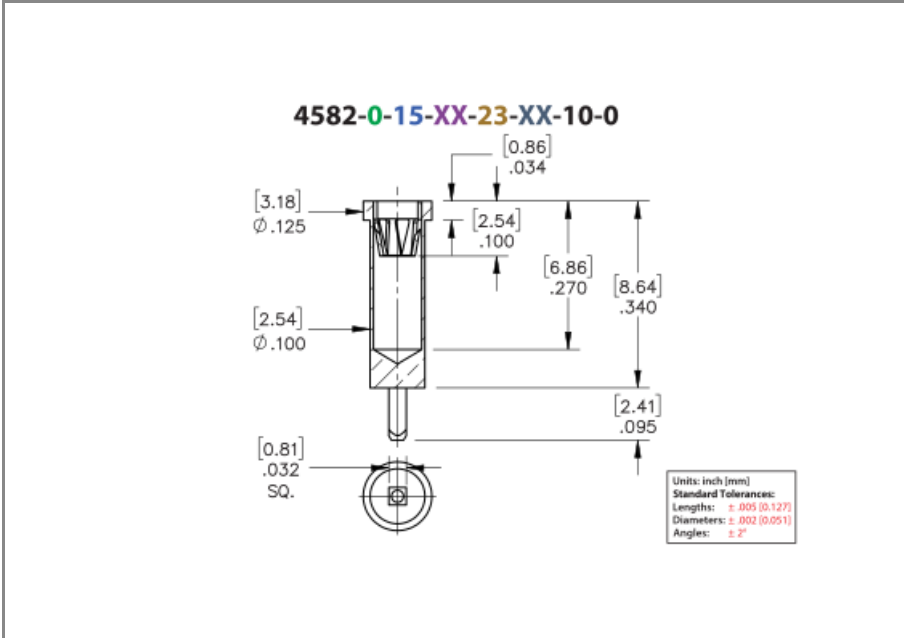




PRODUCT NUMBER: 4582-0-15-01-23-27-10-0

www.mill-max.com
DATA SHEET



| General Information | |
|----------------------|--|
| Product Family: | Pin Receptacle |
| 1 Description: | Press-Fit Receptacle for Plated Through Hole (PTH) |
| Country of Origin: | USA |
| 2 Product Lifecycle: | Active |

| Product Attributes | |
|--------------------------------|--|
| Hole Type: | Closed-Bottom |
| 3 Mounting Feature: | Press-Fit into a Plated Through Hole (PTH) |
| 4 Shell Material: | Brass Alloy |
| 5 Shell Plating: | 01 Shell Plating - 200-300 μ" Tin/Lead over Nickel |
| Pin Diameter Range: | .045"-.065" (1,143-1,651mm) |
| Contact Number: | 23 - Low Force 6 Finger Contact |
| 6 Contact Plate: | 27 Contact Plating - 30 μ" Gold over Nickel |
| Press-Fit Feature: | Hexagonal |
| Tail Type: | Square Press-Fit |
| Tail: | Single |
| Wire Termination: | N/A |
| 7 Operating Temperature Range: | -55/+125° C |

4582-0-15-01-23-27-10-0 - SPECIFICATIONS

| Key Dimensions | |
|----------------------|-------------------------|
| Barb/Knurl Diameter: | .032" (0,813mm) |
| Body Diameter: | .100" (2,540mm) |
| Body Length: | .306" (7,772mm) |
| Body Tail Length: | 0 - Body or Tail Length |
| Flange Diameter: | .125" (3,175mm) |
| Flange Length: | .034" (0,864mm) |
| Hole Depth: | .270" (6,858mm) |
| Overall Length: | .435" (11,049mm) |
| Tail Diameter: | .032" (0,813mm) |
| Tail Length: | .095" (2,413mm) |

| Electrical Specifications | |
|---------------------------|------------------------|
| 8 Maximum Current: | 18A @ 30° C Temp. Rise |
| Maximum Derated Current: | 14.40A |
| Contact Resistance: | 10.00mΩ Max |

| Mechanical Specifications | |
|---------------------------------|---|
| 9 Mechanical life (Durability): | 1,000 Cycles Minimum |
| 10 Shock: | No Elect. Discontinuity > 1μs @ 50g |
| 11 Vibration: | No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G |

| Mounting Specifications | |
|--------------------------|---------------------------|
| Mounting Hole: | .040" (1,016mm) |
| Mounting Hole Type: | Plated Through Hole (PTH) |
| Alternate Mounting: | N/A |
| Alternate Mounting Hole: | N/A |
| SMT Pad Size: | N/A |

Environmental & Export Classifications

| | |
|-----------------------------------|------------------|
| Cage Code: | 3N087 |
| ECCN: | Contact Factory |
| HTSUS: | 8536.90.4000 |
| Moisture Sensitivity Level (MSL): | 1 (Unlimited) |
| Prop 65: | N |
| REACH Status: | REACH Unaffected |
| Shelf Life: | 300 |
| Special Handling Code: | UNDF |
| Static Sensitive: | N |

Packaging Information

| | |
|--------------------|-----------------------|
| Packaging Options: | Packaged in Bulk |
| Stage Code: | 15 - Packaged in Bulk |
| Reel Size: | N/A |

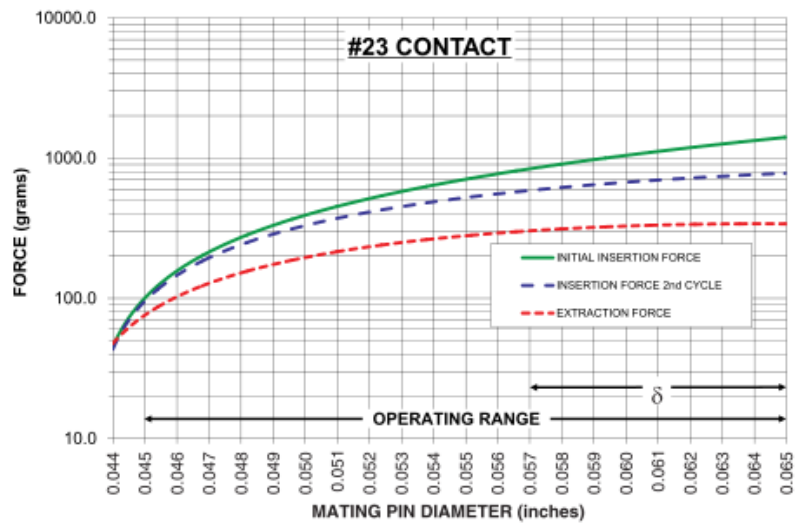
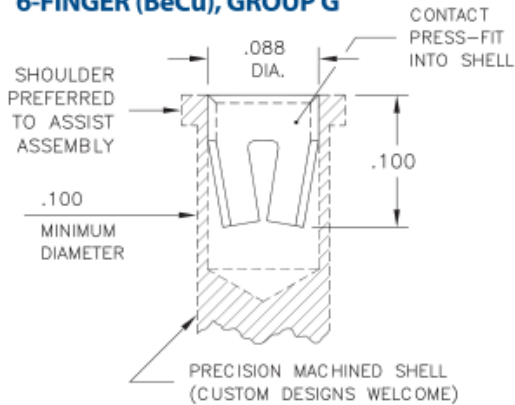
NOTES:

1. Standard Tolerances:
Lengths +/- .005" (0,13)
Diameters: +/- .002" (0,051)
Angles: +/- 2°
2. Part is Active and in Production, No Scheduled Obsolescence
3. 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
4. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
5. TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth) Bright finish; NICKEL per ASTM B 689, Type 2 (Bright)
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. Per IEC 60512-11-(4,-9,-10,-12)
8. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 30° C Temp. Rise)
9. 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.
10. Per IEC 60512-6-3: Test 6c: Shock
11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

CONTACT:

#23 CONTACT

FOR .045"-.065" DIAMETER PINS ($\delta = .008$)
6-FINGER (BeCu), GROUP G



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) | 0.008 | Length | .100" (2,540mm) |
| Maximum Current | 18A @ 30° C Temp. Rise | Maximum Operating Temp @ Max Current | 120.00° C |
| 20% De-rated Maximum Current | 14.40A | Contact Resistance | 10.00m Ω Max |
| Contact Group | G | | |

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: [4582-0-15-01-23-27-10-0 - Press-Fit Receptacle for Plated Through Hole \(PTH\)](#)
- [Application Note - Applications for Pins and Receptacles in Plated Through Holes](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>