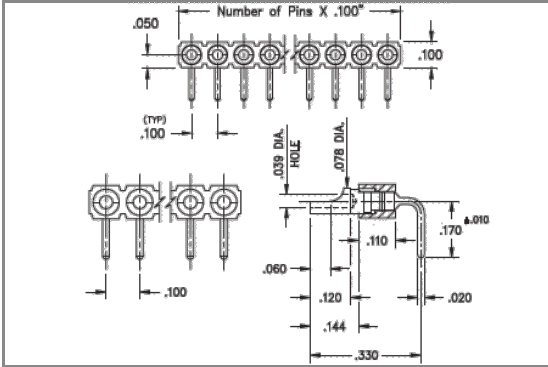




PRODUCT NUMBER: 380-10-103-10-003000

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DATA SHEET



380-10-103-10-003000- SPECIFICATIONS

General Info	
Description¹:	Standard Pin Header Soldercup Header
Type:	Interconnect
Category:	Machined Pin Header
Mounting Style:	Through Hole Solder Mount
# Pins:	3
Pitch:	.100" (2,540mm)
Rows:	Single Row
Product Lifecycle:	Active

Environmental Specs	
Temperature Range²:	-55/+125° C
RoHS³:	Yes

Mechanical Specs	
Mounting Hole:	.024" (0,610mm)

Materials	
Loose Pin/Receptacle # (Material):	3180 (Brass Alloy)
Shell Plating:	10 μ" Gold over 100 μ" Nickel
Inner Plating:	
Insulator Material:	High Temp Thermoplastic

Electrical Specs	
Current Rating⁴:	Application Specific
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
$L \leq 2"$ ($L \leq 50.8$ mm)	+/- .005" (+/- .127 mm)
$2 < L \leq 3"$ ($50.8 < L \leq 76.2$ mm)	+ .007 / - .006" (+ .178 / - .152 mm)
$3 < L \leq 4"$ ($76.2 < L \leq 101.6$ mm)	+ .009 / - .007" (+ .229 / - .178 mm)
$4 < L \leq 5"$ ($101.6 < L \leq 127$ mm)	+ .011 / - .008" (+ .279 / - .203 mm)
$5 < L \leq 6.4"$ ($127 < L \leq 162.56$ 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. Per IEC 60512-11-(4,-9,-10,-12)

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).

4. Current rating is typically a measured function of the female socket/connector. The amount of current a solid, male, brass pin can tolerate is a direct relation of the heat displaced based on current and the ability of neighboring components to handle displaced heat.

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

Application Note: (https://www.mill-max.com/sites/default/files/external/assets/2019-07/pins_receptacles_and_connectors_with_integrated_solder_cups.pdf)

Engineering Notebook: (<https://www.mill-max.com/engineering-notebooks/100-254-mm-pitch-solder-cup-pin-and-socket-interconnects>)

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