



872-10-0XX-10-012000

Technical drawing of the component 872-10-0XX-10-012000, showing top, side, and detail views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall Length: 6.10" (154.94 mm)
- Overall Width: 2.40" (61.0 mm)
- Distance from Left Edge to First Hole Center: 2.54" (64.5 mm)
- Distance between First and Second Hole Centers: 3.56" (90.5 mm)
- Distance between Second and Third Hole Centers: 4.06" (103.0 mm)
- Distance between Third and Fourth Hole Centers: 4.06" (103.0 mm)
- Distance between Fourth and Fifth Hole Centers: 2.54" (64.5 mm)
- Distance from Right Edge to Fifth Hole Center: 2.54" (64.5 mm)
- Hole Diameter: 0.091" (2.30 mm)
- Distance from Left Edge to First Hole Center (Alternative): 2.30" (58.4 mm)
- Distance from Right Edge to Fifth Hole Center (Alternative): 2.30" (58.4 mm)

Side View Dimensions:

- Overall Height: 1.78" (45.2 mm)
- Distance from Top Edge to First Step: 0.070" (1.78 mm)
- Distance from Top Edge to Second Step: 1.96" (49.8 mm)
- Distance from Top Edge to Third Step: 5.08" (128.6 mm)
- Distance from Top Edge to Bottom Edge: 3.30" (83.8 mm)
- Distance from Bottom Edge to First Step: 0.130" (3.30 mm)
- Distance from Bottom Edge to Second Step: 0.070" (1.78 mm)
- Distance from Bottom Edge to Third Step: 0.070" (1.78 mm)
- Distance from Bottom Edge to Bottom Edge: 0.070" (1.78 mm)

Detail View Dimensions:

- Overall Height: 5.08" (128.6 mm)
- Distance from Top Edge to First Step: 1.96" (49.8 mm)
- Distance from Top Edge to Second Step: 3.18" (80.8 mm)
- Distance from Top Edge to Bottom Edge: 3.18" (80.8 mm)
- Distance from Bottom Edge to First Step: 0.51" (12.9 mm)
- Distance from Bottom Edge to Second Step: 0.020" (0.51 mm)
- Distance from Bottom Edge to Bottom Edge: 0.020" (0.51 mm)

Notes:

- (N) MAGNET
- (S) MAGNET
- (2x)
- (TYP)
- Ø .091 THRU

General Info	
Description ¹ :	PCB Mount Target Pad Header Magnetic Vertical Mount Through-Hole; Flat Face
Type:	Mating Target
Category:	Maxnetic® Pad Connector
Mounting Style:	Through-Hole Solder Mount; Mounting Tabs
Tail Type:	Solder Tail
# Pins:	10
Packaging ² :	Packaged in Box or Tube
Rows:	Single Row
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Product Lifecycle:	Active
Country Of Origin:	USA

872-10-010-10-012000- SPECIFICATIONS

Environmental Specs	
Temperature Range:	-55/+80° C
RoHS ³ :	Yes
Moisture Sensitivity Level (MSL):	1 (Unlimited)
REACH Status:	REACH Unaffected

Materials	
Loose Pin/Receptacle # (Material):	1972 (Brass Alloy)
Shell Plating:	10 μ" Gold over 100 μ" Nickel
Inner Plating:	
Insulator Material:	PPS

Technical Specs	
Pitch:	.100" (2,540mm)
Tail Diameter:	.040" (1,016mm)

Electrical Specs	
Rated Voltage:	100 VRMS/150 VDC
Insulation Resistance:	10,000 MΩ min.
Dielectric Withstanding Voltage:	1,000 VRMS min.

NOTES:

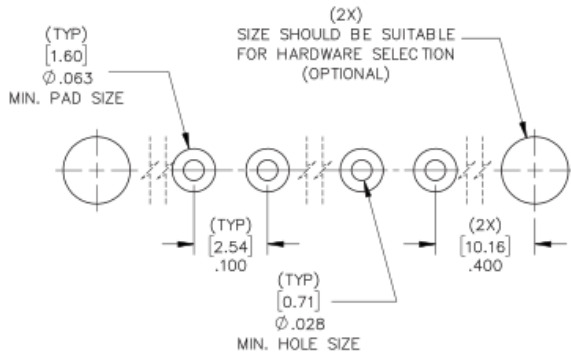
1. Standard Tolerances
Assembly tolerance: +/- .010" (.25mm)
Connector Length "L"

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

- [Change Notice - PRODUCT CHANGE NOTICE \(878-20-00X-00-011000\)](#)
- Engineering Notebook: [Introduction to Spring Loaded Pogo Pins & Connectors](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>