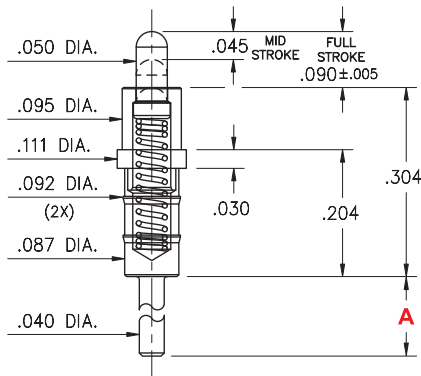


PRODUCT NUMBER: 0852-0-15-20-83-14-11-0

0852-X-XX-20-83-14-11-0

Power spring pin, Solder mount in .045 min. mounting hole

Click on image carousel below for additional details



Basic Part Number	Length (A)
* 0852-0	.060
0852-1	.160

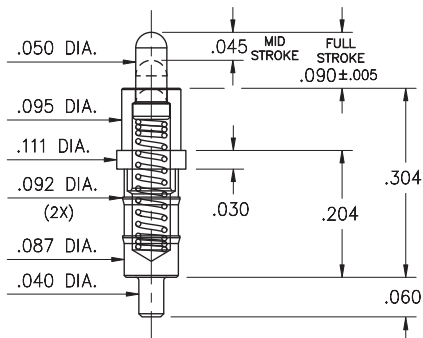
* Available packaged on Tape & Reel

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

0852-0-15-20-83-14-11-0

Power spring pin, Solder mount in .045 min. mounting hole
44mm wide X 12mm pitch carrier tape: 425 parts per 13" reel

Order as: 0852-0-57-20-83-14-11-0

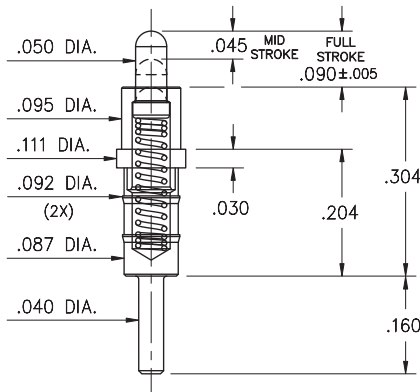


Standard Tolerances:	
Lengths:	± .006
Diameters:	± .002
Angles:	± 2°

0852-1-15-20-83-14-11-0

Power spring pin

Solder mount in .045 min. mounting hole



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

DESCRIPTION

Spring-Loaded Power Pin (9A current rating)

Durability:

100,000 to 1,000,000 Cycles @ Mid-Stroke

Current Rating:

9A @ 10°C Temperature Rise

Contact Resistance:

20 mΩ Max

Operating Temperature Range:

-55/+125° C

Vibration:

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

Shock:

No Elect. Discontinuity > 1μs @ 50g

Mounting Feature:

Through-Hole Solder Mount

Tail Type: Solder tail

Mounting Hole: .043" (1,092mm)

Tail Diameter: .040" (1,016mm)

Packaging: 15 - Packaged in Bulk

Shell Plating	Spring Plating	ROHS
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20 μ" Gold over Nickel

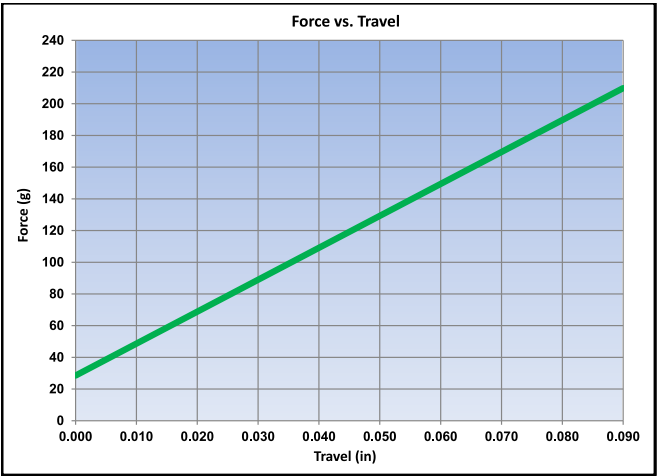
10 μ" Gold over Nickel



SPRING:

#83 SPRING
HIGH FORCE SPRING: 120 GRAMS FORCE
@ MID STROKE; .090" FULL STROKE

Spring Material : Stainless Steel 302
Mid. Stroke : .045" [1,14]
Full Stroke Capability : .090"± .005" [2,29 ± 0,127]
Force @ Mid. Stroke : 120 g ± 20 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	Stainless Steel	Grams Force	120
Max Stroke	0.09		

CONTACT MATERIAL:

Stainless Steel 302/304 per ASTM A313

This is an austenitic stainless steel round wire especially for the manufacturing of springs. It is a grade that is age hardenable with superior corrosion resistance.

PHYSICAL PROPERTIES

- Density: 0.29 lb/in³ (8.03 g/cm³)
- Tensile Strength: 325 – 355 ksi

CHEMICAL PROPERTIES (%)

- Carbon: .08 max
- Manganese: 2.00 max.
- Phosphorus: .045 max.
- Sulfur: .030 max.
- Silicon: 1.00 max.
- Chromium: 18.0 – 20.0
- Nickel: 8.0 – 10.5

STANDARD TOLERANCES ON PCB TERMINAL PINS & RECEPTACLES

Diameters +/- .002"
Lengths +/- .005"
Angles +/- 2°

STANDARD TOLERANCES ON SPRING-LOADED PINS

Diameters +/- .002"
Lengths +/- .006"
Angles +/- 2°

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. 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.

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