



# Series 801 Mighty Mouse Double-Start ACME Thread PCB Receptacle with Twinax Contacts

## 801-123 Ordering Information

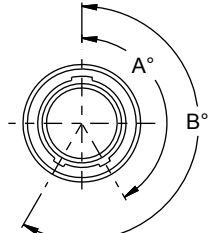
### Twin-Ax PC Tail Receptacle

Features a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. Mounting options include rear panel mount square flange connector and rear panel mount jam-nut connector. Style 02, square flange connector can also be mounted front or rear depending on your application.

6 shell sizes available in 17 insert arrangements including 8 size #12 twinax contact arrangements or 9 combo arrangements with size #12 twinax and #23 contacts. Connectors are environmentally sealed. Contacts are non-removable and back potted.

How To Order		801-123	-07	M	7-1	P	A
Sample Part Number							
Series	801-123 = TwinAx PCB Receptacle						
Shell Style	-02 = Square Flange, Front or Rear Panel Mount -12 = Square Flange, Rear Panel Mount with Non-Locking Clinch Nuts; Consult Factory for SST Material -22 = Square Flange, Rear Panel Mount with Locking Clinch Nuts; Consult Factory for SST Material -07 = Jam-Nut, Rear Panel Mount						
Material and Finish	C = Aluminum / Black Anodize (Non-Conductive) M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated						
Shell Size - Insert Arrangement	7-1, 10-2, 13-2, 13-3, 16-4, 16-5, 17-7, 21-12, 10-200, 10-201, 13-200, 13-201, 13-204, 13-205, 16-206, 16-207, 17-204 See Contact Arrangements page D-3						
Contact Type	P = Pin, PC Tail S = Socket, PC Tail						
Polarization (See Table I)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F						

Table I: Keyway Positions



Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

### NOTES

1. Contacts are non-removable and back potted
2. Connector mates with all 801 series high-density plug connectors with same size, insert arrangement, polarization and opposite contact gender
3. Connector is environmentally sealed to meet a helium leak detection level less than  $10^{-4}$  CC/SEC at one atmosphere Delta P

### Material / finish:

- Shell, jam-nut: aluminum alloy or CRES
- Insulator: high grade rigid dielectric
- Interfacial seal, O-ring: fluorosilicone/N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25 (.00005 minimum thickness), over a suitable underplate
- Potting compound: RTV

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

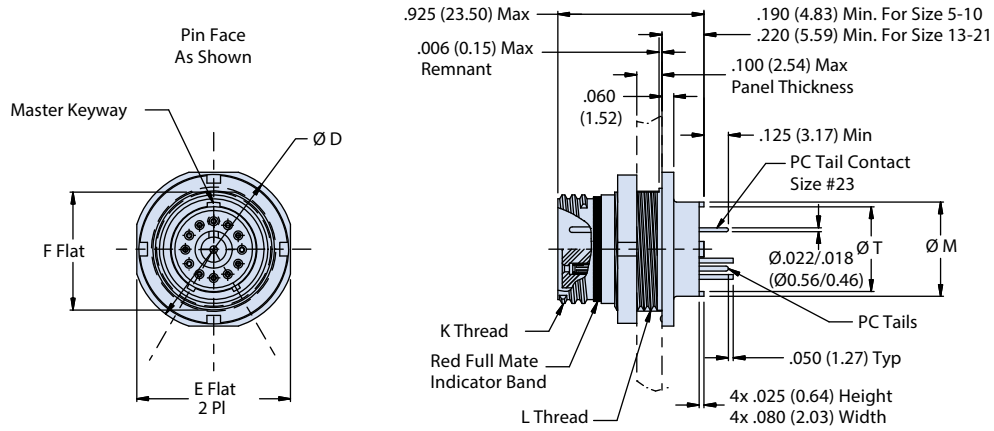
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## 801-123 Dimensions

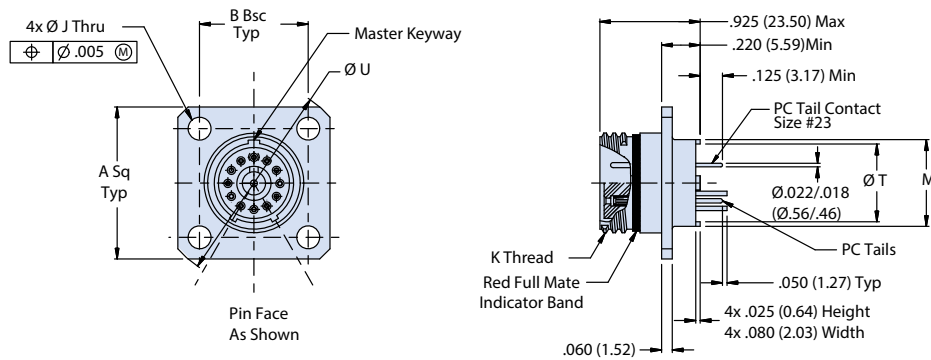


Series 801

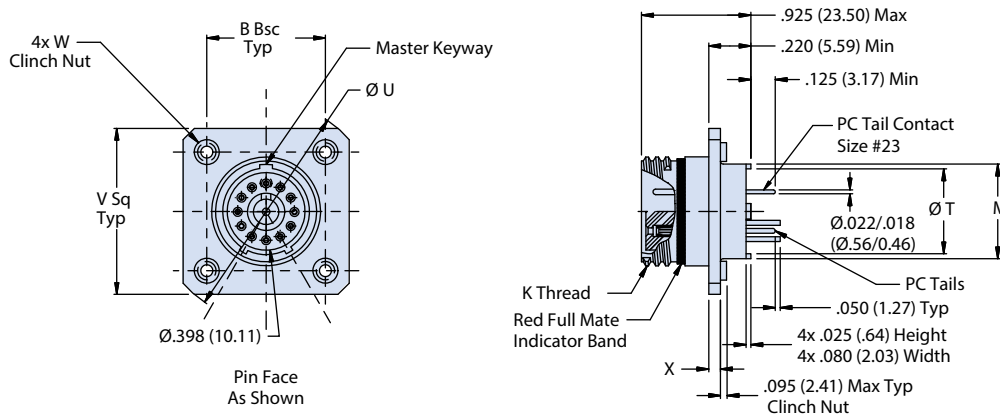
### Jam-nut mount receptacle - shell style 07



### Square flange mount receptacle - shell style 02



### Square flange mount receptacle - shell style 12 and 22



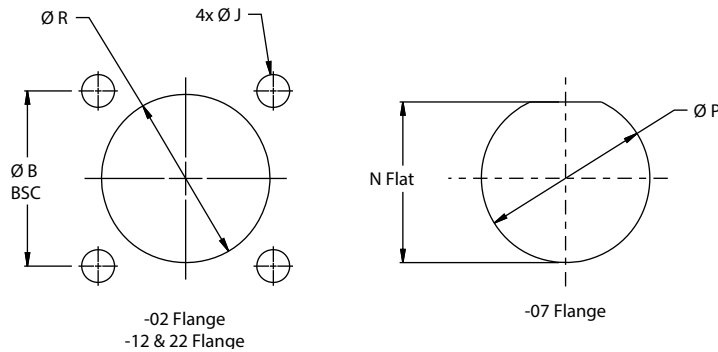
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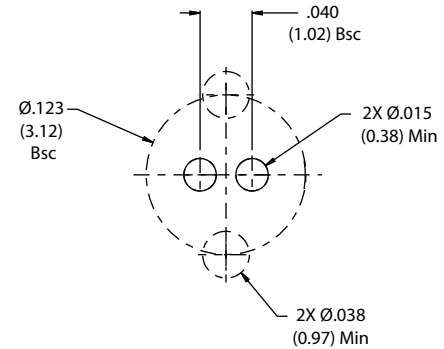
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## 801-123 Dimensions

Recommended Panel Cutouts



#12 TwinAx PCB  
Footprint Detail



Dimensions

Shell Size	A Sq	B BSC	Ø C	Ø D	E Flat	F Flat	J Holes	K Thread	L Thread	Ø M	Ø T
7	0.650 (16.51)	0.483 (12.27)	0.850 (21.59)	0.755 (19.18)	0.723 (18.36)	0.536 (13.61)	.096 (2.44) .091 (2.31)	.4375-.05P-.1L-2A	.5625-32 UN-2A	0.432 (10.97)	0.327 (8.31)
10	0.890 (22.61)	0.670 (17.02)	1.188 (30.18)	0.890 (22.61)	0.855 (21.72)	0.658 (16.71)	0.130 (3.30) 0.126 (3.20)	.6250-.05P-.1L-2A	.6875-28 UN-2A	0.620 (15.75)	0.516 (13.11)
13	1.030 (26.16)	0.812 (20.62)	1.375 (34.92)	1.078 (27.38)	1.044 (26.52)	0.845 (21.46)		.8125-.1P-.2L-2A	.8750-28 UN-2A	0.703 (17.86)	0.599 (15.21)
16	1.219 (30.96)	0.981 (24.92)	1.625 (41.28)	1.265 (32.13)	1.230 (31.24)	1.022 (25.96)		1.0000-.1P-.2L-2A	1.0625-20 UN-2A	0.863 (21.92)	0.759 (19.28)
17	1.280 (32.51)	1.060 (26.92)	1.700 (43.18)	1.325 (33.65)	1.290 (32.77)	1.096 (27.84)		1.0625-.1P-.2L-2A	1.1250-28 UN-2A	0.912 (23.16)	0.808 (20.52)
21	1.565 (39.75)	1.322 (33.58)	2.100 (53.34)	1.625 (41.28)	1.577 (40.06)	1.345 (34.16)		1.3125-.1P-.2L-2A	1.3750-28 UN-2A	1.170 (29.72)	1.061 (26.95)

Dimensions (continued)

Shell Size	N Flat	Ø P	Ø R ±.005 (.13)	Ø U	V SQ	W Clinch Nuts	X
7	.544 (13.82) .540 (13.72)	.572 (14.53) .567 (14.40)	.453 (11.51)	0.944 (23.98)	0.743 (18.87)	2-56	0.030 (0.76)
10	.666 (16.92) .662 (16.81)	.698 (17.73) .693 (17.60)	0.640 (16.26)	1.268 (32.21)	0.990 (25.15)	4-40	0.060 (1.52)
13	.853 (21.67) .849 (21.56)	.885 (22.48) .880 (22.35)	.828 (21.03)	1.470 (37.34)	1.132 (28.75)		
16	1.030 (26.16) 1.026 (26.06)	1.072 (27.23) 1.067 (27.10)	1.015 (25.78)	1.708 (43.38)	1.301 (33.05)		
17	1.104 (28.04) 1.100 (27.94)	1.135 (28.83) 1.130 (28.70)	1.078 (27.38)	1.822 (46.28)	1.382 (35.10)		
21	1.354 (34.39) 1.350 (34.29)	1.385 (35.18) 1.380 (35.05)	1.328 (33.73)	2.190 (55.63)	1.642 (41.71)		

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