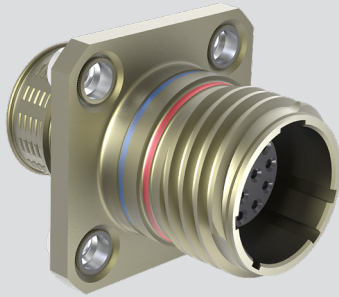


# Series 806 Mil-Aero Connectors

## 806-013 Square Flange Receptacle Connectors



### Features

- Triple-start stub ACME mating thread
- High density #20HD and #22HD arrangements for reduced size and weight plus #16, #12, and #8 arrangements and combo layouts
- Aerospace-grade materials, construction
- Snap-in crimp contacts

### Specifications

- Operating temperature:  
Finishes ME, MT, Z1: -65°C to +200°C  
Finishes NF, ZR: -65°C to +175°C
- Dielectric withstanding voltage  
#20HD contacts: 1800 VAC  
#22HD contacts: 1300 VAC  
#16 contacts: varies; contact factory  
#12 contacts: varies; contact factory  
#8 contacts: varies; contact factory
- 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

### Connector Construction

- Shell: aluminum or stainless steel
- Contacts: copper alloy, gold plating
- Wire grommet: blue fluorosilicone
- Dielectric inserts: high grade rigid dielectric
- Peripheral seal: blue fluorosilicone
- Contact retention clips: copper alloy
- Clinch nuts: stainless steel, passivated
- Retainer rings: stainless steel, passivated

806-013 Square flange environmental receptacles save size and weight compared to conventional aerospace-grade connectors. Series 806 high-performance connectors are intended for use in harsh environmental areas such as unpressurized aircraft zones subject to vibration, moisture, altitude, and temperature extremes. Choose integral band platform or metric accessory thread shells. Insert arrangements support size #22HD, #20HD, #16, #12, and #8 snap-in, rear-release contacts.

How To Order	
SAMPLE PART NUMBER	806-013 -MT 12-26 P B T A
Product	806-013 = Square Flange, Crimp
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
Shell Size - Insert Arrangement	See Table 1
Contact Type	P = Pin A = Pin connector, less contacts S = Socket B = Socket connector, less contacts For datalink contacts (including El Ochoito) order connector without contacts and order datalink contacts separately
Shell Style	M = Metric accessory threads B = Nano Band platform
Mounting Hole Style	T = Thru holes C = Clinch nut, #4-40, rear panel mount; consult factory for SST material
Polarization	A B C D E F

**Table I: Shell Size - Insert Arrangement**

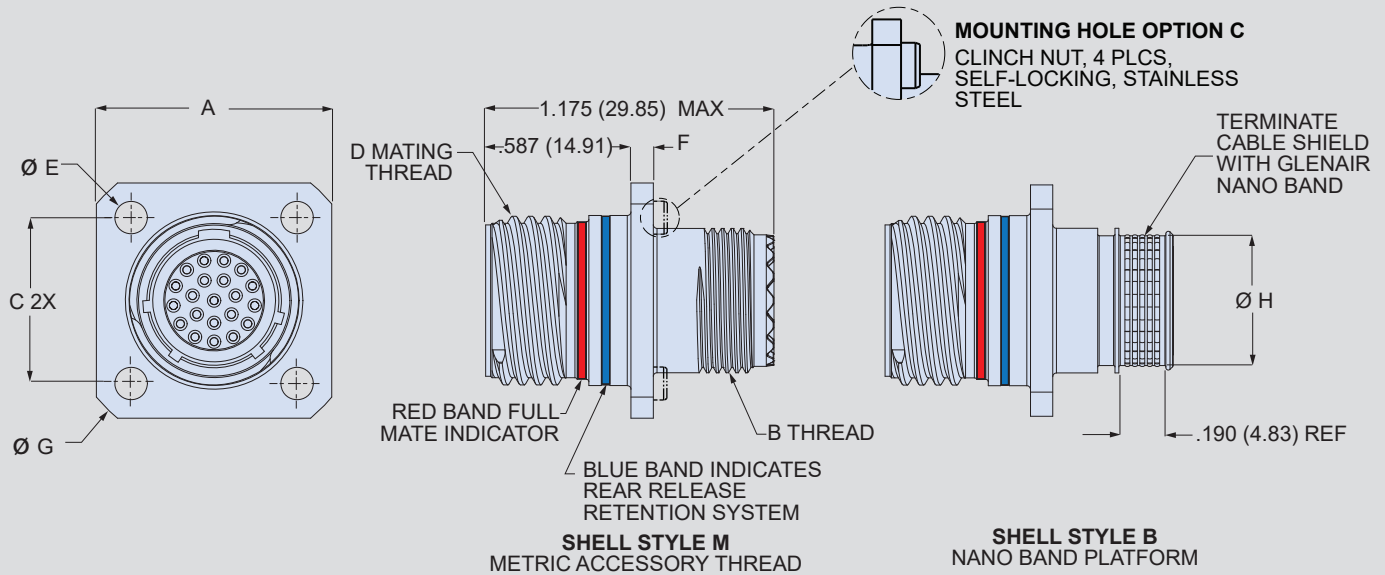
Contact Layout	Number of Contacts					Contact Layout	Number of Contacts					Contact Layout	Number of Contacts				
	22HD	20HD	16	12	8		22HD	20HD	16	12	8		22HD	20HD	16	12	8
7-3	3					22-69		69			18-3					3	
8-4	4					24-92		92			20-4					4	
8-7	7					8-1		1			22-5					5	
9-11	11					10-2		2			24-8					8	
10-15	15					11-4		4			10-8A	6		2			
11-19	19					12-5		5			11-13	11		2			
12-26	26					14-7		7			12-27	26		1			
14-39	39					16-12		12			14-21	17		4			
16-60	60					18-15		15			16-41	37		4			
18-85	85					20-22		22			18-59	55		4			
20-110	110					22-24		24			11-14	13			1		
22-140	140					24-35		35			12-14	12			2		
24-186	186					9-1			1		14-22	20			2		
8-3		3				12-2			2		16-32	28			4		
9-5		5				14-3			3		16-42	40			2		
10-8		8				16-4			4		18-62	60			2		
11-10		10				16-7			7		14-20A	19				1	
12-15		15				18-8			8		16-22	20				2	
14-20		20				20-11			11		18-21	18				3	
16-31		31				22-13			13		20-28	24				4	
18-41		41				24-19			19		22-44	40				4	
20-55		55				10-1				1	24-97	93				4	
						16-2				2							

# ENVIRONMENTAL, MICRO MINIATURE CIRCULAR

## Series 806

### Mil-Aero Connectors

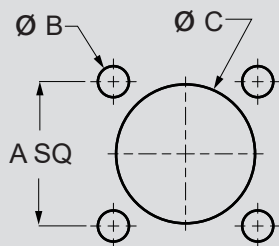
#### 806-013 Square Flange Receptacle Connectors



**806-013 Receptacle Dimensions**

Shell Size	A Max	B Thread	C	D Mating Thread	ØE	F Max	G Max	H
7	.750 (19.05)	M8x1.0-6g-0.100R	.469 (11.91)	.4375-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	.968 (24.59)	.265 (6.73)
8	.822 (20.88)	M10x1.0-6g-0.100R	.531 (13.49)	.5000-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.040 (26.42)	.327 (8.31)
9	.885 (22.48)	M12x1.0-6g-0.100R	.594 (15.09)	.5625-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.130 (28.70)	.406 (10.31)
10	.913 (23.19)	M14x1.0-6g-0.100R	.625 (15.88)	.6250-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.174 (29.82)	.484 (12.29)
11	.944 (23.98)	M15x1.0-6g-0.100R	.670 (17.02)	.6875-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.200 (30.48)	.524 (13.31)
12	1.040 (26.42)	M17x1.0-6g-0.100R	.765 (19.43)	.7500-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.354 (34.39)	.603 (15.32)
14	1.133 (28.78)	M19x1.0-6g-0.100R	.859 (21.82)	.8750-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.510 (38.35)	.681 (17.30)
16	1.227 (31.17)	M22x1.0-6g-0.100R	.938 (23.83)	1.0000-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.620 (41.15)	.782 (19.86)
18	1.320 (33.53)	M25x1.0-6g-0.100R	1.016 (25.81)	1.1250-.067P-.2L-TS-2A	.128 (3.25)	.100 (2.54)	1.784 (45.31)	.899 (22.83)
20	1.444 (36.68)	M28x1.0-6g-0.100R	1.109 (28.17)	1.2500-.067P-.2L-TS-2A	.154 (3.91)	.125 (3.18)	1.910 (48.51)	1.043 (26.49)
22	1.570 (39.88)	M31x1.0-6g-0.100R	1.203 (30.56)	1.3750-.067P-.2L-TS-2A	.154 (3.91)	.125 (3.18)	2.083 (52.91)	1.155 (29.34)
24	1.696 (43.08)	M34x1.0-6g-0.100R	1.312 (33.32)	1.5000-.067P-.2L-TS-2A	.154 (3.91)	.125 (3.18)	2.200 (55.88)	1.273 (32.33)

**806-013 Panel Cutout Dimensions**



Shell Size	A SQ	ØB with Clinch Nut	ØB without Clinch Nut	ØC
7	.469 (11.91)	.128 (3.25)	.128 (3.25)	.443 (11.25)
8	.531 (13.49)	.128 (3.25)	.128 (3.25)	.505 (12.83)
9	.594 (15.09)	.128 (3.25)	.128 (3.25)	.572 (14.53)
10	.625 (15.88)	.128 (3.25)	.128 (3.25)	.640 (16.26)
11	.670 (17.02)	.128 (3.25)	.128 (3.25)	.707 (17.96)
12	.765 (19.43)	.128 (3.25)	.128 (3.25)	.762 (19.35)
14	.859 (21.82)	.128 (3.25)	.128 (3.25)	.885 (22.48)
16	.938 (23.83)	.128 (3.25)	.128 (3.25)	1.010 (25.65)
18	1.016 (25.81)	.128 (3.25)	.128 (3.25)	1.120 (28.45)
20	1.109 (28.17)	.128 (3.25)	.154 (3.91)	1.270 (32.26)
22	1.203 (30.56)	.128 (3.25)	.154 (3.91)	1.395 (35.43)
24	1.312 (33.32)	.128 (3.25)	.154 (3.91)	1.520 (38.61)