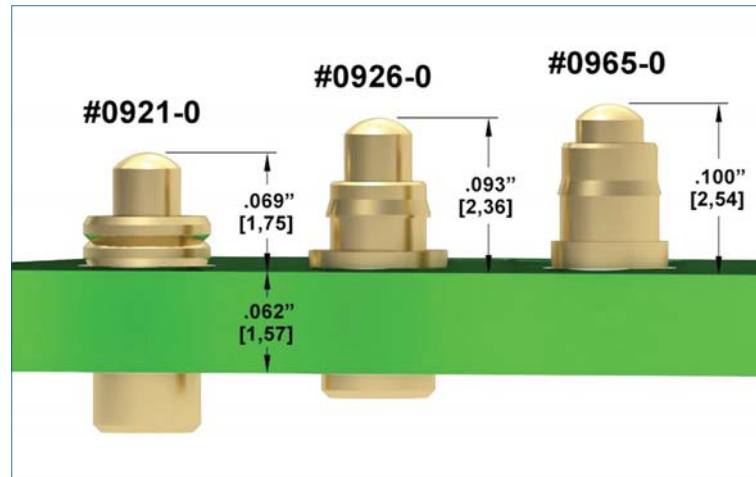


MAXIMUM SOLUTIONS

Mill-Max's Ultra-Low and Low Profile Spring Pins



Mill-Max has developed a series of ultra-low and low profile spring pins for applications where above board height is limited. As packaging requirements for electronics continue to shrink in size, traditional interconnects don't always fit the bill. For board-to-board or device-to-board connections, low profile spring pins are a practical solution.

Mill-Max has five new low profile spring pins to choose from that provide unique above PCB height profiles and through-hole or SMT options. The [0921-X](#) & [0926-X](#) series are through-hole mount and have either .0195" (0,5 mm) or .0275" (0,7 mm) mid-stroke travel. The [0965](#) is for surface mount applications and has .012" (0,3 mm) mid stroke travel.

These new low profile options maintain the quality and reliability of current Mill-Max spring pins by utilizing the same technology & internal spring components. Gold-plated components and springs ensure the highest conductivity, corrosion resistance and durability. All three pins are rated for one million cycles and have a current rating of 2 amps continuous use (3 amps maximum.)

The pins are supplied in bulk as standard packaging. For applications requiring a single or double row strip or custom layout of pins other packaging options are available. The [0926-X](#) and [0965](#) pins can be mounted into machined Fr-4 epoxy insulators while the [0921-X](#) pins can be supplied on removable Kapton tape. Contact the [Mill-Max Technical Services](#) department to discuss your specific requirements.

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SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

<p>0965 0965-0-15-20-80-14-11-0 Ultra low profile, Surface mount * Stainless steel spring</p>	<p>0921-0 0921-0-15-20-76-14-11-0 Ultra low profile, Short stroke Solder mount in .070 min. mounting hole</p>	<p>0921-1 0921-1-15-20-75-14-11-0 Low profile, Standard stroke Solder mount in .070 min. mounting hole</p>	<p>0926-0 0926-0-15-20-76-14-11-0 Low Profile, Short Stroke Solder mount in .074 min. mounting hole</p>
<p>0926-1 0926-1-15-20-75-14-11-0 Low profile, Standard stroke Solder mount in .074 min. mounting hole</p>	<p>0977 0977-0-15-20-75-14-11-0 Standard stroke, Surface mount Also available on 24mm wide carrier tape: 1,100 parts per 13" reel. Order as: 0977-0-57-20-75-14-11-0</p>	<p>0980 0980-0-15-20-75-14-11-0 Double action, .055 Combined stroke Mount between parallel circuit boards</p>	
<p>0959 0959-0-54-20-75-14-11-0 Receptacle spring pin, Standard stroke Accepts .020" - .032" Dia. pins</p>			

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
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°



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, 80, 85 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - **XX** - 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
80	.012	.024	70 g	25 g
85	.040	.080	60 g	25 g

