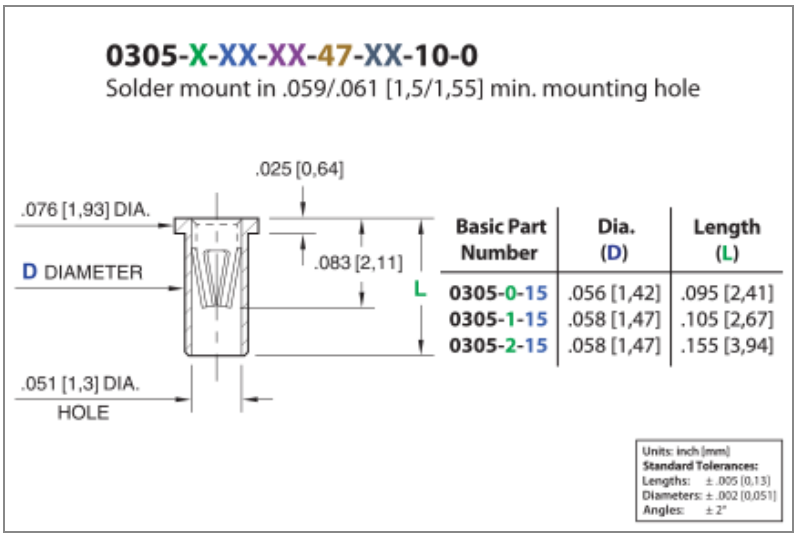
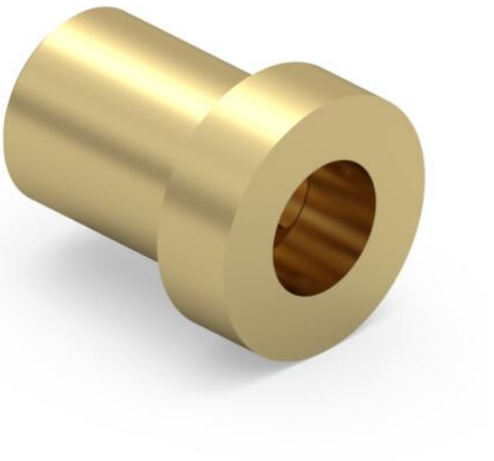
## PRODUCT NUMBER: 0305-0-57-15-47-27-10-0

www.mill-max.com
DATA SHEET



## 0305-0-57-15-47-27-10-0 SPECIFICATIONS

| General Info | |
|---|---|
| **Description[1]:** | Receptacle With No Tail |
| **Mounting Feature[2]:** | Solder Mount |
| **Mounting Hole:** | .059" (1,499mm) |
| **Pin Diameter Range:** | .025"-.037" (0,635-0,940mm) |
| **Packaging:** | Vertically on Tape & Reel |
| **RoHS[3]:** | Yes |
| **Product Lifecycle[4]:** | Active |
| **Country Of Origin:** | USA |

| Materials | |
|---|---|
| **Shell Material [5]:** | Brass Alloy |
| **Shell Plating[6]:** | 10 µ" Gold over Nickel |
| **Contact Plating[7]:** | 30 µ" Gold over Nickel |

| Technical Specs | |
|---|---|
| **Mechanical life (Durability)[8]:** | 1,000 Cycles Minimum |
| **Operating Temperature Range[9]:** | -55/+125° C |
| **Maximum Current:** | 15A @ 30° C Temp. Rise |
| **Maximum Derated Current:** | 12A |
| **Contact Resistance:** | 10 mΩ Max |
| **Shock[10]:** | No Elect. Discontinuity > 1µs @ 50g |
| **Vibration[11]:** | No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G |


(c)2025 Mill-Max Mfg Corp. | 516-922-6000
190 Pine Hollow Road, Oyster Bay, NY 11771

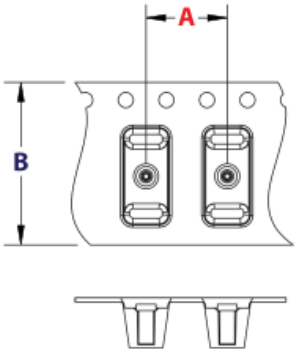

Downloaded from Arrow.com.

## NOTES:

1. Standard Tolerances:
   Lengths +/-.005" (0,13)
   Diameters: +/-.002" (0,051)
   Angles: +/- 2°
2. 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.
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. Part is Active and in Production, No Scheduled Obsolescence
5. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
6. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}); NICKEL per ASTM B 689, Type 2 (Bright),
7. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), NICKEL per ASTM B 689, Type 2 (Bright)
8. Receptacles are capable of 1,000 Minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a receptacle contact.
9. Per IEC 60512-11-(4,-9,-10,-12)
10. Per IEC 60512-6-3: Test 6c: Shock
11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

## ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

**0305-X-57 Tape & Reel Details**

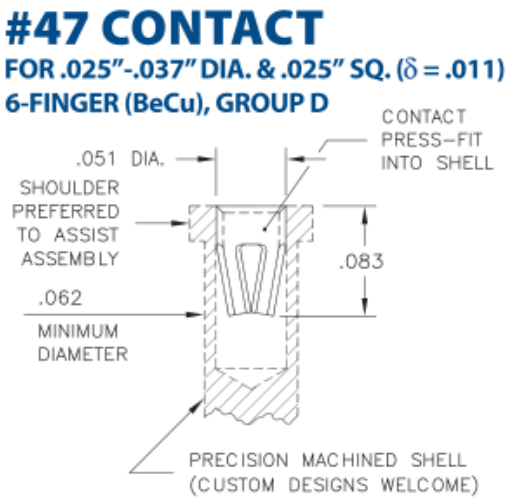


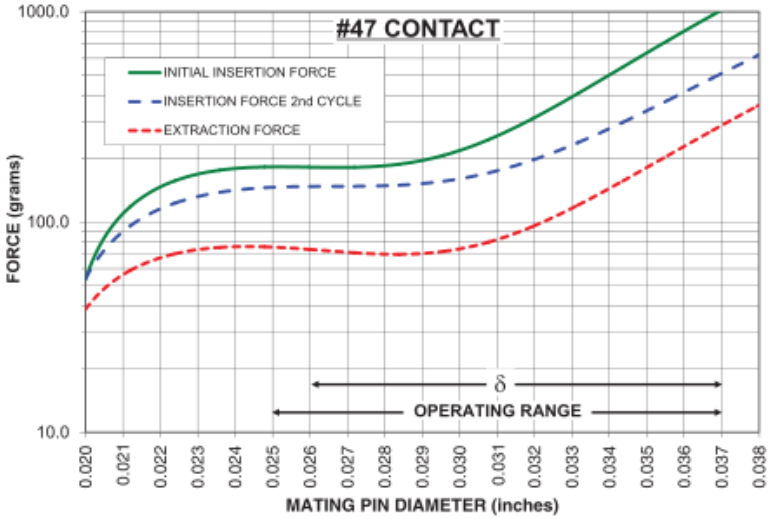

| Basic Part Number | Tape Pitch (A) | Tape Width (B) |
|---|---|---|
| 0305-0-57 | .1575 [4] | .315 [8] |
| 0305-1-57 | .315 [8] | .630 [16] |
| 0305-2-57 | .315 [8] | .630 [16] |

## CONTACT:


(c)2025 Mill-Max Mfg Corp. | 516-922-6000
190 Pine Hollow Road, Oyster Bay, NY 11771


Downloaded from Arrow.com.




**The insertion / extraction force characteristics above** were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application.
Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

| | | | |
|---|---|---|---|
| **Material** | Beryllium Copper | **Fingers** | 6 |
| **Compliancy (δ)** | 0.011 | **Length** | .083" (2,108mm) |
| **Maximum Current** | 15A @ 30° C Temp. Rise | **Maximum Operating Temp @ Max Current** | 120.00° C |
| **20% De-rated Maximum Current** | 12.00A | **Contact Resistance** | 10.00mΩ Max |
| **Contact Group** | D | | |

## 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

- Change Notice - PCN (0305-X-57-XX-47-XX-10-0)
- Engineering Notebook: Introduction to Pin Receptacles
- Environmental Compliance: https://www.mill-max.com/rohs


(c)2025 Mill-Max Mfg Corp. | 516-922-6000
190 Pine Hollow Road, Oyster Bay, NY 11771


Downloaded from Arrow.com.