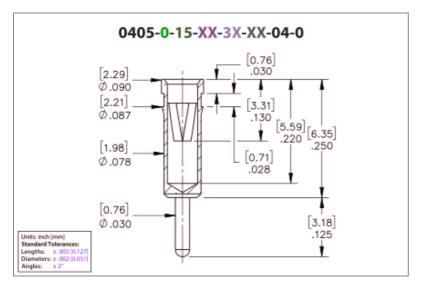




PRODUCT NUMBER: 0405-0-15-80-36-27-04-0





0405-0-15-80-36-27-04-0 SPECIFICATIONS

General Info				
Description ¹	Receptacle With A Standard Tail			
Mounting Feature:	Press-Fit into a Non- Plated Through Hole (NPTH)			
Mounting Hole:	.084" (2,134mm)			
Alternate Mounting ² :	Through-Hole Soldertail Mount			
Pin Diamete Range:	r .032"046" (0,813- 1,168mm)			
Packaging:	Packaged in Bulk			
RoHS ³ :	Yes			
Product Lifecycle ⁴ :	Active			

Materials			
Shell Material ⁵	: Brass Alloy		
Shell Plating ⁶ :	200 - 300 μ" Tin (matte finish) over Nickel		
Contact Plating ⁷ :	30 μ" Gold over Nickel		

Technical Specs		
Operating Temperature Range ⁸ :	-55/+125° C	
Current Rating ⁹ :	8A @ 10°C Temperature Rise	
Contact Resistance ¹⁰ :	10 mΩ Max	
Shock ¹¹ :	No Elect. Discontinuity > 1μs @ 50g	
Vibration ¹² :	No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G	

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.
- 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. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); 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. Per IEC 60512-11-(4,-9,-10,-12)
- 9. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)
- 10. Per EIA-364-23C, Low Level Contact Resistance
- 11. Per IEC 60512-6-3: Test 6c: Shock
- 12. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

CONTACT:

600 **#36 CONTACT** #36 CONTACT FOR .022"-.042" DIAMETER PINS (δ = .022) 500 4-FINGER (BeCu), GROUP E CONTACT INSERTION FORCE 2NLCYCLE PRESS-FIT 400 .064 INTO SHELL FORCE (grams) EXTRACTION FORCE DIA. SHOULDER PREFERRED 300 TO ASSIST ASSEMBLY .120 200 .073 MINIMUM 100 DIAMETER δ OPERATING RANGE 0 0.018 0.034 0.040 0.042 0.026 PRECISION MACHINED SHELL (CUSTOM DESIGNS WELCOME) MATING PIN DIAMETER (inches)

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)	16.00
Fingers	4	Compliancy (δ)	0.020
Length	.120" (3,048mm)	Contact Group	E

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)