



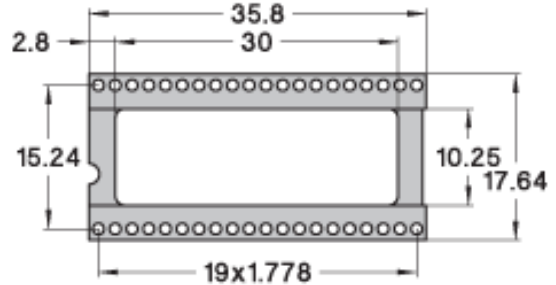
preci-dip

# DIL SOCKETS

**SERIES**  
**117**

**117-PP-640-41-005101**  
1.778 mm, Solder tail

High density DIL sockets for devices featuring 0.07" (1.778 mm) lead spacing.



## TECHNICAL SPECS.:

<b>Insulator</b>	Black glass filled polyester PCT-GF30-FR
<b>Flammability</b>	UL 94V-O
<b>Sleeve</b>	Brass CuZn36Pb3 (C36000)
<b>Contact</b>	Clip (4 finger): Beryllium copper (C17200)
<b>Accepted pin Ø</b>	0.40 to 0.56 mm
<b>Insertion Forces</b>	2 N typ.
<b>Withdrawal Forces</b>	1 N typ. (polished steel gauge Ø 0.43 mm)
<b>Mechanical life</b>	Min. 100 cycles
<b>Rated current</b>	1A
<b>Contact resistance</b>	Max. 10 m
<b>Dielectric strength</b>	Min. 1000 V RMS

## ORDERING INFORMATION:

PP Plating code	Sleeve	Clip
87	Tin	Gold flash
83	Tin	Gold 0.75 µm

## ADVANCED INFORMATION:

Order Codes	Poles	A	B	C	D	E	See
117-PP-316-41-005101	16	14.6	7.62	10.1			
117-PP-428-41-005101	28	25.2	10.16	12.7			
117-PP-430-41-005101	30	27.0	10.16	12.7			

117-PP-432-41-005101	32	28.8	10.16	12.7
117-PP-448-41-005101	48	43.1	10.16	12.7
117-PP-620-41-005101	20	18.1	15.24	17.64
117-PP-624-41-005101	24	21.7	15.24	17.64
117-PP-628-41-005101	28	25.2	15.24	17.64
117-PP-640-41-005101	40	35.8	15.24	17.64
117-PP-642-41-005101	42	37.7	15.24	17.64
117-PP-648-41-005101	48	43.1	15.24	17.64
117-PP-652-41-005101	52	46.7	15.24	17.64
117-PP-656-41-005101	56	50.2	15.24	17.64
117-PP-664-41-005101	64	57.3	15.24	17.64
117-PP-668-41-005101	68	60.9	15.24	17.64
117-PP-764-41-005101	64*	57.3	19.05	21.5

# TECHNICAL ASSISTANCE

## GENERAL SPECIFICATIONS:

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

Operating temperature range	-55 ... +125 °C
Climatic category (IEC)	55/125/21
Operating humidity range	annual mean 75 %
Max working voltage	100 VRMS/150 VDC

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

## MECHANICAL CHARACTERISTICS:

Clip retention	Min. 40 N (no displacement under axial force applied)
Contact (sleeve / clip) retention	Min. 3.3 N acc. to MIL-DTL-83734, pt 4.6.4.2

## 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
Air and creepage distances between any two adjacent contacts	Min. 0.6 mm (Min. 0.2 mm FOR SHRINK-DIP SOCKETS)

## 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 (SO<sub>2</sub>) test IEC 60068-2-42 Kc: 96 h at 25 ppm SO<sub>2</sub>, 25 °C, 75 %rH
  - 3) Hydrogen sulfide (H<sub>2</sub>S) test IEC 60068-2-43 Kd: 96 h at 12 ppm H<sub>2</sub>S, 25 °C, 75 %rH

## SOLDERLESS COMPLIANT PRESS-FIT CHARACTERISTICS:

### PRESS-FIT CHARACTERISTICS MEASURED ACC. TO IEC 60352-5

- Press-in force: 90 N max. (at min. hole dia.) / 65 N typ.
- Push-out force: 30 N min. (at max. hole dia.) / 50 N typ.
- Push-out 3rd cycle: 20 N min. (at max. hole dia.)

### PCB HOLE DIMENSIONS

- 2.54 mm grid: Finished hole Ø: 1 + 0.09/-0.06 mm | Drilled hole Ø: 1.15 ± 0.02 mm

## PCB HOLE PLATING

- PCB surface finish: Hole plating
- Tin: 5-15  $\mu\text{m}$  tin over min. 25  $\mu\text{m}$  copper
- Copper: min. 25  $\mu\text{m}$  copper
- Gold over nickel: 0.05-0.2  $\mu\text{m}$  gold over 2.5-5  $\mu\text{m}$  nickel over min. 25  $\mu\text{m}$  copper

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