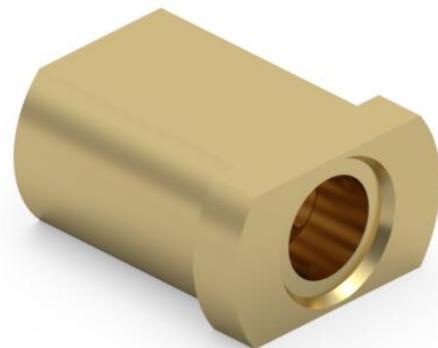
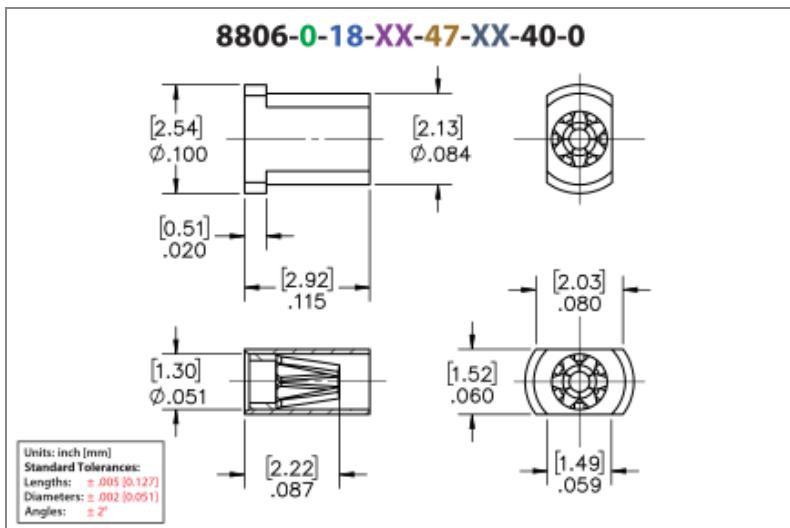




PRODUCT NUMBER: 8806-0-18-15-47-27-40-0

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DATA SHEET



## 8806-0-18-15-47-27-40-0 SPECIFICATIONS

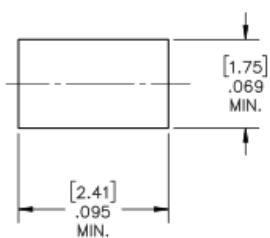
General Info		Materials	Technical Specs
Description <sup>1</sup> :	Horizontal Surface Mount Receptacle	Shell Material <sup>4</sup> : Brass Alloy	Mechanical life 1,000 Cycles Minimum (Durability) <sup>7</sup> :
Mounting Feature:	Surface Mount	Shell Plating <sup>5</sup> : 10 µ" Gold over Nickel	Operating Temperature -55/+125° C Range <sup>8</sup> :
Mounting Hole:	0" (0,0mm)	Contact Plating <sup>6</sup> : 30 µ" Gold over Nickel	Maximum Current: 15A @ 30° C Temp. Rise
Pin Diameter Range:	.025"- .037" (0,635-0,940mm)		Maximum Derated Current: 12A
Packaging:	Packaged in Bulk		Contact Resistance: 10 mΩ Max
RoHS <sup>2</sup> :	Yes		Shock <sup>9</sup> : No Elect. Discontinuity > 1µs @ 50g
Product Lifecycle <sup>3</sup> :	Active		Vibration <sup>10</sup> : No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G
Country Of Origin:	USA		

## NOTES:

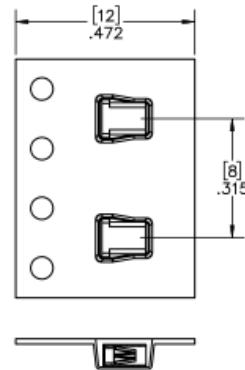
1. Standard Tolerances:  
Lengths +/- .005" (0,13)  
Diameters: +/- .002" (0,051)  
Angles: +/- 2°
2. Mill-Max products labeled with the RoHS symbol are compliant with all three ROHS Directives. All of our products previously described as RoHS (2002/95/EC) and RoHS-2 (2011/65/EC) are also compliant with RoHS-3 (2015/863/EU).
3. Part is Active and in Production, No Scheduled Obsolescence
4. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
5. 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),
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)

## ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

### Suggested P.C.B. Footprint



### 8806-0-58 Tape & Reel Details

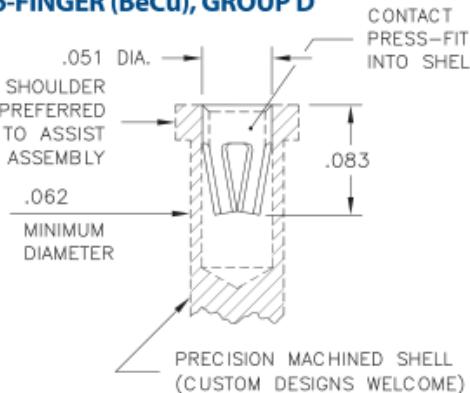


## CONTACT:

# #47 CONTACT

FOR .025"-.037" DIA. & .025" SQ. ( $\delta = .011$ )

6-FINGER (BeCu), GROUP D



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
Compliance ( $\delta$ )	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

- Engineering Notebook: [Introduction to Pin Receptacles](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>