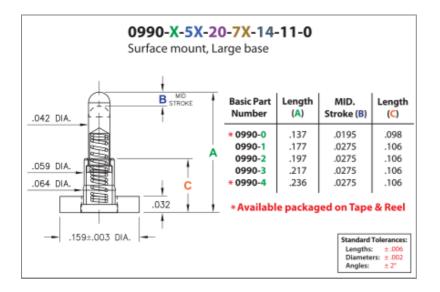




PRODUCT NUMBER: 0990-2-50-20-75-14-11-0





0990-2-50-20-75-14-11-0 SPECIFICATIONS

General Info	
Description ¹ :	Surface Mount Spring- Loaded Pin
Mounting Style :	Surface Mount
Inital Height:	.197" (5,004mm)
Stroke:	.055" (1,397mm)
Packaging:	50 - Packaged in Bulk
RoHS ² :	Yes
Product Lifecycle ³ :	Active

Materials		
Shell Material 4: Brass Alloy		
Shell Plating:	20 μ" Gold over Nickel	
Spring Plating ⁵ : 10 μ" Gold over Nickel		

Technical Specs	
Durability:	Up to 1,000,000 Cycles @ Mid-Stroke
Operating Temperature Range ⁶ :	-55/+125° C
Current Rating:	See Spring Derating Curve
Shock ⁷ :	No Elect. Discontinuity > 1μs @ 50g
Vibration ⁸ :	No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G

NOTES:

1. Standard Tolerances:

Lengths +/-.006" (0,15)

Diameters: +/-.002" (0,051)

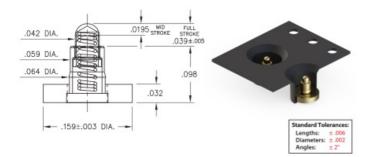
Angles: +/- 2°

- 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. Storage per IEC 60512-11-(4,9,10,12) and peak operating temperature per IEC 60512-5-2, Test 5b
- 7. Per IEC 60512-6-3: Test 6c: Shock
- 8. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

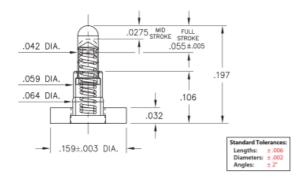
0990-0-50-20-76-14-11-0

Short stroke, Surface mount, Large base. Also available on 16mm wide X 8mm pitch carrier tape: 2,150 parts per 13" reel Order as: 0990-0-57-20-76-14-11-0



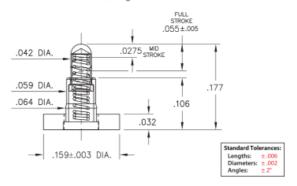
0990-2-50-20-7X-14-11-0

Standard stroke Surface mount, Large base



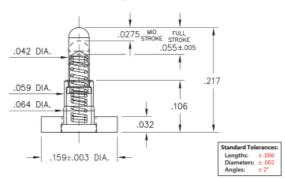
0990-1-50-20-7X-14-11-0

Standard stroke Surface mount, Large base



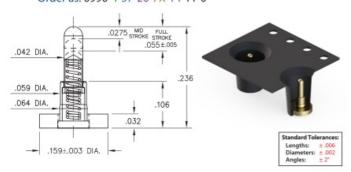
0990-3-50-20-7X-14-11-0

Standard stroke Surface mount, Large base



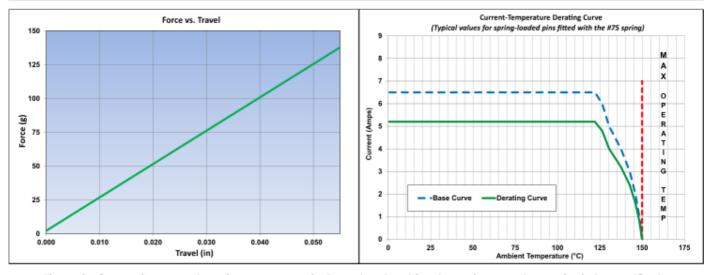
0990-4-50-20-7X-14-11-0

Short stroke, Surface mount, Large base. Also available on 16mm wide X 12mm pitch carrier tape: 850 parts per 13" reel Order as: 0990-4-57-20-7X-14-11-0



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
Max Stroke	0.06

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.