PRODUCT NUMBER: 0381-0-15-80-23-80-10-0

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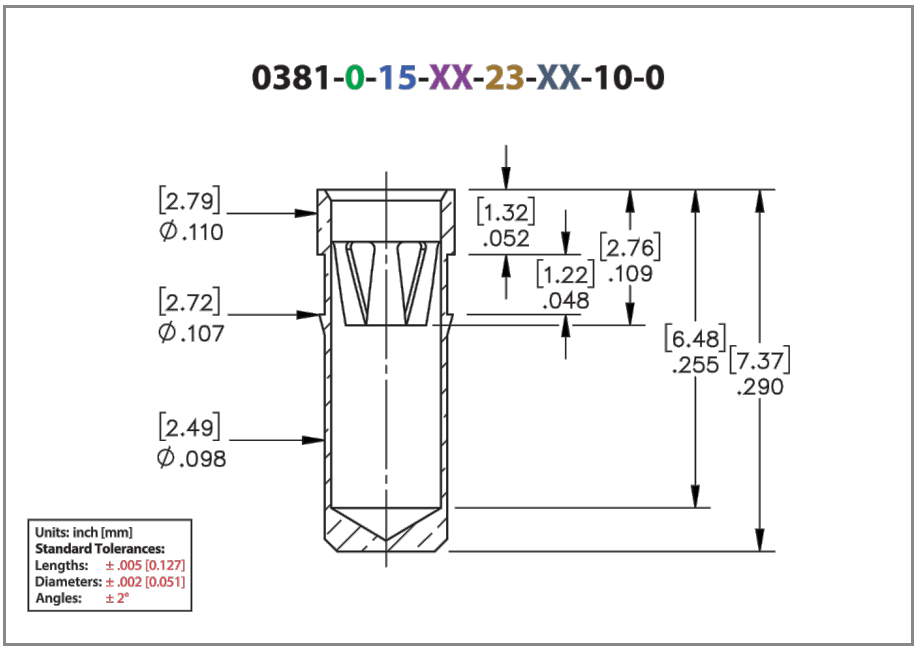
DATA SHEET



General Information	
1 **Product Lifecycle:**	Active
Product Family:	Pin Receptacle
2 **Description:**	Press-Fit Receptacle for Non-Plated Through Hole
3 **Shell Material:**	Brass Alloy
4 **Operating Temperature Range:**	-55/+125° C
5 **Contact Number:**	23 - Low Force 6 Finger Contact
Contact Material:	Beryllium Copper
Max Operating Temperature (Contact):	120.00˚ C
Country of Origin:	USA
6 **ROHS:**	Yes

Termination Style	
Tail:	None
Tail Type:	None
Wire Termination:	N/A

0381-0-15-80-23-80-10-0 - SPECIFICATIONS

Product Attributes		
7	**Shell Plating:**	80 Shell Plating - 200-300 µ" Tin (matte finish) over Nickel
8	**Contact Plate:**	80 Contact Plating - 200-300 µ" Tin (matte finish) over Nickel
	Hole Type:	Closed-Bottom

Key Dimensions	
Accepting Lead Range:	.045"-.065" (1,143-1,651mm)
Barb/Knurl Diameter:	.107" (2,718mm)
Body Diameter:	.098" (2,489mm)
Body Length:	.238" (6,045mm)
Flange Diameter:	.110" (2,794mm)
Flange Length:	.052" (1,321mm)
Hole Depth:	.255" (6,477mm)
Overall Length:	.290" (7,366mm)

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

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

Mounting Specifications	
Mounting Feature:	Press-Fit into a Non-Plated Through Hole (NPTH)
Press-Fit Feature:	Barb
Mounting Hole Type:	Non-Plated Through Hole (NPTH)
Mounting Hole:	.104" (2,642mm)
Alternate Mounting:	N/A
SMT Pad Size:	N/A

Packaging Information	
Packaging:	15 - Packaged in Bulk
Reel Size:	N/A

Environmental & Export Classifications	
REACH Status:	REACH Unaffected
ECCN:	Contact Factory
HTSUS:	8536.90.4000
Cage Code:	3N087
Moisture Sensitivity Level (MSL):	1 (Unlimited)
Special Handling Code:	UNDF
Prop 65:	N
Static Sensitive:	N

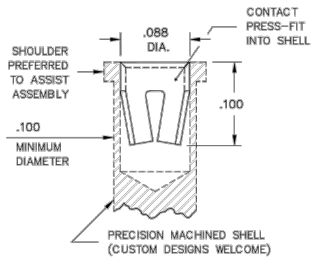
NOTES:

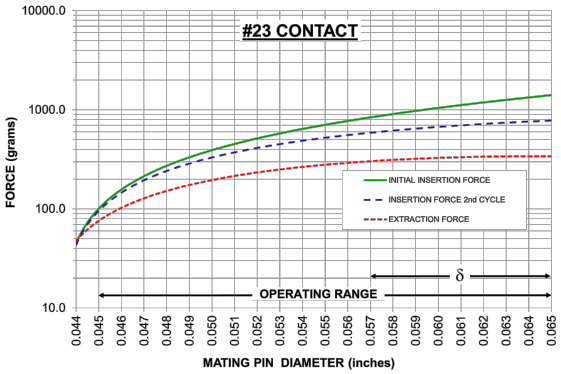
1. Part is Active and in Production, No Scheduled Obsolescence
2. Standard Tolerances:
   Lengths +/-.005" (0,13)
   Diameters: +/-.002" (0,051)
   Angles: +/- 2°
3. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
4. Per IEC 60512-11-(4,-9,-10,-12)
5. Click the Link for Insertion/Extraction Force & Current/Temperature Derating Graphs
6. 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).
7. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
8. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
9. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 30˚ C Temp. Rise)
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 60512-6-3: Test 6c: Shock
12. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

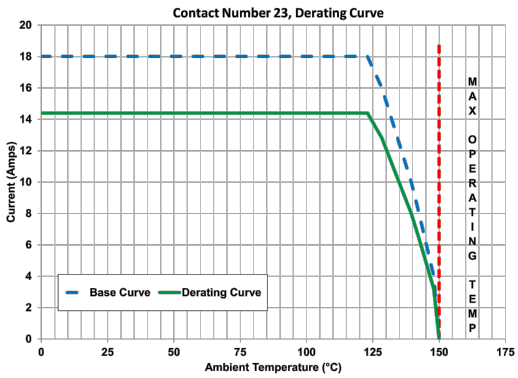
CONTACT:

#23 CONTACT

FOR .045”-.065” DIAMETER PINS (δ = .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**	10.00mΩ 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: 0381-0-15-80-23-80-10-0 - Press-Fit Receptacle for Non-Plated Through Hole
- Environmental Compliance: https://www.mill-max.com/rohs