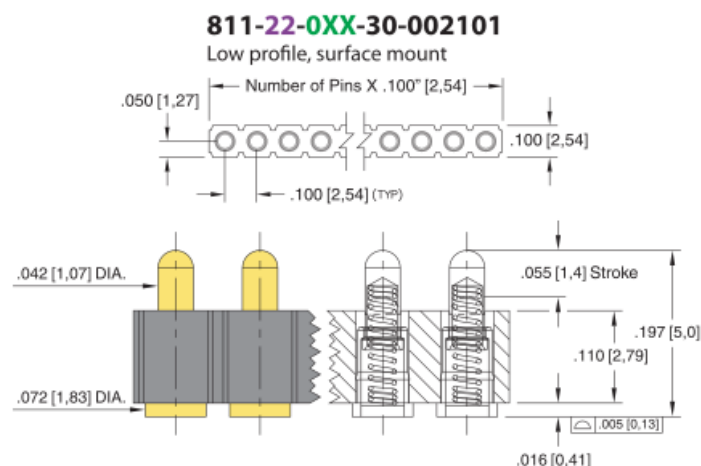




PRODUCT NUMBER:  
811-22-012-30-002101

WWW.MILL-MAX.COM  
DATA SHEET



## General Info

PCB Mount Spring-	
Description <sup>1</sup> :	Loaded Header
	Vertical Surface
	Mount
Plunger	
Type:	Round
Type:	Spring-Loaded
Category:	Pogo Pin Header Strip
Mounting	
Style:	Surface Mount
# Pins:	12
Packaging <sup>2</sup> :	Packaged in Box or Tube
Rows:	Single Row
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Product	
Lifecycle:	Active
Country Of	
Origin:	USA

## 811-22-012-30-002101- SPECIFICATIONS

### Environmental Specs

Temperature	
Range <sup>3</sup> :	-55/+125° C
Shock <sup>4</sup> :	No Elect. Discontinuity >
	1μs @ 50g

### Materials

Loose Pin/Receptacle #	0900 (Brass Alloy)
(Material):	20μ" Gold over Nickel
Shell Plating:	

Environmental Specs

Vibration<sup>5</sup>: No Elect. Discontinuity > 1µs @ 10-2000HZ, 15 G

RoHS<sup>6</sup>: Yes

Moisture Sensitivity Level 1 (Unlimited) (MSL):

REACH Status: REACH Unaffected

Mechanical Specs

Mechanical life 100,000 to 1,000,000 (Durability): Cycles @ Mid-Stroke

Materials

Inner Spring #: 75

Inner Spring Material: Beryllium Copper (Spring) 10µ"

Inner Spring Plating: Gold

Insulator Material: Nylon 4/6

Technical Specs

Initial Height: .197" (5,004mm)

Stroke: .055" (1,397mm)

Pitch: .100" (2,540mm)

SMT Pad Size: .082" (2,083mm)

Electrical Specs

Rated Voltage: 100 VRMS/150 VDC

Insulation Resistance: 10,000 MΩ min.

Dielectric Withstanding Voltage: 1,000 VRMS min.

NOTES:

1. Standard Tolerances

Assembly tolerance: +/- .010" (.25mm)

Connector Length "L"

Connector Length "L"	Tolerance
$L \leq 2"$ ( $L \leq 50.8\text{ mm}$ )	+/- .005" (+/- .127 mm)
$2 < L \leq 3"$ ( $50.8 < L \leq 76.2\text{ mm}$ )	+ .007 / - .006" (+ .178 / - .152 mm)
$3 < L \leq 4"$ ( $76.2 < L \leq 101.6\text{ mm}$ )	+ .009 / - .007" (+ .229 / - .178 mm)
$4 < L \leq 5"$ ( $101.6 < L \leq 127\text{ mm}$ )	+ .011 / - .008" (+ .279 / - .203 mm)
$5 < L \leq 6.4"$ ( $127 < L \leq 162.56\text{ mm}$ )	+ .013 / - .009" (+ .330 / - .229 mm)

Insulator width: +/- .005 (.13mm)

Insulator height: +/- .005 (.13mm)

Co-planarity of SMT connectors: .005" (.13mm) up to 1" (25.4mm) in

connector length

Insulator Flatness: .005" (.13mm) up to 1" (25.4mm) in connector length

Pin Length: +/- .006 (.15mm)

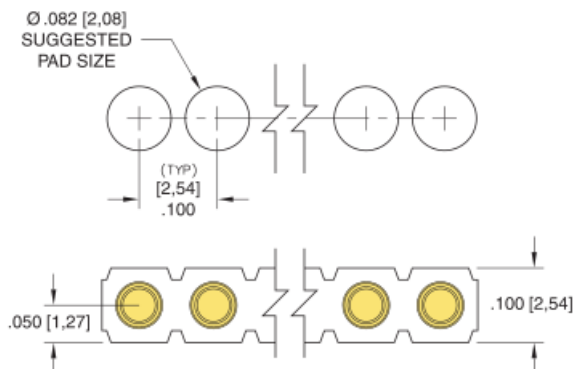
Pin Diameter: +/- .002 (.051mm)

Pin Angle: +/- 2°

2. Not all part numbers in the series may be packaged in tubes. Some specific part numbers may be packaged in a box.
3. Per IEC 60512-11-(4,-9,-10,-12)
4. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock
5. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
6. 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).

## ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

### Suggested P.C.B. Footprint



## 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

- Engineering Notebook: [Introduction to Spring Loaded Pogo Pins & Connectors](#)

- Environmental Compliance: <https://www.mill-max.com/rohs>