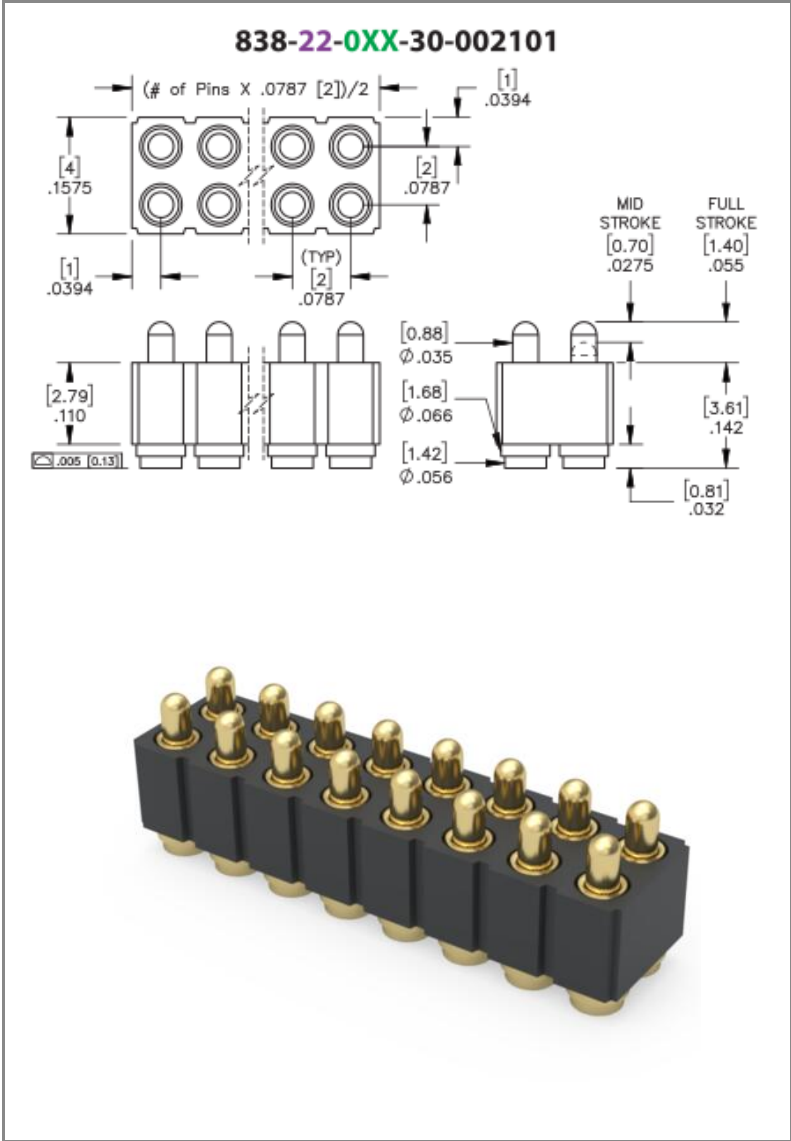




PRODUCT NUMBER: 838-22-016-30-002101

www.mill-max.com
DATA SHEET



General Info

Description¹: PCB Mount Spring-Loaded Header
Vertical Surface Mount

Plunger Type: Round

Type: Spring-Loaded

Category: Pogo Pin Header Strip

Mounting Style: Surface Mount

Pins: 16

Packaging²: Packaged in Box or Tube

Rows: Double Row

ECCN: Contact Factory

HTSUS: 8536.90.4040

Product Lifecycle: Active

Country Of Origin: USA

838-22-016-30-002101- SPECIFICATIONS

Environmental Specs	
Temperature Range ³ :	-55/+125° C
Shock ⁴ :	No Elect. Discontinuity > 1µs @ 50g
Vibration ⁵ :	No Elect. Discontinuity > 1µs @ 10-2000HZ, 15 G
RoHS ⁶ :	Yes
Moisture Sensitivity Level (MSL):	1 (Unlimited)
REACH Status:	REACH Unaffected

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

Materials	
Loose Pin/Receptacle #(Material):	0961 (Brass Alloy)
Shell Plating:	20µ" Gold over Nickel
Inner Spring #:	71
Inner Spring Material:	Beryllium Copper
Inner Spring Plating:	(Spring) 10µ" Gold
Insulator Material:	Nylon 4/6

Technical Specs	
Initial Height:	.197" (5,004mm)
Stroke:	.055" (1,397mm)
Pitch:	.079" (2,007mm)

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 ≤ 2" (L ≤ 50.8 mm)	+/- .005" (+/- .127 mm)
2 < L ≤ 3" (50.8 < L ≤ 76.2 mm)	+ .007 / - .006" (+ .178 / - .152 mm)
3 < L ≤ 4" (76.2 < L ≤ 101.6 mm)	+ .009 / - .007" (+ .229 / - .178 mm)
4 < L ≤ 5" (101.6 < L ≤ 127 mm)	+ .011 / - .008" (+ .279 / - .203 mm)
5 < L ≤ 6.4" (127 < L ≤ 162.56 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)

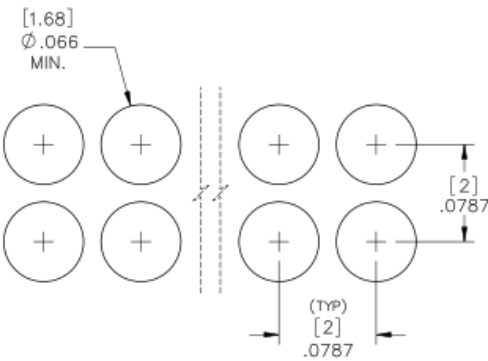
Pin Diameter: +/- .002 (.051mm)

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>