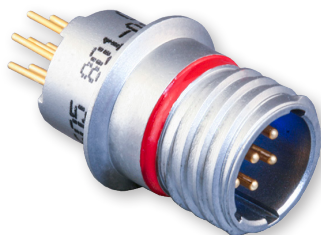


Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle, Solder Cup or PC Tail 801-012 Ordering Information



Series 801



Series 801 Hermetic Receptacles

Feature a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. 304L stainless steel shells suitable for E-Beam welding. Hermeticity is less than 1×10^{-7} cc/second helium leak rate. Four Shell Styles available including solder

mount, weld mount, jam-nut or square flange. Integral standoffs for solder washout. Solder cup or PC tail contacts for attachment to flex or rigid circuit boards. Contacts are alloy 52 and gold plated.

How To Order						
Sample Part Number	801-012	-03	Z1	7-10	P	A
Series	801-012 = Hermetic Receptacles					
Shell Style (See Table I)	-02 = Square Flange, Front or Rear Panel Mount -03 = Solder Mount -07 = Jam-Nut, Rear Panel Mount -13 = Weld Mount					
Material and Finish	Z1 = Stainless Steel / Passivated ZL = Stainless Steel / Nickel Plated					
Shell Size - Insert Arrangement	See Contact Arrangements page D-3					
Contact Type	P = Pin, Solder Cup C = Pin, PC Tail S = Socket, Solder Cup D = Socket, PC Tail					
Polarization (See Table II)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F G = Pos. G H = Pos. H J = Pos. J					

Table I: Shell Style			
Style -02 Square Flange	Style -03 Solder Mount	Style -07 Jam-Nut	Style -13 Weld Mount

Table II: Keyway Positions		
Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

NOTES

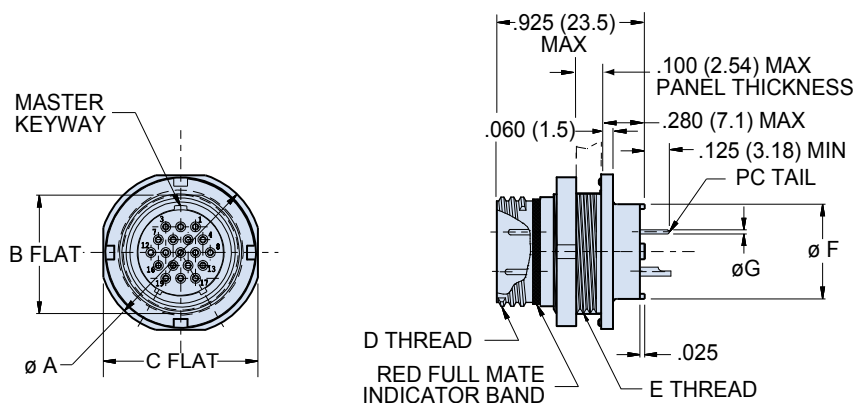
- Hermeticity is less than 1×10^{-6} cc/SEC at one atmosphere, not for use in liquid environment
- This connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender, (801-001, 801-002, 801-007, and 801-008)

Dimensions in Inches (millimeters) are subject to change without notice.



Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle, Solder Cup or PC Tail 801-012-07 Dimensions

Jam-nut mount receptacle - shell style 07



D

Dimensions							
Shell Size	Ø A	B Flat	C Flat	D Thread	E Thread UN-2A	Ø F	Ø G Tail Dia.
5	.575 (14.60)	.350 (8.89)	.545 (13.84)	.3125-.05P-1L-2A	.3750-28	.244 (6.20)	#23 .018/.022 (0.46/0.56)
6	.635 (16.13)	.410 (10.41)	.595 (15.11)	.3750-.05P-1L-2A	.4375-28	.330 (8.38)	
7	.755 (19.18)	.536 (13.61)	.723 (18.36)	.4375-.05P-1L-2A	.5625-32	.432 (10.97)	#20 .024/.028 (0.61/0.71)
8	.755 (19.18)	.536 (13.61)	.723 (18.36)	.5000-.05P-1L-2A	.5625-32	.493 (12.52)	
9	.830 (21.08)	.596 (15.14)	.790 (20.07)	.5625-.05P-1L-2A	.6250-28	.551 (14.00)	#16 .060/.064 (1.52/1.63)
10	.890 (22.61)	.658 (16.71)	.855 (21.72)	.6250-.05P-1L-2A	.6875-28	.620 (15.75)	
11	.960 (24.38)	.718 (18.24)	.925 (23.50)	.6875-.05P-1L-2A	.7500-28	.662 (16.81)	#12 .092/.096 (2.34/2.44)
13	1.078 (27.38)	.845 (21.46)	1.044 (26.52)	.8125-.1P-2L-2A	.8750-28	.703 (17.86)	
16	1.265 (32.13)	1.022 (25.96)	1.230 (31.24)	1.0000-.1P-2L-2A	1.0625-20	.863 (21.92)	#12 .092/.096 (2.34/2.44)
17	1.325 (33.65)	1.096 (27.84)	1.290 (32.77)	1.0625-.1P-2L-2A	1.1250-28	.912 (23.16)	
19	1.450 (36.83)	1.225 (31.12)	1.415 (35.94)	1.1875-.1p-2L-2A	1.2500-28	1.018 (25.86)	
21	1.625 (41.28)	1.346 (34.19)	1.577 (40.06)	1.3125-.1P-2L-2A	1.3750-28	1.170 (29.72)	

Material / finish:

- Shell: CRES 304L / passivate or plate as required
- Jam-nut: CRES / passivate or plate as required
- Contacts: alloy 52 / gold plate
- Seals: fluorosilicone / N.A.
- Insulators:
 - » Fused glass / N.A. (hermetic)
 - » Rigid dielectric / N.A. (socket insulator)
- Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

Jam-Nut Panel Cutout		
Shell Size	A Flat ± .002 (.05)	Ø B
5	.356 (9.04)	.385 (9.78) .380 (9.65)
6	.416 (10.57)	.448 (11.38) .443 (11.25)
7	.542 (13.77)	.572 (14.53) .567 (14.40)
8	.542 (13.77)	.572 (14.53) .567 (14.40)
9	.602 (15.29)	.635 (16.13) .630 (16.00)
10	.664 (16.87)	.698 (17.73) .693 (17.60)
11	.726 (18.44)	.760 (19.30) .755 (19.18)
13	.851 (21.62)	.885 (22.48) .880 (22.35)
16	1.028 (26.11)	1.075 (27.30) 1.067 (27.10)
17	1.102 (27.99)	1.135 (28.83) 1.130 (28.70)
19	1.233 (31.32)	1.260 (32.00) 1.255 (31.88)
21	1.352 (34.34)	1.385 (35.18) 1.380 (35.05)

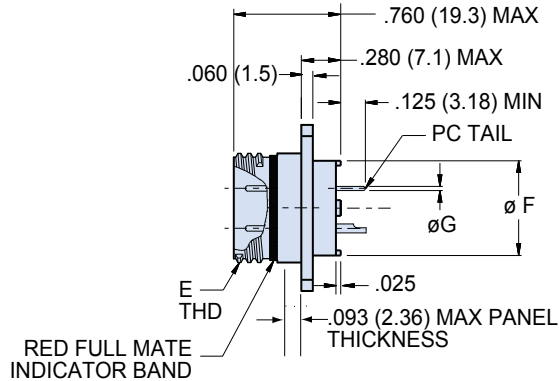
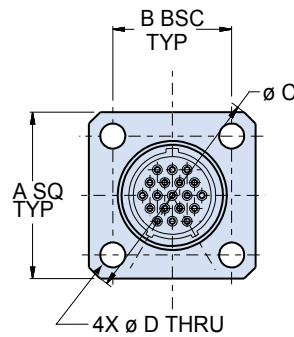
Dimensions in Inches (millimeters) are subject to change without notice.

Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle, Solder Cup or PC Tail 801-012-02 Dimensions



Series 801

Front or Rear, Square Flange Mount - shell style 02



Dimensions							
Shell Size	A Sq	B BSC	Ø C	Ø D	E Thread	Ø F	Ø G Tail Dia
5	.530 (13.46)	.363 (9.22)	.680 (17.27)	.096/.091	.3125-.05P-.1L-2A	0.010 (.244)	#23 .018/.022 (0.46/0.56)
6	.590 (14.99)	.423 (10.74)	.750 (19.05)		.3750-.05P-.1L-2A	0.013 (.330)	
7	.650 (16.51)	.483 (12.27)	.850 (21.59)		.4375-.05P-.1L-2A	0.017 (.432)	
8	.712 (18.08)	.545 (13.84)	.938 (23.83)		.5000-.05P-.1L-2A	0.019 (.493)	
9	.850 (21.59)	.607 (15.42)	1.125 (28.58)	.130/.126	.5625-.05P-.1L-2A	0.022 (.551)	#20 .024/.028 (0.61/0.71)
10	.890 (22.61)	.670 (17.02)	1.188 (30.18)		.6250-.05P-.1L-2A	0.024 (.620)	
11	.935 (23.75)	.715 (18.16)	1.250 (31.75)		.6875-.05P-.1L-2A	0.026 (.662)	
13	1.030 (26.16)	.812 (20.62)	1.375 (34.92)		.8125-.1P-.2L-2A	0.028 (.703)	
16	1.219 (30.96)	.981 (24.92)	1.625 (41.28)		1.0000-.1P-.2L-2A	0.034 (.863)	
17	1.280 (32.51)	1.060 (26.92)	1.700 (43.18)		1.0625-.1P-.2L-2A	0.036 (.912)	
19	1.432 (36.37)	1.191 (30.25)	1.900 (48.26)		1.1875-.1P-.2L-2A	0.040 (1.018)	
21	1.565 (39.75)	1.322 (33.58)	2.100 (53.34)		1.3125-.1p-.2L-2a	0.046 (1.170)	

Square Flange Rear Panel Mount, Panel Cutout

	Shell Size	B BSC	Ø J	Ø R ±.005 (.13)
-02 FLANGE	5	.363 (9.22)	.096/.091 (2.44/2.31)	.328 (8.33)
	6	.423 (10.74)		.390 (9.91)
	7	.483 (12.27)		.453 (11.51)
	8	.545 (13.84)		.515 (13.08)
-02 FLANGE	9	.607 (15.42)	.130/.126 (3.30/3.20)	.578 (14.68)
	10	.670 (17.02)		.640 (16.26)
	11	.715 (18.16)		.703 (17.86)
	13	.812 (20.62)		.828 (21.03)
	16	.981 (24.92)		1.015 (25.78)
	17	1.060 (26.92)		1.078 (27.38)
	19	1.191 (30.25)		1.203 (30.56)
	21	1.322 (33.58)		1.328 (33.73)

Material / finish:

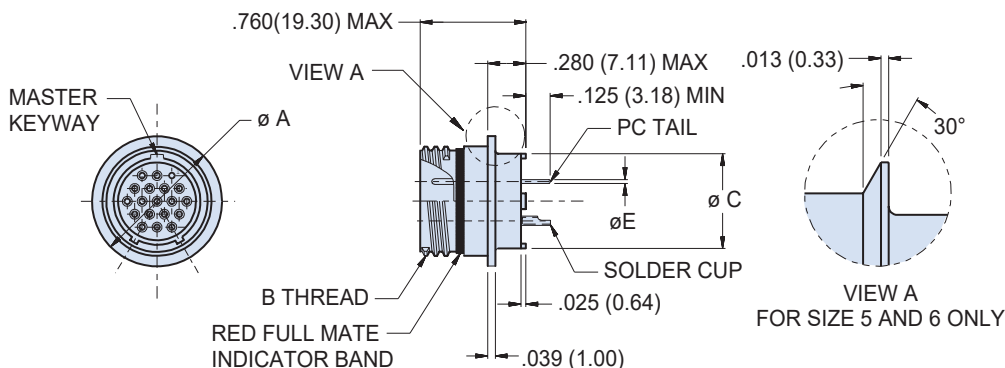
- Shell: CRES 304L / passivate or plate as required
- Contacts: alloy 52 / gold plate
- Seals: fluorosilicone / N.A.
- Insulators:
 - » Fused glass / N.A. (hermetic)
 - » Rigid dielectric / N.A. (socket insulator)
- Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

Dimensions in Inches (millimeters) are subject to change without notice.



Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle, Solder Cup or PC Tail 801-012 Shell Style -03 and -13 Dimensions

Solder Mount receptacle - shell style 03



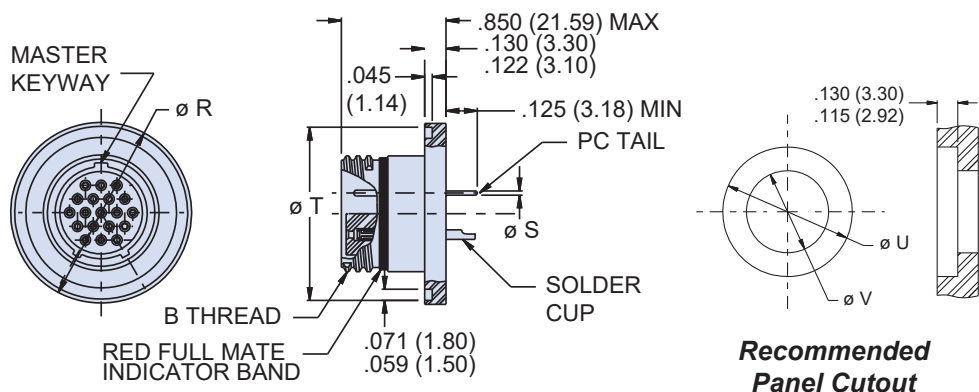
Material / finish:

- Shell: CRES 304L / passivate or plate as required
- Contacts: alloy 52 / gold plate
- Seals: fluorosilicone / N.A.
- Insulators:
 - » Fused glass / N.A. (hermetic)
 - » Rigid dielectric / N.A. (socket insulator)
- Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

Dimensions

Shell Size	Ø A	B Thread	Ø C	Shell Size	Ø A	B Thread	Ø C	Ø E Tail Dia.	
5	.395 (10.03)	.3125-.05P-1L-2A	.244 (6.20)	11	.770 (19.56)	.6875-.05P-1L-2A	.662 (16.81)	#23	#16
6	.455 (11.56)	.375-.05P-1L-2A	.330 (8.38)	13	.895 (22.73)	.8125-1P-2L-2A	.703 (17.86)	.018/.022 (0.46/0.56)	.060/.064 (1.52/1.63)
7	.520 (13.21)	.4375-.05P-1L-2A	.432 (10.97)	16	1.080 (27.43)	1.000-1P-2L-2A	.863 (21.92)	#20	#12
8	.580 (14.73)	.5000-.05P-1L-2A	.493 (12.52)	17	1.145 (29.08)	1.062-1P-2L-2A	.912 (23.16)	.024/.028 (0.61/0.71)	.092/.096 (2.34/2.44)
9	.645 (16.38)	.5625-.05P-1L-2A	.551 (14.00)	19	1.270 (32.26)	1.1875-1P-2L-2A	1.018 (25.86)		
10	.705 (17.91)	.6250-.05P-1L-2A	.620 (15.75)	21	1.395 (35.43)	1.3125-1P-2L-2A	1.170 (29.72)		

Weld Mount receptacle - shell style 13



Material / finish:

- Shell: CRES 304L / passivate or plate as required
- Contacts: alloy 52 / gold plate
- Seals: fluorosilicone / N.A.
- Insulators:
 - » Fused glass / N.A. (hermetic)
 - » Rigid dielectric / N.A. (socket insulator)
- Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

Dimensions

Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V	Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V	Ø S
5	.3125-.05P-1L-2A	0.600 (15.24)	0.555 (14.10)	.606 (15.39)	.180 (4.57)	11	.6875-.05P-1L-2A	1.062 (26.97)	1.019 (25.88)	1.068 (27.13)	.580 (14.73)	#23
6	.3750-.05P-1L-2A	0.665 (16.89)	0.620 (15.75)	.671 (17.04)	.240 (8.38)	13	.8125-1P-2L-2A	1.162 (29.51)	1.119 (28.42)	1.168 (29.67)	.610 (15.49)	#20
7	.4375-.05P-1L-2A	0.730 (18.54)	0.685 (17.40)	.736 (18.69)	.330 (6.10)	16	1.0000-1P-2L-2A	1.288 (32.72)	1.245 (31.62)	1.294 (32.87)	.775 (19.69)	#16
8	.5000-.05P-1L-2A	0.788 (20.02)	0.745 (18.92)	.794 (20.17)	.390 (9.91)	17	1.0625-1P-2L-2A	1.360 (34.54)	1.315 (33.40)	1.366 (34.70)	.825 (20.96)	#12
9	.5625-.05P-1L-2A	0.912 (23.16)	0.869 (22.07)	.918 (23.32)	.455 (11.56)	19	1.1875-1P-2L-2A	1.495 (37.97)	1.452 (36.88)	1.501 (38.13)	.930 (23.62)	
10	.6250-.05P-1L-2A	0.975 (24.77)	0.933 (23.70)	.981 (24.92)	.520 (13.21)	21	1.3125-1P-2L-2A	1.625 (41.28)	1.580 (40.13)	1.631 (41.43)	1.080 (27.43)	

Dimensions in Inches (millimeters) are subject to change without notice.