



# Aerovox<sup>®</sup>

**High Voltage AC &  
DC Film Capacitors**

FOR POWER ELECTRONICS  
APPLICATIONS

**RoHS COMPLIANT**

**Intelligent Capacitor Solutions**



Aerovox can address all your capacitor needs. The higher voltage ratings and rugged construction of our high voltage AC & DC film capacitors make them suitable for applications beyond the capabilities of general purpose units. They are available as standard items in many configurations to address a wide range of needs.

All capacitors are built using Lean Six Sigma manufacturing practices and undergo rigorous quality assurance testing. If you have specialized needs, our flexible manufacturing processes allow us to quickly provide custom configurations.



**Aerovox provides intelligent capacitor solutions.**



## High Voltage AC & DC Film Capacitors

FOR POWER ELECTRONICS APPLICATIONS



Aerovox high voltage capacitors are constructed with metallized polypropylene film and are available in round or oval aluminum cases with four-blade quick disconnect terminals as standard. Special terminals and steel cases are available on request.

### Highlights

- High voltage up to 1,200 VAC (2,000 VDC)
- UL and cUL file number E51176
- Designed for >60,000 hours operational life
- Oil-filled with an environmentally "green" fluid
- Pressure interrupter meets UL810 requirements



### Applications

- Switching Power Supply
- Inverters / Converters
- Heavy Duty Motor Run
- High Current Lighting
- UPS Systems

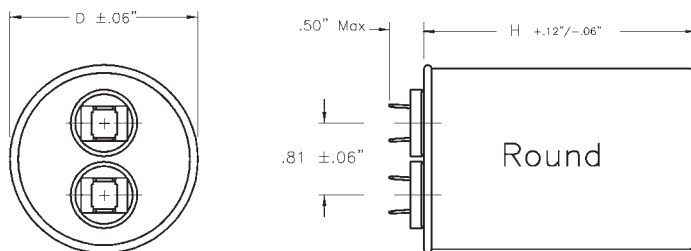
### Specifications

|                                    |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| <b>Capacitance Range:</b>          | 0.25 $\mu$ F to 80 $\mu$ F*                                            |
| <b>Capacitance Tolerance:</b>      | $\pm 3\%$ to $\pm 10\%$                                                |
| <b>AC Voltage Range:</b>           | 660 VAC to 1,200 VAC*                                                  |
| <b>DC Voltage Range:</b>           | 1,200 VDC to 2,000 VDC                                                 |
| <b>Operating Temperature:</b>      | -40°C to +90°C                                                         |
| <b>Dissipation Factor:</b>         | 0.1% max @ 60 Hz and 25°C                                              |
| <b>Insulation Resistance (IR):</b> | >1,000 M $\Omega$ x $\mu$ F                                            |
| <b>Withstand Voltage:</b>          | Terminal to terminal 1.75 x WVAC<br>Terminal to case 2.0 WVAC + 1 kVAC |
| <b>Capacitance Stability:</b>      | $\pm 3\%$ throughout life                                              |
| <b>Insulated Bushings:</b>         | High cup standard over 1,000 VAC (1,750 VDC)                           |
| <b>Approval Recognition:</b>       | UL, cUL, File# E51176                                                  |

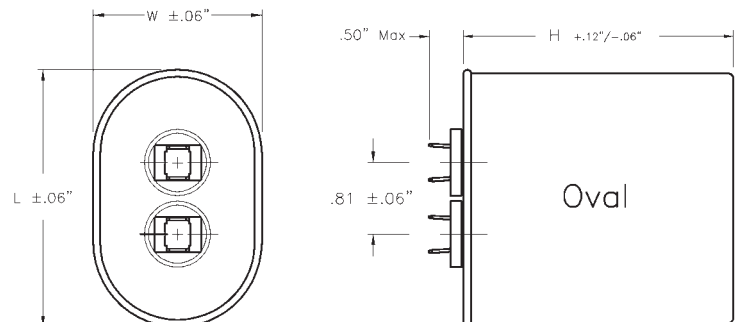
\*Inquire about special ratings

### Outline Drawings

Round Can – Low Cup



Oval Can – Low Cup

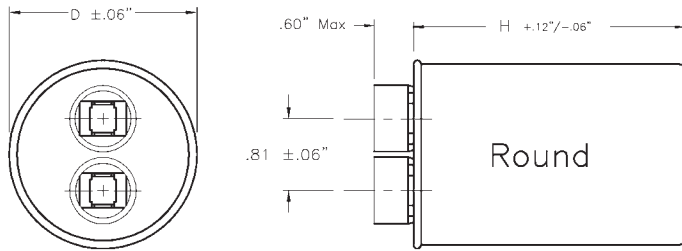


# High Voltage AC & DC Film Capacitors

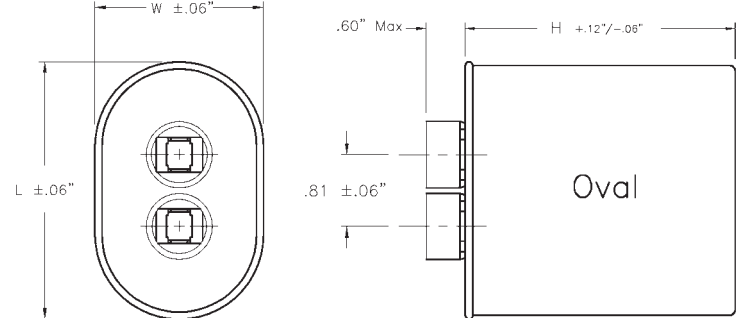
FOR POWER ELECTRONICS APPLICATIONS

## Outline Drawings

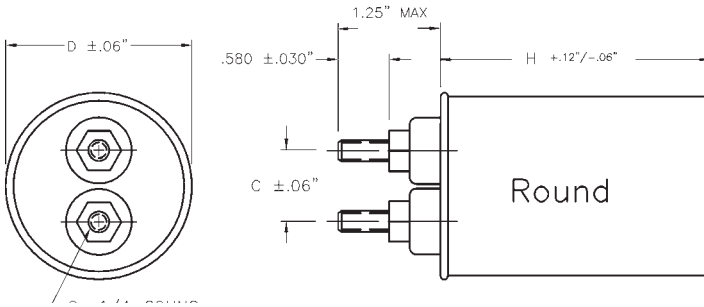
### Round Can – High Cup



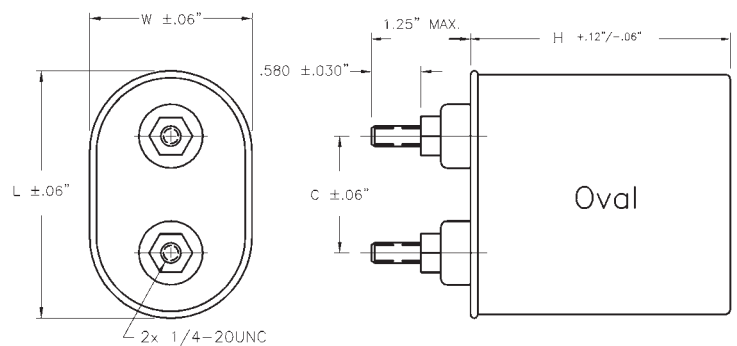
### Oval Can – High Cup



### Round Can – Studs



### Oval Can – Studs

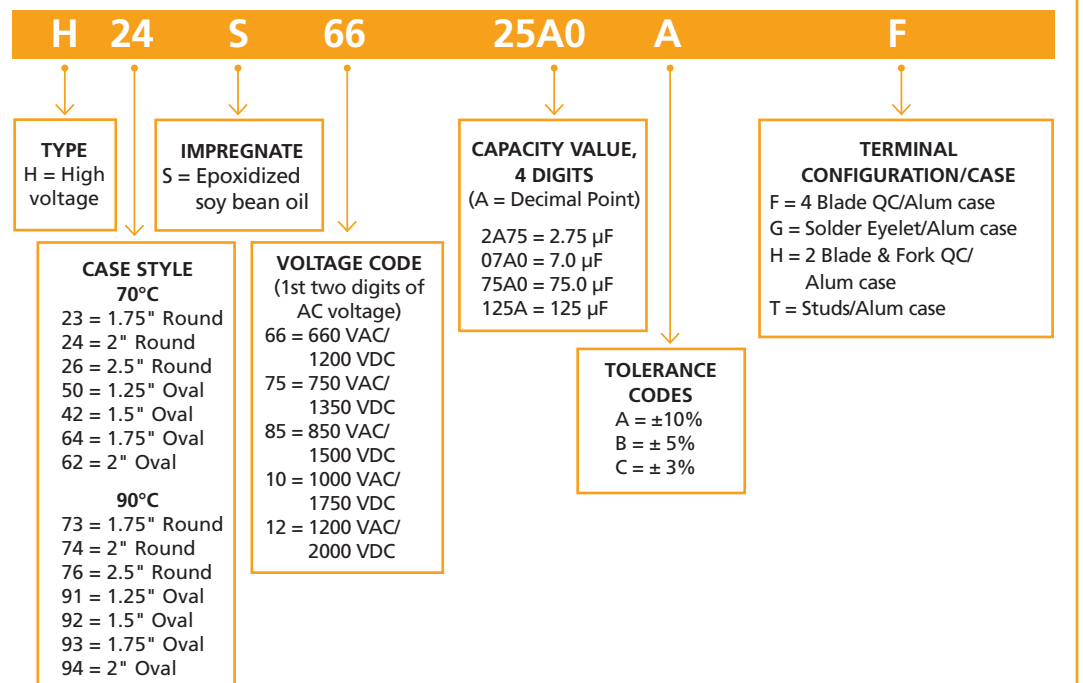


| Round Size | C     |
|------------|-------|
| 1¾" Round  | 0.81" |
| 2" Round   | 0.81" |
| 2½" Round  | 1.25" |

| Oval Size | C     |
|-----------|-------|
| 1¾" Oval  | 0.81" |
| 1½" Oval  | 0.81" |
| 1¾" Oval  | 1.38" |
| 2" Oval   | 1.38" |

## Part Numbering System

Aerovox's part numbering system is a descriptive part number made up of several different components such as voltage rating, capacitance, etc. The descriptors are explained below using H24S6625A0AF as a representative part number:



# High Voltage AC & DC Film Capacitors

FOR POWER ELECTRONICS APPLICATIONS

## Oval Cases

Rated for 60,000 hour duty @ 70°C

| CAP<br>(μF)                 | AEROVOX P/N  | CASE<br>CODE | WIDTH<br>(Inches) | LENGTH<br>(Inches) | CASE<br>HEIGHT<br>(Inches) | I <sub>RMS</sub><br>(A <sub>RMS</sub> ) | I <sub>PEAK</sub><br>(A) | I <sub>S</sub><br>SURGE<br>(A) | DV/dt<br>RATES<br>(V/μs) | DV/dt<br>MAX<br>(V/μs) | ESR @<br>60 HZ<br>(mΩ) | DF<br>(%) | WEIGHT<br>(Pounds) |
|-----------------------------|--------------|--------------|-------------------|--------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|
| <b>660 VAC (1,200 VDC)</b>  |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 5                           | H50S6605A0AF | A            | 1.31              | 2.16               | 2.88                       | 2.3                                     | 427                      | 534                            | 85                       | 107                    | 32                     | 0.10      | 0.29               |
| 10                          | H50S6610A0AF | A            | 1.31              | 2.16               | 3.25                       | 4.0                                     | 741                      | 925                            | 74                       | 93                     | 21                     | 0.13      | 0.32               |
| 15                          | H50S6615A0AF | A            | 1.31              | 2.16               | 4.25                       | 4.2                                     | 770                      | 962                            | 51                       | 64                     | 22                     | 0.21      | 0.42               |
| 20                          | H64S6620A0AF | C            | 1.91              | 2.91               | 3.75                       | 4.9                                     | 910                      | 1136                           | 45                       | 57                     | 15                     | 0.19      | 0.68               |
| 25                          | H64S6625A0AF | C            | 1.91              | 2.91               | 4.25                       | 6.6                                     | 1213                     | 1515                           | 49                       | 61                     | 15                     | 0.23      | 0.76               |
| 30                          | H64S6630A0AF | C            | 1.91              | 2.91               | 4.75                       | 7.2                                     | 1336                     | 1668                           | 45                       | 56                     | 17                     | 0.32      | 0.65               |
| 40                          | H62S6640A0AF | D            | 1.97              | 3.66               | 3.75                       | 13.1                                    | 2426                     | 3030                           | 61                       | 76                     | 10                     | 0.25      | 0.97               |
| 50                          | H62S6650A0AF | D            | 1.97              | 3.66               | 4.75                       | 12.0                                    | 2227                     | 2781                           | 45                       | 56                     | 12                     | 0.30      | 1.19               |
| <b>750 VAC (1,350 VDC)</b>  |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 10                          | H42S7510A0AF | B            | 1.56              | 2.69               | 3.75                       | 4.3                                     | 788                      | 984                            | 79                       | 98                     | 35                     | 0.22      | 0.56               |
| 20                          | H62S7520A0AF | D            | 1.97              | 3.66               | 4.25                       | 10.4                                    | 1919                     | 2397                           | 96                       | 120                    | 14                     | 0.18      | 0.85               |
| 30                          | H62S7530A0AF | D            | 1.97              | 3.66               | 4.25                       | 10.8                                    | 2006                     | 2506                           | 67                       | 84                     | 15                     | 0.29      | 1.08               |
| 40                          | H62S7540A0AF | D            | 1.97              | 3.66               | 5.88                       | 10                                      | 1855                     | 2316                           | 46                       | 58                     | 24                     | 0.59      | 1.44               |
| <b>850 VAC (1,500 VDC)</b>  |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 5                           | H42S8505A0AF | B            | 1.56              | 2.69               | 2.75                       | 4.0                                     | 735                      | 918                            | 147                      | 184                    | 32                     | 0.10      | 0.42               |
| 10                          | H64S8510A0AF | C            | 1.91              | 2.91               | 3.75                       | 5.1                                     | 938                      | 1171                           | 94                       | 117                    | 30                     | 0.19      | 0.60               |
| 15                          | H62S8515A0AF | D            | 1.97              | 3.66               | 3.75                       | 7.6                                     | 1406                     | 1756                           | 94                       | 117                    | 21                     | 0.20      | 0.97               |
| 20                          | H62S8520A0AF | D            | 1.97              | 3.66               | 4.25                       | 8.6                                     | 1587                     | 1982                           | 79                       | 99                     | 19                     | 0.24      | 1.08               |
| 25                          | H62S8525A0AF | D            | 1.97              | 3.66               | 4.75                       | 9.3                                     | 1720                     | 2148                           | 69                       | 86                     | 22                     | 0.34      | 1.19               |
| <b>1000 VAC (1,750 VDC)</b> |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 10                          | H62S1010A0AF | D            | 1.97              | 3.66               | 3.75                       | 6.6                                     | 1213                     | 1515                           | 121                      | 152                    | 26                     | 0.16      | 0.97               |
| 15                          | H62S1015A0AF | D            | 1.97              | 3.66               | 4.75                       | 7.2                                     | 1336                     | 1668                           | 89                       | 111                    | 28                     | 0.26      | 1.19               |
| <b>1200 VAC (2,000 VDC)</b> |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 10                          | H62S1210A0AF | D            | 1.97              | 3.66               | 4.25                       | 6.2                                     | 1144                     | 1429                           | 114                      | 143                    | 27                     | 0.17      | 1.08               |
| 15                          | H62S1215A0AF | D            | 1.97              | 3.66               | 5.88                       | 6.4                                     | 1175                     | 1468                           | 78                       | 98                     | 36                     | 0.34      | 1.44               |

# High Voltage AC & DC Film Capacitors

FOR POWER ELECTRONICS APPLICATIONS

## Round Cases

Rated for 60,000 hour duty @ 70°C

| CAP<br>(μF) | AEROVOX P/N | CASE<br>CODE | BASE DIAMETER<br>(Inches) | CASE<br>HEIGHT<br>(Inches) | I <sub>RMS</sub><br>(A <sub>RMS</sub> ) | I <sub>PEAK</sub><br>(A) | I <sub>s</sub><br>SURGE<br>(A) | dV/dt<br>RATES<br>(V/μs) | dV/dt<br>MAX<br>(V/μs) | ESR @<br>60 HZ<br>(mΩ) | DF<br>(%) | WEIGHT<br>(Pounds) |
|-------------|-------------|--------------|---------------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|
|-------------|-------------|--------------|---------------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|

### 660 VAC (1,200 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 10 | H24S6610A0AF | S | 2.00 | 2.38 | 7.2  | 1329 | 1659 | 133 | 166 | 11 | 0.07 | 0.33 |
| 15 | H23S6615A0AF | P | 1.75 | 3.25 | 6.0  | 1111 | 1388 | 74  | 93  | 15 | 0.14 | 0.36 |
| 20 | H24S6620A0AF | S | 2.00 | 3.25 | 8.0  | 1481 | 1850 | 74  | 93  | 12 | 0.15 | 0.45 |
| 25 | H24S6625A0AF | S | 2.00 | 3.75 | 8.2  | 1517 | 1894 | 61  | 76  | 13 | 0.20 | 0.51 |
| 30 | H26S6630A0AF | T | 2.50 | 3.75 | 9.8  | 1820 | 2273 | 61  | 76  | 12 | 0.22 | 0.78 |
| 40 | H26S6640A0AF | T | 2.50 | 3.75 | 13.1 | 2427 | 3031 | 61  | 76  | 10 | 0.24 | 0.78 |
| 50 | H26S6650A0AF | T | 2.50 | 4.75 | 12.0 | 2226 | 2781 | 45  | 56  | 12 | 0.38 | 0.94 |
| 60 | H26S6660A0AF | T | 2.50 | 5.88 | 11.4 | 2110 | 2636 | 35  | 44  | 11 | 0.41 | 0.94 |

### 750 VAC (1,350 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 10 | H23S7510A0AF | P | 1.75 | 4.25 | 9.2  | 1698 | 2120 | 170 | 212 | 16 | 0.10 | 0.47 |
| 15 | H26S7515A0AF | T | 2.50 | 4.25 | 13.8 | 2546 | 3180 | 170 | 212 | 12 | 0.11 | 0.86 |
| 20 | H26S7520A0AF | T | 2.50 | 4.25 | 13.3 | 2452 | 3062 | 123 | 153 | 15 | 0.19 | 1.11 |
| 25 | H26S7525A0AF | T | 2.50 | 4.75 | 15.0 | 3065 | 3828 | 123 | 153 | 13 | 0.21 | 1.11 |
| 30 | H26S7530A0AF | T | 2.50 | 4.75 | 15.0 | 3678 | 4594 | 123 | 153 | 12 | 0.23 | 1.11 |

### 850 VAC (1,500 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 10 | H24S8510A0AF | S | 2.00 | 4.25 | 5.1  | 938  | 1171 | 94  | 117 | 14 | 0.57 | 0.09 |
| 15 | H26S8515A0AF | T | 2.50 | 4.25 | 10.7 | 1980 | 2473 | 132 | 165 | 17 | 0.16 | 1.11 |
| 20 | H26S8520A0AF | T | 2.50 | 4.75 | 14.3 | 2640 | 3298 | 132 | 165 | 14 | 0.18 | 1.11 |
| 25 | H26S8525A0AF | T | 2.50 | 5.88 | 15.0 | 3300 | 4122 | 132 | 165 | 13 | 0.20 | 1.11 |

### 1000 VAC (1,750 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 5  | H24S1005A0AF | S | 2.00 | 4.25 | 7.0  | 1329 | 1659 | 266 | 332 | 22 | 0.07 | 0.57 |
| 10 | H26S1010A0AF | T | 2.50 | 5.88 | 9.0  | 1708 | 2134 | 171 | 213 | 19 | 0.12 | 1.11 |
| 15 | H26S1015A0AF | T | 2.50 | 5.88 | 14.0 | 2562 | 3200 | 171 | 213 | 15 | 0.14 | 1.11 |

# High Voltage AC & DC Film Capacitors

FOR POWER ELECTRONICS APPLICATIONS

## Oval Cases

Rated for 60,000 hour duty @ 90°C

| CAP<br>(μF)                | AEROVOX P/N  | CASE<br>CODE | WIDTH<br>(Inches) | LENGTH<br>(Inches) | CASE<br>HEIGHT<br>(Inches) | I <sub>RMS</sub><br>(A <sub>RMS</sub> ) | I <sub>PEAK</sub><br>(A) | I <sub>s</sub><br>SURGE<br>(A) | dV/dt<br>RATES<br>(V/μs) | dV/dt<br>MAX<br>(V/μs) | ESR @<br>60 HZ<br>(mΩ) | DF<br>(%) | WEIGHT<br>(Pounds) |
|----------------------------|--------------|--------------|-------------------|--------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|
| <b>660 VAC (1,200 VDC)</b> |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 5                          | H91S6605A0AF | A            | 1.31              | 2.16               | 3.25                       | 2.59                                    | 480                      | 599                            | 96                       | 120                    | 48                     | 0.15      | 0.32               |
| 10                         | H92S6610A0AF | B            | 1.56              | 2.69               | 3.75                       | 4.26                                    | 788                      | 984                            | 79                       | 98                     | 35                     | 0.22      | 0.56               |
| 15                         | H93S6615A0AF | C            | 1.91              | 2.91               | 3.75                       | 6.39                                    | 1183                     | 1477                           | 79                       | 98                     | 24                     | 0.23      | 0.68               |
| 20                         | H94S6620A0AF | D            | 1.97              | 3.66               | 3.25                       | 10.37                                   | 1919                     | 2397                           | 96                       | 120                    | 14                     | 0.18      | 0.85               |
| 25                         | H94S6625A0AF | D            | 1.97              | 3.66               | 3.75                       | 10.65                                   | 1971                     | 2461                           | 79                       | 98                     | 16                     | 0.25      | 0.97               |
| 30                         | H94S6630A0AF | D            | 1.97              | 3.66               | 4.25                       | 10.84                                   | 2006                     | 2506                           | 67                       | 84                     | 15                     | 0.29      | 1.08               |
| 40                         | H94S6640A0AF | D            | 1.97              | 3.66               | 5.88                       | 10.02                                   | 1855                     | 2316                           | 46                       | 58                     | 24                     | 0.59      | 1.44               |
| <b>750 VAC (1,350 VDC)</b> |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 10                         | H93S7510A0AF | C            | 1.91              | 2.91               | 3.75                       | 5.07                                    | 938                      | 1171                           | 94                       | 117                    | 30                     | 0.19      | 0.68               |
| 15                         | H94S7515A0AF | D            | 1.97              | 3.66               | 3.75                       | 7.60                                    | 1406                     | 1756                           | 94                       | 117                    | 21                     | 0.20      | 0.97               |
| 20                         | H94S7520A0AF | D            | 1.97              | 3.66               | 4.25                       | 8.58                                    | 1587                     | 1982                           | 79                       | 99                     | 19                     | 0.24      | 1.08               |
| 25                         | H94S7525A0AF | D            | 1.97              | 3.66               | 4.75                       | 9.30                                    | 1720                     | 2148                           | 69                       | 86                     | 22                     | 0.34      | 1.19               |
| <b>850 VAC (1,500 VDC)</b> |              |              |                   |                    |                            |                                         |                          |                                |                          |                        |                        |           |                    |
| 5                          | H93S8505A0AF | C            | 1.91              | 2.91               | 2.75                       | 4.56                                    | 843                      | 1053                           | 169                      | 211                    | 29                     | 0.09      | 0.51               |
| 10                         | H94S8510A0AF | D            | 1.97              | 3.66               | 3.25                       | 7.10                                    | 1313                     | 1640                           | 131                      | 164                    | 21                     | 0.13      | 0.85               |
| 15                         | H94S8515A0AF | D            | 1.97              | 3.66               | 4.25                       | 7.38                                    | 1366                     | 1706                           | 91                       | 114                    | 22                     | 0.21      | 1.08               |

# High Voltage AC & DC Film Capacitors

FOR POWER ELECTRONICS APPLICATIONS

## Round Cases

Rated for 60,000 hour duty @ 90°C

| CAP<br>(μF) | AEROVOX P/N | CASE<br>CODE | BASE DIAMETER<br>(Inches) | CASE<br>HEIGHT<br>(Inches) | I <sub>RMS</sub><br>(A <sub>RMS</sub> ) | I <sub>PEAK</sub><br>(A) | I <sub>S</sub><br>SURGE<br>(A) | dV/dt<br>RATES<br>(V/μs) | dV/dt<br>MAX<br>(V/μs) | ESR @<br>60 HZ<br>(mΩ) | DF<br>(%) | WEIGHT<br>(Pounds) |
|-------------|-------------|--------------|---------------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|
|-------------|-------------|--------------|---------------------------|----------------------------|-----------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|------------------------|-----------|--------------------|

### 660 VAC (1,200 VDC)

|    |              |   |      |      |       |      |      |     |     |    |      |      |
|----|--------------|---|------|------|-------|------|------|-----|-----|----|------|------|
| 5  | H73S6605A0AF | P | 1.75 | 4.25 | 4.59  | 849  | 1060 | 170 | 212 | 26 | 0.08 | 0.47 |
| 10 | H73S6610A0AF | P | 1.75 | 4.25 | 9.17  | 1698 | 2120 | 170 | 212 | 16 | 0.10 | 0.47 |
| 15 | H76S6615A0AF | T | 2.50 | 3.25 | 13.76 | 2546 | 3180 | 170 | 212 | 12 | 0.11 | 0.86 |
| 20 | H76S6620A0AF | T | 2.50 | 4.25 | 13.25 | 2452 | 3062 | 123 | 153 | 15 | 0.19 | 1.11 |
| 25 | H76S6625A0AF | T | 2.50 | 4.25 | 15.0  | 3065 | 3828 | 123 | 153 | 13 | 0.21 | 1.11 |
| 30 | H76S6630A0AF | T | 2.50 | 5.88 | 15.0  | 3678 | 4594 | 123 | 153 | 12 | 0.23 | 1.11 |

### 750 VAC (1,350 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 10 | H74S7510A0AF | S | 2.00 | 4.75 | 5.1  | 938  | 1171 | 94  | 117 | 14 | 0.09 | 0.57 |
| 15 | H76S7515A0AF | T | 2.50 | 3.75 | 10.7 | 1980 | 2473 | 132 | 165 | 17 | 0.16 | 1.11 |
| 20 | H76S7520A0AF | T | 2.50 | 4.75 | 14.3 | 2640 | 3298 | 132 | 165 | 14 | 0.18 | 1.11 |
| 25 | H76S7525A0AF | T | 2.50 | 5.88 | 15.0 | 3300 | 4122 | 132 | 165 | 13 | 0.20 | 1.11 |

### 850 VAC (1,500 VDC)

|    |              |   |      |      |      |      |      |     |     |    |      |      |
|----|--------------|---|------|------|------|------|------|-----|-----|----|------|------|
| 5  | H73S8505A0AF | P | 1.75 | 4.25 | 6.4  | 1178 | 1471 | 236 | 294 | 22 | 0.07 | 0.47 |
| 10 | H76S8510A0AF | T | 2.50 | 3.75 | 8.2  | 1514 | 1891 | 151 | 189 | 22 | 0.14 | 1.10 |
| 15 | H76S8515A0AF | T | 2.50 | 4.75 | 12.3 | 2272 | 2837 | 151 | 189 | 17 | 0.16 | 1.11 |

## About Aerovox

Aerovox is a leading provider of film capacitors for industrial, medical and specialized applications serving original equipment manufacturers (OEM) and distributors. The company has world-class design, manufacturing and testing facilities in New Bedford, Massachusetts and global manufacturing facilities in China and India to enable quick turn-around for shipping and delivery worldwide.

Aerovox capacitors are among the world's most reliable components. Our extensive custom design and development capabilities coupled with broad, standardized product offerings allow us to provide intelligent capacitor solutions that meet or exceed our customers' application requirements.

Our aim is to be the best and most sought after provider of capacitor solutions for specialty markets.

# Aerovox®

Aerovox Corp.  
167 John Vertente Blvd.  
New Bedford, MA 02745  
Tel: +1-508-994-9661  
Fax: +1-508-995-3000  
www.aerovox.com

Aerovox China  
28 Wangchun Rd.  
Ningbo, Zhejiang  
China

Aerovox India  
Plot # 30 to 33  
Hardware Park  
Imarat Kancha  
Raviryal Village  
Maheshwaram Mandal  
R R District – 500 066  
Andhra Pradesh State  
India

Copyright 2013, Aerovox Corp. All rights reserved.  
Aerovox is a registered trademark of Aerovox Corp.

HV01308 Printed in the USA