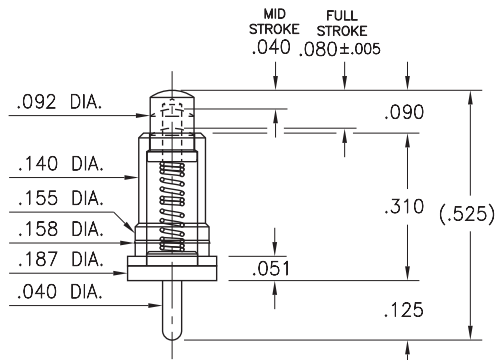


**PRODUCT NUMBER: 0861-0-15-20-82-14-11-0**

**0861-0-15-20-82-14-11-0**

Power spring pin, Long stroke. \*Force @ Mid. Stroke 100 g  
 Solder mount in .043 min. mounting hole



**Standard Tolerances:**  
 Lengths: ±.006  
 Diameters: ±.002  
 Angles: ± 2°

**DESCRIPTION**

Spring-Loaded Power Pin (9A current rating)

**Durability:**

100,000 to 1,000,000 Cycles @ Mid-Stroke

**Current Rating:**

See Spring Derating Curve

**Contact Resistance:**

20 mΩ Max

**Operating Temperature Range:**

-55/+125° C

**Vibration:**

No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G

**Shock:**

No Elect. Discontinuity > 1μs @ 50g

**Mounting Feature:**

Through-Hole Solder Mount

**Tail Type:** Solder tail

**Mounting Hole:** .043" (1,092mm)

**Tail Diameter:** .040" (1,016mm)

**Packaging:** 15 - Packaged in Bulk

<b>Shell Plating</b>	<b>Spring Plating</b>	<b>ROHS</b>
----------------------	-----------------------	-------------

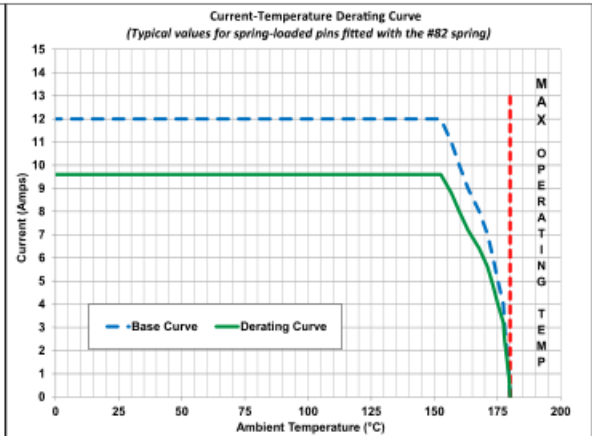
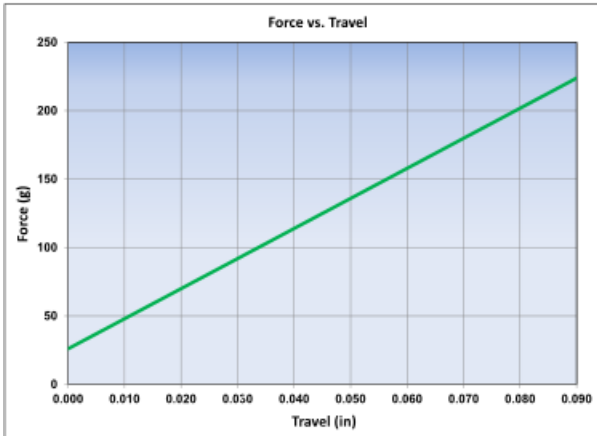
20 μ" Gold over Nickel

10 μ" Gold over Nickel



**SPRING:**

<b>#82 SPRING</b> HIGH FORCE SPRING	Full Stroke Capability : $.090'' \pm .005''$ [2,29 ± 0,127]
Spring Material : <b>Stainless Steel 302</b>	Force @ Mid. Stroke : <b>120 g ± 20 g</b>
Mid. Stroke : <b>.045''</b> [1,14]	Initial Force (Pre-Load) : <b>25 g</b>



The stroke, force and current rating values are measured using spring pins with an internal construction per the design specification. Individual spring pin performance may vary from these values based on design differences.

<b>Material</b>	Stainless Steel	<b>Grams Force</b>	120
<b>Max Stroke</b>	0.09		

**CONTACT MATERIAL:**

**Stainless Steel 302/304 per ASTM A313**

This is an austenitic stainless steel round wire especially for the manufacturing of springs. It is a grade that is age hardenable with superior corrosion resistance.

**PHYSICAL PROPERTIES**

- Density: 0.29 lb/in<sup>3</sup> (8.03 g/cm<sup>3</sup>)
- Tensile Strength: 325 – 355 ksi

**CHEMICAL PROPERTIES (%)**

- Carbon: .08 max
- Manganese: 2.00 max.
- Phosphorus: .045 max.
- Sulfur: .030 max.
- Silicon: 1.00 max.
- Chromium: 18.0 – 20.0
- Nickel: 8.0 – 10.5

**STANDARD TOLERANCES ON PCB TERMINAL PINS & RECEPTACLES**

Diameters +/- .002"  
Lengths +/- .005"  
Angles +/- 2°

**STANDARD TOLERANCES ON SPRING-LOADED PINS**


Diameters +/- .002"  
Lengths +/- .006"  
Angles +/- 2°

**ADDITIONAL NOTES & SPECIFICATIONS**

In the interest of improved design, quality and performance , Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. The tolerance on dimensions of critical to function features is typically held tighter than the stated standard tolerances, such as press-fits, holes and lengths affecting the coplanarity of SMT products. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the

tolerance of a particular part, please contact Technical Services.

---

 © 2021 Mill-Max Mfg. Corp.  
190 Pine Hollow Rd , Oyster Bay, NY 11771, USA  
Phone: 516.922.6000