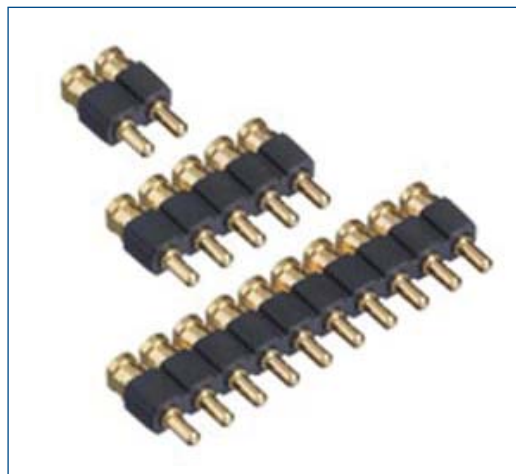


MAXIMUM SOLUTIONS

Mill-Max Introduces Horizontal SMT Spring-Loaded Connectors

Mill-Max introduces the new [810 series](#) Horizontal SMT Spring-loaded Connectors. 810 series connectors are ideal for low profile spring interconnections parallel to the board surface.

Applications are recharging modules, grounding points, test points and board edge-to-edge interfaces, typically to our [mating target connectors](#).



Utilizing Mill-Max's state-of-the-art, high quality precision-machining technology, these durable spring pins are designed to assure a 1 million cycle life minimum. Rated at 2A continuous (3A peak), the pins are plated 20 μ " gold over nickel on the piston and base, with 10 μ " gold over nickel plating on the beryllium copper internal spring.

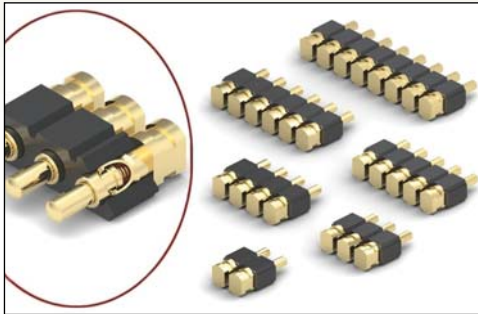
The .045" (1.14mm) mid-stroke allows for .025" (.64mm) more travel than most standard series spring pins, yet the overall length when compressed to mid-stroke is a compact .252" (6.4mm.) Also, the pins are mounted on .100" (2.54mm) pitch in high-temperature thermoplastic insulators—suitable for all typical reflow soldering processes.

These highly reliable horizontal surface mount spring pin connectors are available in up to 10 positions. For more information, please visit www.mill-max.com/PR607.

(2/14 --607)

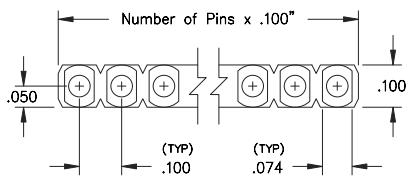
SPRING-LOADED CONNECTORS

SERIES 810 • .100" GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

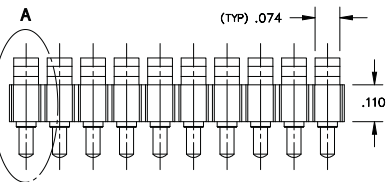


- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B.'s when mated with right angle target connectors (series 399...10-008) or for mating boards in a perpendicular orientation
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke & .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 810 series contact strips are designed for manual placement onto solder pads

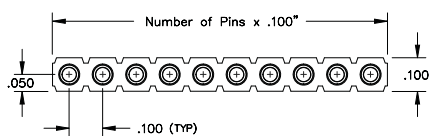
SINGLE ROW Series 810



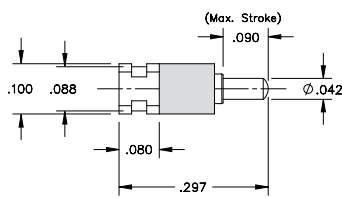
TOP VIEW



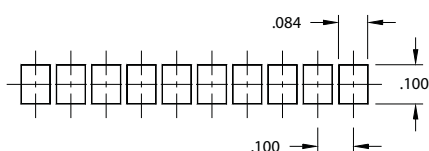
FRONT VIEW



DETAIL 'A'



Suggested P.C.B. FOOTPRINT



Coplanarity .005". For Pin Counts >10 positions consult Technical Support

ORDERING INFORMATION

Single Row Series 810

810-22-0XX-40-001101

Specify number of contacts 01-10

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.045"): 60 grams
 Durability: 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS - 2
2011/65/EU

