

- Square pin headers may be used as board-to-board interconnects using series 801, 803 socket strips; or as a hardware programming switch with series 999 color coded jumpers.
- Single and double row strips are available with straight or right angle solder tails.
- Various pin and solder tail lengths are offered, plus the economy of selective gold plating.
- Up to 36 pin position strips.

PIN LENGTH <b>A</b>	TAIL LENGTH <b>B</b>	LENGTH OF SELECTIVE GOLD <b>G</b> min.	Ordering Information	
			Single Row Fig.1 Vertical Mount	Double Row Fig.2 Vertical Mount
.230	.100	.180	890-XX-XXX-10-802	892-XX-XXX-10-802
.230	.115	.180	890-XX-XXX-10-803	892-XX-XXX-10-803
.230	.135	.180	890-XX-XXX-10-804	892-XX-XXX-10-804
.230	.200	.180	890-XX-XXX-10-805	892-XX-XXX-10-805
.230	.300	.180	890-XX-XXX-10-806	892-XX-XXX-10-806
.230	.400	.180	890-XX-XXX-10-807	892-XX-XXX-10-807
.230	.500	.180	890-XX-XXX-10-808	892-XX-XXX-10-808
.265	.125	.215	890-XX-XXX-10-800	892-XX-XXX-10-800
.275	.400	.225	890-XX-XXX-10-801	892-XX-XXX-10-801
.335	.100	.285	890-XX-XXX-10-809	892-XX-XXX-10-809
			Single Row Fig.3 Right Angle	Double Row Fig.4 Right Angle
.230	.100	.180	890-XX-XXX-20-902	892-XX-XXX-20-902
.230	.135	.180	890-XX-XXX-20-903	892-XX-XXX-20-903
.230	.200	.180	890-XX-XXX-20-904	
.265	.125	.215	890-XX-XXX-20-901	892-XX-XXX-20-901

Specify Plating Code XX=		Specify number of pins XXX: From 002 To 036	Specify total No. of pins XXX: From 004 (2x2) To 072 (2x36)
PIN	TAIL		
19= 10μ" Gold	150μ" SnPb		
39= 30μ" Gold	150μ" SnPb		
90= 150μ" SnPb	150μ" SnPb		

### TECHNICAL SPECIFICATIONS

#### Electrical Data:

- Current rating : 3A max.
- Voltage rating : 60 VRMS / 90 VDC max.
- Contact resistance: 6 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 1800 VRMS min.
- Creepage distance: .071" min.

**Operating temperature range:** -40° C to +125° C

**Resistance to soldering heat:** 260 °C for 10 seconds.

#### Insulator Material:

Glass filled polyamide 66, self extinguishing rated UL94V-0, color black.

**Pin Material:** Phosphor Bronze alloy 510, selectively plated with 10μ" or 30μ" gold on the connector pin and 150μ" 90/10 tin/lead on the solder tail, or 150μ" 90/10 tin/lead overall plating. All options have 50μ" nickel underplate.

**Retention force of pin in insulator:** 3 lbs min.



# GENERAL TECHNICAL SPECIFICATIONS

## MATERIALS

### - Insulator body:

Standard material is glass filled thermoplastic polyester (PBT), self-extinguishing, rated UL94V-0. Heat deflection temperature (HDT @ 264 psi) = 204° C ( 400° F) Color black. Resistant to detergents, mineral acids, solvents, greases and oils (short time).

Surface mount and pin grid array socket insulators are molded from high temperature PCT polyester. HDT @ 264 psi = 254° C ( 490° F). This material is suitable for all forms of soldering including infra-red reflow and vapor-phase.

Products using standard open frame DIP insulators may also be ordered with high temperature PCT polyester, see ordering information on page 72.

Preci-Dip Series 110,510 and 800 are recognized under the Component Program of Underwriters Laboratories Inc., File E 135165.



### - Receptacle (sleeve):

Screw-machined brass (QQ-B-626), plated 10µ" gold or 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel.

### - Pin:

Screw-machined brass (QQ-B-626), plated 10µ" gold or 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel.

### - Contact (Clip):

Stamped beryllium-copper (QQ-C-533) heat treated, plated gold flash, 10µ" or 30µ" gold, or 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel.

	4-finger standard M-M #30	4-finger standard M-M #12	3-finger M-M #11	6-finger low force M-M #32	6-finger ultra-low M-M #35	6-finger ultra-lite M-M #43
insertion force typical values	150 gm	300 gm	60 gm	60 gm	30 gm	15 gm
extraction force typical values	75 gm	150 gm	30 gm	30 gm	15 gm	8 gm

- Mechanical life: 100 cycles min.

## ELECTRICAL DATA

- Rated current: 1A
- Rated voltage: 100 VRMS/150 VDC
- Contact resistance: 10 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 1000 VRMS (Min 700 VRMS for series 117 ShrinkDip)
- Air and creepage distance: .024" min. (.012 for series 117 ShrinkDip)
- Capacitance: 0.3 pF max.

## ENVIRONMENTAL DATA

- Operating temperature range: -55/+125°C
- Vibration ( No electrical discontinuity greater than 1µs): 10-2000 Hz, 15 g
- Shock ( No electrical discontinuity greater than 1µs): 150 g
- Solderability: IEC 68-2-20 Ta
- Resistance to soldering heat: IEC 68-2-20, 260°C, 5s
- Resistance to atmospheric corrosion: IEC 68-2-42 and 43
- Climatic category (IEC): 55/125/21

## TECHNICAL SPECIFICATIONS FOR PLCC SOCKETS

### MATERIALS:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating. finish: (active contact area) tin/lead . (termination area) tin/lead.

### MECHANICAL DATA:

- Contact pressure (per contact): 150 grams min.
- Mechanical life (cycles): 50 cycles min.

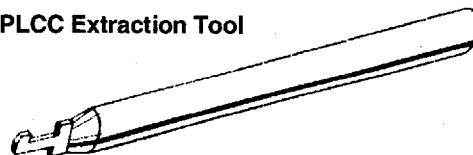
### ELECTRICAL DATA:

- Rated current: SMD types: 1A  
Thru-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5000 MΩ min.
- Dielectric strength: 600 VRMS min.
- Capacitance: 2 pF max.

### ENVIRONMENTAL DATA

- Operating temperature: -55/+125°C
- Vibration ( No electrical discontinuity greater than 1µs): 10-2000 Hz, 15 g
- Climatic category (IEC): 55/85/21

PLCC Extraction Tool



Part Number 8604-5450