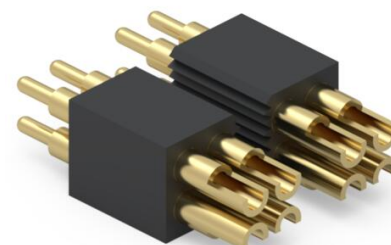
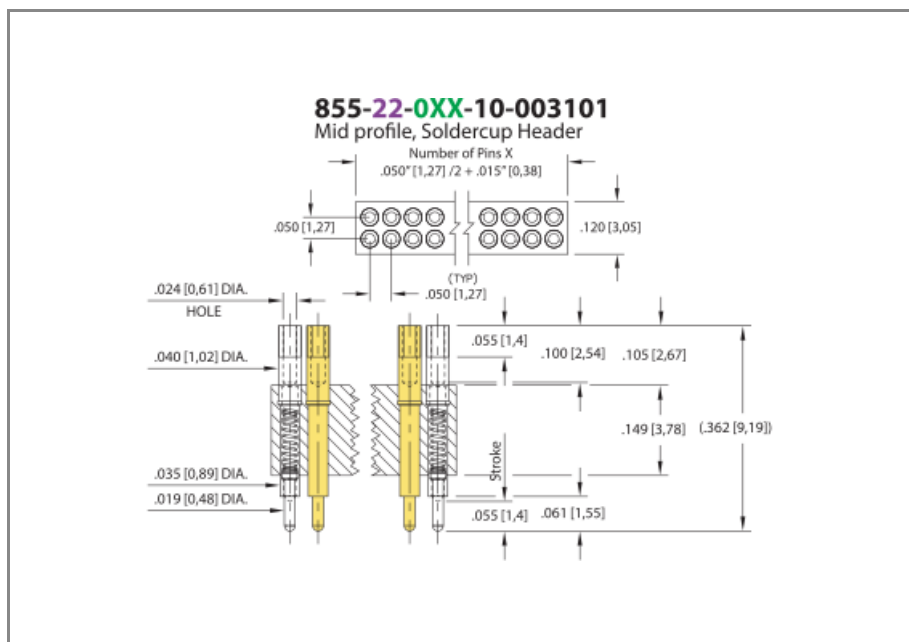




PRODUCT NUMBER: 855-22-020-10-003101

www.mill-max.com
DATA SHEET



| General Information | |
|----------------------|---------------------------------------|
| 1 Product Lifecycle: | Active |
| Product Family: | Spring-Loaded Connector |
| Type: | Pogo Pin Header Strip |
| Category: | Spring-Loaded |
| 2 Description: | Wire Termination Spring-Loaded Header |
| Description2: | Vertical Mount Soldercup Tail |
| Mounting Type: | Wire Termination - Soldercup |
| Rows: | Double Row |
| Number of Pins: | 20 |
| Country of Origin: | USA |
| 3 ROHS: | Yes |

855-22-020-10-003101 - SPECIFICATIONS

| Product Attributes | |
|--------------------------------|--|
| Plunger Type: | Round |
| Stroke: | .055" (1,397mm) |
| Mid Stroke: | 0.0275 |
| Frame Type: | N/A |
| Head Type: | Plunger |
| Plating Code: | 22 - Body/Plunger Plating: 20 μ " Gold - Spring Plating: 10 μ " Gold |
| 4 Contact Number: | 71 - Standard Force Beryllium Copper (Click For Graphs) |
| Insulator Material: | Nylon 4/6 |
| Pitch: | .050" (1,270mm) |
| 5 Operating Temperature Range: | -55/+125° C |

| Key Dimensions | |
|-------------------|-----------------|
| Head Diameter: | .019" (0,483mm) |
| Initial Height: | .362" (9,195mm) |
| Insulator Height: | .149" (3,785mm) |

| Electrical Specifications | |
|----------------------------------|------------------------|
| Contact Resistance: | 30.00m Ω Max |
| Insulation Resistance: | 10,000 M Ω min. |
| Rated Voltage: | 100 VRMS/150 VDC |
| Dielectric Withstanding Voltage: | 1,000 VRMS min. |

| Mechanical Specifications | |
|-------------------------------|---|
| Mechanical life (Durability): | 100,000 Cycles @ Mid-Stroke |
| 6 Shock: | No Elect. Discontinuity > 1 μ s @ 50g |
| 7 Vibration: | No Elect. Discontinuity > 1 μ s @ 10-2000HZ, 15 G |

| Mounting Specifications | |
|-------------------------|------------------------------|
| Mounting Hole Type: | Wire Termination - Soldercup |

Environmental & Export Classifications

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

Packaging Information

| | |
|--------------|-------------------------|
| 8 Packaging: | Packaged in Box or Tube |
| Tape Width: | N/A |

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 |
|---|---------------------------------------|
| $L \leq 2"$ ($L \leq 50.8$ 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: +/- .006 (.15mm)

Pin Diameter: +/- .002 (.051mm)

Pin Angle: +/- 2°

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 ratings are based on the pin tested in free air; the performance may be moderated when used in a connector.
5. Per IEC 60512-11-(4,-9,-10,-12)
6. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock
7. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
8. Not all part numbers in the series may be packaged in tubes. Some specific part numbers may be packaged in a box.

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: [855-22-020-10-003101 - Spring-Loaded Header](#)
- [Application Note - Pins Receptacles & Connectors with Solder Cups](#)
- Engineering Notebook: [Introduction to Spring-Loaded Pogo Pins & Connectors](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>