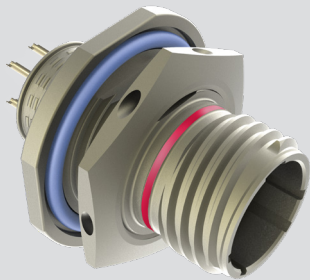


Series 806 Mil-Aero Connectors



240-806-07, 240-806-08 Receptacles, Jam-nut, Solder Cup or PC Tail



Ceramic planar array C and Pi filters. PC tail or solder cup contacts. 240-806 filtered receptacles strip line signals of unwanted RF or HRF noise. Suitable for areas subject to high vibration, altitude, and moisture. Operating temperature of -55°C to +125°C.

Features

- Ceramic planar filter array
- Solder cup or PC tail contacts
- High density #20HD and #22HD arrangements for reduced size and weight plus size #16, #12, #8 standard and hybrid layouts
- Aerospace-grade materials, construction

Specifications

- Operating temperature: -55°C to +125°C
- Dielectric withstanding voltage: 300 VDC
- Current rating
 - #20HD contacts: 5 A max.
 - #22HD contacts: 3 A max.
 - #16 contacts: contact factory
 - #12 contacts: contact factory
 - #8 contacts: contact factory
- Mating durability: 500 cycles

Connector Construction

- Shell, jam-nut: aluminum or stainless steel
- Contacts: copper alloy, gold plated
- Seals: fluorosilicone
- Insulator: high grade rigid dielectric

Table 2 Capacitance Class		
Class	Capacitance Range (pF)	
	Filter Type	
	P (Pi-Section)	C, L, M (C, L-C, C-L)
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300
J	70 - 120	35 - 60

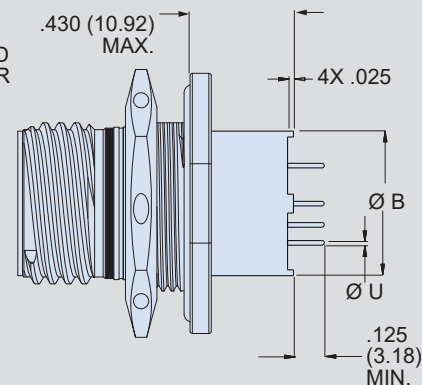
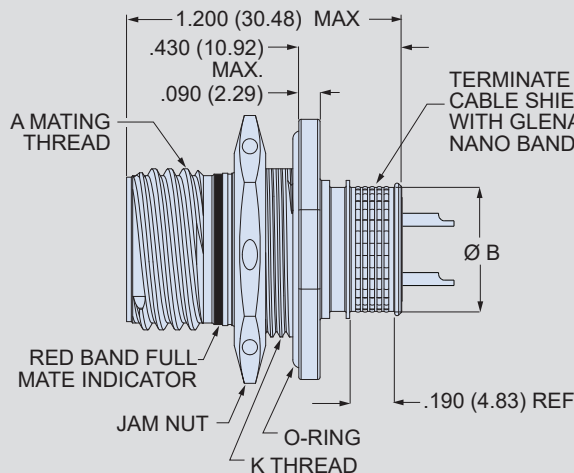
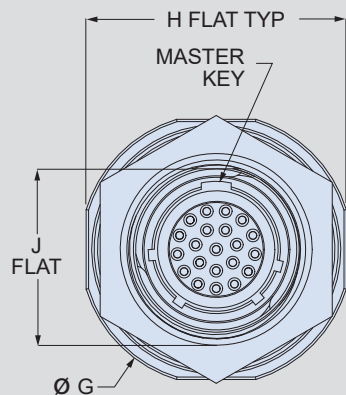
How To Order									
SAMPLE PART NUMBER	240-806	-07	ME	8-7	PS	C	B	A	
Product	240-806 = Filtered Receptacle								
Mounting Type	07 = Jam-nut with Solder Cup Contacts and NanoBand Platform 08 = Jam-nut with PC Tail Contacts*								
Shell Material and Finish	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated								
Arrangement Number	See Table 1 (Shell Size - Insert Arr.)								
Contact Type	PP = Pin, PC Tail (mounting type 08 only) PS = Pin, Solder Cup (mounting type 07 only) SP = Socket, PC Tail (mounting type 08 only) SS = Socket, Solder Cup (mounting type 07 only)								
Filter Type (Table 3)	P = Pi Filter C = C Filter L = L - C Filter M = C - L Filter								
Capacitance Class (Table 2)	A B C D E F G J								
Polarizing Position	A B C D E F								

* PC-tail contact versions are parylene-compatible

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

Series 806 Mil-Aero Connectors

240-806-07, 240-806-08 Receptacles, Jam-nut, Solder Cup or PC Tail



Contact Size	øU	
	± .002 (0.05)	
	In.	mm.
#20	.026	0.66
#22	.020	0.51

SHELL STYLE 07
JAM NUT RECEPTACLE
NANOBAND PLATFORM, SOLDER CUP CONTACTS

SHELL STYLE 08
JAM NUT RECEPTACLE
PCB CONTACTS

240-806 Receptacle Dimensions						
Shell Size	A Mating Thread	øB	øG Max	H Max	J Flat	K Thd x1.0-6g-0.100R
7	.4375-.067P-.2L-TS-2A	.365 (9.27)	.908 (23.06)	.848 (21.54)	.463 (11.76)	M13
8	.5000-.067P-.2L-TS-2A	.424 (10.77)	.980 (24.89)	.920 (23.37)	.536 (13.61)	M15
9	.5625-.067P-.2L-TS-2A	.464 (11.79)	1.040 (26.42)	.980 (24.89)	.587 (14.91)	M16
10	.6250-.067P-.2L-TS-2A	.584 (14.83)	1.110 (28.19)	1.050 (26.67)	.658 (16.71)	M18
11	.6875-.067P-.2L-TS-2A	.619 (15.72)	1.160 (29.46)	1.110 (28.19)	.709 (18.01)	M19
12	.7500-.067P-.2L-TS-2A	.699 (17.75)	1.230 (31.24)	1.170 (29.72)	.779 (19.79)	M21
14	.8750-.067P-.2L-TS-2A	.784 (19.91)	1.360 (34.54)	1.320 (33.53)	.900 (22.86)	M24
16	1.0000-.067P-.2L-TS-2A	.919 (23.34)	1.515 (38.48)	1.444 (36.68)	1.022 (25.96)	M27
18	1.1250-.067P-.2L-TS-2A	1.014 (25.76)	1.610 (40.89)	1.570 (39.88)	1.144 (29.06)	M30
20	1.2500-.067P-.2L-TS-2A	1.150 (29.21)	1.850 (46.99)	1.760 (44.70)	1.285 (32.64)	M34
22	1.3750-.067P-.2L-TS-2A	1.254 (31.85)	2.010 (51.05)	1.913 (48.59)	1.406 (35.71)	M37
24	1.5000-.067P-.2L-TS-2A	1.394 (35.41)	2.195 (55.75)	2.070 (52.58)	1.547 (39.29)	M41

Table 3 Filter Types	
C	Single capacitor with low self inductance
Pi	Dual capacitors with a single inductive element positioned between
L-C	Single capacitor and an inductive element
C-L	Single capacitor and an inductive element

240-806 Jam-nut D-Hole Dimensions			
Shell Size	øA	B	
		+0.005/-0.00 (+0.13/-0.00)	+0.005/-0.00 (+0.13/-0.00)
7	.522 (13.26)	.224 (5.69)	
8	.601 (15.27)	.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 (9.68)	
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)	

