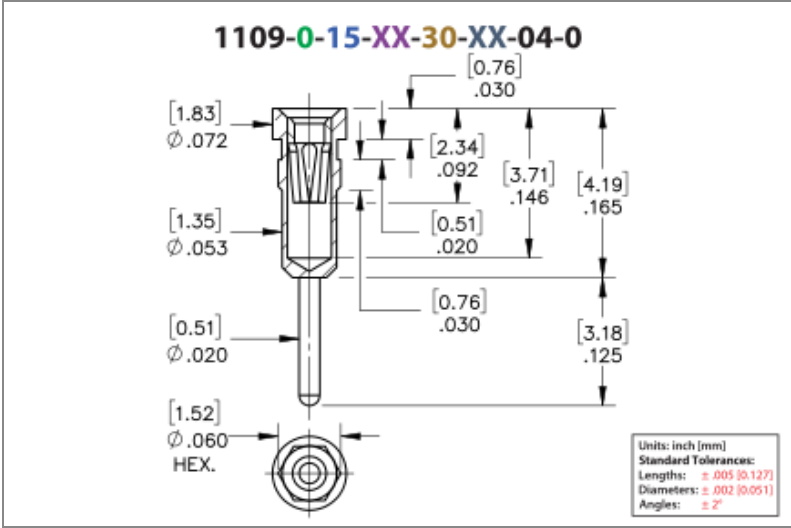




PRODUCT NUMBER: 1109-0-15-80-30-27-04-0

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DATA SHEET



1109-0-15-80-30-27-04-0 SPECIFICATIONS

General Info	
Description¹:	Receptacle With A Standard Tail
Mounting Feature²:	Press-Fit into a Plated Through Hole (PTH)
Mounting Hole³:	.057" (1,448mm)
Alternate Mounting⁴:	Through-Hole Solder tail Mount
Pin Diameter Range:	.015"-.025" (0,381-0,635mm)
Packaging:	Packaged in Bulk
RoHS⁵:	Yes
Product Lifecycle⁶:	Active

Materials	
Shell Material⁷:	Brass Alloy
Shell Plating⁸:	200 - 300 μ" Tin (matte finish) over Nickel
Contact Plating⁹:	30 μ" Gold over Nickel

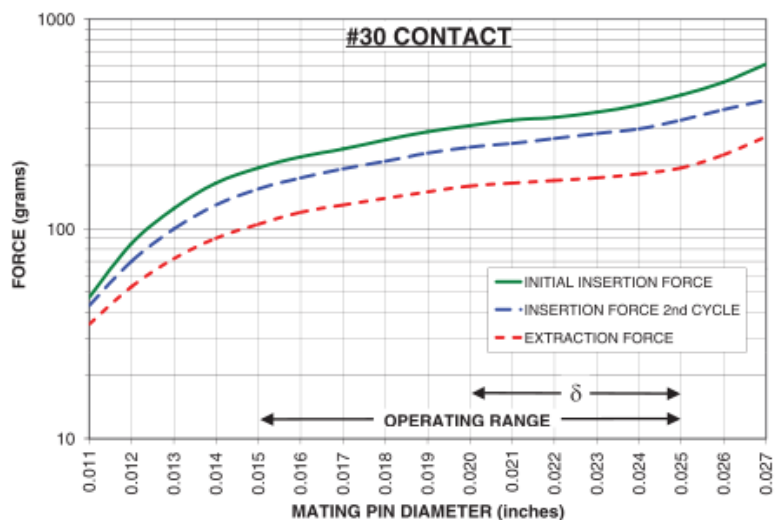
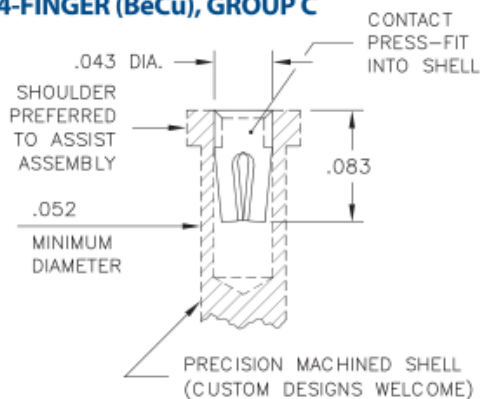
Technical Specs	
Durability¹⁰:	1,000 Cycles Minimum
Operating Temperature Range¹¹:	-55/+125° C
Current Rating¹²:	3A @ 10°C Temperature Rise
Contact Resistance¹³:	10 mΩ Max
Shock¹⁴:	No Elect. Discontinuity > 1μs @ 50g
Vibration¹⁵:	No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G

NOTES:

1. Standard Tolerances:
Lengths $\pm .005"$ (0,13)
Diameters: $\pm .002"$ (0,051)
Angles: $\pm 2^\circ$
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. This is a general guideline; your application may require different specifications
4. 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.
5. 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).
6. Part is Active and in Production, No Scheduled Obsolescence
7. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
8. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
9. 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)
10. 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.
11. Per IEC 60512-11-(4,-9,-10,-12)
12. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10°C Temp. Rise)
13. Per EIA-364-23C, Low Level Contact Resistance
14. Per IEC 60512-6-3: Test 6c: Shock
15. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

CONTACT:

#30 CONTACT FOR .015"-.025" DIAMETER PINS ($\delta = .005$) 4-FINGER (BeCu), GROUP C



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	Current Rating (amps)	3.00
Fingers	4	Compliance (δ)	0.005
Length	.080" (2,032mm)	Contact Group	C

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

Engineering Notebook: (<https://www.mill-max.com/engineering-notebooks/pin-receptacles/the-backbone-of-your-interconnect-system>)

Environmental Compliance: (<https://www.mill-max.com/rohs>)