

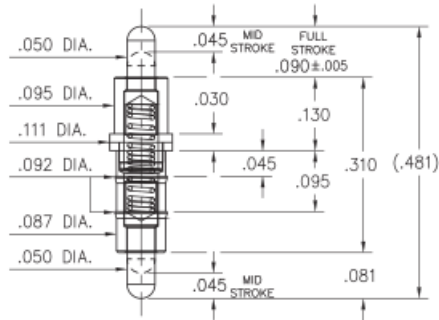


PRODUCT NUMBER: 0880-1-15-20-82-14-11-0

www.mill-max.com
DATA SHEET

0880-1-15-20-82-14-11-0

Power spring pin, Double action, .090 Max. combined stroke
Mount between parallel circuit boards



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



General Information	
Product Family:	Discrete Spring Loaded Pins
1 Description:	Double Action Spring-Loaded Pin
Country of Origin:	USA
2 Product Lifecycle:	Active

Additional Parts, Packaging & Assembly	
Tail Type:	No Tail
Tail:	None
Wire Termination:	N/A
3 Operating Temperature Range:	-55/+125° C

0880-1-15-20-82-14-11-0 - SPECIFICATIONS

Product Attributes	
Plunger Type:	Round
Plunger Diameter:	.050" (1,270mm)
Stroke:	.090" (2,286mm)
Rated Travel (Mid-Stroke):	.045" (1,143mm)
Spring Force (Initial):	25gf
Spring Force (Mid-Stroke):	120gf
Head Type:	N/A
Target Face Type:	N/A
Hole Type:	N/A
Mounting Feature:	Press-Fit into a Non-Plated Through Hole (NPTH) or Insulator
4 Shell Material:	Brass Alloy
5 Shell Plating:	20 Body/Plunger Plating - 20 μ" Gold over Nickel
Contact Number:	82 - 12 Amp High Force Stainless Steel (Click For Graphs)
6 Contact Plate:	14 Spring Plating - 10 μ" Gold over Nickel

Key Dimensions	
Barb/Knurl Diameter:	.092" (2,337mm)
Body Diameter:	.095" (2,413mm)
Body Length:	.100" (2,540mm)
Body Tail Length:	1" (25,400mm)
Flange Diameter:	.110" (2,794mm)
Flange Length:	.030" (0,762mm)
Head Diameter:	N/A
Hole Depth:	N/A
Initial Height:	.481" (12,217mm)
Overall Length:	.481" (12,217mm)
Tail Diameter:	No Tail
Tail Length:	N/A

Electrical Specifications

Maximum Current:	12A @ 30° C Temp. Rise
7 Maximum Derated Current:	9.60A
Contact Resistance:	20.00mΩ Max

Mechanical Specifications

Mechanical life (Durability):	100,000 to 1,000,000 Cycles @ Mid-Stroke
8 Shock:	No Elect. Discontinuity > 1μs @ 50g
9 Vibration:	No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G

Mounting Specifications

Mounting Hole:	.091" (2,311mm)
Mounting Hole Type:	Non-Plated Through Hole (NPTH)
Alternate Mounting:	N/A
Alternate Mounting Hole:	N/A
SMT Pad Size:	N/A

Environmental & Export Classifications

Cage Code:	3N087
ECCN:	Contact Factory
HTSUS:	8536.90.4000
Moisture Sensitivity Level (MSL):	1 (Unlimited)
Prop 65:	N
REACH Status:	REACH Unaffected
Shelf Life:	300
Special Handling Code:	UNDF
Static Sensitive:	N

Packaging Information

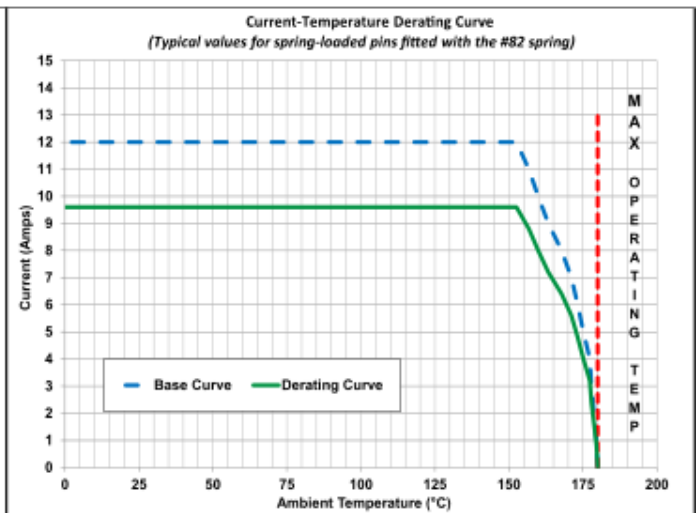
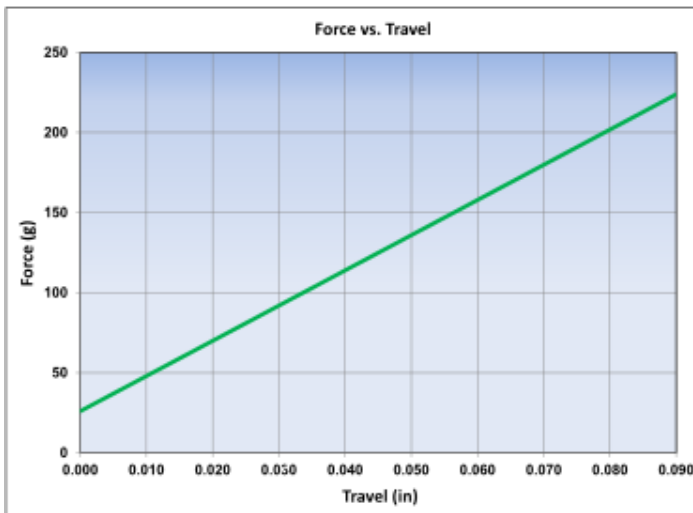
Packaging:	15 - Packaged in Bulk
Packaging Options:	Packaged in Bulk
Reel Size:	N/A

NOTES:

1. Standard Tolerances:
 Lengths +/- .006" (0,15)
 Diameters: +/- .002" (0,051)
 Angles: +/- 2°
2. Part is Active and in Production, No Scheduled Obsolescence
3. Storage per IEC 60512-11-(4,9,10,12) and peak operating temperature per IEC 60512-5-2, Test 5b
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. 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. Per IEC 60512-5-2; Current Carrying Capacity; Current Derating
8. Per IEC 60512-6-3: Test 6c: Shock
9. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

SPRING:

#82 SPRING HIGH FORCE SPRING	Full Stroke Capability : .090"± .005" [2,29 ± 0,127]
Spring Material : Stainless Steel 302	Force @ Mid. Stroke : 120 g ± 20 g
Mid. Stroke : .045" [1,14]	Initial Force (Pre-Load) : 25 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	Stainless Steel	Grams Force	120g
Max Stroke	.090" (2,286mm)	Maximum Current	12A @ 30° C Temp. Rise
Maximum Operating Temp @ Max Current	150.00° C	20% De-rated Maximum Current	9.60A
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 Detail: [0880-1-15-20-82-14-11-0 - Double Action Spring-Loaded Pin](#)
- Engineering Notebook: [Introduction to Spring-Loaded Pogo Pins & Connectors](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>