



# Sav-Con® connector savers

## MIL-DTL-83723 Series III

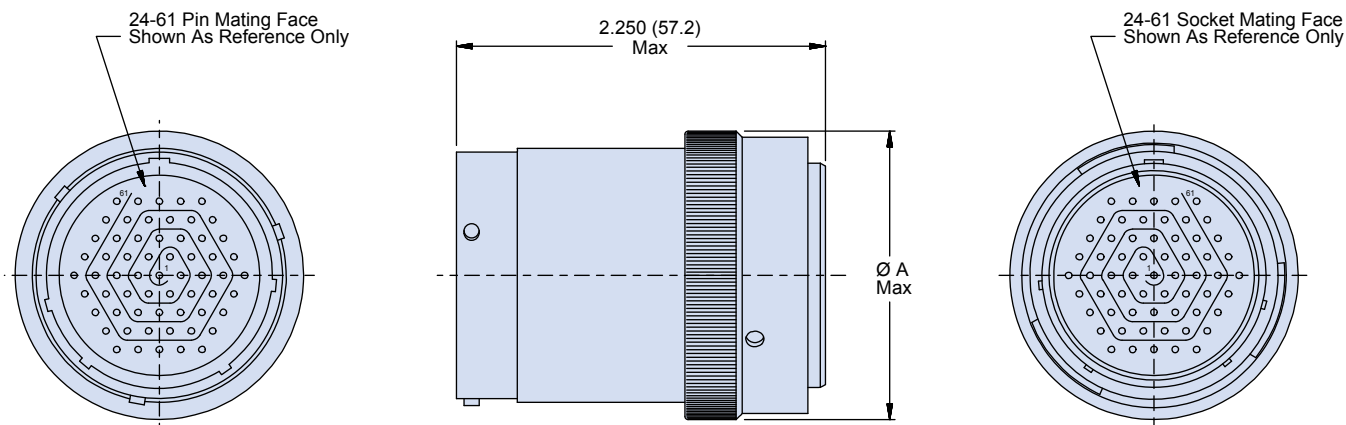
### 240-838A Bayonet Coupling



#### 240-838A FILTER CONNECTOR ADAPTER WITH BAYONET COUPLING

| How To Order              |                                                           |   |    |       |    |   |   |   |   |
|---------------------------|-----------------------------------------------------------|---|----|-------|----|---|---|---|---|
| Sample Part Number        | 240-838                                                   | A | ME | 24-61 | PS | P | A | N | N |
| Filter Connector          | 240-838                                                   |   |    |       |    |   |   |   |   |
| Shell Style               | A = Bayonet Coupling                                      |   |    |       |    |   |   |   |   |
| Finish                    | See Table I                                               |   |    |       |    |   |   |   |   |
| Insert Arrangement        | See Table II                                              |   |    |       |    |   |   |   |   |
| Contact Gender            | PS = Pins, Plug Side SP = Sockets, Plug Side (See Note 2) |   |    |       |    |   |   |   |   |
| Filter Type               | P = Pi Circuit C = C Circuit (See Note 1)                 |   |    |       |    |   |   |   |   |
| Capacitance               | See Table IV                                              |   |    |       |    |   |   |   |   |
| Flange Mounting Style     | N = Not Applicable                                        |   |    |       |    |   |   |   |   |
| Alternate Insert Position | 1, 2, 3, 4, 5, 6, 7, 8, 9, Y, N = Normal (See Table III)  |   |    |       |    |   |   |   |   |

B



| Dimensions |              |
|------------|--------------|
| Shell Size | Ø A Max      |
| 8          | .776 (19.7)  |
| 10         | .906 (23.0)  |
| 12         | 1.708 (43.4) |
| 14         | 1.141 (29.0) |
| 16         | 1.266 (32.2) |
| 18         | 1.375 (34.9) |
| 20         | 1.510 (38.4) |
| 22         | 1.625 (41.3) |
| 24         | 1.760 (44.7) |

#### NOTES

1. Other filter styles (C-L, L-C, Unbalanced Pi, Multi-Stage, Multi-Value) are available, please consult the factory.
2. Please consult the factory for Pin/Pin and/or Socket/Socket contact arrangements.



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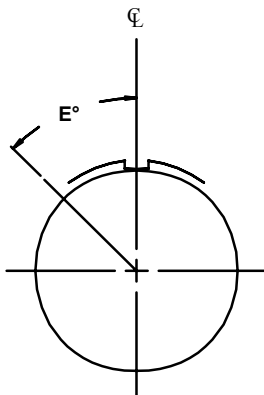
### Reference Information



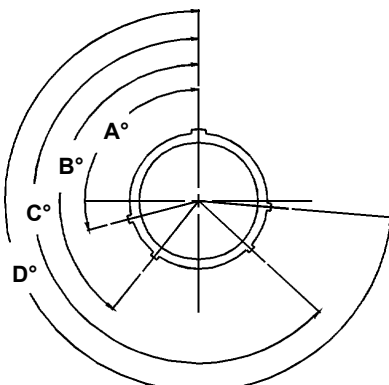
| Table I: Material and Finish |                 |                                                       |
|------------------------------|-----------------|-------------------------------------------------------|
| Plating Code                 | Material        | Finish                                                |
| M                            | Aluminum        | Electroless Nickel                                    |
| B                            |                 | Cad Plate, Olive Drab                                 |
| NF                           |                 | Cadmium Plate Olive Drab over Electroless Nickel      |
| NC                           |                 | Zinc-Cobalt                                           |
| ZN                           |                 | Olive Drab Zinc-Nickel                                |
| MT                           |                 | Ni-PTFE 1000 Hour Grey™ (Nickel Fluorocarbon Polymer) |
| ZR                           |                 | Zinc Nickel, Black                                    |
| ME                           |                 | Electroless Nickel (RoHS)                             |
| ZL                           | Stainless Steel | Electro-Deposited Nickel                              |

| Table II: Insert Arrangement |                             |                        |    |    |
|------------------------------|-----------------------------|------------------------|----|----|
| Shell Size Design.           | Insert Arrangement Dash No. | Contact Size: Quantity |    |    |
|                              |                             | 20                     | 16 | 12 |
| 08                           | 08-02                       | 2                      |    |    |
|                              | 08-03                       | 3                      |    |    |
|                              | 08-98                       | 3                      |    |    |
| 10                           | 10-2                        | 2                      |    |    |
|                              | 10-5                        | 5                      |    |    |
|                              | 10-6                        | 6                      |    |    |
|                              | 10-20                       | 2                      |    |    |
| 12                           | 12-03                       |                        | 3  |    |
|                              | 12-12                       | 12                     |    |    |
| 14                           | 14-04                       |                        |    | 4  |
|                              | 14-07                       |                        | 7  |    |
|                              | 14-12                       | 9                      | 3  |    |
|                              | 14-15                       | 15                     |    |    |
| 16                           | 16-10                       |                        | 10 |    |
|                              | 16-24                       | 24                     |    |    |

| Table II: Insert Arrangement |                             |                        |    |    |
|------------------------------|-----------------------------|------------------------|----|----|
| Shell Size Design.           | Insert Arrangement Dash No. | Contact Size: Quantity |    |    |
|                              |                             | 20                     | 16 | 12 |
| 18                           | 18-08                       |                        |    | 8  |
|                              | 18-14                       |                        | 14 |    |
|                              | 18-31                       | 31                     |    |    |
| 20                           | 20-16                       |                        | 16 |    |
|                              | 20-25                       | 19                     |    | 6  |
|                              | 20-28                       | 24                     |    | 4  |
|                              | 20-39                       | 37                     | 2  |    |
|                              | 20-41                       | 41                     |    |    |
| 22                           | 22-12                       |                        |    | 12 |
|                              | 22-19                       |                        | 19 |    |
|                              | 22-32                       | 26                     |    | 6  |
|                              | 22-39                       | 27                     | 12 |    |
|                              | 22-55                       | 55                     |    |    |
| 24                           | 24-19                       |                        |    | 19 |
|                              | 24-43                       | 23                     | 20 |    |
|                              | 24-57                       | 55                     |    | 2  |
|                              | 24-61                       | 61                     |    |    |



ROTATED PIN INSERT  
POSITION 1 THRU 5



FACE VIEW RECEPTACLE  
POSITION N, 6 THRU 10

| Table III: Alternate Keway Positions |        |     |     |     |         |     |     |     |               |     |     |     |                 |  |
|--------------------------------------|--------|-----|-----|-----|---------|-----|-----|-----|---------------|-----|-----|-----|-----------------|--|
| Alternate Key Position               | Size 8 |     |     |     | Size 10 |     |     |     | Sizes 12 - 24 |     |     |     | Insert Position |  |
|                                      | A°     | B°  | C°  | D°  | A°      | B°  | C°  | D°  | A°            | B°  | C°  | D°  | E°              |  |
| N = Normal                           | 105    | 140 | 210 | 265 | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 0               |  |
| 1                                    | -      | -   | -   | -   | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 10              |  |
| 2                                    | -      | -   | -   | -   | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 20              |  |
| 3                                    | -      | -   | -   | -   | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 30              |  |
| 4                                    | -      | -   | -   | -   | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 40              |  |
| 5                                    | -      | -   | -   | -   | 105     | 140 | 215 | 265 | 105           | 140 | 215 | 265 | 50              |  |
| 6                                    | 102    | 132 | 248 | 320 | 102     | 132 | 248 | 320 | 18            | 149 | 192 | 259 | 0               |  |
| 7                                    | 80     | 118 | 230 | 312 | 80      | 118 | 230 | 312 | 92            | 152 | 222 | 342 | 0               |  |
| 8                                    | 35     | 140 | 205 | 275 | 35      | 140 | 205 | 275 | 84            | 152 | 204 | 334 | 0               |  |
| 9                                    | 64     | 155 | 234 | 304 | 64      | 155 | 234 | 304 | 24            | 135 | 199 | 240 | 0               |  |
| 10                                   | -      | -   | -   | -   | 25      | 115 | 220 | 270 | 98            | 152 | 268 | 336 | 0               |  |

In alternate positions, the pin insert rotates clockwise while the socket insert rotates counterclockwise the same number of degrees relative to the center line of the master key or keyway.

| Table IV: Capacitor Array Code Capacitance Range |                   |                  |
|--------------------------------------------------|-------------------|------------------|
| Class                                            | Pi - Circuit (pF) | C - Circuit (pF) |
| X*                                               | 160,000 - 240,000 | 80,000 - 120,000 |
| Y*                                               | 80,000 - 120,000  | 40,000 - 60,000  |
| Z*                                               | 60,000 - 90,000   | 30,000 - 45,000  |
| 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   |

| Table IV: Capacitor Array Code Capacitance Range |                   |                  |
|--------------------------------------------------|-------------------|------------------|
| Class                                            | Pi - Circuit (pF) | C - Circuit (pF) |
| 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            |

\* Filter Classes X, Y and Z are 250 VDC.  
All others are 500 VDC