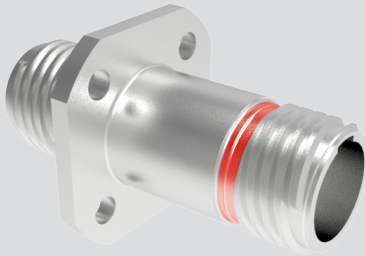


ENVIRONMENTAL, MICRO MINIATURE CIRCULAR Series 806 Mil-Aero Connectors



806-029 Flange Receptacle, Bulkhead Feed-Thru



806-029 Bulkhead feed-thrus eliminate the need to permanently fix cable harnesses to panels — affording increased system flexibility, superior mechanical integrity, and greater serviceability. Environmental versions offer IP67 level sealing.

Features

- Power to a given contact on one end will result in power to contact directly opposite, regardless of identification letter.
- Electrical safety limits must be established by user. Peak voltage, switching surge, transient, ect. Should be used to determine to safe application.
- 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

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 - AL alloy or CRES / see Table II.
- Insulators - High grade rigid dielectirc.
- Interfacial seal, grommet - fluorosilicone blend
- Contact - copper alloy / gold plate per mil-g-45204, Type II, Grade C, Class 5 (.000050 Inch) over a minimum of .000050 Inch nickel plating.

How To Order								
SAMPLE PART NUMBER	806-029	-ME	8	-7	P	C	A	-01
Product	806-029 = Square Mount Receptacle, Bulkhead Feed -Thru							
Finish Symbol	See Table III							
Shell Size	See Table II							
Insert Arrangement	See Table II; adjust table numbering as needed							
Contact Style	See Table IV							
Panel Mounting Hole Style	C = Clinch Nut, 4-40 THD M45938/6-4C (For Rear Panel Mounting Only) T = Thru Hole							
Alternate Keyway Polarization Code	A B C D E F							
Panel Accommodation	(See Table VI) -01 = .0625/.125 THK -02 = .0625/.250 THK -03 = .0625/.500 THK							

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						

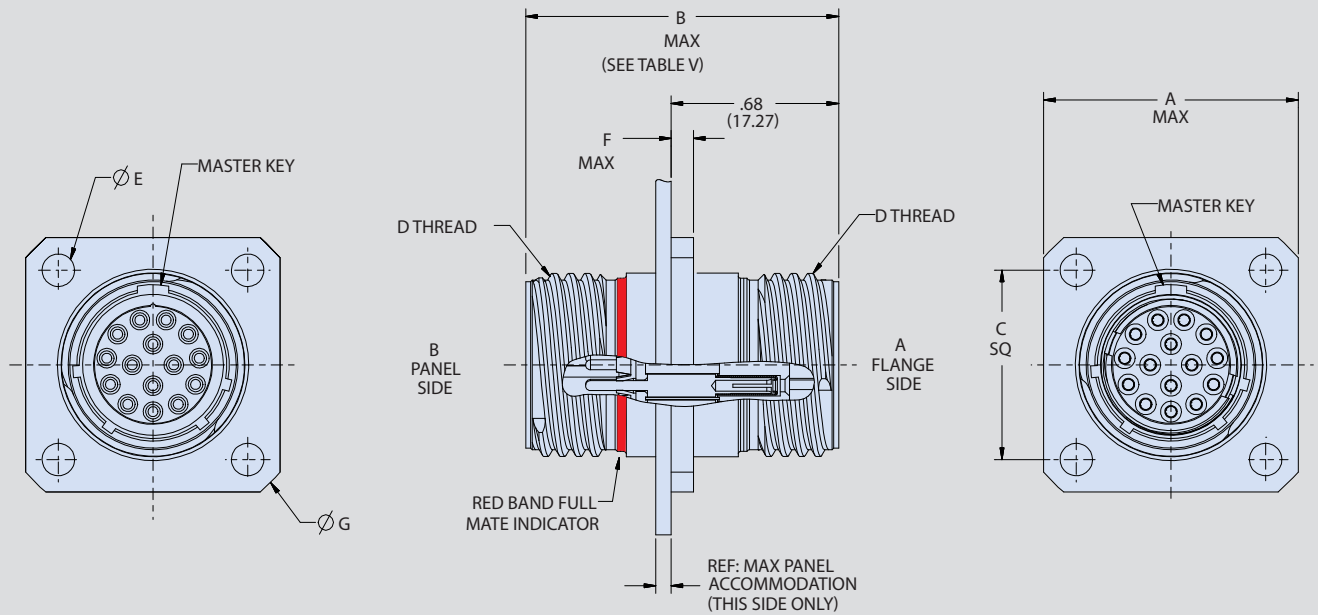
ENVIRONMENTAL, MICRO MINIATURE CIRCULAR

Series 806

Mil-Aero Connectors



806-029 Flange Receptacle, Bulkhead Feed-Thru



CONTACT STYLE "P" SHOWN

Table II

Shell size	A Max	C	D Mating Thread	ϕE Thru Hole	F Max	G Max
8	0.822 (20.88)	0.531 (13.49)	.5000-.067P-.2L-TS-2A	0.128 (3.25)	0.100 (2.54)	1.040 (26.42)
9	0.885 (22.48)	0.594 (15.09)	.5625-.067P-.2L-TS-2A			1.130 (28.70)
10	0.913 (23.19)	0.625 (15.88)	.6250-.067P-.2L-TS-2A			1.174 (29.82)
11	0.960 (24.38)	0.670 (17.02)	.6875-.067P-.2L-TS-2A			1.200 (30.48)
12	1.040 (26.42)	0.765 (19.43)	.7500-.067P-.2L-TS-2A			1.354 (34.39)
14	1.133 (28.78)	0.859 (21.82)	.8750-.067P-.2L-TS-2A			1.510 (38.35)
16	1.227 (31.17)	0.938 (23.83)	1.0000-.067P-.2L-TS-2A			1.620 (41.15)
18	1.320 (33.53)	1.016 (25.81)	1.1250-.067P-.2L-TS-2A			1.784 (45.31)
20	1.444 (36.68)	1.109 (28.17)	1.2500-.067P-.2L-TS-2A			1.910 (48.51)
22	1.570 (39.88)	1.203 (30.56)	1.3750-.067P-.2L-TS-2A			0.154 (3.91)
24	1.696 (43.08)	1.312 (33.32)	1.5000-.067P-.2L-TS-2A			2.200 (55.88)

PANEL MOUNT INFO

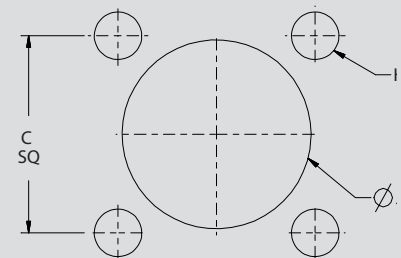


Table III

Code	Material	Finish
NF	Aluminum Alloy	Cad/Olive Drab Over Electroless Nickel
MT		Nickel-PTFE
ME		Electroless Nickel
ZR		Zinc Nickel, Black
Z1	Stainless Steel	Passivated
ZL		Electro-Deposited Nickel

Table IV

Contact Style	Description 6
P	Pin Contact On Panel Side (Socket Opposite)
S	Socket Contact On Panel Side (Pin Opposite)
PP	Pins On Both Sides
SS	Socket On Both Sides

Table V

Panel Accommodation	B Max
-01	1.29 (32.77)
-02	1.40 (35.56)
-03	1.65 (41.91)

Mount Info Table VI

Size	ϕJ	H	
		With Clinch Nut	Without Clinch Nut
8	.505 (12.83)	.128 (3.25)	
9	.572 (14.53)		
10	.640 (16.26)		
11	.707 (17.96)		
12	.762 (19.35)		
14	.885 (22.48)		
16	1.01 (25.65)		
18	1.12 (28.45)		
20	1.27 (32.26)		
22	1.395 (35.43)		
24	1.520 (38.61)		