MAXIMUM SOLUTIONS

Mill-Max Introduces 3 mm Maximum Stroke Spring-Loaded Pin

Mill-Max is proud to announce a new addition to its springloaded pin selection with the introduction of the 0919-0-15-20-89-14-11-0. This new offering has a maximum stroke of 3 mm (.118") with an initial height of .379" (9,63 mm). It is designed for SMT termination and can be used at a minimum spacing of .100" (2,54 mm).

The 0919 spring pin has a recommended working travel range of .030" (0,762 mm) to .100" (2,54 mm) and a maximum



mechanical travel of .118" (3 mm), the greatest in our current spring pin lineup. There is a hard stop incorporated to prevent over compression and minimize the risk of damage to the spring. This pin is ideal for applications where greater compliancy is desired. It can compensate for problematic tolerance stack ups in assemblies featuring board-to-board or device-to-board connections. The 0919 allows a greater range of movement between mating components, providing stable connectivity in assemblies subject to motion, such as mobile devices and light weight devices that often use more flexible housings and materials. When compressed to mid-stroke, it still allows for .040" (1,02 mm) additional travel while remaining in the recommended working range. Because the 0919 has more stroke capability, it provides higher forces at its recommended working travel than similar spring pins of this scale. This may be desirable to a designer seeking to sustain reliable contact during cycles of high shock and vibration. The 0919 exhibits an average 85 gram force at mid-stroke with the ability to achieve 127 grams at the top of the recommended travel.

The 0919 is also available packaged in single and double row strips on .100" (2,54 mm) centers. The single row series part number is 837-22-0XX-30-001101 (change last three digits to 191 for tape & reel packaging); the double row series part number is 839-22-0XX-30-001101 (change last three digits to 191 for tape & reel packaging). Gold-plated brass components and stainless steel springs ensure the highest reliability, corrosion resistance and durability. The spring-loaded plunger is suitable for mating with gold-plated PCB pads or Mill-Max target pins and connectors.

For more information, please visit: www.mill-max.com/PR668.

(9/16 -- PR668)

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SPRING-LOADED CONNECTORS

SERIES 837 & 839 • .100" GRID SURFACE MOUNT, 3MM MAX. STROKE • SINGLE AND DOUBLE ROW STRIPS





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



- Modular contacts for use on .100" grid, available in single and double row contact strips with recommended working travel of .030" .100" and max. stroke of .118" +0/-.010"
- Precision-machined piston / base and gold-plated components
- Extended body provides greater bearing surface for increased strength & plunger protection
- · Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- · High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 837 & 839 series, are available on 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 837 & 839 series contact strips are designed for manual or automatic placement onto .082" Ø solder pads

ORDERING INFORMATION





Capacitance: 1pF max.

Dielectric strength: 700Vrms min.



DISCRETE SPRING-LOADED CONTACTS



Sleeve & Plunger Material: Copper Alloy Spring Material: BeCu or Stainless Steel 302 *Sleeve & Plunger Finish: 20μ " Gold over Nickel Spring Finish: 10μ " Gold over Nickel Dimensions: Inches Tolerances On: Lengths: $\pm .006$

Diameters: ± .002 Angles: ± 2 °



interchangeable

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
80	.012	.024	70 g	25 g
85	.040	.080	60 g	25 g
86	.0275	.055	60 g	25 g
89	.059	.118	85 g	25 g

