °C, 75 %rH