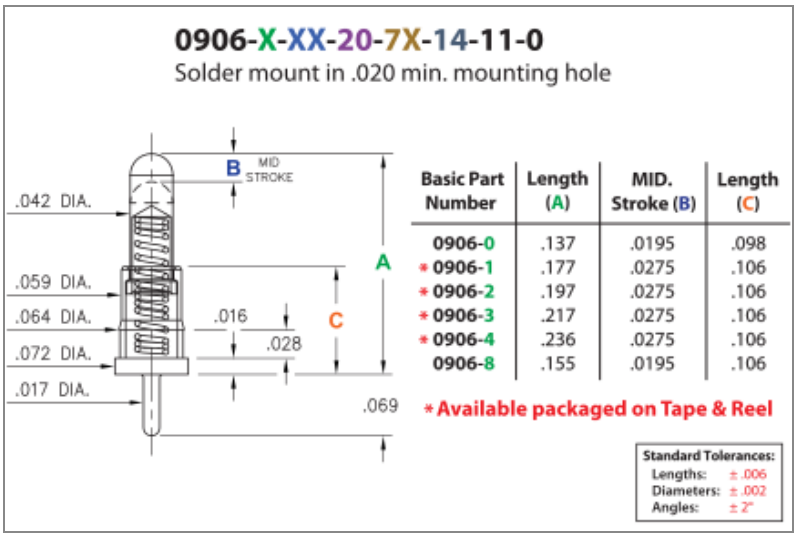
PRODUCT NUMBER: 0906-1-15-20-72-14-11-0

www.mill-max.com
DATA SHEET



Basic Part Number	Length (A)	MID. Stroke (B)	Length (C)
0906-0	.137	.0195	.098
* 0906-1	.177	.0275	.106
* 0906-2	.197	.0275	.106
* 0906-3	.217	.0275	.106
* 0906-4	.236	.0275	.106
0906-8	.155	.0195	.106

* Available packaged on Tape & Reel

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



0906-1-15-20-72-14-11-0 SPECIFICATIONS

General Info	
Description[1]:	Spring-Loaded Pin with a Standard Tail
Plunger Type:	Round
Mounting Feature[2]:	Through-Hole Solder Mount
Mounting Hole:	.020" (0,508mm)
Inital Height:	.177" (4,496mm)
Stroke:	.055" (1,397mm)
Packaging:	Packaged in Bulk
RoHS[3]:	Yes
Product Lifecycle[4]:	Active
Country Of Origin:	USA

Materials	
Shell Material[5]:	Brass Alloy
Shell Plating[6]:	20 µ" Gold over Nickel
Spring Plating[7]:	10 µ" Gold over Nickel

Technical Specs	
Mechanical life (Durability):	100,000 to 1,000,000 Cycles @ Mid-Stroke
Operating Temperature Range[8]:	-55/+125° C
Maximum Current:	Inner Spring Dependent, see Spring Data Below
Maximum Derated Current:	Inner Spring Dependent, see Spring Data Below
Contact Resistance:	Inner Spring Dependent, see Spring Data Below
Shock[9]:	No Elect. Discontinuity > 1µs @ 50g
Vibration[10]:	No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G

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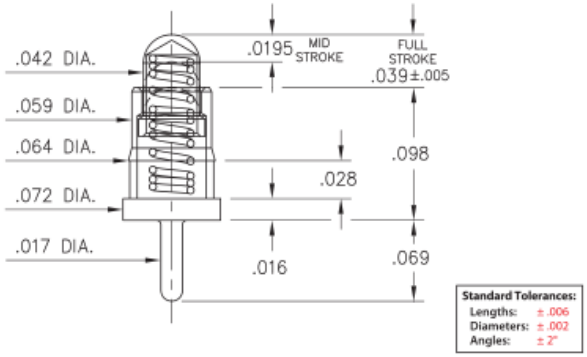
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NOTES:

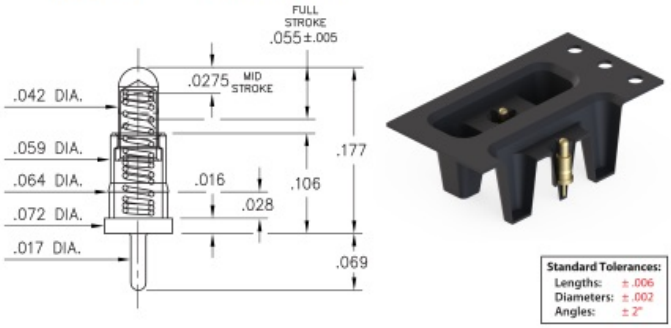
1. Standard Tolerances:
   Lengths +/-.006" (0,15)
   Diameters: +/-.002" (0,051)
   Angles: +/- 2°
2. For through-hole solder mounting of this part, the suggestion is to make the finished hole size, at its minimum, .004" larger than the diameter being soldered into the mounting hole.
3. Mill-Max products 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).
4. Part is Active and in Production, No Scheduled Obsolescence
5. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
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. 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)
8. Storage per IEC 60512-11-(4,9,10,12) and peak operating temperature per IEC 60512-5-2, Test 5b
9. Per IEC 60512-6-3: Test 6c: Shock
10. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

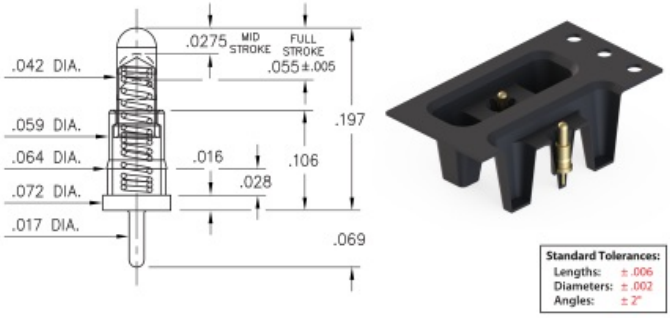
0906-0-15-20-76-14-11-0
Short stroke, Solder mount in .020 min. mounting hole



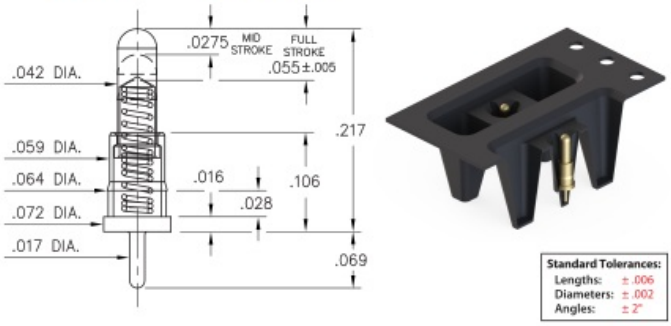
0906-1-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole
24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel
Order as: 0906-1-57-20-7X-14-11-0



0906-2-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole
24mm wide X 8mm pitch carrier tape: 1,200 parts per 13" reel
Order as: 0906-2-57-20-7X-14-11-0

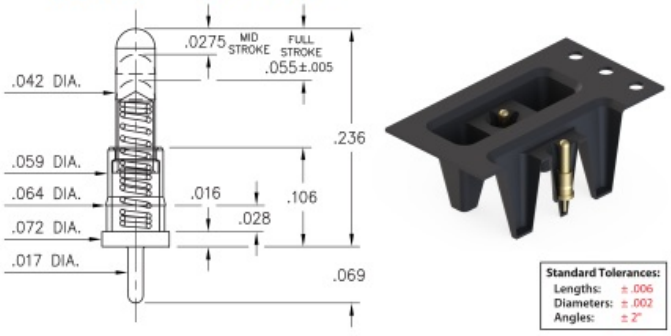


0906-3-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole
24mm wide X 8mm pitch carrier tape: 975 parts per 13" reel
Order as: 0906-3-57-20-7X-14-11-0

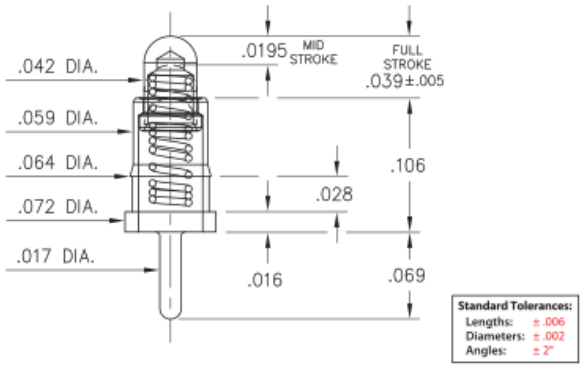


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0906-4-15-20-7X-14-11-0
Standard stroke, Solder mount in .020 min. mounting hole
24mm wide X 8mm pitch carrier tape: 975 parts per 13" reel
Order as: 0906-4-57-20-7X-14-11-0

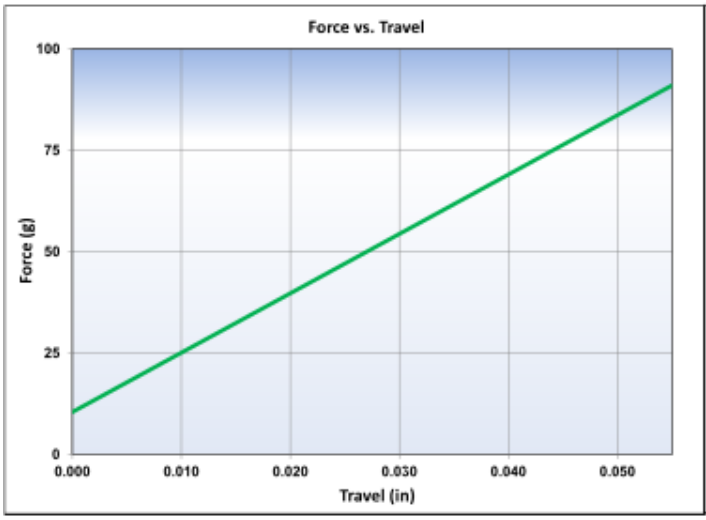


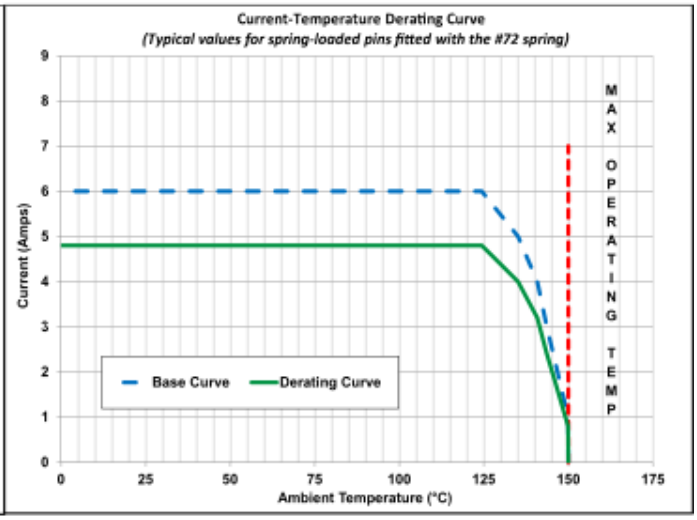
0906-8-15-20-76-14-11-0
Short stroke, Solder mount in .020 min. mounting hole



SPRING:

#72 SPRING LOW FORCE SPRING	Full Stroke Capability : .055"± .005" [1,4 ± 0,127]
Spring Material : Beryllium Copper Alloy 172	Force @ Mid. Stroke : 45 g ± 20 g
Mid. Stroke : .0275" [0,7]	Initial Force (Pre-Load) : 15 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**	45g
Max Stroke	.055" (1,397mm)	**Maximum Current**	6A @ 30˚ C Temp. Rise
Maximum Operating Temp @ Max Current	120.00˚ C	**20% De-rated Maximum Current**	4.80A
Contact Resistance	40.00mΩ Max		

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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

- **Change Notice - PRODUCT CHANGE NOTICE (0906-3-57-20-7X-14-11-0 & 0906-4-57-20-7X**
- Engineering Notebook: **Introduction to Spring Loaded Pogo Pins & Connectors**
- Environmental Compliance: https://www.mill-max.com/rohs

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