

MAXIMUM SOLUTIONS

Solder Cup Spring-Loaded Connectors with .090" Stroke



Mill-Max is expanding our solder cup, spring loaded connector series with the introduction of new versions delivering over 60% more stroke than the existing series. The single row 824-22-0XX-00-005000 and double row 826-22-0XX-00-005000 provide a mid-stroke of .045" (1,14 mm) with a maximum stroke of .090" (2,29 mm). The longer stroke helps compensate for tolerance stack-ups in assemblies and provides greater flexibility for unpredictable motion due to shock and vibration.

The 824 & 826 series headers feature the new 0947-0-15-20-77-14-11-0 spring pin utilizing our popular .090" maximum stroke spring. Each pin in the connector provides a mid-stroke force of 60 grams, a solder cup sized to accommodate up to a 22 AWG wire and a current rating of 2 amps continuous use (3 amps maximum). The high retention force press-fit of the solder cup to the body of the spring pin insures the reliability of the component during soldering and assembly operations. Uniform orientation of the solder cups makes it easy to solder your cable or discrete wires to the spring pins by eliminating the need to manipulate the wires or the connector to solder each wire. Once the wires are securely soldered in the cups you have a wired spring-loaded assembly; a perfect interface solution for discrete wire to board, cable to board or cable to cable applications. The connectors are made with high temperature Nylon 46 insulators, have .100" (2,54 mm) pin spacing and are available from 1-64 positions single row and 2-72 double row.

Gold plated, precision machined brass components and beryllium copper springs ensure the highest conductivity, corrosion resistance and durability. The spring-loaded plunger is suitable for mating with gold plated PCB pads or Mill-Max target pins and connectors. Mill-Max offers a complete line of target connectors to act as the mating surface for the spring-loaded plungers. Target connectors are available in through hole and SMT (319 series single row, 419 series double row), right angle (399...10-008 single row, 499...10-008 double row) and with solder cup terminations for cable to cable applications (330 series single row, 430 series double row). Discrete target pins & disks are also available as standard options.

For more information, please visit: [visit www.mill-max.com/PR678](http://www.mill-max.com/PR678).

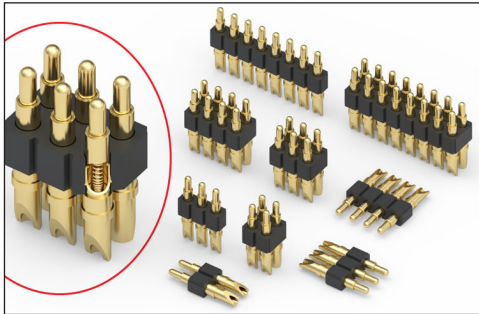
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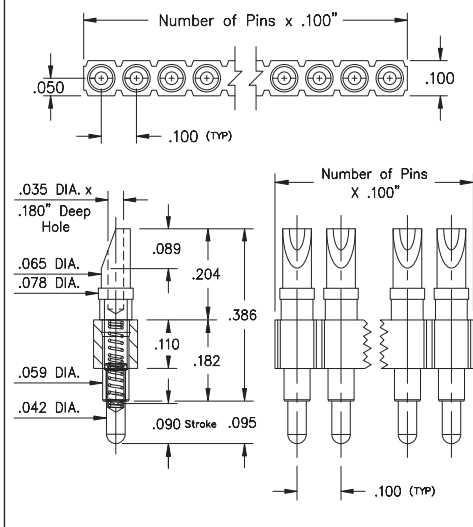
SPRING-LOADED CONNECTORS

SERIES 824 & 826 • .100" GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

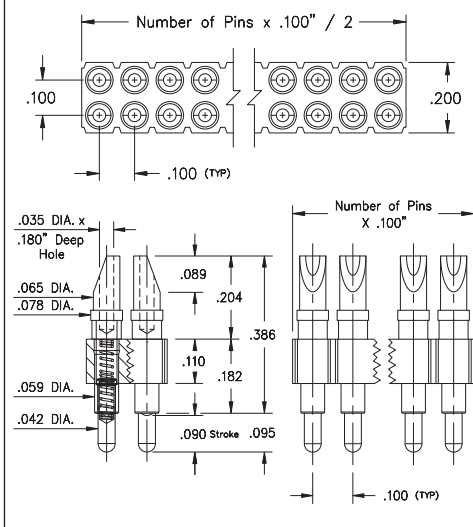


- Modular contacts for use on .100" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 24 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-005000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-005000

Specify number of contacts 02-72

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: Up to 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

