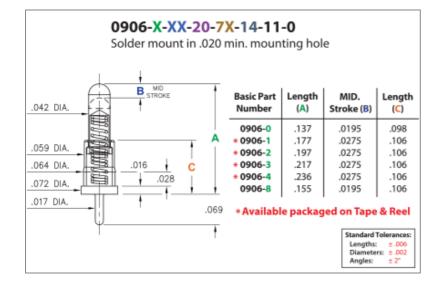


PRODUCT NUMBER: 0906-4-15-20-75-14-11-0





0906-4-15-20-75-14-11-0 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"			
Inital Height: .236"				
Stroke:	.055"			
Packaging:	Packaged in Bulk			
RoHS ³ :	Yes			
Product Lifecycle ⁴ :	Active			

Materials Shell Material ⁵: Brass Alloy

Shell Plating⁶: 20 µ" Gold over Nickel

Spring Plating⁷: 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			
Current Rating ⁹ :	See Spring Specifications Below			
Contact Resistance ¹⁰ :	See Spring Specifications Below			
Shock ¹¹ :	No Elect. Discontinuity > 1µs @ 50g			
Vibration ¹² :	No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G			

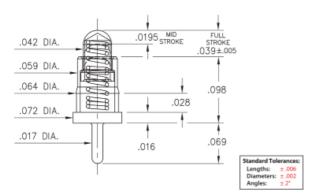
NOTES:

- 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.
- 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
- 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 60512-5-2; Current Carrying Capacity; Current Derating
- 10. Per EIA-364-23C: Low Level Contact Resistance.
- 11. Per IEC 60512-6-3: Test 6c: Shock
- 12. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

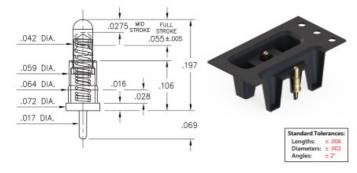


Short stroke, Solder mount in .020 min. mounting hole



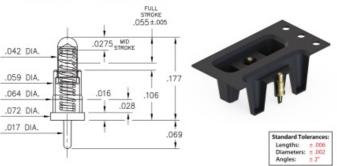
0906-2-15-20-7X-14-11-0

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



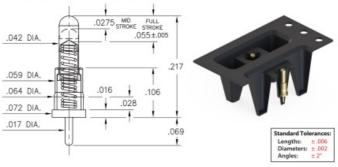
0906-1-15-20-7X-14-11-0

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



0906-3-15-20-7X-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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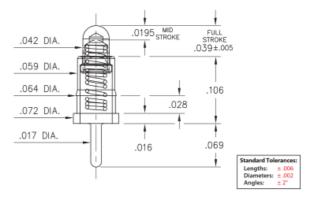
0906-4-15-20-7X-14-11-0

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

.042 DIA. .059 DIA. .059 DIA. .016 .028 .016 .028 .017 DIA. .017 DIA. .016 .009 .016 .009 .016 .009 .016 .009

0906-8-15-20-76-14-11-0

Short stroke, Solder mount in .020 min. mounting hole



SPRING:

#75 SPRING STANDARD FORCE SPRING		Full Stroke Capability : $.055'' \pm .005'' [1,4 \pm 0,127]$		
Spring Material : Beryllium Copper Alloy 172		Force @ Mid. Stroke : 60 g ± 20 g		
Mid.	. Stroke : .0275" [0,7]	Initial Force (Pre-Load) : 10 g		
150	Force vs. Travel	Current-Temperature Derating Curve (Typical values for spring-loaded pins fitted with the #75 spring)		
125		8 M 7 X		
100 ·				
Force (g)		Contrent (Amps)		
50 -		3 2 Base Curve — Derating Curve E		
0 -	000 0.010 0.020 0.030 0.040 0.050	1 P		
0.000 0.010 0.020 0.030 0.040 0.050 0 25 50 75 100 125 150 Travel (in) Ambient Temperature (°C)				

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	0.06	Maximum Current	6.5A @ 30° C Temp. Rise
Maximum Operating Temp @ Max Current	120.00° C	20% De-rated Maximum Current	5.20A
Contact Resistance	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

Product Change Notice: (<u>https://www.mill-max.com/sites/default/files/external/assets/2021-01/pcn-21-0119a_-_0906-3-57-20-7x-14-11-0_0906-4-57-20-7x-14-11-0.pdf</u>)

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