



872-10-0XX-00-012000

Technical drawing of a probe tip assembly, showing three views: Top View, Side View, and Cross Sectional View.

Top View Dimensions:

- (2x) MAGNET (N)
- [1.40] .055
- (TYP) [2.54] .100
- MAGNET (S)
- [2.30] Ø .091 THRU
- [2.79] .110
- [5.08] .200
- (2x) [2.54] .100
- (2x) [3.56] .140
- (2x) [4.06] .160
- (2x) [5.10] .240
- [1.78] .070

Side View Dimensions:

- [3.30] .130

Cross Sectional View Dimensions:

- [1.96]
- Ø .077
- [5.08] .200
- [1.37]
- Ø .054
- [0.97]
- Ø .038 HOLE
- [4.57] .180
- [5.08] .200

The drawing includes a 3D perspective view of the probe tip assembly at the bottom, showing a black rectangular body with a row of gold-colored pins and two circular magnets on the top surface.

General Info	
Description ¹ :	Wire Termination Target Pad Header Magnetic Vertical Mount Soldercup; Flat Face
Target Face Type:	Flat Face
Type:	Mating Target
Category:	Maxnetic® Pad Connector
Mounting Style:	Wire Termination - Soldercup; Mounting Tabs
Tail Type:	Soldercup 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

872-10-010-00-012000- 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):	1974 (Brass Alloy)
Shell Plating:	10 μ" Gold over 100 μ" Nickel
Inner Plating:	
Insulator Material:	PPS

Technical Specs	
Pitch:	.100" (2,540mm)

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 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>