MAXIMUM SOLUTIONS

Mill-Max Adds a Long Stroke Option to Right-Angle Spring-Loaded Connectors

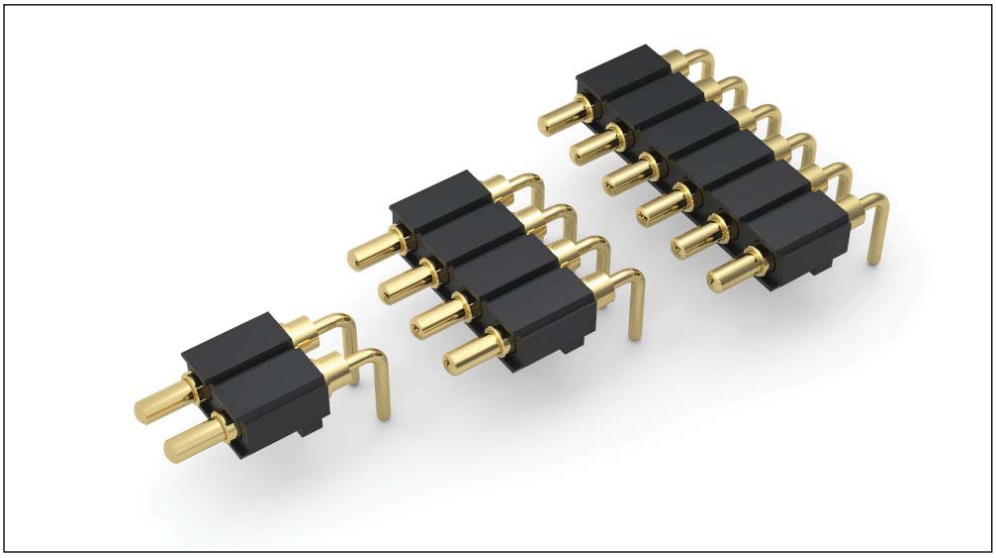
Mill-Max has added a second version to our 829 series single-row, right-angle, spring-loaded connectors. The new connector, 829-22-0XX-20-002101, has an increased mid-stroke distance of .045" (.090" full stroke) – close to double most standard series products and providing more flexibility and tolerance for your assembly.

Both versions of the 829 series are the perfect solution for applications calling for a spring-loaded connection that lies parallel to the PC board. Spring-loaded connectors (SLC) are commonly used to provide a high quality battery interface connection and in applications such as board-to-board interconnects and blind mate assemblies. These low profile, right angle connectors are ideal for the small packaging requirements of hand-held devices, especially where vertical space is limited.

With tails bent at right-angles and locating pegs on the insulator, the 829 series connectors are installed as through-hole components providing a secure connection to the PC board. These SLC's are suitable for hand, intrusive reflow or wave soldering.

Gold-plated brass components and beryllium copper springs ensure the highest conductivity, corrosion resistance and durability. The 829 series connectors feature spring-loaded pins rated at 2 amps continuous (3 amps maximum), use high temperature Nylon 46 insulators and are offered in up to 20 positions in a strip.

For more information, please visit: www.mill-max.com/PR639.



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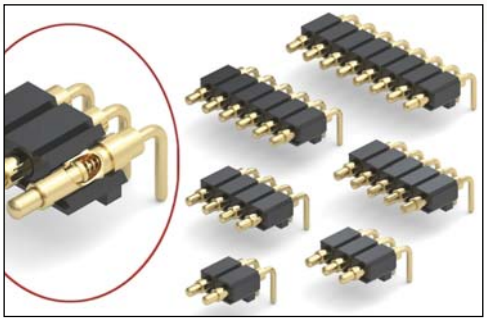
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, Oyster Bay, NY 11771
516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

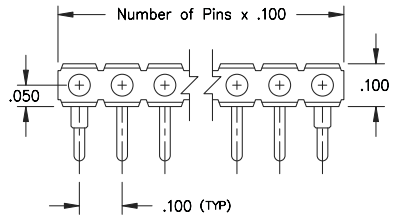
SPRING-LOADED CONNECTORS

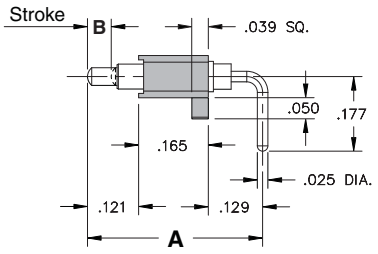
SERIES 829 • .100" GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS



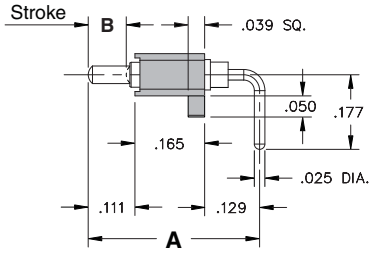
- Modular contacts for use on .100" grid. Supplied in single row strips with mounting pegs for support
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- 829 series contact strips are designed for manual placement into Ø .032±.003" plated through-holes in the circuit board prior to wave or reflow soldering

SINGLE ROW Series 829



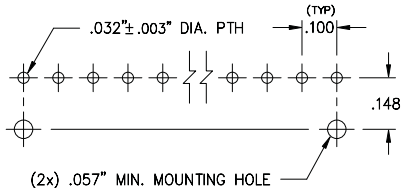


Contact style 1 only



Contact style 2 only

Suggested P.C.B Footprint



ORDERING INFORMATION

Single Row Series 829

829-22-0XX-20-00X101

Specify number of contacts 01-20 — **Specify contact style** 1 or 2

CONTACT STYLE	INITIAL LENGTH A	MAX. STROKE B
1	.415	.055
2	.406	.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 length (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.

RoHS-2 2011/65/EU

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