

# Series 806

## Mighty Mouse Mil-Aero Connectors

### 806-021 Jam Nut Receptacle Connectors, PC Tail Contacts



#### Features

- Triple-start stub ACME mating thread
- High density #20HD and #22HD arrangements for reduced size and weight
- Aerospace-grade materials, construction
- Integral PC board standoffs
- Threaded holes for secure attachment to rigid or flex circuits
- Alignment post

#### Specifications

- Operating temperature:  
Finishes ME, MT, Z1: -65°C to +200°C  
Finishes NF, ZR: -65°C to +175°C
- Dielectric withstanding voltage  
#20HD layouts: 1800 Vac  
#22HD layouts: 1300 Vac
- Current rating  
#20HD contacts 7.5 A  
#22HD contacts 5 A
- Mating durability: 500 cycles
- Mechanical shock: EIA-364-27, 300g.
- Vibration (sine): MIL-DTL-38999M, 60g.
- Vibration (random) EIA-364-28 Condition VI, Letter J, 43.92 Grms, +200°C
- High Impact shock: MIL-S-901 Grade A
- Humidity: EIA-364-31 Method 4
- Salt spray (dynamic): EIA-364-26, 500 hours (96 hours for nickel-plated versions)
- Fluid immersion: EIA-364-10
- Altitude immersion: EIA-364-03 75,000 feet altitude
- Indirect Lightning Strike: EIA-364-75 Type B Level 2 10kA Peak

#### Connector Construction

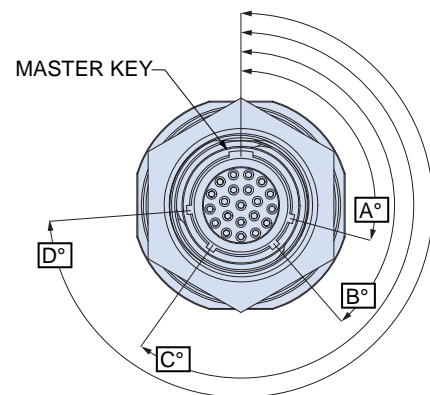
- Shell and jam nut: aluminum or stainless steel
- Contacts: copper alloy, gold plating
- Potting compound: epoxy
- Dielectric inserts: high grade rigid dielectric
- Panel O-ring: fluorosilicone

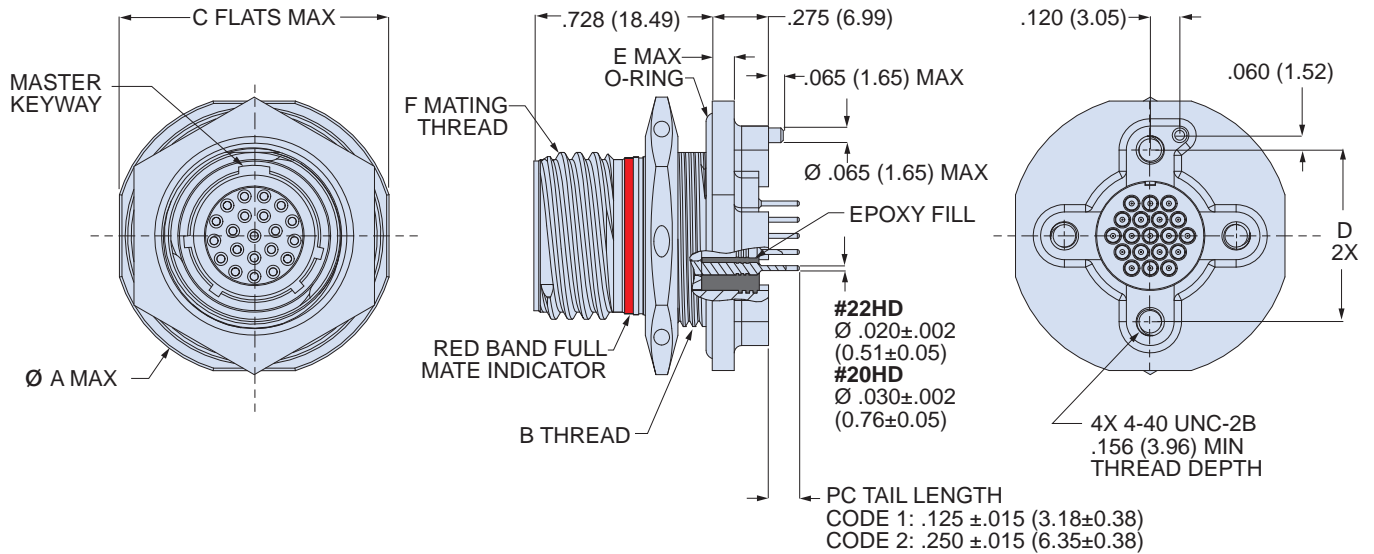
806-021 panel mount jam nut receptacles feature potted-in-place printed circuit board terminals, integral standoffs and threaded holes for secure attachment to rigid or flex circuit boards. Gold-plated terminals are factory-installed, non-removeable and sealed with epoxy. Boss on shell flange guarantees correct connector orientation. These high performance, parylene-compatible connectors are suitable for unpressurized aircraft areas subject to vibration, moisture, and temperature extremes.

How To Order	
SAMPLE PART NUMBER	806-021 -ME 10-15 S 2 A
Product	806-021 = Jam Nut Receptacle, PC Tails
Shell Material and Finish	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated
Arrangement Number (Shell Size - Insert Arr.)	See Table 1
Contact Type	P = Pin S = Socket
PC Tail Length	1 = .125" (3.18 mm.) 2 = .250" (6.35 mm.)
Polarizing Position (Table 2)	A B C D E F

No. of Contacts	#20HD	#22HD	Arr.	Shell Size
3	●		8-3	8
4		●	8-4	8
5	●		9-5	9
7		●	8-7	8
8	●		10-8	10
10	●		11-10	11
11		●	9-11	9
15		●	10-15	10
15	●		12-15	12
19		●	11-19	11
20	●		14-20	14
26		●	12-26	12
31	●		16-31	16
39		●	14-39	14
41	●		18-41	18
55	●		20-55	20
60		●	16-60	16
69	●		22-69	22
85		●	18-85	18
92	●		24-92	24
110		●	20-110	20
140	●		22-140	22
186		●	24-186	24

Position	A°	B°	C°	D°
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

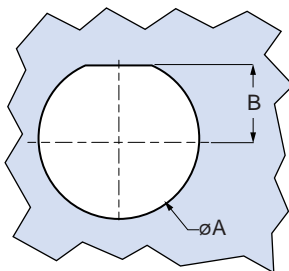




806-021 Receptacle Dimensions

Shell Size	$\varnothing A$ Max		B Thread	C Max		D		E Max		F Mating Thread
	In.	mm.		In.	mm.	In.	mm.	In.	mm.	
8	.980	24.69	M15x1.0-6g-0.100R	.920	23.37	.534	13.56	.100	2.54	.5000-.067P-2L-TS-2A
9	1.040	26.42	M16x1.0-6g-0.100R	.980	24.89	.579	14.71	.100	2.54	.5625-.067P-2L-TS-2A
10	1.110	28.19	M18x1.0-6g-0.100R	1.050	26.67	.679	17.25	.100	2.54	.6250-.067P-2L-TS-2A
11	1.160	29.46	M19x1.0-6g-0.100R	1.110	28.19	.734	18.64	.100	2.54	.6875-.067P-2L-TS-2A
12	1.230	31.24	M21x1.0-6g-0.100R	1.170	29.72	.804	20.42	.100	2.54	.7500-.067P-2L-TS-2A
14	1.360	34.54	M24x1.0-6g-0.100R	1.320	33.53	.891	22.63	.100	2.54	.8750-.067P-2L-TS-2A
16	1.515	38.48	M27x1.0-6g-0.100R	1.444	36.68	1.049	26.64	.100	2.54	1.0000-.067P-2L-TS-2A
18	1.610	40.89	M30x1.0-6g-0.100R	1.570	39.88	1.148	29.16	.100	2.54	1.1250-.067P-2L-TS-2A
20	1.850	46.99	M34x1.0-6g-0.100R	1.760	44.70	1.252	31.80	.128	3.25	1.2500-.067P-2L-TS-2A
22	2.010	51.05	M37x1.0-6g-0.100R	1.913	48.59	1.369	34.77	.128	3.25	1.3750-.067P-2L-TS-2A
24	2.195	55.75	M41x1.0-6g-0.100R	2.070	52.58	1.509	38.33	.128	3.25	1.5000-.067P-2L-TS-2A

806-021 Jam Nut D-Hole Dimensions



Shell Size	$\varnothing A$		B	
	In.	mm.	In.	mm.
8	+0.005/-0.00	+0.13/-0.00	.256	6.50
9	.640	16.26	.287	7.29
10	.719	18.26	.318	8.08
11	.759	19.28	.350	8.89
12	.837	21.26	.381	9.67
14	.955	24.26	.443	11.25
16	1.073	27.25	.505	12.83
18	1.192	30.28	.568	14.43
20	1.349	34.26	.630	16.00
22	1.467	37.26	.693	17.60
24	1.624	41.25	.755	19.18