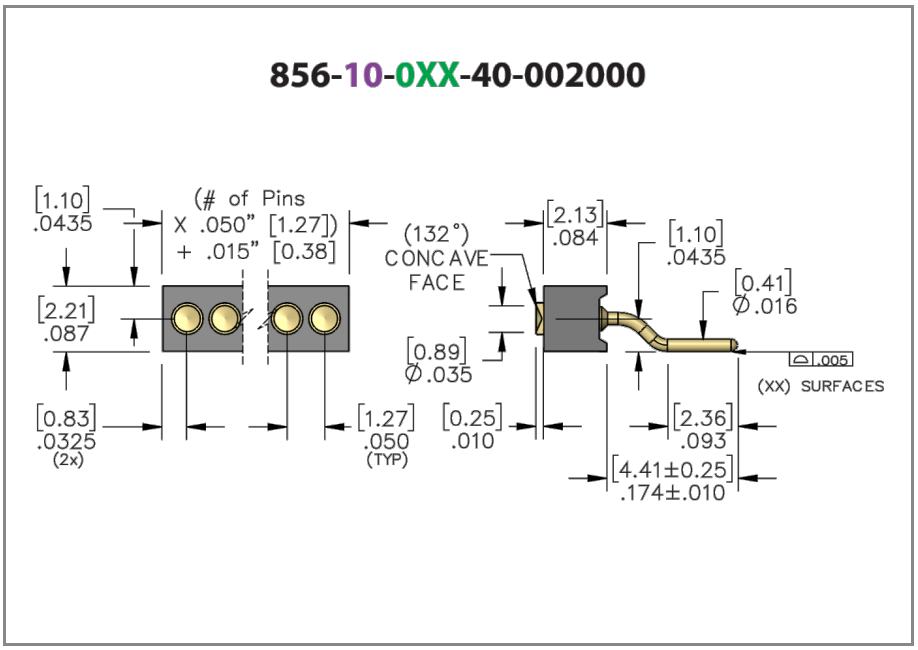
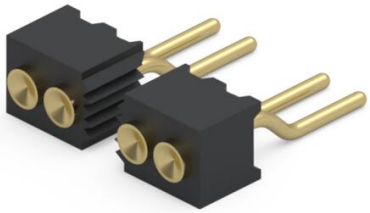
## PRODUCT NUMBER: 856-10-019-40-002000

www.mill-max.com
DATA SHEET



| General Information | | |
|---|---|---|
| 1 | **Product Lifecycle:** | Active |
| | **Product Family:** | Spring-Loaded Connector |
| | **Type:** | Pad Connector with Concave Face |
| 2 | **Description:** | PCB Mount Target Pad Header |
| | **Description2:** | Horizontal Mount Target; Concave Face |
| | **Pitch:** | .050" (1,270mm) |
| | **Number of Pins:** | 19 |
| | **Head Type:** | Concave Face |
| | **Tail Type:** | Z-Bend Tail |
| 3 | **Operating Temperature Range:** | -55/+125° C |
| | **Country of Origin:** | USA |
| 4 | **ROHS:** | Yes |

# 856-10-019-40-002000 - SPECIFICATIONS

| Product Attributes | |
|---|---|
| 5 Plating Code: | 10 - shell: 10 µ" Gold over 100 µ" Nickel |
| Insulator Material: | Nylon 4/6 |
| Rows: | Single Row |
| Frame Type: | N/A |
| Contact Number: | N/A |
| Mounting Tab: | N/A |
| Target Face Type: | Concave Face |

| Key Dimensions | |
|---|---|
| Above Board Height: | .087" (2,210mm) |
| Head Diameter: | .042" (1,067mm) |
| Insulator Height: | .084" (2,134mm) |
| Tail Diameter: | .016" (0,406mm) |
| Tail Length: | .174" (4,420mm) |

| Electrical Specifications | |
|---|---|
| 6 Current Rating: | Application Specific |
| Insulation Resistance: | 10,000 MΩ min. |
| Rated Voltage: | 100 VRMS/150 VDC |
| Dielectric Withstanding Voltage: | 1,000 VRMS min. |

| Mechanical Specifications | |
|---|---|
| 7 Shock: | No Elect. Discontinuity > 1µs @ 50g |
| 8 Vibration: | No Elect. Discontinuity > 1µs @ 10-2000HZ, 15 G |

| Mounting Specifications | |
|---|---|
| Mounting Type: | Surface Mount |
| Mounting Tab: | N/A |
| SMT Pad Size: | Rectangular - 0.110" X 0.030" (2,794mm X 0,762mm) |

| Packaging Information | |
|---|---|
| 9 **Packaging:** | Packaged in Box or Tube |
| **Tape Width:** | N/A |

| Environmental & Export Classifications | |
|---|---|
| **REACH Status:** | REACH Unaffected |
| **ECCN:** | Contact Factory |
| **HTSUS:** | 8536.90.4040 |
| **Cage Code:** | 3N087 |
| **Moisture Sensitivity Level (MSL):** | 1 (Unlimited) |
| **Special Handling Code:** | UNDF |
| **Prop 65:** | N |
| **Static Sensitive:** | N |

## NOTES:

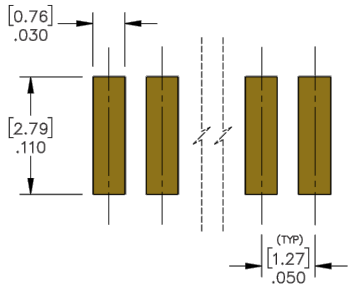
1. Part is Active and in Production, No Scheduled Obsolescence
2. **Standard Tolerances**
   Assembly tolerance: +/-.010" (.25mm)
   Connector Length "L"

| 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°
3. Per IEC 60512-11-(4,-9,-10,-12)
4. 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).
5. **Pin Plating:** 10 µ" Gold over 100 µ" Nickel
6. 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.
7. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock
8. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
9. Not all part numbers in the series may be packaged in tubes. Some specific part numbers may be packaged in a box.

## 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

- Product Detail: 856-10-019-40-002000 - Spring-Loaded Header
- Engineering Notebook: **Introduction to Spring-Loaded Pogo Pins & Connectors**
- Environmental Compliance: https://www.mill-max.com/rohs