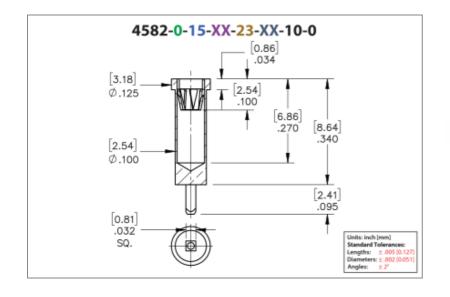


# PRODUCT NUMBER: 4582-0-15-01-23-14-10-0

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## 4582-0-15-01-23-14-10-0 SPECIFICATIONS

General Info   Press-Fit Receptacle for Press-Fit Receptacle for Press-Fit Receptacle for Press-Fit into a Plated Through Hole (PTH)   Mounting Fress-Fit into a Plated Through Hole (PTH)   Mounting Hole: .040" (1,016mm)   Pin Diameter .045"065" (1,143-Range: 1,651mm)   Packaging: Packaged in Bulk   RoHS: No   Product Lifecycle3: Active					
Description 1: Plated Through Hole (PTH)Mounting Feature2:Press-Fit into a Plated Through Hole (PTH)Mounting Hole:.040" (1,016mm)Pin Diameter:.040" (1,016mm)Pin Diameter:.045"065" (1,143- (.651mm)Packaging:Packaged in BulkRoHS:NoProduct Lifecycle3:Active	General Info				
Feature2:Through Hole (PTH)Mounting Hole:.040" (1,016mm)Pin Diameter:.045"065" (1,143- 1,651mm)Packaging:Packaged in BulkRoHS:NoProduct Lifecycle3:Active	Description <sup>1</sup> :Plated Through Hole				
Hole: Pin Diameter .045"065" (1,143- Range: 1,651mm) Packaging: Packaged in Bulk RoHS: No Product Lifecycle <sup>3</sup> : Active					
Range:1,651mm)Packaging:Packaged in BulkRoHS:NoProduct Lifecycle3:Active	3	.040" (1,016mm)			
RoHS: No Product Lifecycle <sup>3</sup> : Active		• •			
Product Lifecycle <sup>3</sup> : Active	Packaging:	Packaged in Bulk			
Lifecycle <sup>3</sup> :	RoHS:	No			
Country Of		Active			
Origin:	Country Of Origin:	USA			

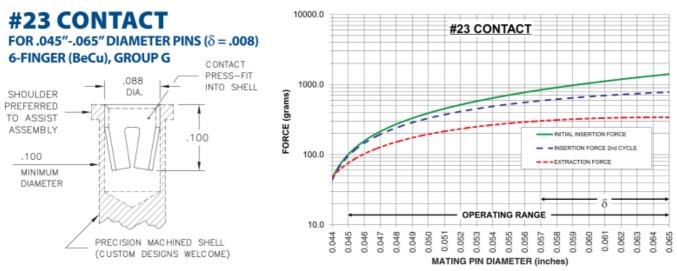
Materials	
Shell Material <sup>4</sup> :	Brass Alloy
Shell Plating <sup>5</sup> :	200 - 300 µ" Tin/Lead over Nickel
Contact Plating <sup>6</sup> :	10 $\mu^{\!\!\!\!\!\!\!\!\!\!}$ Gold over Nickel

Technical Specs				
Mechanical life (Durability) <sup>7</sup> :	1,000 Cycles Minimum			
Operating Temperature Range <sup>8</sup> :	-55/+125° C			
Maximum Current:	18A @ 30º C Temp. Rise			
Maximum Derated Current:	14.4A			
Contact Resistance:	10 mΩ Max			
Shock <sup>9</sup> :	No Elect. Discontinuity > 1µs @ 50g			
Vibration <sup>10</sup> :	No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G			

#### **NOTES:**

- 1. Standard Tolerances: Lengths +/-.005" (0,13) Diameters: +/-.002" (0,051) Angles: +/- 2°
- 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
- 3. Part is Active and in Production, No Scheduled Obsolescence
- 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. 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.
- 8. Per IEC 60512-11-(4,-9,-10,-12)
- 9. Per IEC 60512-6-3: Test 6c: Shock
- 10. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

#### **CONTACT:**



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 @ 30º C Temp. Rise	Maximum Operating Temp @ Max Current	120.00° C
20% De-rated Maximum Current	14.40A	Contact Resistance	10.00mΩ Max
Contact Group	G		

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#### **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**

Application Note: (<u>https://www.mill-max.com/sites/default/files/external/assets/2017-07/Application%20Note%20-%20Press-</u> <u>Fit%20Pins%20and%20Receptacles%20for%20Plated%20Through%20Holes.pdf</u>)</u> Environmental Compliance: (<u>https://www.mill-max.com/rohs</u>)