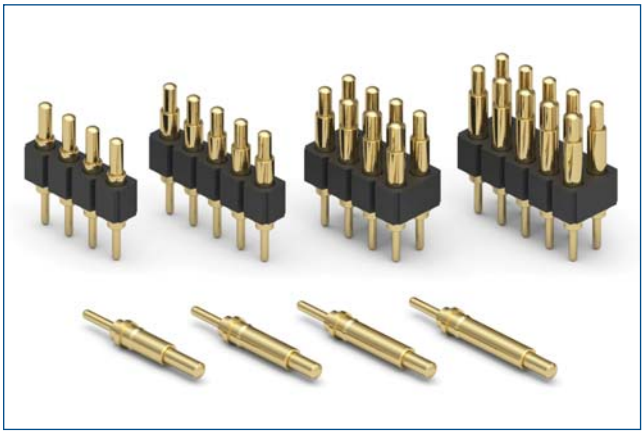
MAXIMUM SOLUTIONS

Mill-Max Expands its Selection of .090" Stroke Spring-Loaded Pins and Connectors



Mill-Max has added three new heights to the popular 0914 series of spring-loaded pins and corresponding single and double row connectors. The 0914 series has a mid-stroke distance of .045" (1,14 mm) [.090" (2,29 mm) full stroke] – close to double most standard series products. This provides more flexibility and tolerance for your assembly. These new, taller versions can be useful for assemblies requiring greater distance between mating surfaces and contact points.

The current 0914-0-15-20-77-14-11-0 spring pin has an above board height of .302" (7,67 mm), the three new versions provide an increase in height in increments of .030" (0,76 mm), see the table below for details. The new versions will also be used to expand the current 825-22-0XX-10-00X101 (single row) and 827-22-0XX-10-00X101 (double row) series connectors.

The longer stroke provides great benefit in compensating for tolerance stack-ups and, combined with the increased height, makes them an excellent solution for elevated board stacking applications. The 0914 series spring pins have solder tails for through-hole mounting, providing the support necessary for taller components to maintain a secure connection to the PC board.

Gold-plated brass components and beryllium copper springs ensure the highest conductivity, corrosion resistance and durability. The 825 and 827 series connectors feature the 0914-X spring-loaded pins rated at 2 amps continuous (3 amps maximum), use high temperature Nylon 46 insulators and are suitable for most soldering operations.

Connector Part Number	Pin Part Number	Above Board Height
825-22-0XX-10-001101 827-22-0XX-10-001101	0914-0-15-20-77-14-11-0	.302"
825-22-0XX-10-002101 827-22-0XX-10-002101	0914-1-15-20-77-14-11-0	.332"
825-22-0XX-10-003101 827-22-0XX-10-003101	0914-2-15-20-77-14-11-0	.362"
825-22-0XX-10-004101 827-22-0XX-10-004101	0914-3-15-20-77-14-11-0	.392"

For more information, please visit: www.mill-max.com/PR656.

(PR656, 6/15)

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MILL-MAX®

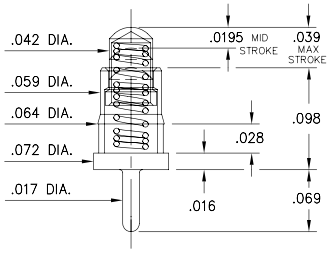
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • THROUGH-HOLE MOUNT

0906-0

0906-0-15-20-76-14-11-0

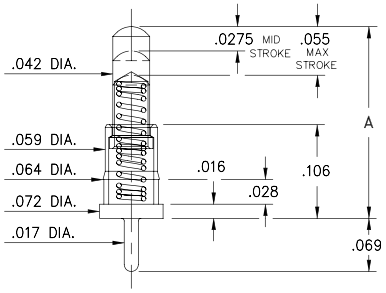
Short stroke, Solder mount in .020 min. mounting hole. Also available with insulated sleeve, see page 19.5



0906-1⇨4,8

0906-X-15-20-7X-14-11-0

Standard stroke, Solder mount in .020 min. mounting hole
Also available with insulated sleeve, see page 19.5



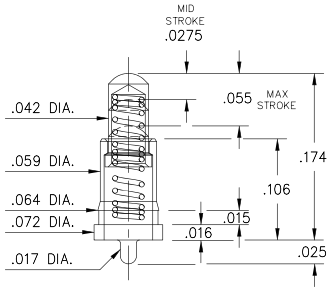
Basic Part Number	Length A
0906-1	.177
0906-2	.197
0906-3	.217
0906-4	.236
∗0906-8	.155

∗0906-8 has a .0195 Mid. Stroke & .039 Max. Stoke

0930

0930-0-15-20-75-14-11-0

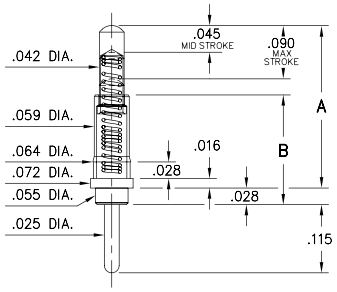
Standard stroke
Solder mount in .020 min. mounting hole



0914

0914-X-15-20-77-14-11-0

Long stroke
Solder mount in .029 min. mounting hole

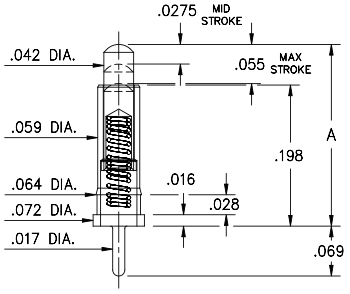


Basic Part Number	Length A	Length B
0914-0	.274	.185
0914-1	.304	.242
0914-2	.334	.272
0914-3	.364	.302

0908-0⇨9

0908-X-15-20-75-14-11-0

Standard stroke
Solder mount in .020 min. mounting hole

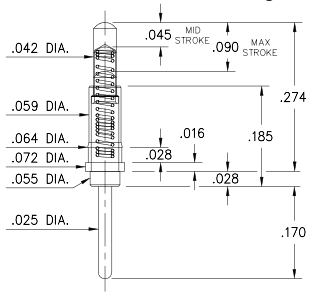


Basic Part Number	Length A
0908-0	.255
0908-1	.275
0908-2	.295
0908-3	.315
0908-4	.335
0908-5	.350
0908-6	.370
0908-7	.390
0908-8	.410
0908-9	.430

0932

0932-0-15-20-77-14-11-0

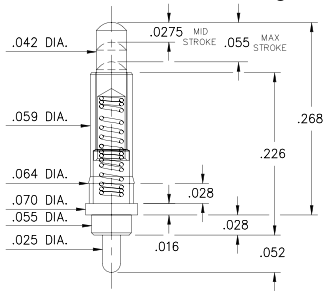
Long stroke
Solder mount in .029 min. mounting hole



0901

0901-0-15-20-75-14-11-0

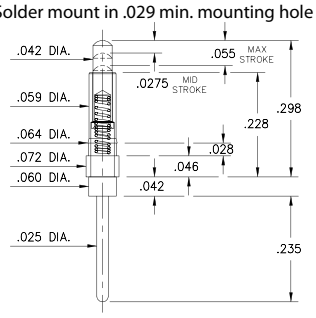
"Legacy P/N 0901-0-00-00-00-00-11-0"
Solder mount in .029 min. mounting hole



0929

0929-0-15-20-75-14-11-0

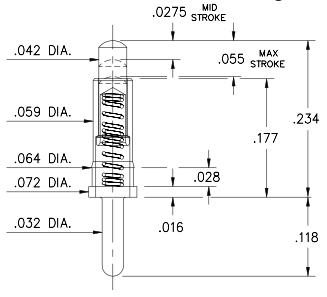
Standard stroke
Solder mount in .029 min. mounting hole



0956

0956-0-15-20-75-14-11-0

Standard stroke
Solder mount in .035 min. mounting hole



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 µ" Gold over Nickel
Spring Finish: 10 µ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2 °

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Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125° C

75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
77	.045	.090	60 g	25 g

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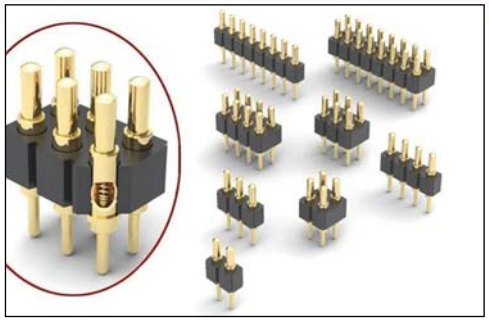
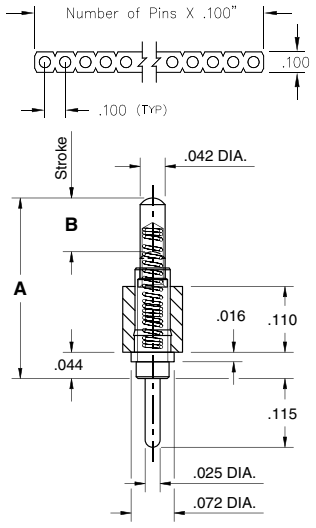
SPRING-LOADED CONNECTORS

SERIES 825 & 827 • .100" GRID THROUGH-HOLE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

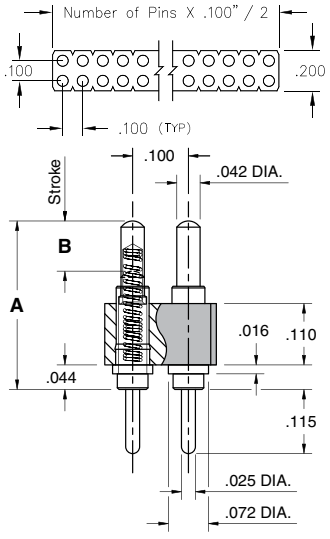


- Modular contacts for use on .100" grid, available in four heights from .302" to .392", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 825 & 827 series contact strips are designed for manual placement into Ø .030±.003" plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 825



DOUBLE ROW Series 827



ORDERING INFORMATION

Single Row Series 825

825-22-0XX-10-00X101

Specify number of contacts 02-64 — **Specify contact style** 1-4

Double Row Series 827

827-22-0XX-10-00X101

Specify number of contacts 04-72 — **Specify contact style** 1-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
1	.302	.090
2	.332	.090
3	.362	.090
4	.392	.090

Technical Specifications

Materials:

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

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: 1,000,000 cycles

Electrical:

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

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