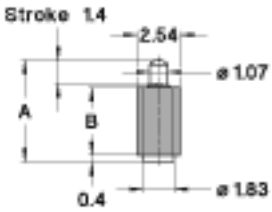
preci-dip

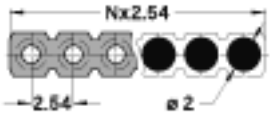
SPRING-LOADED CONNECTORS & PAD CONNECTORS

SERIES 811

811-SS-NNN-30-XXX101
Single Row
2.54 mm, Surface mount perpendicular

Basic modular connectors with spring-loaded contacts (SLC), surface mount.Contacts with hollow piston design for low profile.





TECHNICAL SPECS.:

Flammability	UL 94V-O
Piston and barrel	Brass CuZn36Pb3 (C36000)
Spring	Stainless steel X12 CrNi177, DIN 17224
Max. stroke	1.4 mm (1.15 mm for 811-...-001101)
Forces initial	0.25 N
Forces initial at 1/2 stroke	0.6 N
Mechanical life	100'000 cycles
Max. operating current	3.5 A
Contact resistance	15 m (static measurement, halfway position)
Coplanarity SMD terminations	Max. 0.1 mm (measured on 25 mm long connectors)
Plating	Gold 0.5 µm barrel and piston

ORDERING INFORMATION:

Initial height A (mm)	Height plastic body B (mm)	XXX code
4.5	2.95	001
5	2.95	002
5.5	2.95	003
6	4	004
6.5	4	005
7	4	006
7.5	4	007

NNN number of poles. Replace NNN with the requested number of poles, e.g. 811-SS-NNN-30-002101 for a single row version with 16 pins

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becomes 811-SS-016-30-00210110-001101.

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

PACKAGING:

Standard connector packaging is card box.

SMD mount connectors available on request with Tape & Reel packaging acc. to EIA Standard 481.