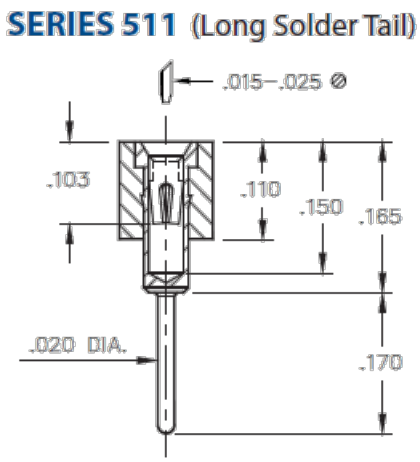
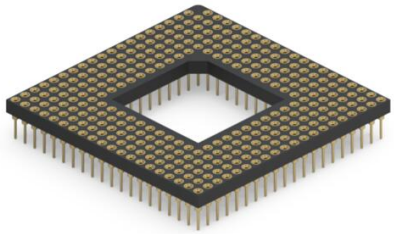
# PRODUCT NUMBER: 511-13-299-20-096003

www.mill-max.com
DATA SHEET



| General Information | | |
|---|---|---|
| 1 | **Product Lifecycle:** | Active |
| | **Product Family:** | IC Socket |
| | **Type:** | Machined Pin Socket |
| 2 | **Description:** | Long Solder Tail PGA Socket |
| | **Pitch:** | .100" (2,540mm) |
| | **Number of Pins:** | 299 |
| | **Head Type:** | N/A |
| | **Tail Type:** | Solder Tail |
| 3 | **Operating Temperature Range:** | -55/+125° C |
| | **Country of Origin:** | USA |
| 4 | **ROHS:** | Yes |

# 511-13-299-20-096003 - SPECIFICATIONS

| Product Attributes | |
|---|---|
| 5 Plating Code: | 13 - shell: 10 µ" Gold over 100 µ" Nickel - inner contact: 30 µ" Gold over 50 µ" Nickel |
| Insulator Material: | High Temp Thermoplastic |
| Rows: | N/A |
| Frame Type: | N/A |
| 6 Contact Number: | 43 - Ultra Lite Force 6 Finger Contact |
| Mounting Tab: | N/A |
| Grid Layout: | 20 X 20 |

| Key Dimensions | |
|---|---|
| Accepting Lead Range: | .015"-.026" (0,381-0,660mm) |
| Above Board Height: | .165" (4,191mm) |
| Insulator Height: | .110" (2,794mm) |
| Tail Diameter: | .020" (0,508mm) |
| Tail Length: | .170" (4,318mm) |

| Electrical Specifications | |
|---|---|
| 7 Current Rating: | 3 Amps |
| Contact Resistance: | 10.00mΩ Max |
| Insulation Resistance: | 10,000 MΩ min. |
| Rated Voltage: | 100 VRMS/150 VDC |
| Dielectric Withstanding Voltage: | 1,000 VRMS min. |

| Mechanical Specifications | |
|---|---|
| Mechanical life (Durability): | 100 Cycles Minimum |
| 8 Shock: | No Elect. Discontinuity > 1µs @ 50g |
| 9 Vibration: | No Elect. Discontinuity > 1µs @ 10-2000HZ, 15 G |

| Mounting Specifications | |
|---|---|
| **Mounting Type:** | Through Hole Solder Mount |
| **Mounting Hole:** | .028" (0,711mm) |
| **Mounting Tab:** | N/A |
| **SMT Pad Size:** | N/A |

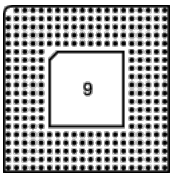
| Packaging Information | |
|---|---|
| 10 **Packaging:** | Packaged in Box or Tube |
| **Tape Width:** | N/A |

| 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)
   Insulator length: +/-.005 (.13mm)
   Insulator width: +/-.005 (.13mm)
   Insulator height: +/-.005 (.13mm)
   Pin Length: +/-.005 (.13mm)
   Pin Diameter: +/-.002 (.051mm)
   Pin Angle: +/-2°
   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
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. **Shell Plating:** 10 µ" Gold over 100 µ" Nickel
   **Contact/Clip Plating:** 30 µ" Gold over 50 µ" Nickel
6. Click the Link for Insertion/Extraction Force & Current/Temperature Derating Graphs
7. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)
8. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock
9. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
10. 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




299-20-096

## 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: 511-13-299-20-096003 - Long Solder Tail
- Environmental Compliance: https://www.mill-max.com/rohs