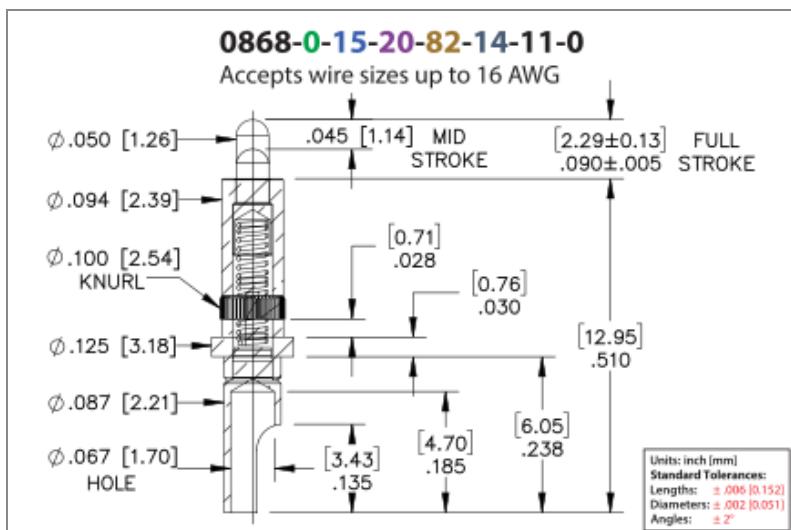




PRODUCT NUMBER: 0868-0-15-20-82-14-11-0

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DATA SHEET



## 0868-0-15-20-82-14-11-0 SPECIFICATIONS

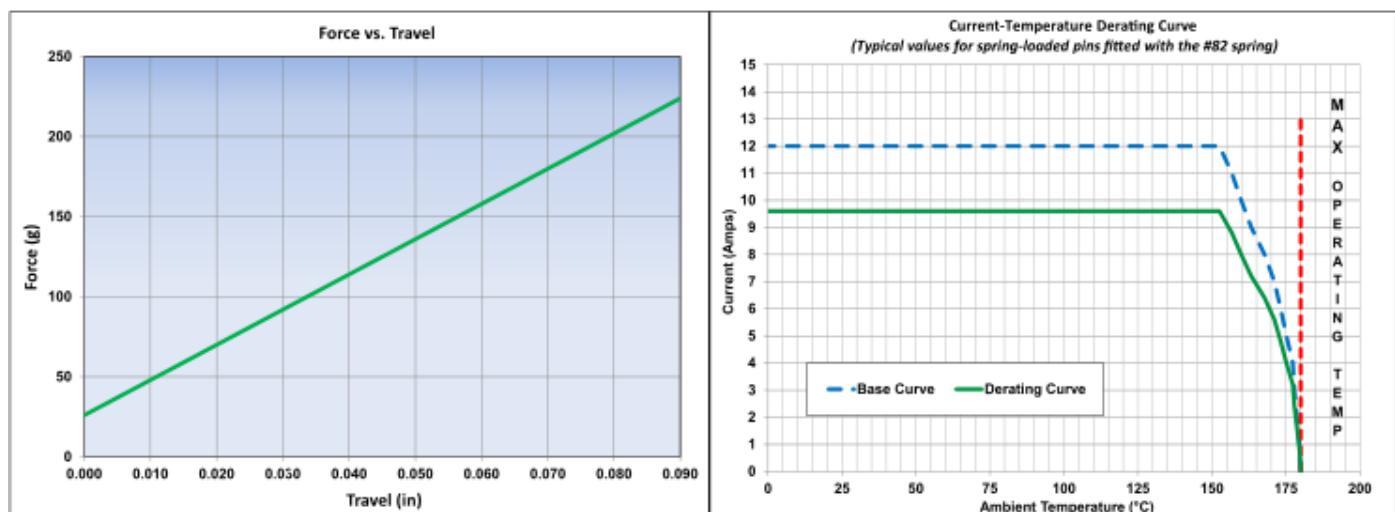
General Info		Materials	Technical Specs
<b>Description<sup>1</sup>:</b>	Spring-Loaded Pin with Solder Cup Termination	<b>Shell Material<sup>4</sup>:</b> Brass Alloy	<b>Durability:</b> 100,000 to 1,000,000 Cycles @ Mid-Stroke
<b>Mounting Feature:</b>	Press-Fit into a Non-Plated Through Hole (NPTH) or Insulator	<b>Shell Plating<sup>5</sup>:</b> 20 $\mu$ " Gold over Nickel	<b>Operating Temperature Range<sup>7</sup>:</b> -55/+125° C
<b>Mounting Hole:</b>	.098" (2,489mm)	<b>Spring Plating<sup>6</sup>:</b> 10 $\mu$ " Gold over Nickel	<b>Current Rating<sup>8</sup>:</b> See Spring Specifications Below
<b>Initial Height:</b>	.600" (15,240mm)		<b>Contact Resistance<sup>9</sup>:</b> See Spring Specifications Below
<b>Stroke:</b>	.090" (2,286mm)		<b>Shock<sup>10</sup>:</b> No Elect. Discontinuity > 1 $\mu$ s @ 50g
<b>Packaging:</b>	Packaged in Bulk		<b>Vibration<sup>11</sup>:</b> No Elect. Discontinuity > 1 $\mu$ s @ 10-2000HZ, 20 G
<b>RoHS<sup>2</sup>:</b>	Yes		
<b>Product Lifecycle<sup>3</sup>:</b>	Active		

## NOTES:

1. Standard Tolerances:  
Lengths +/- .006" (0,15)  
Diameters: +/- .002" (0,051)  
Angles: +/- 2°
2. Mill-Max products labeled with the RoHS symbol are compliant with all three ROHS Directives. All of our products previously described as RoHS (2002/95/EC) and RoHS-2 (2011/65/EC) are also compliant with RoHS-3 (2015/863/EU).
3. Part is Active and in Production, No Scheduled Obsolescence
4. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
5. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}); NICKEL per ASTM B 689, Type 2 (Bright)
6. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), NICKEL per ASTM B 689, Type 2 (Bright)
7. Storage per IEC 60512-11-(4,9,10,12) and peak operating temperature per IEC 60512-5-2, Test 5b
8. Per IEC 60512-5-2; Current Carrying Capacity; Current Derating
9. Per EIA-364-23C: Low Level Contact Resistance.
10. Per IEC 60512-6-3: Test 6c: Shock
11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

## SPRING:

<b>#82 SPRING HIGH FORCE SPRING</b>	Full Stroke Capability : <b>.090"± .005" [2,29 ± 0,127]</b>
Spring Material : <b>Stainless Steel 302</b>	Force @ Mid. Stroke : <b>120 g ± 20 g</b>
Mid. Stroke : <b>.045" [1,14]</b>	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	<b>Maximum Current</b>	12A @ 30° C Temp. Rise

<b>Maximum Operating Temp @ Max Current</b>	150.00° C	<b>20% De-rated Maximum Current</b>	<b>9.60A</b>
<b>Contact Resistance</b>	20.00mΩ Max		

## ADDITIONAL NOTES AND 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.

## RELATED LINKS AND DOCUMENTS

Application Note: ( [https://www.mill-max.com/sites/default/files/external/assets/2019-07/pins\\_receptacles\\_and\\_connectors\\_with\\_integrated\\_solder\\_cups.pdf](https://www.mill-max.com/sites/default/files/external/assets/2019-07/pins_receptacles_and_connectors_with_integrated_solder_cups.pdf) )

Product Change Notice: ( [https://www.mill-max.com/sites/default/files/external/assets/2022-08/product\\_change\\_notice\\_868\\_0868\\_1968-x.pdf](https://www.mill-max.com/sites/default/files/external/assets/2022-08/product_change_notice_868_0868_1968-x.pdf) )

Engineering Notebook: ( <https://www.mill-max.com/engineering-notebooks/spring-loaded-contacts-with-solder-cups> )

Environmental Compliance: ( <https://www.mill-max.com/rohs> )