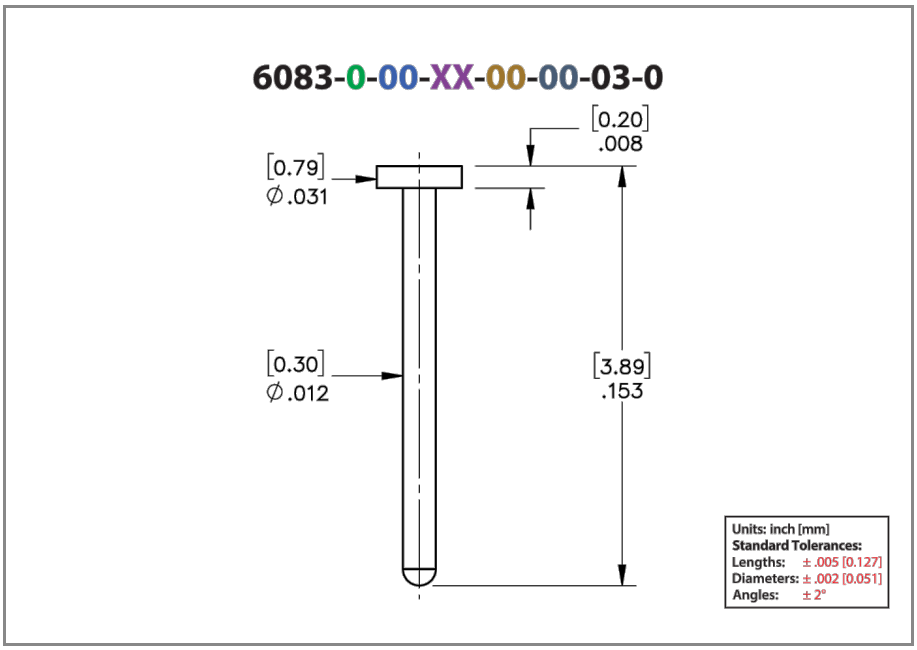
## PRODUCT NUMBER: 6083-0-00-80-00-00-03-0

www.mill-max.com
DATA SHEET






| General Information | |
|---|---|
| 1 **Product Lifecycle:** | Active |
| **Product Family:** | Printed Circuit Board (PCB) Pin |
| 2 **Description:** | Nail Head Pin |
| 3 **Shell Material:** | Brass Alloy |
| 4 **Shell Plating:** | 80 : 200 - 300 µ" Tin (matte finish) over Nickel |
| 5 **Operating Temperature Range:** | - 55/+125° C |
| **Country of Origin:** | USA |
| 6 **ROHS:** | Yes |

| Termination Style | |
|---|---|
| **Tail:** | Single |
| **Tail Type:** | SolderTail |
| **Head Type:** | Flat Face |
| **Hole Type:** | N/A |
| **Wire Termination:** | N/A |

## 6083-0-00-80-00-00-03-0 - SPECIFICATIONS

| Key Dimensions | |
|---|---|
| **Body Diameter:** | .012" (0,305mm) |
| **Body Length:** | .145" (3,683mm) |
| **Flange Diameter:** | .031" (0,787mm) |
| **Flange Length:** | .008" (0,203mm) |
| **Head Diameter:** | .031" (0,787mm) |
| **Overall Length:** | .153" (3,886mm) |
| **Tail Diameter:** | .012" (0,305mm) |
| **Tail Length:** | .145" (3,683mm) |

| Electrical Specifications | | |
|---|---|---|
| 7 | **Maximum Current:** | Application Specific |

| Mounting Specifications | | |
|---|---|---|
| 8 | **Mounting Feature:** | Through-Hole Solder Mount |
| | **Mounting Hole Type:** | Plated Through Hole (PTH) |
| | **Mounting Hole:** | .016" (0,406mm) |
| | **Alternate Mounting:** | N/A |
| | **SMT Pad Size:** | N/A |

| Packaging Information | |
|---|---|
| **Packaging:** | 00 - Packaged in Bulk |
| **Reel Size:** | N/A |

| Environmental & Export Classifications | |
|---|---|
| **REACH Status:** | REACH Unaffected |
| **ECCN:** | Contact Factory |
| **HTSUS:** | 8536.90.4000 |
| **Cage Code:** | 3N087 |
| **Moisture Sensitivity Level (MSL):** | 1 (Unlimited) |
| **Special Handling Code:** | UNDF |
| **Prop 65:** | N |
| **Static Sensitive:** | N |

## NOTES:

1. Part is Active and in Production, No Scheduled Obsolescence
2. Standard Tolerances:
   Lengths +/-.005" (0,13)
   Diameters: +/-.002" (0,051)
   Angles: +/- 2°
3. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
4. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
5. Per IEC 60512-11-(4,-9,-10,-12)
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).
7. Current Rating is typically a measured function of the female socket/connector. The amount of current a solid, male pin can tolerate is a direct relation of the heat displaced based on current and the ability of neighboring components to handle displaced heat.
8. For through-hole solder mounting of this part, the suggestion is to make the finished hole size, at its minimum, .004" larger than the diameter being soldered into the mounting hole.

## 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

- Product Detail: 6083-0-00-80-00-00-03-0 - Nail Head Pin
- Engineering Notebook: **Introduction to Printed Circuit Board PCB Pins**
- Environmental Compliance: https://www.mill-max.com/rohs