

SuperNine® Lightweight hermetic

MIL-DTL-38999 Series III Type

233-251 Jam-nut mount, bulkhead feed-thru



HERMETIC CONNECTORS

Part Number Development									
Sample Part Number	233-251-07	ME	17	-8	P	N	S	N	-02
Series / Basic Part No.	Series 23 SuperNine jam-nut CODE RED hermetic receptacle								
Material/Finish*	ME = Aluminum alloy 6061-T6, electroless nickel								
Shell Size*	Per MIL-DTL-38999 Series III								
Insert Arrangement*	Per MIL-STD-1560								
Contact Style (Panel Side)	P = Pin, gold, 500 cycles S = Socket, gold, 500 cycles								
Polarization* (Panel Side)	A, B, C, D, E, N = Normal; see section A for key position details								
Contact Style (Flange Side)	P = Pin, gold, 500 cycles S = Socket, gold, 500 cycles								
Polarization* (Flange Side)	A, B, C, D, E, N = Normal; see section A for key position details								
Panel Accommodation	02; See panel accommodation table for details								

*Refer to Section A for complete details, consult factory for additional options
Modification codes may be added directly to the end of any valid part number

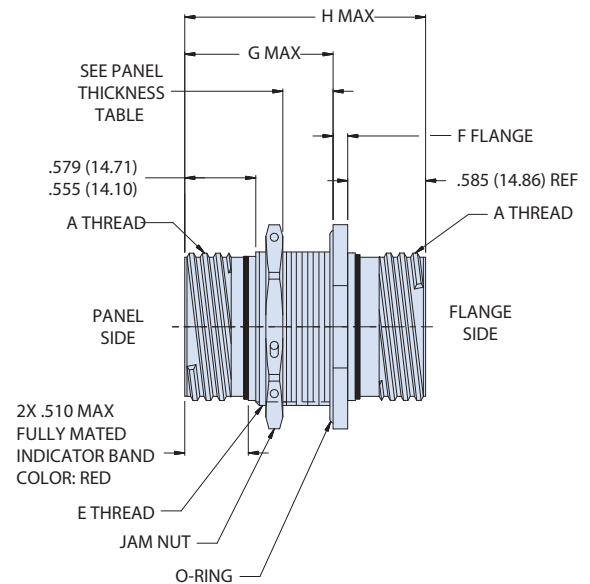
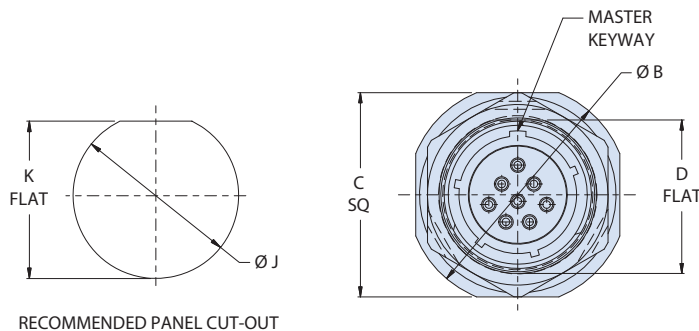
Dimensions							
Shell Size Code	Shell Size	A Thread 0.1P-0.3L-TS-2A	ØB	C Sq	D Flat	E Thread ISO Metric	F
A	9	.6250	1.200 (30.48) 1.178 (29.92)	1.078 (27.38) 1.048 (26.62)	.654 (16.61) .645 (16.38)	M17 X 1.0-6g	.122 (3.10) .083 (2.11)
B	11	.7500	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	.755 (19.18) .745 (18.92)	M20 X 1.0-6g	
C	13	.8750	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	.942 (23.93) .932 (23.67)	M25 X 1.0-6g	
D	15	1.0000	1.638 (41.61) 1.614 (41.00)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	M28 X 1.0-6g	
E	17	1.1875	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 (30.25) 1.181 (30.00)	M32 X 1.0-6g	
F	19	1.2500	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35 X 1.0-6g	.153 (3.89) .114 (2.90)
G	21	1.3750	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38 X 1.0-6g	
H	23	1.5000	2.201 (55.91) 2.177 (55.30)	2.079 (52.81) 2.047 (51.99)	1.566 (39.78) 1.556 (39.52)	M41 X 1.0-6g	
J	25	1.6250	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44 X 1.0-6g	

Panel Accommodation			
Sym	Panel Thickness	G Max	H Max
02	.250 (6.35) .062 (1.57)	1.090 (27.69)	1.78 (45.21)

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Panel Cut-out Dimensions

Shell Size Code	Shell Size	ØJ	K Flat
A	9	.703 (17.86) .693 (17.60)	.661 (16.79) .654 (16.61)
B	11	.835 (21.21) .825 (20.96)	.771 (19.58) .761 (19.33)
C	13	1.020 (25.91) 1.010 (25.65)	.955 (24.26) .945 (24.00)
D	15	1.145 (29.08) 1.135 (28.83)	1.085 (27.56) 1.075 (27.30)
E	17	1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.200 (30.48)
F	19	1.395 (35.43) 1.385 (35.18)	1.335 (33.91) 1.325 (33.65)
G	21	1.520 (38.61) 1.510 (38.35)	1.460 (37.08) 1.450 (36.83)
H	23	1.645 (41.78) 1.635 (41.53)	1.585 (40.26) 1.575 (40.00)
J	25	1.770 (44.96) 1.760 (44.70)	1.710 (43.43) 1.700 (43.18)

NOTES

- Connector is designed to meet all applicable mechanical dimensional, electrical, and environmental and sealing requirements of MIL-DTL-38999, D38999/23, and MIL-STD-1560 except as shown and/or noted. Insert arrangement in accordance with MIL-STD-1560. Contact manufacturer for available arrangement options
- For pin/pin configuration, symmetrical layout only. Consult factory for available insert arrangements and for availability of socket/socket configuration
- Power to a given contact on one end will result in power to a contact directly opposite, regardless of identification letter
- Electrical safety limits must be established by user. Peak voltage switching surge, transient, etc should be used to determine the safety application
- Sealing compound employed has been tested and meets applicable requirements of MIL-DTL-38999/23 class N and Y. See Glenair test report GT-16-223

6. Performance

- Operation temperature Range: -65°C to +200°C
- Leak Rate: 1×10^{-7} cc/s max helium, 1 ATM
- IR: 5,000 megohms min at room temperature per MIL-DTL-38999
- DWV: see service rating per applicable MIL-STD-1560 arrangements
- Dimensions shown comply with applicable MIL-DTL-38999/23

Material/Finish

- Shell and jam-nut: aluminum alloy 6061-T6/nickel plate per D38999 series III, Class F
- Insulators: high grade rigid dielectric/N.A.
- O-ring and Seals: fluorosilicone/N.A.
- Contacts: copper alloy/gold plated
- sealing compound: silicone base polymer

Mouser Electronics

Authorized Distributor

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