

## MIL-DTL-38999 Series III Type

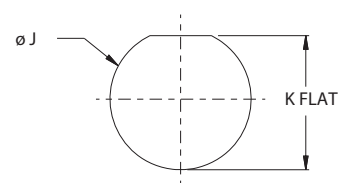
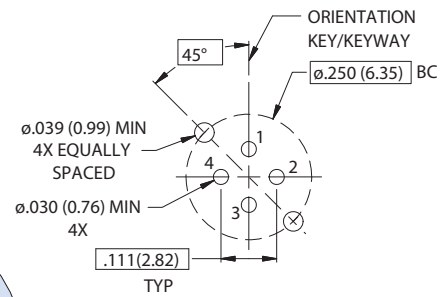
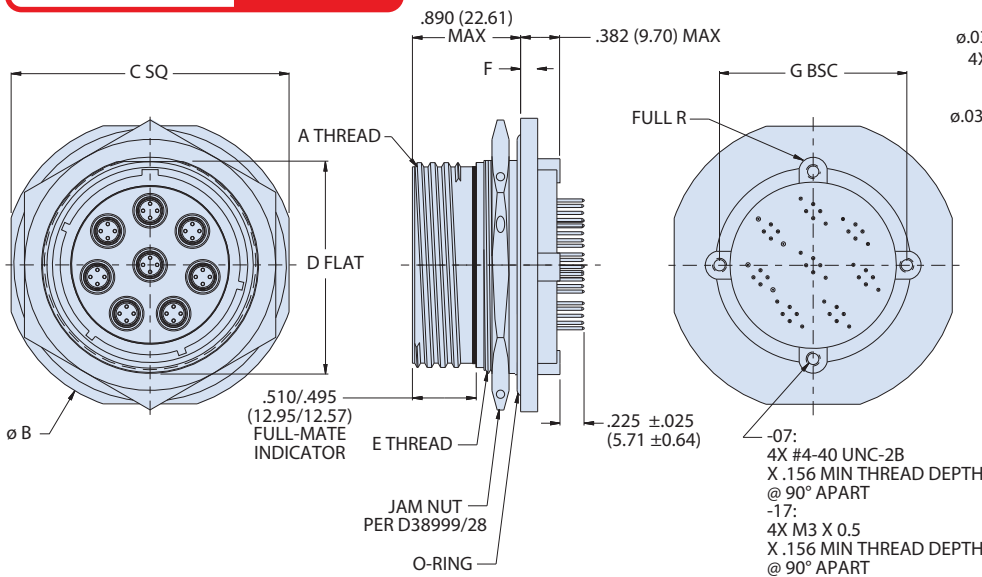
### 233-254 Jam-nut mount with PC tail Quadrax contacts

HERMETIC CONNECTORS

| Part Number Development |  |     |    |     |    |     |
|-------------------------|--|-----|----|-----|----|-----|
| Sample Part Number      | 233-254  | -07 | ME | 25Q | -8 | P N |
| Series / Basic Part No. | Series 23 SuperNine CODE RED hermetic connector  |     |    |     |    |     |
| Connector Style         | 07 = Receptacle, jam nut; standard standoff thread<br>17 = Receptacle, jam nut; metric standoff thread |     |    |     |    |     |
| Material/Finish*        | ME = Aluminum alloy 6061-T6, electroless nickel  |     |    |     |    |     |
| Shell Size (See Note 3) | Per MIL-DTL-38999 Series III   |     |    |     |    |     |
| Insert Arrangement*     | See optional high-speed arrangements   |     |    |     |    |     |
| Contact Style           | P = Pin, PC tail      S = Socket, PC tail  |     |    |     |    |     |
| 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  
Modification codes may be added directly to the end of any valid part number

**CODE RED**



**NOTES**

- Meets mechanical, dimensional, electrical, environmental and sealing requirements of MIL-DTL-38999, D38999/23, PC tails
- Connectors have been tested and meet applicable performance requirements of MIL-DTL-38999/23, series III, class N and Y. See Glenair test report GT-16-223
- Letter following shell size designates the contact type, Q = Quadrax, PC tail
- Contact manufacturer for available arrangement options
- Dimensions comply with applicable MIL-DTL-38999/23
- Performance
  - Operation temperature Range: -65°C to +200°C
  - Leak Rate: 1 x 10<sup>-7</sup> cc/s max helium, 1 ATM
- Electrical parameters (Quadrax)
  - Differential impedance: 100 ohms nominal
  - DWV: 500 VRMS
  - I.R.: 5000 megohms min 200 VDC at room temperature

**Material/Finish**

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

| Dimensions      |            |                        |                                |                                |                                |                                   |                            |               |
|-----------------|------------|------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|----------------------------|---------------|
| Shell Size Code | Shell Size | A Thread .1P-.3L-TS-2A | Ø B                            | C Sq                           | D Flat                         | E Thread ISO Metric 1.0-6g 0.100R | F                          | G Bsc         |
| A               | 9          | .6250                  | 1.200 (30.48)<br>1.178 (29.92) | 1.078 (27.38)<br>1.048 (26.62) | .654 (16.61)<br>.645 (16.38)   | M17                               | .122 (3.10)<br>.083 (2.11) | 0.594 (15.09) |
| B               | 11         | .7500                  | 1.386 (35.20)<br>1.362 (34.59) | 1.268 (32.21)<br>1.236 (31.39) | .755 (19.18)<br>.745 (18.92)   | M20                               |                            | 0.719 (18.26) |
| C               | 13         | .8750                  | 1.512 (38.40)<br>1.488 (37.80) | 1.390 (35.31)<br>1.358 (34.49) | .942 (23.93)<br>.932 (23.67)   | M25                               |                            | 0.812 (20.62) |
| D               | 15         | 1.0000                 | 1.638 (41.61)<br>1.614 (41.00) | 1.516 (38.51)<br>1.484 (37.69) | 1.066 (27.08)<br>1.056 (26.82) | M28                               |                            | 0.906 (23.01) |
| E               | 17         | 1.1875                 | 1.764 (44.81)<br>1.740 (44.20) | 1.642 (41.71)<br>1.610 (40.89) | 1.191 (30.25)<br>1.181 (30.00) | M32                               |                            | 1.030 (26.16) |
| F               | 19         | 1.2500                 | 1.949 (49.50)<br>1.925 (48.90) | 1.827 (46.41)<br>1.795 (45.59) | 1.316 (33.43)<br>1.306 (33.17) | M35                               | .153 (3.89)<br>.114 (2.90) | 1.150 (29.21) |
| G               | 21         | 1.3750                 | 2.075 (52.71)<br>2.051 (52.10) | 1.953 (49.61)<br>1.921 (48.79) | 1.441 (36.60)<br>1.431 (36.35) | M38                               |                            | 1.221 (31.01) |
| H               | 23         | 1.5000                 | 2.201 (55.91)<br>2.177 (55.30) | 2.079 (52.81)<br>2.047 (51.99) | 1.566 (39.78)<br>1.556 (39.52) | M41                               |                            | 1.360 (34.54) |
| J               | 25         | 1.6250                 | 2.323 (59.00)<br>2.299 (58.39) | 2.205 (56.01)<br>2.173 (55.19) | 1.691 (42.95)<br>1.681 (42.70) | M44                               |                            | 1.475 (37.47) |

| Panel Cut-Out Dimensions |            |                                |                                |
|--------------------------|------------|--------------------------------|--------------------------------|
| Shell Size Code          | Shell Size | Ø J                            | K Flat                         |
| A                        | 9          | .703 (17.86)<br>.693 (17.60)   | .661 (16.79)<br>.655 (16.64)   |
| B                        | 11         | .835 (21.21)<br>.825 (20.96)   | .771 (19.58)<br>.761 (19.33)   |
| C                        | 13         | 1.020 (25.91)<br>1.010 (25.65) | .955 (24.26)<br>.945 (24.00)   |
| D                        | 15         | 1.145 (29.08)<br>1.135 (28.83) | 1.085 (27.56)<br>1.075 (27.30) |
| E                        | 17         | 1.270 (32.26)<br>1.260 (32.00) | 1.210 (30.73)<br>1.200 (30.48) |
| F                        | 19         | 1.395 (35.43)<br>1.385 (35.18) | 1.335 (33.91)<br>1.325 (33.65) |
| G                        | 21         | 1.520 (38.61)<br>1.510 (38.35) | 1.460 (37.08)<br>1.450 (36.83) |
| H                        | 23         | 1.645 (41.78)<br>1.635 (41.53) | 1.585 (40.26)<br>1.575 (40.00) |
| J                        | 25         | 1.770 (44.96)<br>1.760 (44.70) | 1.710 (43.43)<br>1.700 (43.18) |

**OPTIONAL HIGH-SPEED QUADRAX INSERT ARRANGEMENTS**

