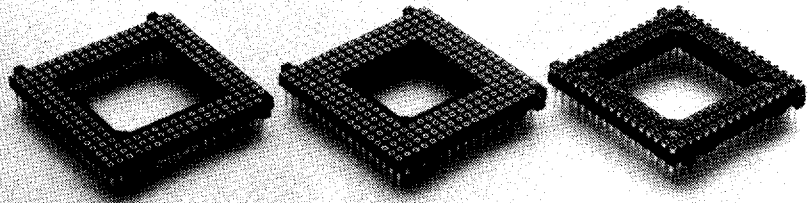
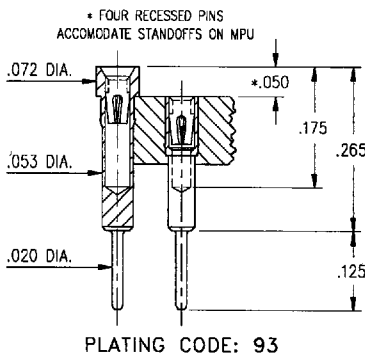


- Series 590 & 517 PGA sockets are available for INTEL & MOTOROLA Microprocessors.
- Molded tabs hold down heatsink & clip assembly.
- Mill-Max #35 clip standard, see page 151 for details.
- Hi-Temp PCT insulator material suitable for all forms of soldering.



SERIES 590

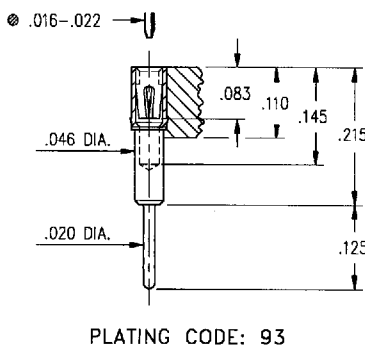


Ordering Information

For INTEL 486 Microprocessor, use part no. 590-93-168-17-105096. See pin detail at left. Footprint pattern can be found on page 47.

For MOTOROLA #MC 68040 Microprocessor, use part no. 517-93-179-18-117006. See pin detail at left. Footprint pattern can be found on page 47.

SERIES 517



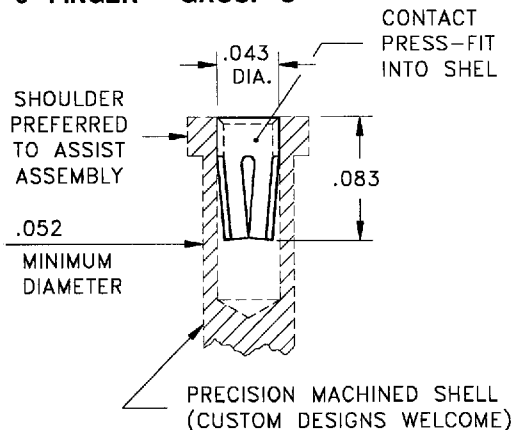
For MOTOROLA #MC 68060 Microprocessor, use part no. 517-93-223-18-098006. See pin detail at left. Footprint pattern can be found on page 47.

* Designed to work with THERMALLOY and IERC Heat sinks and clips.

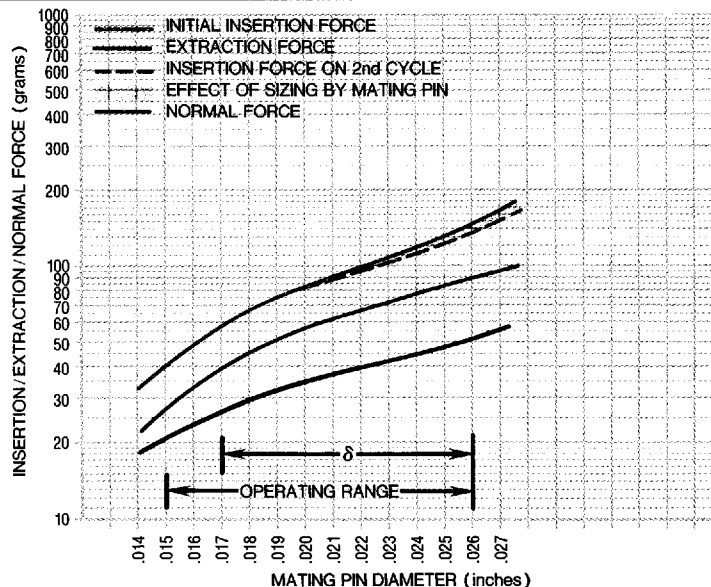
PLATING CODE		93		
Sleeve (Pin)		200 μ" Sn		
Contact (Clip)		30 μ" Au		

32 CONTACT

FOR .015 - .026 DIAMETER PINS ($\delta = .009$)
6-FINGER • GROUP C

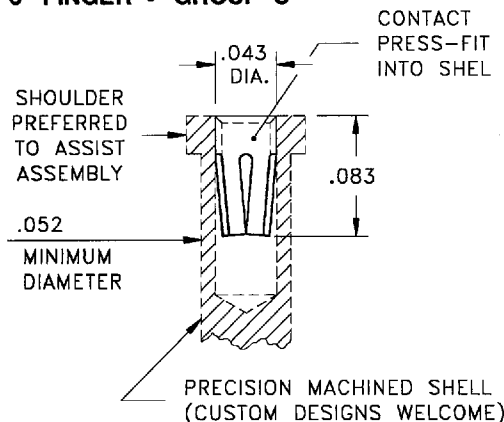


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat treated

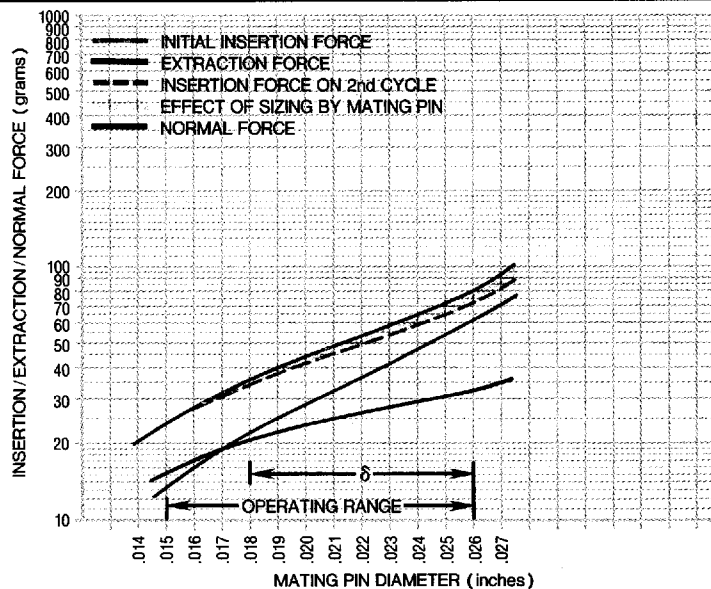


35 CONTACT

FOR .015 - .026 DIAMETER PINS ($\delta = .008$)
6-FINGER • GROUP C

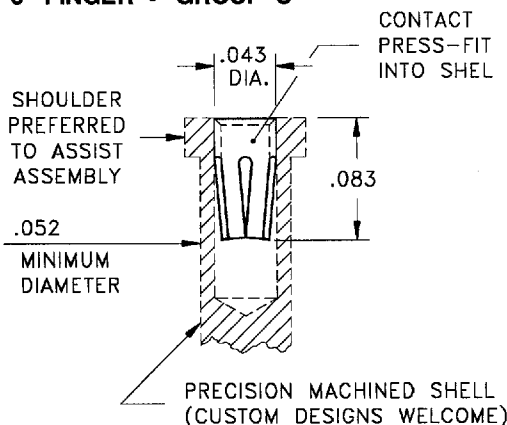


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat treated

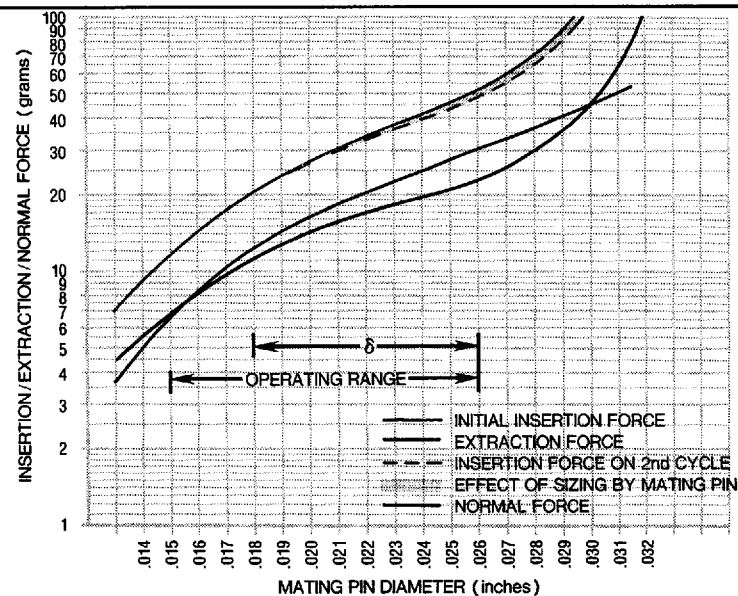


43 CONTACT

FOR .015 - .026 DIAMETER PINS ($\delta = .008$)
6-FINGER • GROUP C



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat treated



PIN GRID ARRAY SOCKETS Footprints

16 X 16	16 X 16	16 X 16	16 X 16	16 X 16	16 X 16
XXX-XX-155-16-003	XXX-XX-159-16-105	XXX-XX-173-16-005	XXX-XX-175-16-005	XXX-XX-175-16-006	XXX-XX-256-16-000

17 X 17	17 X 17	17 X 17	17 X 17	17 X 17	17 X 17
XXX-XX-145-17-001	XXX-XX-168-17-101	XXX-XX-168-17-105	XXX-XX-169-17-101	XXX-XX-181-17-001	XXX-XX-209-17-081

					TOP VIEW
17 X 17	17 X 17	17 X 17			
XXX-XX-240-17-061	XXX-XX-289-17-000	XXX-XX-325-17-105			

18 X 18	18 X 18	18 X 18	18 X 18	18 X 18	18 X 18
XXX-XX-155-18-121	XXX-XX-179-18-095	XXX-XX-179-18-117	XXX-XX-223-18-095	XXX-XX-223-18-098	XXX-XX-224-18-095

18 X 18	18 X 18	18 X 18	18 X 18		
XXX-XX-225-18-091	XXX-XX-241-18-075	XXX-XX-324-18-000	XXX-XX-391-18-096		

19 X 19	19 X 19	19 X 19	19 X 19	19 X 19	19 X 19
XXX-XX-238-19-086	XXX-XX-256-19-081	XXX-XX-281-19-081	XXX-XX-296-19-125	XXX-XX-296-19-126	XXX-XX-296-19-127



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mill-Max:

[517-93-223-18-098006](#) [590-93-168-17-105096](#) [517-93-179-18-117006](#)