

MIL-DTL-38999 Series III Type

233-250 Wall mount or jam-nut receptacle, PC tails or solder cup

CODE RED HERMETIC CONNECTORS

Part Number Development									
Sample Part Number	233-250			-00	ME	17	-35	P	N
Series / Basic Part No.	Series 23 SuperNine jam-nut mount CODE RED hermetic receptacle								
Connector Style	00 = Receptacle, wall mount with slotted holes D0 = Receptacle, wall mount with round holes Omit = Receptacle, jam nut mount								
Material/Finish	AB = Marine Bronze, None (Clean Only), -65°C to +200°C MA = Aluminum Alloy, Electroless Nickel, Matte Finish, -65°C to +200°C ME = Aluminum Alloy, Electroless Nickel, -65°C to +200°C NF = Aluminum Alloy, Cad/O.D. Over Electroless Nickel, -65°C to +175°C ZN = Aluminum Alloy, Zinc Ni, Olive Drab, -65°C to +175°C ZR = Aluminum Alloy, Zinc Ni, Black (Tri-Valent CR), -65°C to +175°C								
Shell Size	Per MIL-DTL-38999 Series III								
Insert Arrangement	Per MIL-STD-1560								
Contact Style	C = Pin, PC tail P = Pin, solder cup			D = Socket, PC tail S = Socket, solder cup					
Alternate Polarization	A, B, C, D, E, N = Normal; see section A for key position details								

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

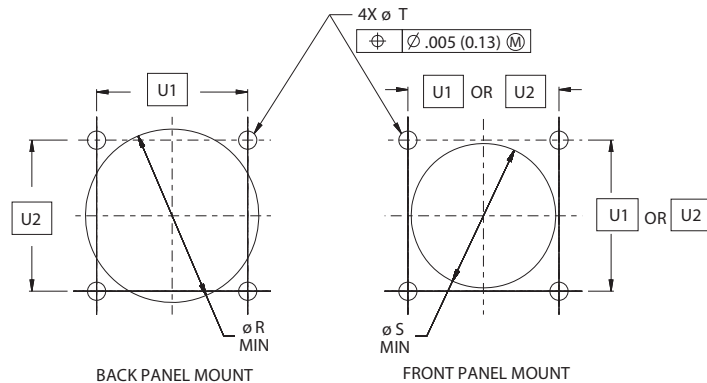
NOTES

- Glenair environmental connectors are designed to mate with any QPL manufacturer's MIL-DTL-38999, series III mating plug having the same shell size, insert arrangement, opposite contact gender and polarization.
- Connectors meet all applicable dimensions, mechanical, electrical, environmental and sealing requirements of MIL-DTL-38999/23, PC tails.
- Performance
 - Operation temperature range: -65°C to +200°C
 - Leak Rate: 1 x 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

Material/Finish

- Shell and jam-nuts: see Material/Finish in Part Number Development
- Insulators: high grade rigid dielectric
- O-ring and Seals: fluorosilicone
- Contacts: copper alloy/gold plated
- Sealing compound: polymer encapsulant

WALL MOUNT PANEL CUTOUTS



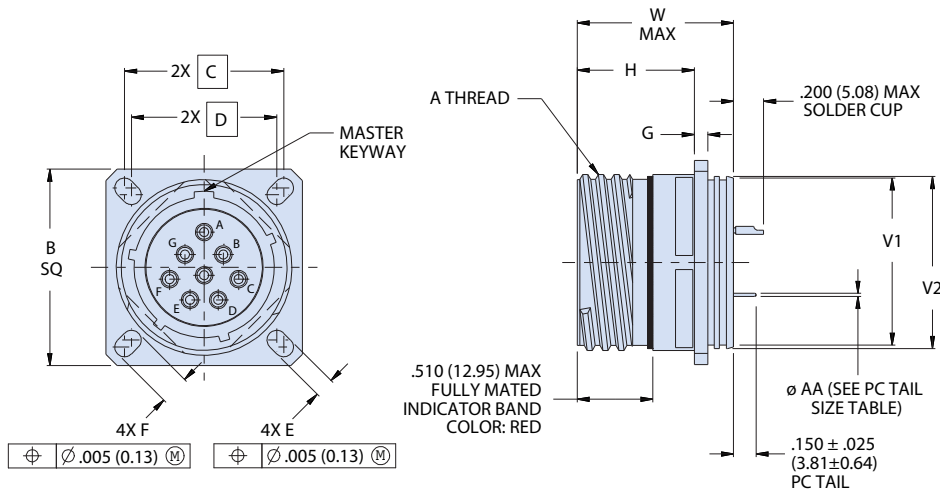
Recommended Mounting Holes for Wall and Box Mount Receptacles						
Shell Size Code	Shell Size	ø R Min	ø S Min	ø T Holes	U1 BSC	U2 BSC
A	09	0.656 (16.66)	0.516 (13.11)	0.133 (3.38) 0.123 (3.12)	0.719 (18.26)	0.594 (15.09)
B	11	0.796 (20.22)	0.625 (15.88)		0.812 (20.62)	0.719 (18.26)
C	13	0.922 (23.42)	0.750 (19.05)		0.906 (23.01)	0.812 (20.62)
D	15	1.047 (26.59)	0.906 (23.01)		0.969 (24.61)	0.906 (23.01)
E	17	1.219 (30.96)	1.016 (25.81)		1.062 (26.97)	0.969 (24.61)
F	19	1.297 (32.94)	1.141 (28.98)		1.156 (29.36)	1.062 (26.97)
G	21	1.422 (36.12)	1.266 (32.16)		1.250 (31.75)	1.156 (29.36)
H	23	1.547 (39.29)	1.375 (34.92)	0.159 (4.04) 0.149 (3.78)	1.375 (34.92)	1.250 (31.75)
J	25	1.672 (42.47)	1.484 (37.69)	0.155 (3.94) 0.145 (3.68)	1.500 (38.10)	1.375 (34.92)

MIL-DTL-38999 Series III Type

233-250 Wall mount or jam-nut receptacle, PC tails or solder cup

CODE RED HERMETIC CONNECTORS

233-250-00 WALL MOUNT RECEPTACLE WITH SLOTTED HOLES



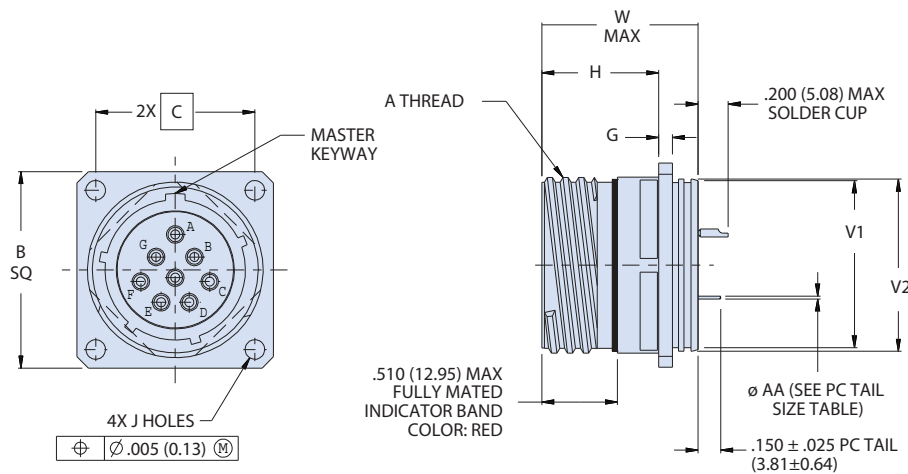
PC Tail Size	
Contact Size	øAA
22D	.020 (0.51) .018 (0.46)
20	.030 (0.76) .028 (0.71)
16	.040 (1.02) .038 (0.97)
12	.072 (1.83) .070 (1.78)

Dimensions													
Shell Size Code	Shell Size	A Thread	B SQ	C BSC	D BSC	E	F	G	H	øV1 ±.012	øV2 ±.012 - .000	W Max	
A	09	.6250-.1P-.3L-TS-2A	0.949 (24.10) 0.925 (23.50)	0.719 (18.26)	0.594 (15.09)	0.136 (3.45) 0.120 (3.05)	0.224 (5.69) 0.208 (5.28)	0.098 (2.49) 0.083 (2.11)	0.820 (20.83) 0.771 (19.58)	0.602 (15.29)	0.642 (16.31)	1.280 (32.51)	
B	11	.7500-.1P-.3L-TS-2A	1.043 (26.49) 1.019 (25.88)	.812 (20.62)	0.719 (18.26)		0.202 (5.13) 0.186 (4.72)			0.850 (21.59)	0.894 (22.71)		
C	13	.8750-.1P-.3L-TS-2A	1.138 (28.91) 1.114 (28.30)	.906 (23.01)	0.812 (20.62)		0.181 (4.60) 0.165 (4.19)			0.976 (24.79)	1.020 (25.91)		
D	15	1.0000-.1P-.3L-TS-2A	1.232 (31.29) 1.208 (30.68)	.969 (24.61)	0.906 (23.01)		0.202 (5.13) 0.186 (4.72)			1.102 (27.99)	1.142 (29.01)		
E	17	1.1875-.1P-.3L-TS-2A	1.323 (33.60) 1.299 (32.99)	1.062 (26.97)	0.969 (24.61)		0.126 (3.20) 0.083 (2.11)			0.790 (20.07) 0.741 (18.82)	1.350 (34.29)		1.394 (35.41)
F	19	1.2500-.1P-.3L-TS-2A	1.449 (36.80) 1.425 (36.20)	1.156 (29.36)	1.062 (26.97)						1.476 (37.49)		1.520 (38.61)
G	21	1.3750-.1P-.3L-TS-2A	1.575 (40.00) 1.551 (39.40)	1.250 (31.75)	1.156 (29.36)		0.146 (3.71)			0.250 (6.35) 0.234 (5.94)	1.602 (40.69)		1.642 (41.71)
H	23	1.5000-.1P-.3L-TS-2A	1.701 (43.21) 1.677 (42.60)	1.375 (34.92)	1.250 (31.75)	1.602 (40.69)		1.642 (41.71)					
J	25	1.6250-.1P-.3L-TS-2A	1.823 (46.30) 1.799 (45.69)	1.500 (38.10)	1.375 (34.92)								

MIL-DTL-38999 Series III Type

233-250 Wall mount or jam-nut receptacle, PC tails or solder cup

233-250-D0 WALL MOUNT RECEPTACLE WITH STANDARD HOLES



PC Tail Size	
Contact Size	øAA
22D	.020 (0.51) .018 (0.46)
20	.030 (0.76) .028 (0.71)
16	.040 (1.02) .038 (0.97)
12	.072 (1.83) .070 (1.78)

Dimensions										
Shell Size Code	Shell Size	A Thread	B SQ	C BSC	G	H	øJ Holes	øV1 ±.012	øV2 ±.012 -.000	W Max
A	09	.6250-.1P-.3L-TS-2A	0.949 (24.10) 0.925 (23.50)	0.719 (18.26)				0.602 (15.29)	0.642 (16.31)	1.280 (32.51)
B	11	.7500-.1P-.3L-TS-2A	1.043 (26.49) 1.019 (25.88)	.812 (20.62)				0.724 (18.39)	0.764 (19.41)	
C	13	.8750-.1P-.3L-TS-2A	1.138 (28.91) 1.114 (28.30)	.906 (23.01)	0.098 (2.49)	0.820 (20.83)	0.136 (3.45) 0.120 (3.05)	0.850 (21.59)	0.894 (22.71)	
D	15	1.0000-.1P-.3L-TS-2A	1.232 (31.29) 1.208 (30.68)	.969 (24.61)	0.083 (2.11)	0.771 (19.58)		0.976 (24.79)	1.020 (25.91)	
E	17	1.1875-.1P-.3L-TS-2A	1.323 (33.60) 1.299 (32.99)	1.062 (26.97)				1.102 (27.99)	1.142 (29.01)	
F	19	1.2500-.1P-.3L-TS-2A	1.449 (36.80) 1.425 (36.20)	1.156 (29.36)				1.228 (31.19)	1.268 (32.21)	
G	21	1.3750-.1P-.3L-TS-2A	1.575 (40.00) 1.551 (39.40)	1.250 (31.75)	0.126 (3.20)	0.790 (20.07)		1.350 (34.29)	1.394 (35.41)	
H	23	1.5000-.1P-.3L-TS-2A	1.701 (43.21) 1.677 (42.60)	1.375 (34.92)	0.083 (2.11)	0.741 (18.82)	0.162 (4.11)	1.476 (37.49)	1.520 (38.61)	
J	25	1.6250-.1P-.3L-TS-2A	1.823 (46.30) 1.799 (45.69)	1.500 (38.10)			0.146 (3.71)	1.602 (40.69)	1.642 (41.71)	

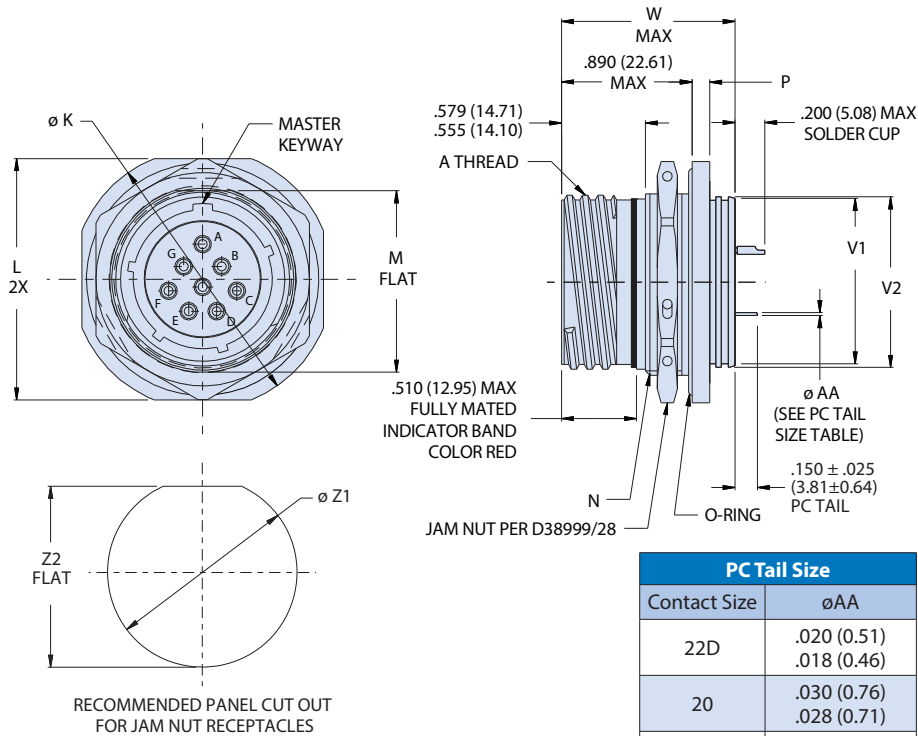
CODE RED HERMETIC CONNECTORS

MIL-DTL-38999 Series III Type

233-250 Jam-nut receptacle, PC tails or solder cup

CODE RED HERMETIC CONNECTORS

233-250 JAM NUT MOUNT RECEPTACLE



Panel Cut-Out Dimensions for Jam Nut Receptacles			
Shell Size Code	Shell Size	$\phi Z1$	Z2 Flat
A	09	0.703 (17.86) 0.693 (17.60)	0.661 (16.79) 0.654 (16.61)
B	11	0.835 (21.21) 0.825 (20.96)	0.771 (19.58) 0.761 (19.33)
C	13	1.020 (25.91) 1.010 (25.65)	0.955 (24.26) 0.945 (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)

PC Tail Size	
Contact Size	ϕAA
22D	.020 (0.51)
	.018 (0.46)
20	.030 (0.76)
	.028 (0.71)
16	.040 (1.02)
	.038 (0.97)
12	.072 (1.83)
	.070 (1.78)

Dimensions										
Shell Size Code	Shell Size	A Thread	ϕK	L	M Flat	N Thread	P	$\phi V1$ $\pm .012$	$\phi V2$ $\pm .012$ $-.000$	W Max
A	09	.6250-.1P-.3L-TS-2A	1.200 (30.48) 1.178 (29.92)	1.078 (27.38) 1.048 (26.62)	0.654 (16.61) 0.645 (16.38)	M17 X 1.0-6g 0.100R	.122 (3.10) .083 (2.11)	0.602 (15.29)	0.642 (16.31)	1.280 (32.51)
B	11	.7500-.1P-.3L-TS-2A	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	0.755 (19.18) 0.745 (18.92)	M20 X 1.0-6g 0.100R		0.724 (18.39)	0.764 (19.41)	
C	13	.8750-.1P-.3L-TS-2A	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	0.942 (23.93) 0.932 (23.67)	M25 X 1.0-6g 0.100R		0.850 (21.59)	0.894 (22.71)	
D	15	1.0000-.1P-.3L-TS-2A	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 0.100R		0.976 (24.79)	1.020 (25.91)	
E	17	1.1875-.1P-.3L-TS-2A	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 0.100R		1.102 (27.99)	1.142 (29.01)	
F	19	1.2500-.1P-.3L-TS-2A	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 0.100R	.153 (3.89) .114 (2.90)	1.228 (31.19)	1.268 (32.21)	
G	21	1.3750-.1P-.3L-TS-2A	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 0.100R		1.350 (34.29)	1.394 (35.41)	
H	23	1.5000-.1P-.3L-TS-2A	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 0.100R		1.476 (37.49)	1.520 (38.61)	
J	25	1.6250-.1P-.3L-TS-2A	2.323 (59.00)	2.205 (56.01)	1.691 (42.95)	M44 X 1.0-6g 0.100R		1.602 (40.69)	1.642 (41.71)	
			2.299 (58.39)	2.173 (55.19)	1.681 (42.70)					