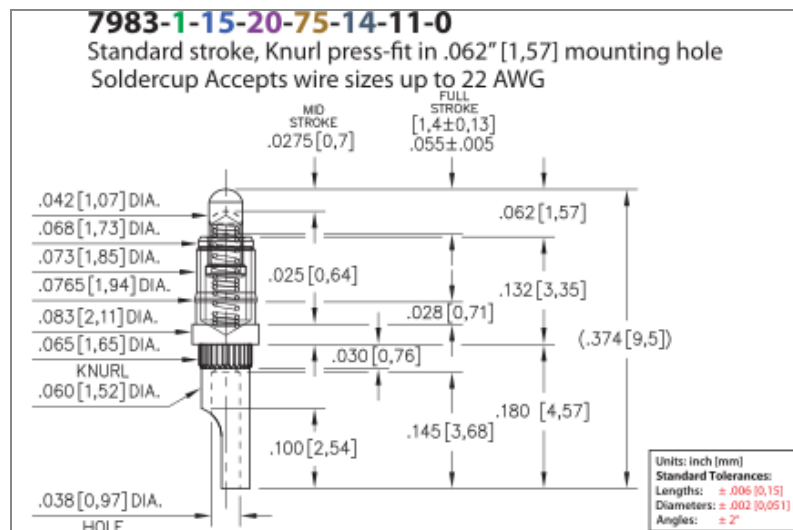




PRODUCT NUMBER: 7983-1-15-20-75-14-11-0

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DATA SHEET



## 7983-1-15-20-75-14-11-0 SPECIFICATIONS

General Info	
Description <sup>1</sup> :	Spring-Loaded Pin with Solder Cup Termination
Plunger Type:	Round
Mounting Feature:	Press-Fit into a Non-Plated Through Hole (NPTH) or Insulator
Mounting Hole:	.062" (1,575mm)
Initial Height:	.374" (9,500mm)
Stroke:	.055" (1,397mm)
Packaging:	Packaged in Bulk
RoHS <sup>2</sup> :	Yes
Product Lifecycle <sup>3</sup> :	Active
Country Of Origin:	USA

Materials
Shell Material <sup>4</sup> : Brass Alloy
Shell Plating <sup>5</sup> : 20 $\mu$ " Gold over Nickel
Spring Plating <sup>6</sup> : 10 $\mu$ " Gold over Nickel

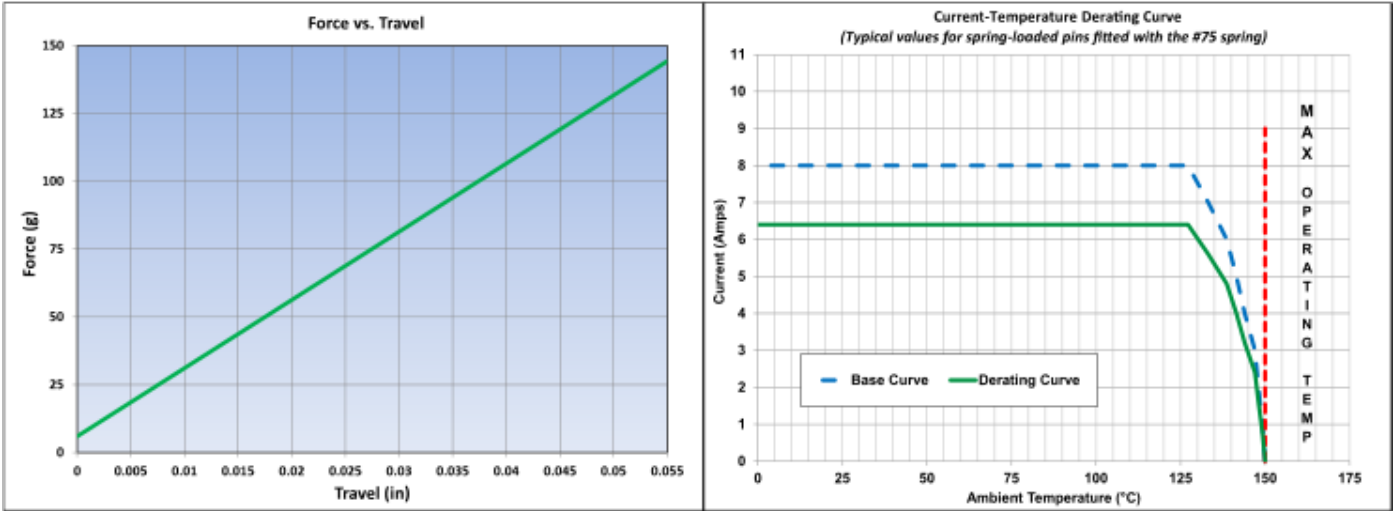
Technical Specs	
Mechanical life (Durability):	100,000 to 1,000,000 Cycles @ Mid-Stroke
Operating Temperature Range <sup>7</sup> :	-55/+125° C
Maximum Current:	8A @ 30° C Temp. Rise
Maximum Derated Current:	6.2A
Contact Resistance:	20 m $\Omega$ Max
Shock <sup>8</sup> :	No Elect. Discontinuity > 1 $\mu$ s @ 50g
Vibration <sup>9</sup> :	No Elect. Discontinuity > 1 $\mu$ s @ 10-2000HZ, 20 G

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 60512-6-3: Test 6c: Shock
- 9. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

SPRING:

#75 SPRING STANDARD FORCE SPRING	Full Stroke Capability : .055"± .005" [1,4 ± 0,127]
Spring Material : Beryllium Copper Alloy 172	Force @ Mid. Stroke : 60 g ± 20 g
Mid. Stroke : .0275" [0,7]	Initial Force (Pre-Load) : 10 g



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.

Material	Beryllium Copper	Grams Force	60.0000g
Max Stroke	.055" (1,397mm)	Maximum Current	8A @ 30° C Temp. Rise
Maximum Operating Temp @ Max Current	120.00° C	20% De-rated Maximum Current	6.20A

## 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/2020-10/spring-loaded\\_solder-cup\\_pin\\_2.pdf](https://www.mill-max.com/sites/default/files/external/assets/2020-10/spring-loaded_solder-cup_pin_2.pdf) )

Engineering Notebook: ( <https://www.mill-max.com/engineering-notebooks/spring-loaded-pogo-pins-connectors> )

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