# PRODUCT NUMBER: 6835-0-00-80-00-00-44-0

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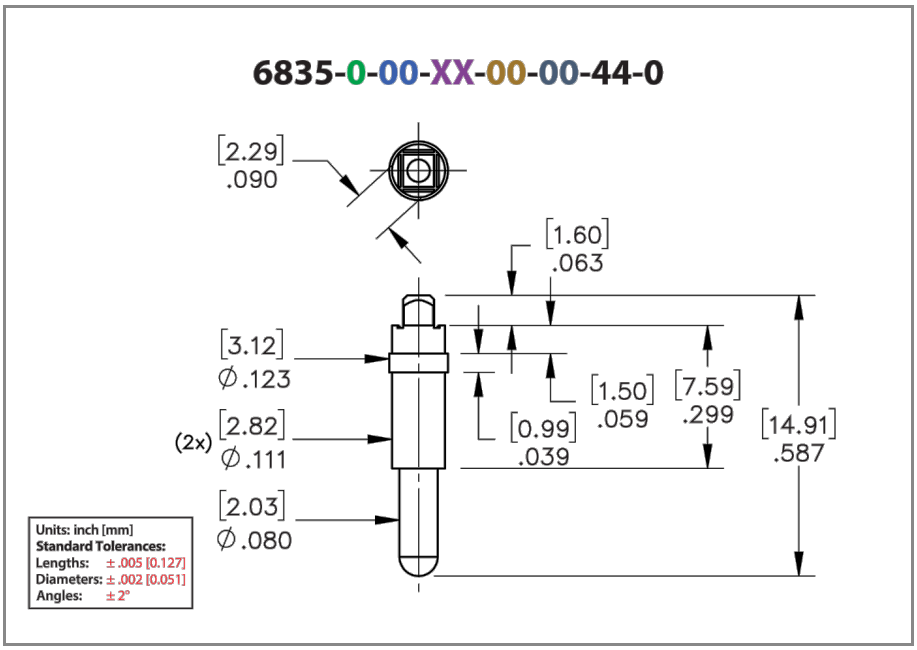
DATA SHEET



| General Information | |
|---|---|
| 1 **Product Lifecycle:** | Active |
| **Product Family:** | Printed Circuit Board (PCB) Pin |
| 2 **Description:** | Press-fit PCB Pin |
| 3 **Shell Material:** | Tellurium Copper |
| 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:** | Press-Fit |
| **Hole Type:** | N/A |
| **Wire Termination:** | N/A |

## 6835-0-00-80-00-00-44-0 - SPECIFICATIONS

| Key Dimensions | |
|---|---|
| Barb/Knurl Diameter: | .090" (2,286mm) |
| Body Diameter: | .111" (2,819mm) |
| Body Length: | .201" (5,105mm) |
| Flange Diameter: | .123" (3,124mm) |
| Flange Length: | .039" (0,991mm) |
| Head Diameter: | .090" (2,286mm) |
| Overall Length: | .587" (14,910mm) |
| Tail Diameter: | .080" (2,032mm) |
| Tail Length: | .225" (5,715mm) |

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

| Mounting Specifications | |
|---|---|
| 8 Mounting Feature: | Press-Fit into a Plated Through Hole (PTH) |
| Mounting Hole Type: | Plated Through Hole (PTH) |
| Mounting Hole: | .087" (2,210mm) |
| 9 Alternate Mounting: | Through-Hole Soldertail Mount |
| Alternate Mounting Hole: | .084" (2,134mm) |
| 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:
   Diameters +/-.002"
   Lengths +/-.005"
   Angles +/- 2
3. Tellurium Copper Alloy 145 per ASTM-B301
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. The suggested mounting hole represents the plated through-hole size. Press-fit pins designed for plated through-holes require the bare board drill size to be .001” (.0254 mm) larger than the diameter of the press-fit feature. This is a general guideline; your application may require different specifications
9. 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: 6835-0-00-80-00-00-44-0 - Press-Fit PCB Pin
- **Application Note - Applications for Pins and Receptacles in Plated Through Holes**
- Engineering Notebook: **Introduction to Printed Circuit Board PCB Pins**
- Environmental Compliance: https://www.mill-max.com/rohs