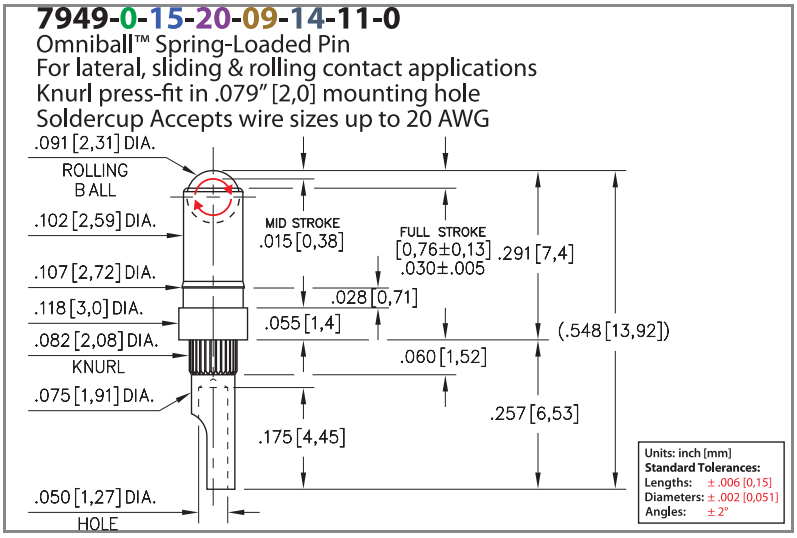
PRODUCT NUMBER: 7949-0-15-20-09-14-11-0



DESCRIPTION

Spring-Loaded Pin with Solder Cup Termination

Durability:

100,000 to 1,000,000 Cycles

Current Rating:

5.5A @ 30°C Temperature Rise

Contact Resistance:

20 mΩ Max

Operating Temperature Range:

-55/+125° C (discontinuous)

Vibration:

No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G

Shock:

No Elect. Discontinuity > 1µs @ 50g

Mounting Feature:

Press-Fit into a Non-Plated Through Hole (NPTH) or Insulator

Wire Termination:

Soldercup up to 20 AWG

Tail Type: Soldercup

Packaging: 15 - Packaged in Bulk

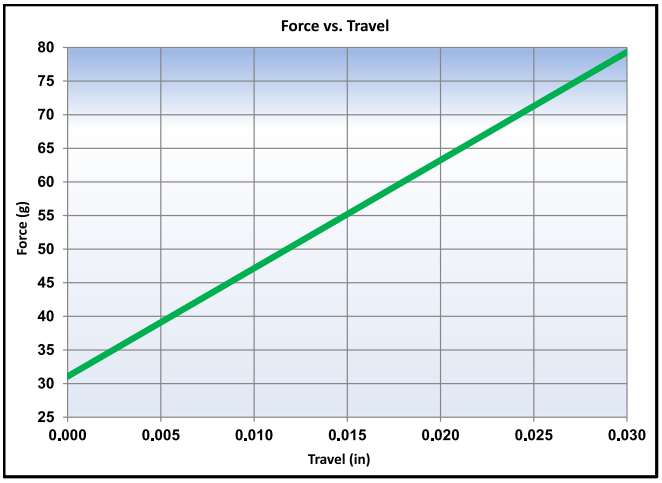
Shell Plating	Spring Plating	ROHS
20 µ" Gold over Nickel	10 µ" Gold over Nickel	RoHS-2 2011/65/EU

SPRING:

#09 SPRING

STANDARD FORCE SPRING: 55 GRAMS FORCE @ MID STROKE; .030" FULL STROKE

Spring Material : Beryllium Copper Alloy 172
Mid. Stroke : .015" [0,38]
Full Stroke Capability : .030"± .005" [0,76 ± 0,127]
Force @ Mid. Stroke : 55 g ± 10 g
Initial Force (Pre-Load) : 30 g



Stroke & force 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**	55
Max Stroke	0.03		

CONTACT MATERIAL:

BERYLLIUM COPPER ALLOY 172 (UNS C17200) per ASTM B 194

Properties of BERYLLIUM COPPER:

- Chemical composition: Cu 98.1%, Be 1.9%
- Hardness: 36-43 Rockwell C
- Density: .298 lbs/in3
- Electrical Conductivity: 22% IACS*
- Resistance: 10 mΩ Max
- Operating Temperature: -55°C/+125°C
- Melting point: 980°C/865°C (liquidus/solidus)
- Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C; 70% of stress remains after 1,000 hours @ 200 °C

*International Annealed Copper Standard, i.e. as a % of pure copper.

†Since BeCu loses its spring properties over time at high temperatures; it is rated for continuous use up to 150°C. For applications up to 300°C, Mill-Max offers other materials. Contact Tech Support for more info.

ADDITIONAL NOTES & 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. 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.

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